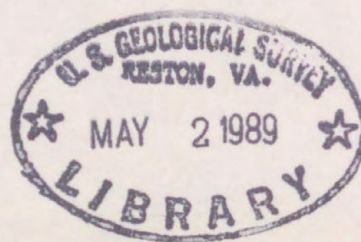


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Water Resources Data Maine Water Year 1987



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-87-1
Prepared in cooperation with the State of Maine
and with other agencies

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Water Resources Data Maine Water Year 1987

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-87-1
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

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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:

Andrew R. Cloutier	Richard A. Morrill
Gordon R. Keezer	Joseph P. Nielsen
Robert G. Lippert	Joel A. Petersen
Thomas J. Maloney	

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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16. Abstract (Limit: 200 words) The Water Resources Division of the U.S. Geological Survey, in cooperation with State, Federal, and other local governmental 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. Water resources data for the 1987 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground-water wells. This report contains discharge records for 49 gaging stations; stage only for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 10 gaging stations and 3 ground-water wells; and water-levels for 24 ground-water wells. Additional water data were collected at other sites, not part of the systematic data collection program, and are published as miscellaneous measurements.			
17. Document Analysis a. Descriptors *Maine, *Hydrologic Data, *Surface Water, *Ground Water, *Water Quality, Flow Rate, Gaging Stations, Lakes, Reservoirs, Chemical Analyses, Water Temperature, Sediments, Sampling Sites, Water Levels, Water Analyses. b. Identifiers/Open-Ended Terms c. COSATI Field/Group			
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INTRODUCTION

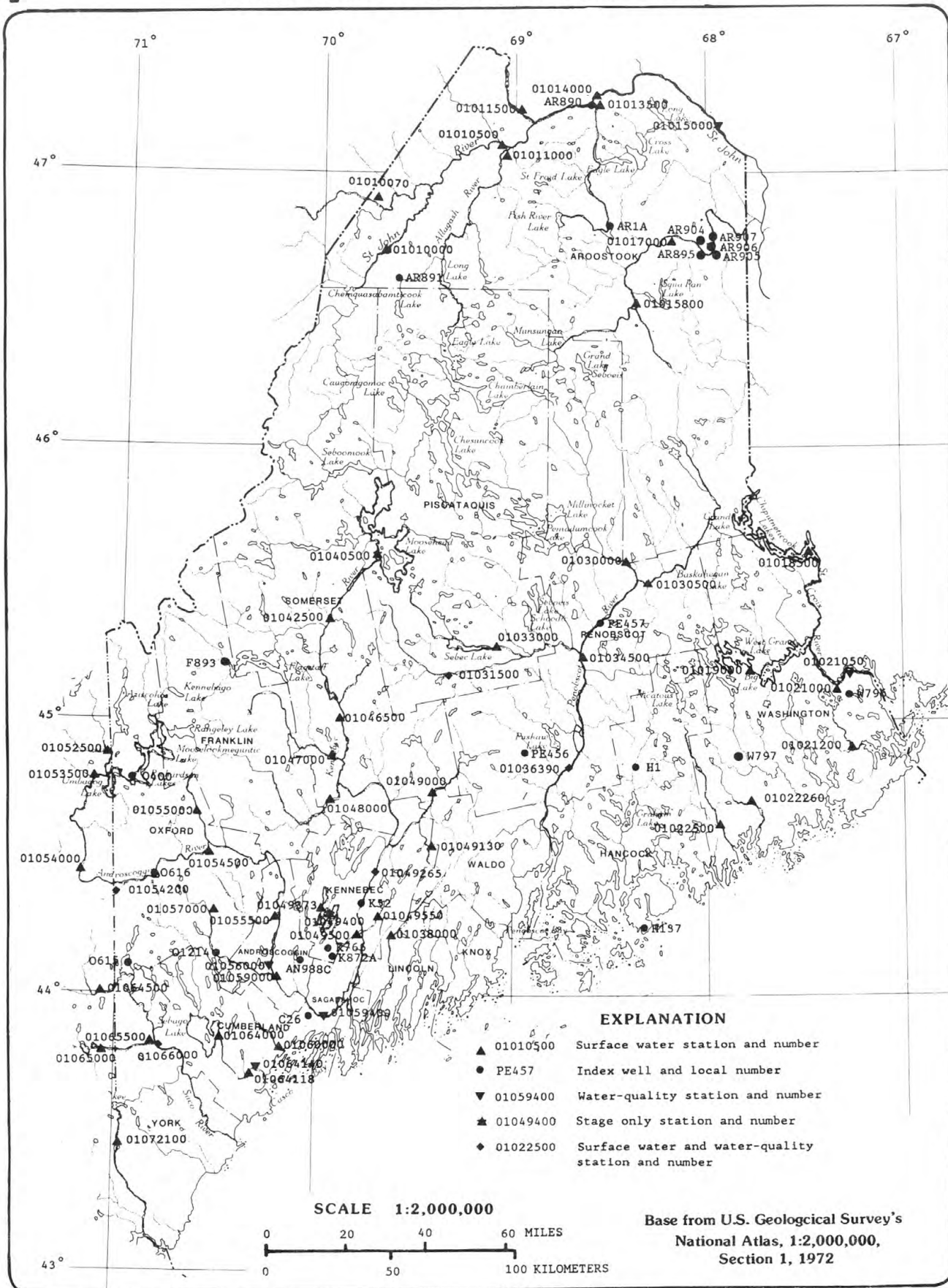
The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Maine each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding 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 49 gaging stations; stage only at 2 gaging stations; contents at 19 lakes and reservoirs; water quality at 10 river sites and 3 wells; and water levels at 24 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-87-1." These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.



Additional information, including current prices, for ordering specific reports may be obtained from the 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, C. E. Meadows, Jr., Commissioner.
Maine Department of Environmental Protection, D. C. Marriott, Commissioner
Maine Department of Inland Fisheries and Wildlife, W. J. Vail, Commissioner
Maine Department of Transportation, D. F. Connors, 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".

HYDROLOGIC CONDITIONS

Runoff for the 1987 water year was characterized by record-setting extremes of streamflow. The "April Fools Day" flood produced new peaks of record at 13 streamflow gaging-stations ¹/. Just 4 to 5 months later, streamflows had receded to values that are exceeded 99 percent of the time at 22 stations.

Annual runoff was in the below-normal range in the St. John and St. Croix River basins and some in tributary streams to the Penobscot River. The mainstem Penobscot River and the rest of the river basins had flows in the normal range, although most were below the long-term median annual flow.

Precipitation, as reported by the National Weather Service, was below the long-term median at 13 of 14 sites used to provide statewide coverage. Table 1 summarizes annual precipitation data at the 14 selected sites for the 1987 water year.

Annual runoff at three long-term index stations--St. John River, below Fish River at Fort Kent, Piscataquis River near Dover-Foxcroft, and Little Androscoggin River near South Paris--ranged from 80 to 101 percent of median, with the St. John and Piscataquis runoff was in the below-normal range, and the Little Androscoggin runoff was in the normal range. The 1987 monthly and annual discharges, and median monthly and annual discharges for the 1951-80 reference period, are shown in figure 2.

Table 1.-- Precipitation at selected locations in Maine
for the 1987 water year.

Station Location	Actual Oct-Sep (Inches)	Median Oct-Sep (Inches)	Departure (Inches)	Percentage of median
Fort Kent	31.27	36.12	-4.85	86.6
Caribou	28.10	36.59	-8.49	76.8
Presque Isle	25.08	36.12	-11.04	69.4
Houlton	29.81	37.20	-7.39	80.1
Brassau Dam	37.32	39.29	-1.97	95.0
Jackman	29.16	37.08	-7.92	78.6
Woodland	34.86	46.07	-11.21	75.7
Eastport	39.97	43.82	-3.85	91.2
Middle Dam	29.73	36.39	-6.66	81.7
Ellsworth	36.88	46.41	-9.53	79.5
Rumford Power Plant	40.66	43.84	-3.18	92.7
Gardiner	40.83	44.36	-3.53	92.0
Lewiston	39.85	45.76	-5.91	87.1
Portland	45.59	43.52	+2.07	104.8

¹/ Fontaine, R. A, 1987, Flood of April 1987, in Maine, Massachusetts, and New Hampshire: U.S. Geological Survey Open-File Report 87-460, 35 p.

WATER RESOURCES DATA FOR MAINE, 1987

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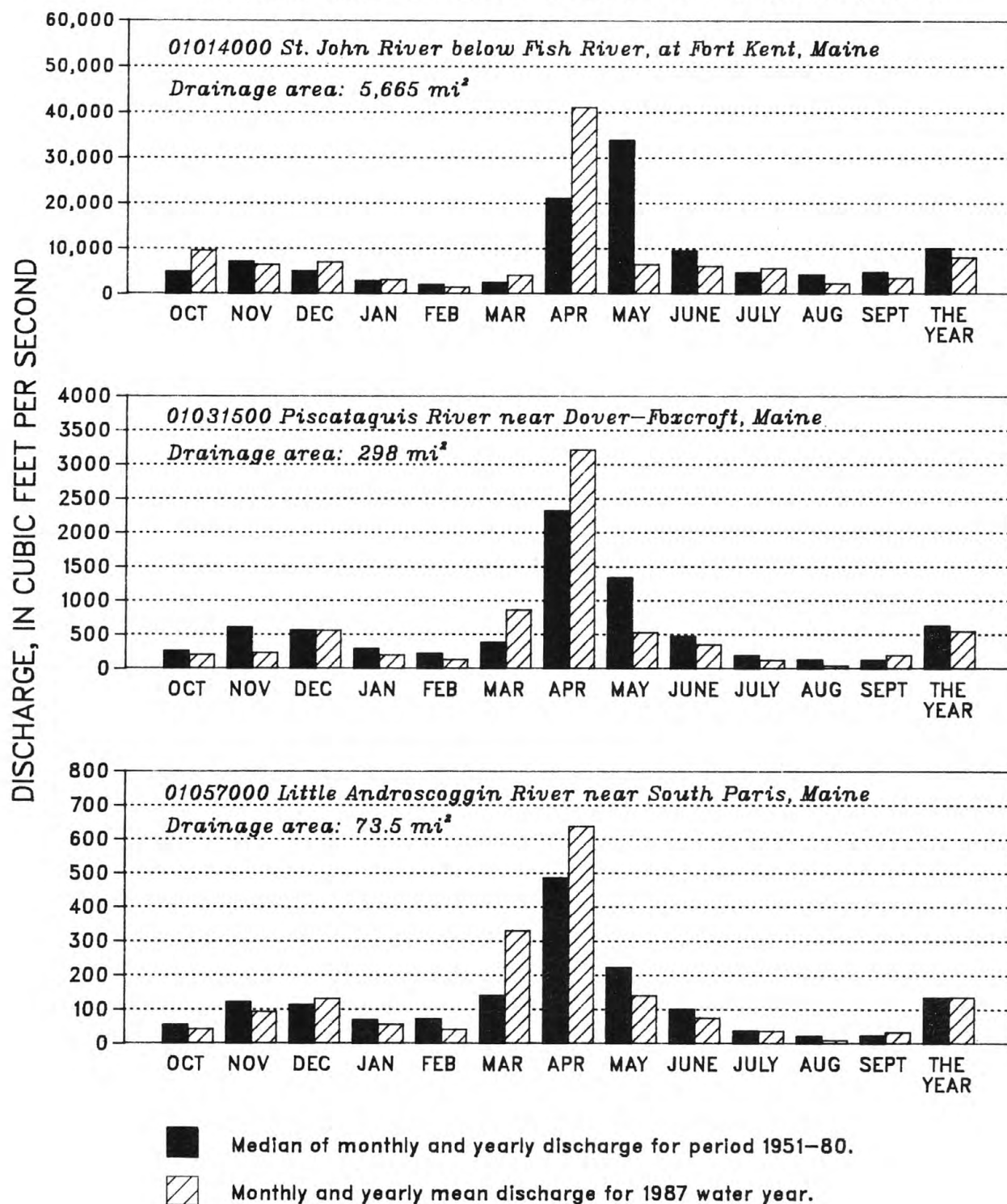


Figure 2.—Comparison of discharge at three long-term index gaging stations during 1987 water year with median discharge for period 1951-80.

Streamflow at the beginning of the water-year was in the above-normal range throughout the State. The next four months-October through January-were normal throughout the State except for above-normal flows in northern Maine in October and below-normal flows in central Maine in November. Flows were below normal throughout the State during February. Streamflow returned to normal in northern Maine and above-normal in the rest of the State during March as the snowpack began to melt. Heavy rain at the end of March, along with the completion of snowpack melt, produced the record floods of April and above-normal runoff statewide for April, which continued during May and June in northern Maine, and during May in central Maine. Flows returned to normal in the rest of the State during May and June. July flows remained normal statewide despite precipitation that was only 60 percent of normal. Precipitation, 51 percent of normal continued in August and runoff dropped into the below-normal range. Runoff returned to normal during September when precipitation was 151 percent of normal.

Usable surface-water storage in seven reservoir systems in Maine totaled 122,930 million ft³ at the beginning of the year; this volume is 69 percent of capacity and 117 percent of the long-term average storage. Usable storage decreased during October and November, held steady in December, then began a steady decrease to the annual minimum at the end of February, when storage was 51,812 million ft³ (29 percent of capacity and 71 percent of the long-term average for the end of February). Storage began to increase during March, then reached the annual maximum at the end of April, when storage was 147,738 million ft³ (83 percent of capacity and 120 percent of the long-term average for the end of April). Storage decreased slightly during May, and then began a steady decline to the end of the water year when 95,662 million ft³ were in usable storage (53 percent of capacity and 90 percent of the long-term end of water-year average).

Water-quality data on specific conductance, dissolved-oxygen concentration, pH, and water temperature from the five continuous monitoring stations in Maine were generally within the previous extreme values of the period of daily record for individual stations. Two new minimum parameter values were measured as a result of the record flood of April 2, 1987, at Gulf Island Pond near Lewiston. The specific conductance of 21 microsiemens was lower than the previous minimum of 24 microsiemens that occurred in June 1984. The pH of 5.7 units was lower than the previous minimum of 6.0 units that occurred in August 1981 and April 1984. On August 26 1987, the Kennebec River at North Sidney station recorded a pH maximum of 87.5 units, which exceeded the previous maximum of 7.4 units.

Supplemental water-quality samples were collected on April 8, 1987 at the Saco River at Cornish site to provide water-quality information during the flood.

Ground-water levels in Maine were in the normal range at the beginning of the water-year. During October through January, water levels were in the normal range, except during November, when levels in an area from Fryeburg to Oxford in southwestern Maine and Clayton Lake to Caribou in northern Maine were below normal. February water levels were below normal in southern and central sections and normal in Northern Maine. March water levels were above normal statewide, except in an area extending from Richardson Lake to Oxford, where records were normal. April water levels were normal statewide, except in an area around Fryeburg, where levels were above normal. May water levels were normal, except for northern Maine, where levels were low normal. In June, water levels throughout the State were in the normal range. July water levels were normal in coastal and southern sections, whereas levels in western, central and northern areas were below normal. August water levels were below normal statewide, except for an area from Bethel to Camden, where levels were normal. September water levels were normal, except in northwestern Maine, where levels were below normal.

Five wells were added to the observation-well network this water year. All five wells are located in Aroostook county. Two wells are completed in bedrock, two wells are completed in till, and one well is completed in sand and gravel.

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 1987 water year that began October 1, 1986, and ended September 30, 1987. 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 indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention 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.)

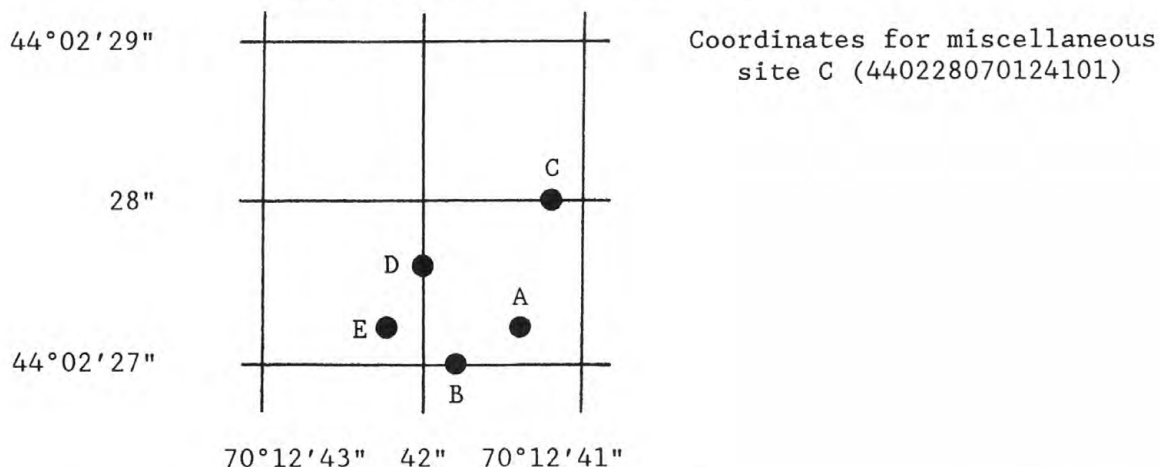


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

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.

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 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 and 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.

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 themselves, 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.

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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 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. Greenson, T. A. Ehlike, 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.

SURFACE-WATER RECORDS

REMARK CODES.--The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
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)

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. 20 to Mar. 31, Aug. 31 to Sept. 8, and Sept. 17-30. Records good except for period of ice-effect, Nov. 20 to Mar. 31, and periods of no gage-height record, Aug. 31 to Sept. 8, and Sept. 17-30, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--37 years, 2,352 ft³/s, 23.82 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, 33,600 ft³/s, Apr. 1, gage height, 10.86 ft; minimum daily discharge, 60 ft³/s, Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5330	2290	e1500	e920	e425	e210	27500	1770	2280	5470	319	e93
2	5100	2060	e1380	e880	e420	e215	29400	2070	1900	3620	281	e86
3	3820	2170	e1300	e840	e410	e215	25600	1970	1390	2430	253	e80
4	3080	2020	e1900	e800	e395	e210	20000	1870	1050	2210	262	e74
5	2920	1760	e3000	e770	e380	e210	15700	1750	860	3810	322	e70
6	2680	1420	e2540	e750	e365	e210	14100	1660	766	3800	626	e63
7	2590	1340	e2200	e730	e355	e205	15800	1890	666	2640	614	e60
8	2590	1320	e1980	e715	e345	e205	16200	2020	576	1890	494	e90
9	2420	1470	e1770	e700	e330	e200	13300	1790	563	1400	508	110
10	2360	3000	e1620	e680	e320	e210	10900	1530	2110	1080	596	162
11	2170	2990	e1520	e660	e310	e210	10300	1330	3870	1020	501	372
12	1920	2530	e1500	e640	e310	e210	10600	1250	3010	941	384	321
13	1740	2080	e1400	e620	e310	e210	10400	1970	2660	795	305	314
14	1600	1050	e1320	e605	e305	e210	9230	1850	2670	730	252	793
15	1690	995	e1280	e580	e300	e210	7880	1520	2290	660	216	2310
16	2370	1330	e1230	e570	e295	e210	6950	1380	2060	688	204	1840
17	2270	1310	e1180	e560	e280	e210	6560	1340	1550	557	199	e1680
18	1950	1270	e1130	e555	e270	e210	6650	1140	1180	463	198	e1370
19	1690	928	e1120	e540	e260	e210	6610	930	913	393	212	e1200
20	1500	e780	e1090	e540	e250	e210	5810	785	736	348	202	e1120
21	1370	e740	e1070	e535	e245	e215	4760	676	613	343	182	e1040
22	1290	e680	e1060	e520	e240	e220	3910	611	543	366	170	e1180
23	1260	e660	e1040	e515	e230	e235	3220	632	474	401	164	e1900
24	1490	e960	e1040	e505	e225	e290	2780	1060	435	422	153	e1750
25	1660	e1520	e1030	e490	e220	e420	2710	1950	429	422	147	e1620
26	1500	e1500	e1140	e480	e215	e600	2360	2120	383	489	137	e1450
27	1370	e1480	e1240	e470	e210	e860	1990	1650	532	588	126	e1300
28	1400	e1740	e1180	e455	e205	e1400	1700	1260	6320	622	118	e1180
29	1650	e1900	e1120	e445	---	e2300	1520	1050	8460	519	111	e1020
30	1730	e1660	e1030	e435	---	e5000	1480	976	6300	430	106	e960
31	2340	---	e970	e430	---	e13800	---	1880	---	361	e97	---
TOTAL	68850	46953	43880	18935	8425	29530	295920	45680	57589	39908	8459	25608
MEAN	2221	1565	1415	611	301	953	9864	1474	1920	1287	273	854
MAX	5330	3000	3000	920	425	13800	29400	2120	8460	5470	626	2310
MIN	1260	660	970	430	205	200	1480	611	383	343	97	60
CFSM	1.66	1.17	1.06	.46	.22	.71	7.36	1.10	1.43	.96	.20	.64
IN.	1.91	1.30	1.22	.53	.23	.82	8.21	1.27	1.60	1.11	.23	.71

CAL YR 1986 TOTAL 1120682 MEAN 3070 MAX 19300 MIN 405 CFSM 2.29 IN. 31.09
WTR YR 1987 TOTAL 689737 MEAN 1890 MAX 29400 MIN 60 CFSM 1.41 IN. 19.13

e Estimated

01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME

LOCATION.--Lat $46^{\circ}53'38''$, long $69^{\circ}45'08''$, 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: Nov. 20 to Mar. 31. Records good except for period of ice effect, Nov. 20 to Mar. 31, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,420 ft³/s Apr. 1, 1987; gage height, 15.62 ft; minimum daily discharge, 7.4 ft³/s, Sep. 24, 1985.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 1	1930	*7,420	*15.62	No other peak greater than base discharge.			

Minimum discharge 17 ft³/sec, Sept. 8, gage height, 3.10 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	315	e145	e110	e76	e55	6790	272	433	250	52	22
2	828	293	e140	e105	e74	e55	5670	273	263	155	46	23
3	524	367	e180	e100	e73	e54	3640	212	154	111	45	23
4	386	313	e235	e100	e72	e53	1910	174	111	189	53	22
5	346	248	e370	e99	e72	e53	1400	148	101	407	128	21
6	299	184	e315	e97	e70	e52	1540	134	125	307	152	19
7	314	170	e250	e96	e70	e52	1970	143	110	169	93	19
8	322	167	e210	e93	e70	e57	1880	147	79	102	61	18
9	329	237	e205	e92	e68	e59	1340	128	92	75	50	32
10	405	468	e190	e90	e67	e57	1130	115	436	61	42	128
11	339	393	e185	e88	e65	e54	1200	103	503	52	36	147
12	272	301	e180	e86	e64	e53	1280	137	360	47	33	93
13	239	221	e170	e84	e58	e52	1160	275	358	46	30	71
14	221	162	e165	e84	e58	e57	941	219	279	62	27	409
15	231	203	e155	e82	e57	e61	794	158	214	271	25	593
16	242	178	e150	e80	e57	e64	728	183	187	183	28	352
17	212	167	e145	e78	e57	e64	708	171	127	96	33	201
18	183	155	e140	e80	e57	e72	724	127	87	63	36	144
19	167	121	e135	e86	e57	e81	714	95	72	49	33	108
20	154	e110	e135	e86	e56	e96	591	81	100	39	35	84
21	145	e105	e130	e86	e56	e120	470	73	96	39	37	87
22	146	e105	e130	e86	e56	e145	392	69	69	46	44	234
23	151	e120	e130	e86	e55	e230	325	79	54	53	50	287
24	182	e140	e135	e86	e54	e350	312	113	47	60	46	208
25	186	e170	e135	e86	e54	e500	341	139	42	235	41	147
26	164	e200	e145	e85	e53	e625	279	134	43	292	35	111
27	151	e235	e150	e82	e53	e800	221	98	60	252	31	91
28	197	e250	e135	e82	e54	e940	183	79	624	174	27	79
29	265	e200	e125	e80	---	e1120	167	70	790	111	24	72
30	328	e165	e120	e78	---	e1500	182	76	451	79	23	65
31	410	---	e115	e76	---	e2800	---	478	---	61	21	---
TOTAL	9478	6463	5250	2729	1733	10331	38982	4703	6467	4136	1417	3910
MEAN	306	215	169	88.0	61.9	333	1299	152	216	133	45.7	130
MAX	1140	468	370	110	76	2800	6790	478	790	407	152	593
MIN	145	105	115	76	53	52	167	69	42	39	21	18
CFSM	1.79	1.26	.99	.51	.36	1.95	7.60	.89	1.26	.78	.27	.76
IN.	2.06	1.41	1.14	.59	.38	2.25	8.48	1.02	1.41	.90	.31	.85

CAL YR 1986 TOTAL 137258 MEAN 376 MAX 4050 MIN 34 CFSM 2.20 IN. 29.86
WTR YR 1987 TOTAL 95599 MEAN 262 MAX 6790 MIN 18 CFSM 1.53 IN. 20.80

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. 12-14 and Nov. 20 to Mar. 31. Records good except for period of ice effect, Nov. 20 to Mar. 31, and period of doubtful gage-height record, Nov. 12-14. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--41 years (water years 1947 to current year), 4,790 ft³/s, 24.27 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. 2	0430	*80,400	*18.01	No other peak greater than base discharge.			

Minimum discharge, 208 ft³/s, Sept. 8 and 9, gage height, 3.58 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10100	4520	e3500	e1950	e880	e435	55900	3510	5160	8620	873	287
2	11500	4090	e3100	e1850	e860	e440	77300	4000	4670	6700	768	276
3	8580	3830	e2800	e1750	e825	e440	61600	4110	3460	4790	716	271
4	6690	3870	e4400	e1680	e800	e440	43700	3730	2610	3850	725	261
5	5820	3530	e6000	e1620	e775	e440	31700	3440	2140	4840	784	256
6	5450	2820	e6900	e1550	e750	e435	26900	3190	1910	6710	934	245
7	5120	2590	e5200	e1520	e720	e430	29500	3110	1760	5380	1070	238
8	5040	2460	e4700	e1480	e700	e430	32400	3440	1550	3900	1180	222
9	5020	2570	e4300	e1420	e670	e430	27800	3490	1430	2880	1010	239
10	5150	4060	e3900	e1380	e650	e430	22100	3110	2080	2290	869	313
11	4990	5770	e3600	e1330	e640	e435	20700	2760	5270	1900	880	421
12	4390	e4930	e3350	e1300	e630	e435	21400	2570	6350	1750	864	585
13	3830	e3760	e3200	e1290	e630	e440	21100	2690	5280	1720	704	699
14	3460	e2850	e2900	e1280	e630	e435	18800	3600	4840	1900	577	1160
15	3310	1940	e2750	e1250	e625	e435	16200	3220	4510	1790	504	4140
16	3490	2010	e2650	e1220	e610	e440	14600	2770	3870	1960	484	5100
17	4090	2580	e2500	e1200	e595	e475	13900	2530	3260	1830	484	3700
18	3730	2460	e2400	e1180	e585	e500	14100	2410	2410	1410	483	2910
19	3260	2050	e2340	e1140	e545	e505	14600	2120	1920	1050	458	2850
20	2930	e1500	e2250	e1120	e525	e515	13100	1820	1600	875	481	2350
21	2650	e1370	e2200	e1100	e515	e525	10800	1590	1370	783	498	1920
22	2540	e1300	e2100	e1080	e500	e550	9020	1440	1200	740	521	2320
23	2460	e1600	e2050	e1050	e480	e640	7510	1400	1040	733	630	3820
24	2490	e2050	e2000	e1030	e475	e760	6470	1400	939	895	743	4050
25	2700	e2400	e2000	e1020	e465	e1000	6040	1670	849	1200	617	3310
26	2800	e2620	e2250	e1000	e450	e1500	5580	2750	755	1410	515	2740
27	2580	e2850	e2600	e990	e440	e2500	4840	2880	866	1610	472	2260
28	2470	e3080	e2400	e960	e435	e3500	4170	2360	3770	1720	432	1930
29	2740	e3350	e2250	e940	---	e6000	3680	1940	15300	1560	374	1670
30	3360	e3750	e2170	e920	---	e12000	3440	1710	11500	1280	335	1470
31	4100	---	e2050	e910	---	e28000	---	2340	---	1040	305	---
TOTAL	136840	88560	96810	39510	17405	65940	638950	83100	103669	79116	20290	52013
MEAN	4414	2952	3123	1275	622	2127	21300	2681	3456	2552	655	1734
MAX	11500	5770	6900	1950	880	28000	77300	4110	15300	8620	1180	5100
MIN	2460	1300	2000	910	435	430	3440	1400	755	733	305	222
CFSM	1.65	1.10	1.17	.48	.23	.79	7.95	1.00	1.29	.95	.24	.65
IN.	1.90	1.23	1.34	.55	.24	.92	8.87	1.15	1.44	1.10	.28	.72

CAL YR 1986 TOTAL 1941680 MEAN 5320 MAX 34000 MIN 610 CFSM 1.98 IN. 26.95
WTR YR 1987 TOTAL 1422203 MEAN 3896 MAX 77300 MIN 222 CFSM 1.45 IN. 19.74

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. 19 to Apr. 1. Records good except those for periods of ice effect, Nov. 19 to Apr. 1, 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.--56 years (water years 1932 to current year), 1,940 ft³/s, 21.44 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, 21,200 ft³/s, Apr. 2, gage height, 10.66 ft; minimum daily discharge, 222 ft³/s, Sept. 8, 9, gage height, 1.91 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4500	1380	e1630	e1050	e450	e340	e13000	2130	1390	1670	578	274
2	3970	1340	e1700	e1000	e445	e340	20400	2080	1130	1550	547	271
3	3550	1340	e1610	e970	e435	e340	17100	1950	965	1320	562	261
4	3260	1300	e1510	e940	e430	e340	13200	1830	891	1360	615	247
5	3020	1210	e1700	e900	e425	e340	10500	1720	882	2890	705	237
6	2790	1100	e1950	e880	e410	e335	9900	1640	902	2420	761	228
7	2620	1100	e2040	e870	e400	e335	10500	1660	839	1820	654	226
8	2360	1060	e1980	e860	e400	e330	10900	1660	749	1500	636	223
9	2170	1140	e1800	e860	e400	e330	10000	1550	802	1300	694	261
10	2030	1490	e1710	e855	e400	e330	8910	1460	1310	1160	633	426
11	1840	1400	e1680	e835	e395	e325	8850	1340	1510	1110	563	481
12	1670	1310	e1590	e815	e390	e325	9060	1300	1370	1200	514	417
13	1520	1210	e1510	e780	e385	e320	8800	1250	1550	1590	480	402
14	1420	792	e1470	e750	e380	e320	8180	1190	1420	1420	460	616
15	1710	1020	e1410	e730	e375	e320	7580	1170	1300	1250	437	1050
16	2030	1100	e1370	e710	e370	e320	7220	1200	1240	1040	442	788
17	1800	1090	e1300	e680	e370	e320	7060	1160	1100	899	456	683
18	1610	1040	e1280	e650	e370	e320	7040	1070	984	810	445	653
19	1490	e675	e1230	e640	e365	e320	6820	1000	905	741	416	617
20	1390	e560	e1210	e615	e360	e320	6170	957	842	685	415	572
21	1320	e465	e1190	e595	e355	e315	5350	920	786	682	394	576
22	1300	e530	e1180	e580	e350	e345	4550	895	733	703	376	1120
23	1260	e700	e1180	e575	e350	e400	3800	925	689	712	399	1340
24	1220	e1100	e1190	e555	e350	e760	3370	942	677	963	394	1250
25	1160	e1200	e1210	e540	e350	e1070	3030	920	685	1120	361	1110
26	1120	e1250	e1240	e530	e350	e1180	2700	886	641	970	338	955
27	1080	e1300	e1230	e520	e350	e1430	2420	851	796	873	317	828
28	1110	e1420	e1200	e505	e350	e1700	2200	854	1820	788	299	726
29	1130	e1520	e1180	e490	---	e2300	2040	830	2250	703	286	654
30	1280	e1600	e1150	e475	---	e3310	2000	820	1830	648	281	607
31	1540	---	e1090	e465	---	e5000	---	1180	---	620	273	---
TOTAL	60270	33742	44720	22220	10760	24380	232650	39340	32988	36517	14731	18099
MEAN	1944	1125	1443	717	384	786	7755	1269	1100	1178	475	603
MAX	4500	1600	2040	1050	450	5000	20400	2130	2250	2890	761	1340
MIN	1080	465	1090	465	350	315	2000	820	641	620	273	223
CFSM	1.58	.92	1.17	.58	.31	.64	6.31	1.03	.89	.96	.39	.49
IN.	1.82	1.02	1.35	.67	.33	.74	7.04	1.19	1.00	1.11	.45	.55

CAL YR 1986 TOTAL 792152 MEAN 2170 MAX 9540 MIN 330 CFSM 1.77 IN. 23.98
WTR YR 1987 TOTAL 570417 MEAN 1563 MAX 20400 MIN 223 CFSM 1.27 IN. 17.27

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: Dec. 1, 2, 9, 10, 13, 14, 16-18, and Dec. 21 to Mar. 31. Records good except for periods of ice effect, Dec. 1, 2, 9, 10, 13, 14, 16-18, and Dec. 21 to Mar. 31, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--63 years (water years 1904-08, 1930-current year), 1,415 ft³/s, (22.01 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, 8,390 ft³/s, Apr. 8, gage height, 8.67 ft; minimum discharge, 201 ft³/s, Sep. 8, 9, gage height 2.43 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1790	1070	e895	e715	e380	e230	4330	2630	822	953	559	271
2	1840	1060	e885	e700	e375	e230	6640	2470	733	928	547	256
3	1880	1040	966	e695	e370	e235	7010	2310	704	918	553	243
4	1910	1030	1120	e690	e365	e235	7200	2170	708	945	561	228
5	1880	994	1130	e685	e360	e235	7360	2040	719	995	525	221
6	1880	972	1150	e680	e355	e235	7510	1930	812	983	505	215
7	1900	949	1160	e670	e350	e230	8080	1870	790	950	489	208
8	1890	935	1150	e660	e345	e230	8340	1810	827	926	498	203
9	1850	1000	e1140	e655	e335	e230	8160	1710	845	896	543	230
10	1800	1020	e1200	e650	e320	e230	7860	1600	920	866	526	297
11	1750	1010	1190	e640	e315	e225	7650	1520	892	839	506	289
12	1690	996	1160	e630	e300	e220	7470	1450	922	805	490	286
13	1630	977	e1120	e625	e295	e220	7290	1370	936	786	477	297
14	1580	945	e1100	e625	e290	e220	7070	1310	925	800	461	477
15	1630	948	1080	e610	e280	e220	6860	1230	951	753	445	498
16	1570	934	e1030	e600	e275	e225	6650	1170	917	692	455	490
17	1510	924	e1010	e580	e265	e240	6480	1110	891	653	453	506
18	1450	904	e1000	e565	e260	e290	6360	1050	864	599	437	515
19	1410	866	975	e555	e255	e295	6220	991	845	548	420	518
20	1350	839	948	e540	e250	e310	5890	950	801	529	428	511
21	1320	833	e910	e520	e245	e340	5440	907	763	516	402	529
22	1270	881	e855	e500	e245	e370	5020	869	723	492	405	611
23	1240	919	e840	e485	e240	e375	4690	838	697	489	431	646
24	1190	928	e800	e475	e240	e385	4340	812	661	641	384	653
25	1140	899	e795	e460	e230	e420	4020	781	626	700	357	651
26	1090	895	e815	e450	e230	e480	3710	747	606	671	330	648
27	1070	951	e840	e440	e230	e525	3430	721	658	666	314	622
28	1100	964	e850	e425	e225	e605	3170	682	1040	668	303	612
29	1060	964	e825	e410	---	e725	2940	638	1000	631	290	601
30	1080	937	e760	e405	---	e840	2780	627	979	622	282	596
31	1070	---	e735	e390	---	e1820	---	818	---	591	275	---
TOTAL	46820	28584	30434	17730	8225	11670	179970	41131	24577	23051	13651	12928
MEAN	1510	953	982	572	294	376	5999	1327	819	744	440	431
MAX	1910	1070	1200	715	380	1820	8340	2630	1040	995	561	653
MIN	1060	833	735	390	225	220	2780	627	606	489	275	203
CFSM	1.73	1.09	1.12	.66	.34	.43	6.87	1.52	.94	.85	.50	.49
IN.	2.00	1.22	1.30	.76	.35	.50	7.67	1.75	1.05	.98	.58	.55

CAL YR 1986 TOTAL 574215 MEAN 1573 MAX 6010 MIN 250 CFSM 1.80 IN. 24.47
WTR YR 1987 TOTAL 438771 MEAN 1202 MAX 8340 MIN 203 CFSM 1.38 IN. 18.70

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. 24 to Mar. 31, June 13-30, and Aug. 8 to Sept. 2. Records good except for period of ice effect Nov. 24 to Mar. 31, and period of doubtful gage-height record June 13-30, and period of no gage-height record, Aug. 8 to Sept. 2, 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.--61 years, 9,731 ft³/s (23.33 in/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 2	1530	*114,000	*23.65	No other peak greater than base discharge.			

Minimum discharge, 1,280 ft³/s, Sept. 8, 9, gage height, 1.15 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15900	8510	e7100	e4900	e1780	e1120	62400	10200	7050	12900	3200	e1350
2	19000	8340	e7000	e4700	e1740	e1120	109000	10200	7810	11200	2930	e1200
3	16600	7910	e6800	e4500	e1680	e1120	102000	10200	6510	8930	2840	1200
4	14200	7870	e7000	e4350	e1640	e1120	79200	9580	5460	7510	2890	1140
5	12700	7480	e8000	e4250	e1600	e1120	60300	8930	4860	8730	2840	1090
6	12000	6620	e10800	e4100	e1550	e1120	51500	8420	4610	11000	2960	1050
7	11500	6220	e11200	e3950	e1520	e1110	55800	8230	4360	9980	3010	997
8	11100	5970	e10400	e3800	e1480	e1110	62600	8210	4150	7940	e2850	976
9	10900	6160	e9400	e3700	e1450	e1100	58200	8230	4050	6520	e3100	1070
10	10800	7270	e8700	e3550	e1410	e1100	49100	7740	4640	5580	e2950	1400
11	10400	9360	e8300	e3450	e1380	e1100	45000	7100	6620	4890	e2800	1620
12	9680	9270	e8000	e3300	e1360	e1100	45100	6700	10100	4520	e2600	1840
13	8910	8320	e7700	e3200	e1330	e1100	44700	6480	e9700	4720	e2350	2050
14	8310	6750	e7200	e3100	e1310	e1100	41500	6770	e8950	4880	e2200	2860
15	8310	5530	e6900	e3000	e1290	e1100	37500	6930	e8400	4720	e2200	5100
16	8670	5460	e6700	e2900	e1270	e1110	34400	6410	e7500	4410	e2000	7540
17	8970	5940	e6500	e2800	e1260	e1110	32700	5960	e6500	4210	e1950	6390
18	8660	5970	e6300	e2700	e1240	e1110	32400	5660	e5750	3810	e1900	5240
19	7940	5040	e6100	e2600	e1220	e1100	32700	5280	e5100	3300	e1850	4960
20	7350	4140	e5900	e2500	e1200	e1100	30400	4850	e4600	2940	e1800	4580
21	6910	3570	e5700	e2460	e1190	e1100	26700	4480	e4150	2750	e1800	4130
22	6680	3380	e5500	e2380	e1180	e1260	23300	4200	e3700	2640	e1800	4400
23	6510	3670	e5400	e2300	e1170	e1500	20200	4080	e3250	2660	e2000	6010
24	6400	e4600	e5200	e2230	e1160	e1800	17900	4010	e2950	3340	e2100	6990
25	6340	e5100	e5000	e2160	e1150	e2380	16300	3990	e2850	3990	e1880	6360
26	6480	e5700	e6200	e2120	e1140	e3780	15000	4450	e2750	4080	e1710	5620
27	6260	e6200	e6000	e2050	e1130	e6800	13400	5270	e2650	4270	e1610	4950
28	6180	e6700	e5700	e2000	e1130	e11200	12100	4880	e5500	4420	e1550	4420
29	6200	e7100	e5500	e1940	---	e15800	11000	4370	e9900	4210	e1500	4030
30	6970	e7200	e5300	e1890	---	e21600	10500	4010	e18000	3920	e1400	3730
31	7930	---	e5100	e1850	---	e36000	---	4570	---	3550	e1310	---
TOTAL	294760	191350	216600	94730	37960	125390	1232900	200390	182420	172520	69880	104293
MEAN	9508	6378	6987	3056	1356	4045	41100	6464	6081	5565	2254	3476
MAX	19000	9360	11200	4900	1780	36000	109000	10200	18000	12900	3200	7540
MIN	6180	3380	5000	1850	1130	1100	10500	3990	2650	2640	1310	976
CFSM	1.68	1.13	1.23	.54	.24	.71	7.25	1.14	1.07	.98	.40	.61
IN.	1.94	1.26	1.42	.62	.25	.82	8.10	1.32	1.20	1.13	.46	.68

CAL YR 1986 TOTAL 3894870 MEAN 10670 MAX 61500 MIN 1300 CFSM 1.88 IN. 25.58
WTR YR 1987 TOTAL 2923193 MEAN 8009 MAX 109000 MIN 976 CFSM 1.41 IN. 19.20

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 1986 TO SEPTEMBER 1987

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 (FTU)	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)
DEC 17...	1330	9380	93	7.6	0.5	0.0	1.0	760	14.0	96	K 100	86
MAR 03...	1200	1620	128	7.2	5.0	0.0	0.6	750	12.0	83	180	44
APR 21...	1600	38500	60	7.6	28.0	10.0	1.0	740	10.0	91	48	25
JUN 30...	1330	26000	56	7.2	26.0	20.0	3.0	750	8.4	94	K 320	1300
AUG 26...	1400	2470	118	7.3	18.5	15.0	1.3	760	8.9	88	62	K 6

DATE	HARD- NESS TOTAL (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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 17...	43	14	1.9	2.5	0.6	41	0	34	34	16	2.7
MAR 03...	59	19	2.8	4.4	0.7	52	0	43	44	15	4.8
APR 21...	31	10	1.4	1.7	0.3	32	0	26	27	13	1.2
JUN 30...	33	11	1.4	1.5	0.5	26	0	21	21	20	1.3
AUG 26...	56	18	2.6	3.4	0.8	56	0	46	44	17	2.9

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	FLUORIDE, 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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DIS-SOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
DEC 17...	<0.1	4.7	52	64	0.23	<0.01	--	0.3	0.01	0.01	<0.01
MAR 03...	<0.1	4.9	82	80	0.28	0.02	0.03	0.8	0.02	0.01	<0.01
APR 21...	<0.1	3.6	52	48	0.12	0.03	0.04	0.8	0.01	0.01	<0.01
JUN 30...	<0.1	2.9	55	51	<0.10	0.06	0.08	1.6	0.19	0.03	<0.01
AUG 26...	0.1	2.9	72	74	<0.10	0.05	0.06	<0.2	0.01	<0.01	<0.01

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, 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)	MANGANESE, DIS-SOLVED (UG/L AS MN)
DEC 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	30	<1	12	<0.5	1	<1	<3	2	100	<5	6	46
APR 21...	60	1	8	<0.5	1	<1	<3	3	62	<5	17	14
JUN 30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	30	<1	10	<0.5	<1	<1	<3	<1	71	<5	<4	18

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 17...	--	--	--	--	--	--	--	--	16	405	35
MAR 03...	<0.1	<10	4	<1	<1.0	110	<6	25	2	8.7	87
APR 21...	<0.1	20	<1	16	<1.0	67	<6	14	67	6960	33
JUN 30...	--	--	--	--	--	--	--	--	29	2040	81
AUG 26...	<0.1	<10	<1	<1	<1.0	120	<6	5	8	53	82

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. 12 to Apr. 1, and May 1-5. Records good except for periods of ice effect, Nov. 12 to Apr. 1; and period of doubtful gage height record, May 1-5; 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.--30 years, 1,489 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, 19,100 ft³/s, Apr. 3; gage height, 16.28 ft; minimum discharge 63 ft³/s, Aug. 31, Sept. 1, 6-9, gage height, 2.50 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1830	665	e1000	e570	e395	e255	e10700	e1450	529	471	181	67
2	2020	643	e970	e565	e375	e250	17300	e1700	512	434	176	69
3	1780	620	e950	e560	e370	e245	18600	e1650	450	368	162	69
4	1570	590	e1180	e555	e360	e240	16400	e1600	406	328	152	68
5	1480	557	e1660	e550	e350	e235	12700	e1480	397	314	147	66
6	1370	443	e1890	e550	e340	e230	9820	1430	410	309	142	64
7	1280	544	e1820	e545	e330	e225	9450	1670	422	290	135	63
8	1180	498	e1690	e540	e325	e225	10200	2040	411	267	132	63
9	1090	526	e1510	e540	e315	e225	9600	1870	390	247	132	85
10	1040	662	e1390	e535	e310	e220	7930	1580	618	236	129	166
11	967	713	e1260	e535	e305	e215	6800	1320	1020	262	127	226
12	892	e650	e1160	e535	e300	e215	6330	1180	1030	318	121	196
13	837	e600	e1080	e535	e295	e215	5970	1110	1010	416	117	167
14	796	e480	e1010	e525	e290	e210	5420	988	1050	413	112	208
15	788	e290	e970	e520	e290	e210	4780	901	976	365	105	514
16	799	e440	e920	e520	e290	e220	4260	1030	876	336	106	563
17	757	e520	e880	e510	e290	e225	3920	1070	710	298	107	501
18	714	e580	e850	e505	e285	e245	3730	950	578	267	105	512
19	678	e425	e820	e500	e285	e255	3600	817	493	241	98	474
20	646	e310	e780	e495	e280	e265	3380	714	435	229	93	396
21	616	e260	e750	e490	e280	e275	3070	637	388	223	89	442
22	598	e200	e730	e480	e275	e290	2720	596	346	219	87	1350
23	595	e250	e700	e470	e275	e340	2350	601	316	216	89	1800
24	620	e340	e670	e460	e275	e420	2070	653	293	218	85	1480
25	617	e400	e650	e445	e275	e600	1900	678	279	229	79	1100
26	593	e480	e630	e435	e270	e800	1670	648	264	225	77	819
27	566	e600	e620	e430	e265	e1020	1460	578	247	221	75	633
28	553	e720	e610	e420	e260	e1400	1280	517	268	223	70	517
29	550	e1050	e600	e415	---	e2100	1200	476	429	218	68	437
30	591	e1080	e590	e415	---	e5010	1240	458	470	203	66	388
31	667	---	e580	e410	---	e6720	---	492	---	193	65	---
TOTAL	29080	16136	30920	15560	8555	23600	189850	32884	16023	8797	3429	13503
MEAN	938	538	997	502	306	761	6328	1061	534	284	111	450
MAX	2020	1080	1890	570	395	6720	18600	2040	1050	471	181	1800
MIN	550	200	580	410	260	210	1200	458	247	193	65	63

CAL YR 1986 TOTAL 511354 MEAN 1401 MAX 8170 MIN 200
WTR YR 1987 TOTAL 388337 MEAN 1064 MAX 18600 MIN 63

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. 13 to Apr. 1, Aug. 5 to Sept. 10, and Sept. 23-30. Records good except for period of ice effect, Nov. 13 to Apr. 1, and periods of no gage-height record, Aug. 5 to Sept. 10, and Sept. 23-30. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft³, and by Millinocket Lake, capacity 1,110,000,000 ft³ used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--57 years, 2,656 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, 34,000 ft³/s, Apr. 3, gage-height, 12.14 ft; maximum gage height, 12.38 ft, Apr. 1 (backwater from ice); minimum daily discharge, 125 ft³/s, Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4060	1380	e1900	e1100	e720	e480	e19200	2620	1050	1100	371	e130
2	4580	1310	e1800	e960	e690	e480	30200	3010	1000	974	347	e135
3	4040	1260	e1750	e1050	e690	e480	33500	2970	861	883	329	e140
4	3480	1200	e2000	e1050	e665	e470	30100	2840	741	789	336	e135
5	3130	1100	e3150	e1050	e640	e415	23300	2630	717	967	e305	e130
6	2880	999	e3500	e1050	e625	e400	18000	2370	858	1010	e290	e130
7	2700	925	e3380	e1050	e660	e420	16800	2580	982	907	e280	e130
8	2530	1040	e3100	e1060	e680	e400	17700	3110	908	779	e270	e130
9	2320	1060	e2850	e1040	e680	e370	17200	2990	795	692	e270	e165
10	2210	1260	e2500	e1020	e620	e370	14700	2580	1060	651	e270	e350
11	2070	1410	e2200	e940	e605	e360	12500	2190	1750	745	e260	437
12	1900	1340	e2000	e940	e580	e475	11500	1970	1960	902	e250	472
13	1760	e1150	e2000	e1060	e550	e400	10900	1820	1920	841	e245	402
14	1740	e780	e1850	e1050	e575	e440	10000	1690	1920	855	e235	573
15	1810	e535	e1850	e1040	e610	e365	8870	1550	1870	797	e225	1130
16	1830	e850	e1900	e1010	e640	e320	7870	1650	1730	706	e220	1350
17	1890	e1000	e1800	e975	e655	e330	7210	1740	1440	632	e220	1170
18	1690	e1070	e1700	e950	e610	e330	6830	1590	1140	555	e215	1070
19	1430	e1140	e1560	e930	e580	e335	6570	1390	973	488	e210	1000
20	1430	e570	e1460	e920	e570	e340	6210	1220	830	444	e200	878
21	1540	e485	e1400	e940	e560	e350	5600	1090	733	419	e190	860
22	1410	e370	e1360	e960	e545	e380	4880	999	655	401	e180	1700
23	1200	e440	e1320	e900	e530	e500	4220	1010	587	401	e180	e2180
24	1190	e640	e1250	e960	e520	e780	3660	1050	543	597	e180	e2540
25	1190	e800	e1200	e860	e515	e1100	3350	1080	507	701	e170	e2170
26	1150	e960	e1150	e855	e430	e1550	3000	1050	482	630	e160	e1750
27	1100	e1130	e1160	e800	e470	e2150	2650	969	456	539	e155	e1400
28	1070	e1440	e1100	e750	e490	e3000	2340	855	612	487	e150	e1150
29	1050	e1900	e1070	e800	---	e4400	2150	778	1040	455	e140	e1000
30	1170	e2050	e1180	e790	---	e6000	2210	734	1160	417	e135	e930
31	1340	---	e1160	e755	---	e9450	---	893	---	392	e125	---
TOTAL	62890	31594	57600	29615	16705	37640	343220	55018	31280	21156	7113	25737
MEAN	2029	1053	1858	955	597	1214	11440	1775	1043	682	229	858
MAX	4580	2050	3500	1100	720	9450	33500	3110	1960	1100	371	2540
MIN	1050	370	1070	750	430	320	2150	734	456	392	125	130

CAL YR 1986 TOTAL 1006396 MEAN 2757 MAX 17600 MIN 370
WTR YR 1987 TOTAL 719568 MEAN 1971 MAX 33500 MIN 125

e Estimated

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.--No estimated daily discharges. 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.--59 years, 720 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, 1,340 ft³/s, Oct. 1, gage height, 6.37 ft; minimum daily, 213 ft³/s, Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	255	565	717	593	363	247	220	454	238	618	238
2	1280	255	565	711	588	363	242	220	308	273	613	238
3	1260	255	394	710	582	363	230	220	269	609	519	458
4	1260	255	246	711	578	363	238	220	267	609	285	715
5	1250	255	246	707	576	363	243	220	318	544	247	711
6	1230	255	247	704	573	364	249	221	552	277	245	633
7	1220	255	248	699	527	361	231	222	458	241	304	536
8	1200	255	252	698	566	360	226	222	256	241	604	280
9	1180	255	253	697	561	360	230	222	253	240	521	241
10	1170	255	253	690	564	356	235	222	243	269	286	241
11	1150	304	342	690	556	355	236	219	231	610	255	304
12	1130	326	407	695	477	355	237	216	294	527	254	569
13	1120	330	407	688	477	355	227	232	600	299	253	496
14	774	329	407	684	363	350	213	229	491	255	311	271
15	403	329	485	883	296	349	216	224	258	255	604	236
16	288	329	529	965	352	349	218	511	242	255	511	236
17	258	329	653	956	378	349	218	530	234	255	331	236
18	258	329	750	935	378	349	218	281	234	255	705	236
19	258	324	746	940	378	349	218	248	283	254	711	236
20	258	332	743	933	377	349	222	246	580	253	293	236
21	258	323	743	850	375	349	222	246	507	265	324	236
22	258	326	738	907	375	351	222	246	282	273	581	236
23	258	326	737	907	369	285	222	521	236	273	499	236
24	258	413	733	900	366	252	234	611	236	316	281	236
25	255	542	731	745	366	241	247	609	236	605	241	236
26	255	539	732	402	366	241	248	353	236	584	241	236
27	251	553	730	417	366	235	248	267	538	311	239	236
28	250	555	728	318	365	225	248	267	537	260	236	236
29	254	557	724	452	---	226	248	267	285	260	496	236
30	257	562	721	553	---	230	234	503	238	260	549	236
31	258	---	717	590	---	239	---	580	---	314	278	---
TOTAL	21059	10507	16772	22454	12688	9999	6967	9615	10156	10480	12435	9707
MEAN	679	350	541	724	453	323	232	310	339	338	401	324
MAX	1300	562	750	965	593	364	249	611	600	610	711	715
MIN	250	255	246	318	296	225	213	216	231	238	236	236

CAL YR 1986 TOTAL 210437 MEAN 577 MAX 1390 MIN 211
WTR YR 1987 TOTAL 152839 MEAN 419 MAX 1300 MIN 213

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. 13-16, and Jan. 13-16. Records excellent except for period of ice effect, Dec. 13-16, and period of no gage-height record Jan. 13-16, which are good. 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.--59 years, 394 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, 862 ft³/s, Oct. 1, gage height, 3.63 ft; minimum daily discharge, 103 ft³/s, May 14, 17-20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	855	190	261	280	463	347	129	107	175	186	248	187
2	845	191	221	284	456	354	133	105	175	186	247	187
3	837	191	261	284	451	354	132	105	175	184	247	186
4	831	191	199	284	446	351	134	105	175	184	216	186
5	828	190	198	284	443	348	137	105	175	185	195	184
6	817	189	198	281	437	344	140	106	178	183	195	183
7	807	189	197	284	432	341	142	107	175	183	195	183
8	789	189	196	290	429	338	139	106	176	183	195	183
9	783	189	195	289	428	336	141	106	178	183	195	186
10	774	190	195	285	432	332	142	105	181	184	195	186
11	760	188	195	287	426	328	143	105	181	183	195	185
12	750	187	195	289	420	326	144	105	180	183	195	183
13	740	188	e195	e290	415	323	134	104	181	183	195	183
14	582	186	e195	e430	410	320	121	103	181	183	195	186
15	365	183	e195	e525	405	319	121	104	181	185	195	186
16	231	183	e210	e520	400	317	121	104	181	184	195	186
17	201	183	227	513	397	376	121	103	180	183	194	186
18	201	183	225	510	392	461	121	103	178	184	195	184
19	201	183	225	510	388	455	121	103	178	183	194	183
20	198	181	225	505	383	447	121	103	179	185	195	185
21	198	183	225	499	380	454	121	128	178	186	194	193
22	198	185	225	494	375	380	119	142	178	186	192	329
23	198	183	244	497	372	229	118	144	178	186	192	393
24	197	206	264	493	368	150	118	144	178	185	192	392
25	195	220	264	488	364	140	118	144	178	186	190	389
26	194	221	264	484	357	140	116	144	178	186	189	388
27	193	227	264	479	353	144	116	163	179	186	189	386
28	192	225	263	474	350	144	110	173	185	186	189	384
29	192	226	262	469	---	145	106	172	184	193	189	382
30	193	228	265	462	---	149	107	173	185	235	189	382
31	192	---	267	463	---	131	---	176	---	248	188	---
TOTAL	14537	5848	7015	12526	11372	9323	3786	3797	5364	5840	6169	7316
MEAN	469	195	226	404	406	301	126	122	179	188	199	244
MAX	855	228	267	525	463	461	144	176	185	248	248	393
MIN	192	181	195	280	350	131	106	103	175	183	188	183

CAL YR 1986 TOTAL 117164 MEAN 321 MAX 1160 MIN 114
WTR YR 1987 TOTAL 92893 MEAN 255 MAX 855 MIN 103

e Estimated

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: Jun. 27 to Aug. 11, Aug. 14-27, and Sept. 1-30. Records excellent except for periods of once-a-day telemark readings, Jun. 27 to Aug. 11, Aug. 14-27, and Sept. 1-30, which are 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.--28 years (water years 1960-current year), 2,682 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, 12,200 ft³/s, Apr. 3, gage height, 10.40 ft; minimum daily, 775 ft³/s, Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2730	868	1810	1140	1410	940	6190	1720	935	e1070	e1160	e875
2	2850	915	2230	1240	1700	1120	9920	1130	970	e1080	e1170	e860
3	2380	1010	3780	1090	2380	1080	11600	1150	971	e1250	e920	e990
4	2550	1030	5050	1060	2230	1040	11900	1420	1030	e1100	e915	e1360
5	2180	968	4900	1180	1920	970	11200	1040	1180	e1010	e875	e1240
6	2490	973	4220	1080	1240	963	9630	1230	1120	e990	e855	e1100
7	2730	901	3350	1080	1240	1120	9480	1160	923	e1110	e875	e990
8	2710	898	3010	1030	1030	1230	9900	1050	1150	e1150	e875	e915
9	2700	899	3140	1340	1430	987	8790	1060	1140	e1150	e860	e1080
10	2670	901	2940	1960	2520	1070	7420	1080	1530	e1170	e840	e1130
11	2740	944	2710	1860	2320	1110	6810	1040	1500	e1220	e875	e850
12	2260	978	2330	1990	1050	1010	6060	997	1820	e1070	851	e975
13	2680	949	2390	1980	1050	967	5150	1060	1690	e875	924	e990
14	2040	951	2100	2210	1060	968	3840	948	1880	e850	e875	e975
15	2520	1130	2370	2330	1030	970	3800	1080	1870	e900	e875	e875
16	2060	990	2370	2390	1120	969	3360	1000	1370	e990	e915	e820
17	1900	983	2310	2340	1140	1070	3320	1070	1020	e875	e1070	e840
18	1480	981	2360	2160	1100	1000	3300	934	1030	e840	e1770	e810
19	1070	1150	2380	2260	1090	964	3010	1010	1020	e835	e1360	e775
20	1230	890	2350	2300	1150	968	3040	915	1040	e825	e840	e965
21	1520	954	2440	2550	1120	1150	2950	1030	1140	e965	e840	e1490
22	1190	1080	2290	2250	1050	1490	2800	1020	1030	e1330	e840	e2440
23	1110	1130	2140	1670	1060	2220	2710	1110	1060	e990	e840	e3060
24	1080	1770	1970	1460	962	2580	2780	996	1130	e875	e840	e1980
25	1070	1770	1910	1180	998	2380	2610	1050	1060	e875	e840	e1870
26	940	1200	2560	1300	965	2530	2370	962	960	e915	e855	e1720
27	1140	1520	2170	1460	1010	3200	2540	1110	e920	e975	e855	e1540
28	1110	1710	2250	1420	969	3030	2610	976	e1240	e930	855	e1650
29	1090	1830	2270	2090	---	3160	2650	935	e1480	e890	866	e1650
30	1010	1820	1640	2420	---	3290	2520	998	e1230	e875	877	e1670
31	972	---	1030	2850	---	3620	---	1080	---	e950	852	---
TOTAL	58202	34093	80770	54670	37344	49166	164260	33361	36439	30930	29060	38485
MEAN	1877	1136	2605	1764	1334	1586	5475	1076	1215	998	937	1283
MAX	2850	1830	5050	2850	2520	3620	11900	1720	1880	1330	1770	3060
MIN	940	868	1030	1030	962	940	2370	915	920	825	840	775

CAL YR 1986 TOTAL 776653 MEAN 2128 MAX 8010 MIN 868

WTR YR 1987 TOTAL 646780 MEAN 1772 MAX 11900 MIN 775

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, 193 microsiemens, Nov. 21; minimum, 41 microsiemens, Sept. 11.

pH: Maximum, 7.4 units, Sept. 23; minimum, 6.6 units Mar. 28-31, Apr. 1.

WATER TEMPERATURES: Maximum, 25.5°C, Aug. 17, 20; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 12.8 mg/L, Dec. 6; minimum 6.2 mg/L, Aug. 21.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 (FTU)	BARO- METRIC PRES- (MM HG)	OXYGEN, 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)
FEB												
12...	1700	1040	100	7.7	-7.0	0.0	2.9	750	13.4	93	--	--
APR												
13...	1300	5640	44	6.8	10.5	5.5	1.0	770	12.6	99	K 63	K 23
AUG												
18...	1400	E 1770	95	6.7	32.0	24.0	1.7	760	6.5	77	90	290

DATE	HARD- NESS TOTAL (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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
FEB											
12...	17	5.5	0.90	13	1.0	19	0	15	15	12	12
APR											
13...	10	3.0	0.60	4.6	0.6	7	0	5	7	13	4.8
AUG											
18...	17	5.3	0.87	12	1.5	18	0	15	16	21	11

E Estimated discharge.

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

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	FLUORIDE, 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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DIS-SOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
FEB 12...	<0.1	3.0	74	57	<0.10	0.09	0.12	0.7	0.02	0.01	<0.01
APR 13...	<0.1	3.2	28	34	<0.10	0.03	0.04	0.8	0.02	0.01	<0.01
AUG 18...	0.1	1.9	66	64	0.10	0.10	0.13	<0.2	0.03	0.01	0.03

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, 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)	MANGANESE, DIS-SOLVED (UG/L AS MN)
FEB 12...	90	<1	14	<0.5	<1	<1	<3	4	130	<5	5	69
APR 13...	90	<1	9	<0.5	<1	<1	<3	3	90	<5	<4	28
AUG 18...	60	<1	13	<0.5	<1	<1	<3	1	130	<5	<4	57

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SEDIMENT, SUSPENDED % FINER THAN .062 MM
FEB 12...	<0.1	<10	1	<1	<1.0	28	<6	<3	5	14	87
APR 13...	<0.1	<10	1	<1	<1.0	15	<6	7	16	244	30
AUG 18...	<0.1	<10	<1	<1	<1.0	25	<6	7	13	62	67

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	148	138	141	101	90	95	152	119	133
2	---	---	---	150	146	148	102	86	92	149	126	132
3	---	---	---	148	139	143	84	73	79	128	118	122
4	---	---	---	139	122	131	71	60	63	138	128	136
5	---	---	---	137	122	131	63	59	62	139	127	134
6	---	---	---	140	137	138	64	58	60	145	126	132
7	78	74	76	148	139	143	68	65	66	144	125	133
8	81	71	75	149	147	148	74	66	69	137	126	131
9	80	71	75	149	140	144	80	74	77	145	132	140
10	83	73	77	143	136	141	77	73	76	143	99	113
11	80	72	76	143	140	141	79	74	76	100	96	98
12	84	73	78	143	136	139	86	71	78	109	98	104
13	86	77	83	138	133	135	85	80	82	100	96	98
14	98	74	80	142	133	139	94	84	89	105	87	97
15	101	82	88	148	139	142	96	85	91	90	85	88
16	82	73	78	144	122	129	91	82	84	93	87	89
17	94	83	89	143	135	140	91	81	86	96	86	90
18	98	91	94	142	138	141	93	81	87	104	90	96
19	122	98	113	149	139	141	88	78	82	99	90	94
20	141	122	132	149	115	127	89	79	83	103	86	91
21	130	117	122	193	133	146	89	79	83	89	82	86
22	114	101	106	150	138	142	90	80	84	90	81	84
23	129	115	125	138	127	132	88	82	86	105	81	95
24	136	130	134	128	98	113	94	88	91	104	99	102
25	136	128	131	104	91	96	114	94	101	121	103	113
26	139	130	133	102	89	93	99	84	93	148	121	132
27	154	140	147	111	102	106	96	81	88	145	122	130
28	153	121	132	101	92	96	91	88	89	---	---	---
29	139	129	136	90	81	85	90	87	88	---	---	---
30	141	132	135	90	85	87	89	87	88	---	---	---
31	142	140	141	---	---	---	117	88	106	---	---	---
MONTH	154	71	106	193	81	129	117	58	83	152	81	111

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	73	56	68	83	74	79
2	---	---	---	---	---	---	---	---	---	122	85	108
3	---	---	---	---	---	---	---	---	---	141	121	127
4	---	---	---	---	---	---	---	---	---	149	97	115
5	---	---	---	---	---	---	---	---	---	135	102	118
6	---	---	---	---	---	---	---	---	---	135	111	120
7	---	---	---	---	---	---	---	---	---	123	102	109
8	---	---	---	---	---	---	---	---	---	130	114	122
9	---	---	---	---	---	---	---	---	---	127	109	118
10	---	---	---	---	---	---	---	---	---	128	113	122
11	---	---	---	---	---	---	---	---	---	126	110	118
12	---	---	---	145	133	138	---	---	---	126	112	120
13	---	---	---	144	140	142	---	---	---	129	115	124
14	---	---	---	144	142	143	56	51	53	127	114	123
15	---	---	---	146	141	143	58	52	56	131	121	126
16	---	---	---	146	142	145	62	59	61	129	116	122
17	---	---	---	148	142	145	63	61	62	136	125	132
18	---	---	---	147	128	138	65	63	64	132	117	124
19	---	---	---	148	134	143	70	65	68	139	125	132
20	---	---	---	147	143	145	72	68	70	135	124	129
21	---	---	---	150	144	147	71	69	70	142	126	135
22	---	---	---	160	141	147	75	70	72	133	110	121
23	---	---	---	145	101	114	74	72	73	131	114	123
24	---	---	---	99	92	94	76	72	74	133	112	121
25	---	---	---	97	90	93	76	73	74	136	114	127
26	---	---	---	100	93	96	79	74	77	132	114	121
27	---	---	---	95	82	85	82	78	80	127	119	125
28	---	---	---	82	80	81	79	76	78	121	109	114
29	---	---	---	80	78	79	82	76	78	133	116	128
30	---	---	---	80	77	79	82	80	81	137	130	134
31	---	---	---	79	72	75	---	---	---	140	127	133
MONTH	---	---	---	160	72	119	82	51	70	149	74	122

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	138	121	127	117	109	114	149	133	145	135	100	124
2	140	131	135	118	111	115	140	131	136	97	82	86
3	130	123	126	116	110	112	145	139	142	85	82	83
4	130	122	127	113	111	112	142	137	140	84	76	82
5	131	121	126	120	112	116	147	139	143	75	69	70
6	124	119	121	120	116	118	147	141	143	71	65	68
7	125	118	120	129	119	124	144	141	143	64	55	59
8	133	124	130	123	101	111	146	141	143	55	49	52
9	124	110	114	114	106	112	143	140	142	48	44	46
10	122	99	115	117	113	115	150	142	146	47	42	45
11	112	89	96	131	113	122	147	142	145	47	41	42
12	108	81	92	137	125	131	147	142	144	64	48	57
13	99	81	88	132	115	120	148	140	145	94	65	75
14	95	86	88	144	134	140	147	137	142	125	96	113
15	88	84	86	140	135	139	145	131	138	130	125	128
16	87	83	85	143	134	140	141	133	138	131	128	130
17	112	86	102	134	119	127	140	133	137	129	125	127
18	122	113	118	131	119	126	132	93	110	128	124	126
19	122	117	120	132	127	129	105	94	99	132	125	130
20	127	118	124	135	128	131	116	93	97	134	128	131
21	128	110	121	134	125	130	153	119	142	128	109	121
22	118	107	113	141	125	134	154	150	152	107	80	87
23	119	112	116	128	104	112	159	153	156	85	77	80
24	117	106	112	140	122	131	163	159	161	79	76	77
25	117	108	112	147	138	142	165	162	163	79	77	78
26	123	117	120	149	143	146	166	158	161	80	79	80
27	134	120	128	147	141	145	157	151	153	91	79	85
28	131	113	121	143	138	141	153	148	150	89	87	88
29	115	107	111	148	138	143	151	147	149	89	85	87
30	111	95	102	153	144	148	148	140	145	87	83	84
31	---	---	---	151	147	149	143	137	141	---	---	---
MONTH	140	81	113	153	101	128	166	93	142	135	41	88

YEAR MAXIMUM 193 MINIMUM 41 MEAN 112

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	7.1	7.1	7.1	7.1	7.0	7.1	7.0	6.9	6.9
2	---	---	---	7.1	7.0	7.1	7.0	6.9	7.0	7.0	7.0	7.0
3	---	---	---	7.1	7.0	7.0	7.0	6.9	7.0	7.0	6.9	6.9
4	---	---	---	7.1	7.0	7.0	6.9	6.8	6.9	7.0	6.9	7.0
5	---	---	---	7.1	7.0	7.0	6.9	6.8	6.8	7.0	7.0	7.0
6	---	---	---	7.1	7.0	7.0	6.9	6.8	6.8	7.0	7.0	7.0
7	7.1	6.9	7.0	7.1	7.0	7.0	6.9	6.8	6.8	7.1	7.0	7.0
8	7.1	6.9	7.0	7.1	7.0	7.0	6.9	6.8	6.8	7.0	7.0	7.0
9	7.0	6.9	6.9	7.0	7.0	7.0	6.9	6.9	6.9	7.1	7.0	7.0
10	7.0	6.8	6.9	7.0	7.0	7.0	6.9	6.8	6.9	7.1	6.9	7.0
11	7.0	6.9	7.0	7.1	7.0	7.0	6.9	6.8	6.8	7.0	6.9	6.9
12	7.0	6.9	6.9	7.0	7.0	7.0	6.9	6.8	6.9	7.0	6.9	6.9
13	7.0	6.9	7.0	7.1	7.0	7.0	6.9	6.9	6.9	6.9	6.9	6.9
14	7.0	6.8	6.9	7.2	7.1	7.1	7.0	6.9	7.0	6.9	6.8	6.9
15	7.0	6.9	6.9	7.2	7.1	7.1	7.0	7.0	7.0	6.8	6.8	6.8
16	7.0	6.8	6.9	7.2	7.1	7.1	7.0	6.9	7.0	6.8	6.8	6.8
17	7.0	6.9	6.9	7.1	7.1	7.1	7.0	6.9	7.0	6.8	6.7	6.8
18	7.0	6.9	7.0	7.2	7.1	7.1	7.0	6.9	7.0	6.9	6.8	6.8
19	7.0	6.9	7.0	7.2	7.2	7.2	7.0	6.9	7.0	6.9	6.8	6.8
20	7.1	7.0	7.1	7.2	7.1	7.2	7.0	6.9	7.0	6.8	6.7	6.8
21	7.1	7.0	7.1	7.3	7.2	7.2	7.0	6.9	7.0	6.8	6.8	6.8
22	7.1	7.0	7.0	7.2	7.1	7.2	7.0	6.9	7.0	6.8	6.7	6.8
23	7.1	7.0	7.0	7.1	7.1	7.1	7.0	6.8	6.9	6.9	6.8	6.8
24	7.1	7.0	7.1	7.2	7.0	7.1	6.8	6.8	6.8	6.9	6.8	6.8
25	7.1	7.1	7.1	7.1	6.9	7.0	6.9	6.8	6.9	6.8	6.8	6.8
26	7.1	7.0	7.1	7.0	6.9	7.0	6.9	6.8	6.8	6.9	6.8	6.9
27	7.1	7.0	7.1	7.1	7.0	7.0	6.8	6.7	6.8	6.9	6.8	6.9
28	7.1	7.1	7.0	7.0	6.9	7.0	6.8	6.8	6.8	---	---	---
29	7.1	7.0	7.1	7.0	6.9	7.0	6.8	6.8	6.8	---	---	---
30	7.1	7.0	7.0	7.1	7.0	7.0	6.8	6.8	6.8	---	---	---
31	7.1	7.0	7.0	---	---	---	6.9	6.8	6.9	---	---	---
MONTH	7.1	6.8	7.0	7.3	6.9	7.1	7.1	6.7	6.9	7.1	6.7	6.9

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

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

YEAR MAXIMUM 7.4 MINIMUM 6.6 MEAN 6.9

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

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

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

YEAR MAXIMUM 25.5 MINIMUM .0 MEAN 13.0

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10.9	10.6	10.7	12.7	12.4	12.6	12.1	12.0	12.0
2	---	---	---	10.9	10.3	10.6	12.6	12.4	12.5	12.1	11.7	11.9
3	---	---	---	10.7	10.4	10.5	12.6	12.4	12.5	11.8	11.6	11.7
4	---	---	---	10.8	10.7	10.8	12.5	12.3	12.4	11.8	11.6	11.7
5	---	---	---	11.1	10.8	11.0	12.6	12.3	12.4	12.0	11.8	11.9
6	---	---	---	11.3	11.1	11.2	12.8	12.4	12.6	12.1	11.9	12.0
7	9.6	9.1	9.3	11.2	11.0	11.1	12.5	12.4	12.4	12.0	11.7	11.8
8	9.8	9.3	9.6	11.2	11.0	11.1	12.6	12.4	12.5	11.8	11.6	11.7
9	9.6	9.3	9.5	11.1	10.8	11.0	12.5	12.4	12.4	12.1	11.8	11.9
10	10.1	9.5	9.8	11.4	10.8	11.1	12.4	12.1	12.3	12.1	11.9	12.0
11	10.3	9.9	10.1	11.5	11.3	11.4	12.2	12.0	12.1	12.0	11.7	11.8
12	10.2	9.9	10.1	11.5	11.4	11.4	12.1	11.8	11.9	11.8	11.6	11.7
13	10.1	9.8	10.0	11.7	11.4	11.5	12.1	11.9	12.0	11.8	11.6	11.7
14	10.0	9.7	9.8	12.3	11.8	12.1	12.1	11.9	12.1	11.8	11.6	11.7
15	10.2	9.7	9.9	12.3	12.1	12.2	12.1	11.9	12.0	11.7	11.6	11.6
16	10.1	9.8	9.9	12.1	11.9	12.0	12.2	12.1	12.1	11.8	11.6	11.7
17	10.0	9.8	9.9	12.0	11.9	12.0	12.2	12.1	12.1	11.8	11.6	11.7
18	10.2	9.9	10.1	12.1	11.9	12.0	12.1	12.0	12.1	11.8	11.6	11.7
19	10.2	10.0	10.2	12.3	12.0	12.1	11.9	11.8	11.8	11.7	11.5	11.6
20	10.2	10.2	10.1	12.6	12.2	12.4	11.9	11.7	11.8	11.8	11.5	11.6
21	10.3	10.0	10.2	12.6	12.3	12.5	12.0	11.7	11.8	11.7	11.7	11.7
22	10.3	10.0	10.1	12.4	12.3	12.3	12.0	11.8	11.9	11.8	11.6	11.7
23	10.2	9.9	10.1	12.4	12.3	12.3	12.2	11.9	12.0	11.6	11.4	11.6
24	10.4	10.0	10.2	12.5	12.3	12.4	12.3	12.1	12.2	11.5	11.4	11.5
25	10.6	10.4	10.5	12.5	12.3	12.4	12.3	12.1	12.2	11.6	11.3	11.5
26	10.6	10.3	10.4	12.4	12.1	12.3	12.2	11.9	12.0	11.6	11.3	11.4
27	10.4	10.2	10.3	12.4	12.1	12.2	12.2	11.7	12.0	11.4	11.3	11.4
28	10.3	10.1	10.2	12.3	12.0	12.1	12.1	12.0	12.1	---	---	---
29	10.3	10.2	10.2	12.3	12.1	12.2	12.1	12.0	12.0	---	---	---
30	10.3	10.2	10.3	12.7	12.1	12.4	12.1	11.9	12.0	---	---	---
31	10.6	10.3	10.4	---	---	---	12.2	11.9	12.1	---	---	---
MONTH	10.6	9.1	10.0	12.7	10.3	11.7	12.8	11.7	12.2	12.1	11.3	11.7

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

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	12.4	11.7	12.0	10.6	10.2	10.4
2	---	---	---	---	---	---	---	---	---	10.4	10.0	10.2
3	---	---	---	---	---	---	---	---	---	10.3	10.0	10.1
4	---	---	---	---	---	---	---	---	---	10.3	9.8	10.1
5	---	---	---	---	---	---	---	---	---	10.2	9.7	9.8
6	---	---	---	---	---	---	---	---	---	10.0	9.8	9.9
7	---	---	---	---	---	---	---	---	---	10.1	9.7	10.0
8	---	---	---	---	---	---	---	---	---	10.1	9.8	9.9
9	---	---	---	---	---	---	---	---	---	10.0	9.6	9.8
10	---	---	---	---	---	---	---	---	---	10.0	9.4	9.7
11	---	---	---	---	---	---	---	---	---	9.9	9.4	9.7
12	---	---	---	12.6	12.3	12.5	---	---	---	9.9	9.2	9.5
13	---	---	---	12.5	12.3	12.4	---	---	---	9.9	9.4	9.7
14	---	---	---	12.5	12.3	12.4	12.1	11.9	12.0	9.9	9.4	9.6
15	---	---	---	12.6	12.5	12.5	12.0	11.8	11.8	9.7	9.2	9.4
16	---	---	---	12.6	12.4	12.5	11.8	11.5	11.7	9.8	9.4	9.6
17	---	---	---	12.5	12.4	12.4	11.6	11.5	11.6	9.8	9.2	9.4
18	---	---	---	12.5	12.3	12.4	11.5	11.3	11.4	9.5	9.0	9.2
19	---	---	---	12.4	12.3	12.4	11.3	11.0	11.2	9.5	9.0	9.2
20	---	---	---	12.4	12.2	12.3	11.1	10.8	11.0	9.5	8.9	9.2
21	---	---	---	12.4	12.3	12.4	10.8	10.5	10.7	9.4	8.8	9.1
22	---	---	---	12.4	12.1	12.2	10.5	10.2	10.4	9.4	8.7	9.0
23	---	---	---	12.4	11.9	12.1	10.4	10.1	10.2	9.1	8.5	8.8
24	---	---	---	12.1	11.9	12.0	10.1	9.9	10.0	9.0	8.3	8.5
25	---	---	---	11.9	11.7	11.8	10.4	9.9	10.1	8.9	8.4	8.6
26	---	---	---	11.8	11.6	11.7	10.3	9.8	10.1	8.9	8.3	8.5
27	---	---	---	11.8	11.6	11.7	10.3	9.7	10.0	8.8	8.2	8.5
28	---	---	---	11.6	11.4	11.5	10.4	10.0	10.2	8.8	8.1	8.4
29	---	---	---	11.4	11.1	11.3	10.2	10.0	10.1	8.5	8.0	8.2
30	---	---	---	11.5	11.1	11.3	10.3	9.9	10.1	8.5	7.4	7.7
31	---	---	---	11.7	11.4	11.5	---	---	---	8.1	7.8	7.9
MONTH	---	---	---	12.6	11.1	12.1	12.4	9.7	10.8	10.6	7.4	9.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	7.6	7.7	8.1	7.7	7.8	7.5	7.2	7.4	7.7	7.2	7.4
2	7.8	7.2	7.5	8.1	7.7	7.8	7.6	7.2	7.4	7.9	7.4	7.7
3	7.9	7.4	7.6	7.9	7.4	7.6	7.6	6.9	7.2	8.1	7.8	8.0
4	8.0	7.4	7.7	7.6	7.4	7.5	7.4	7.0	7.2	8.5	8.0	8.1
5	7.9	7.5	7.7	7.7	7.4	7.6	7.4	7.2	7.3	8.5	8.0	8.2
6	8.2	7.7	8.0	7.7	7.4	7.6	7.6	7.2	7.4	8.6	8.2	8.4
7	8.4	8.1	8.2	7.6	7.1	7.4	7.6	7.2	7.5	8.5	8.1	8.3
8	8.4	7.7	8.0	7.7	7.2	7.4	7.7	6.9	7.3	8.5	7.9	8.2
9	8.0	7.6	7.8	7.7	7.3	7.5	7.3	7.0	7.2	8.3	7.8	8.1
10	8.3	7.7	8.0	7.6	7.0	7.2	7.5	6.8	7.2	8.3	8.0	8.1
11	8.6	8.1	8.3	7.3	6.7	7.0	7.4	7.1	7.3	8.4	7.9	8.3
12	8.4	8.0	8.1	7.0	6.8	6.8	7.4	7.0	7.3	8.3	7.9	8.1
13	8.2	7.9	8.1	7.0	6.8	6.9	7.4	7.1	7.3	8.3	7.8	8.2
14	8.5	7.8	8.2	7.0	6.4	6.7	7.5	7.0	7.3	8.3	7.8	8.1
15	8.7	8.3	8.5	6.8	6.5	6.6	7.5	6.8	7.1	8.3	8.0	8.2
16	8.7	8.3	8.5	7.2	6.8	6.9	7.4	6.6	7.0	8.4	8.0	8.3
17	8.5	7.9	8.1	7.2	6.7	7.0	7.3	6.6	6.9	8.4	8.0	8.3
18	8.1	7.7	7.9	7.2	6.9	7.1	7.3	6.5	6.8	8.3	7.9	8.2
19	8.0	7.6	7.8	7.3	7.0	7.1	7.3	6.5	6.8	8.4	8.1	8.2
20	7.9	7.5	7.6	7.2	6.6	6.9	7.3	6.3	6.8	8.4	8.2	8.3
21	7.7	7.3	7.5	7.0	6.6	6.8	6.7	6.2	6.5	8.6	8.4	8.5
22	8.0	7.5	7.7	7.0	6.7	6.8	6.7	6.4	6.6	8.8	8.4	8.6
23	8.0	7.6	7.8	7.1	6.8	6.9	6.9	6.5	6.7	8.9	8.5	8.7
24	8.0	7.7	7.9	7.3	6.9	7.1	7.1	6.7	7.0	9.0	8.6	8.8
25	8.0	7.5	7.7	7.2	6.9	7.1	7.4	6.9	7.2	9.1	8.7	8.9
26	7.8	7.5	7.7	7.2	6.6	6.9	7.4	6.9	7.2	9.2	8.8	9.0
27	7.1	7.9	7.9	7.5	6.9	7.1	7.3	6.8	7.1	9.2	8.8	9.1
28	8.2	8.0	8.1	7.5	7.2	7.4	7.3	6.9	7.1	9.3	9.0	9.2
29	8.1	7.8	8.0	7.5	7.2	7.3	7.2	6.6	6.9	9.3	9.0	9.2
30	8.1	7.7	7.9	7.5	7.1	7.3	7.3	6.8	7.0	9.3	9.1	9.2
31	---	---	---	7.5	7.2	7.4	7.4	7.0	7.3	---	---	---
MONTH	8.7	7.2	7.9	8.1	6.4	7.2	7.7	6.2	7.1	9.5	7.2	8.4

YEAR MAXIMUM 12.8 MINIMUM 6.2 MEAN 9.7

01021200 DENNY'S RIVER AT DENNYVILLE, ME

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, Hydrologic Unit 01050002, on right bank 100 ft 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. 22-26, Nov. 30 to Dec. 2, 8-23, Jan. 3 to Mar. 30, and Apr. 4 to Jun. 22. Records good except for periods of ice effect, Nov. 22-26, Nov. 30 to Dec. 2, 8-23, and Jan. 3 to Mar. 30, and for period of no gage-height record, Apr. 4 to Jun. 22, which are fair.

AVERAGE DISCHARGE.--32 years, 193 ft³/s, 28.21 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 above base of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 4	0300	1,010	4.44	Sept. 21	1500	937	4.27
Apr. 2	1400	*1,380	*5.29				

Minimum discharge, 35 ft³/s, Sep. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	60	e165	141	e105	e110	1140	e230	e180	82	45	37
2	93	63	e150	134	e105	e110	1340	e205	e185	72	44	37
3	87	69	358	e130	e105	e115	1170	e155	e145	66	47	38
4	109	69	895	e125	e105	e125	e1080	e130	e120	64	56	38
5	157	72	586	e125	e105	e125	e1000	e120	e110	64	52	37
6	146	69	360	e120	e105	e125	e960	e165	e125	61	47	37
7	146	72	284	e120	e105	e120	e950	e450	e115	59	44	37
8	126	73	e230	e120	e105	e115	e915	e345	e115	57	43	37
9	113	74	e200	e120	e105	e110	e655	e270	e150	57	42	46
10	109	77	e180	e115	e105	e105	e500	e215	e200	57	42	45
11	99	73	e170	e115	e105	e115	e480	e165	e130	56	41	39
12	92	70	e150	e115	e105	e120	e475	e145	e115	56	41	37
13	89	70	e140	e115	e105	125	e455	e135	e105	55	40	35
14	90	66	e130	e115	e105	122	e380	e130	e98	54	39	65
15	108	61	e125	e110	e105	119	e325	e125	e93	54	39	67
16	108	59	e125	e110	e105	118	e305	e120	e90	54	42	53
17	102	58	e120	e110	e105	109	e280	e140	e84	52	44	49
18	100	58	e120	e110	e110	100	e265	e130	e81	51	43	45
19	94	71	e120	e110	e110	101	e255	e120	e80	50	43	41
20	89	123	e115	e110	e110	101	e240	e110	e75	49	42	68
21	87	168	e115	e110	e110	110	e220	e105	e74	52	42	732
22	87	442	e115	e110	e115	149	e200	e105	e73	51	41	634
23	85	313	e115	e110	e115	e170	e175	e100	68	49	41	339
24	83	e230	e110	e110	e115	e185	e160	e100	67	48	39	187
25	79	e215	143	e105	e115	e195	e150	e98	66	47	39	122
26	78	e210	415	e105	e110	e210	e135	e125	64	49	38	92
27	72	431	363	e105	e110	e250	e130	e115	63	54	38	77
28	64	401	263	e105	e110	e320	e125	e105	148	53	37	66
29	63	265	203	e105	---	e350	e140	e105	134	46	38	60
30	61	e185	171	e105	---	e450	e270	e100	99	44	39	61
31	60	---	155	e105	---	719	---	e140	---	44	38	---
TOTAL	2983	4267	6891	3545	3015	5398	14875	4803	3252	1707	1306	3258
MEAN	96.2	142	222	114	108	174	496	155	108	55.1	42.1	109
MAX	157	442	895	141	115	719	1340	450	200	82	56	732
MIN	60	58	110	105	105	100	125	98	63	44	37	35

CAL YR 1986 TOTAL 56705 MEAN 155 MAX 975 MIN 44
WTR YR 1987 TOTAL 55300 MEAN 152 MAX 1340 MIN 35

e Estimated

PLEASANT RIVER BASIN

55

01022260 PLEASANT RIVER NEAR EPPING, ME

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

DRAINAGE AREA.--60.6 mi².

PERIOD OF RECORD.--July 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: Dec. 10-27, and Dec. 31 to Mar. 29. Records good below 100 ft³ and fair above, except for periods of ice-effect, Dec. 10-27, and Dec. 31 to Mar. 29, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--7 years, 141 ft³/s, 31.60 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 above base of 440 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	0230	494	8.11	Apr. 2	1615	*979	*9.93

Minimum discharge 18 ft³/s, Sept. 7, 8, gage height 5.04 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	54	214	e135	e86	e62	670	208	155	216	40	24
2	72	54	172	e115	e85	e61	902	189	145	141	36	24
3	69	56	210	e110	e84	e59	918	159	114	98	35	22
4	69	57	312	e110	e84	e60	775	136	93	87	56	21
5	80	58	407	e105	e83	e61	680	123	88	82	60	20
6	87	58	467	e105	e82	e61	655	152	112	74	46	19
7	86	62	411	e105	e82	e63	669	207	138	65	32	18
8	81	66	328	e105	e80	e65	681	228	119	58	30	18
9	74	67	240	e100	e80	e68	620	213	107	54	38	22
10	73	71	e215	e100	e79	e67	553	175	115	53	42	35
11	71	69	e190	e98	e78	e66	496	144	113	51	40	35
12	66	66	e170	e97	e77	e64	439	125	100	49	39	30
13	64	65	e155	e96	e76	e62	393	115	92	48	36	27
14	63	59	e145	e95	e76	e60	354	107	84	47	33	41
15	76	60	e135	e94	e74	e58	316	100	78	46	32	67
16	80	60	e125	e94	e74	e56	279	114	72	47	31	53
17	74	58	e115	e93	e74	e54	248	110	66	49	29	43
18	69	58	e110	e93	e74	e56	225	97	61	43	28	39
19	65	55	e105	e92	e74	e60	209	89	57	40	27	34
20	62	43	e98	e91	e74	e65	196	83	55	37	25	39
21	60	83	e93	e90	e74	e70	184	79	50	36	24	192
22	59	191	e87	e90	e73	e80	172	75	45	39	23	283
23	58	228	e83	e90	e72	e90	161	72	44	41	24	337
24	57	248	e87	e90	e70	e100	151	76	54	40	24	360
25	55	235	e98	e90	e70	e125	142	87	52	39	23	312
26	54	221	e145	e89	e72	e155	132	84	48	37	20	236
27	54	245	e200	e89	e70	e200	121	76	46	43	20	151
28	58	261	295	e88	e65	e250	111	70	144	40	19	107
29	60	281	268	e88	---	e300	134	68	212	35	20	89
30	59	271	208	e88	---	368	188	75	235	32	24	79
31	56	---	e155	e86	---	431	---	131	---	34	26	---
TOTAL	2085	3460	6043	3011	2142	3397	11774	3767	2894	1801	982	2777
MEAN	67.3	115	195	97.1	76.5	110	392	122	96.5	58.1	31.7	92.6
MAX	87	281	467	135	86	431	918	228	235	216	60	360
MIN	54	43	83	86	65	54	111	68	44	32	19	18
CFSM	1.11	1.90	3.22	1.60	1.26	1.81	6.48	2.01	1.59	.96	.52	1.53
IN.	1.28	2.12	3.71	1.85	1.31	2.09	7.23	2.31	1.78	1.11	.60	1.70

CAL YR 1986 TOTAL 49341 MEAN 135 MAX 604 MIN 29 CFSM 2.23 IN. 30.29
WTR YR 1987 TOTAL 44133 MEAN 121 MAX 918 MIN 18 CFSM 2.00 IN. 27.09

e Estimated

NARRAGUAGUS RIVER BASIN

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. 11-21, and Jan. 4 to Mar. 30. Records good except for periods of ice effect, Dec. 11-21, and Jan. 4 to Mar. 30, which are fair.

AVERAGE DISCHARGE.--39 years, 499 ft³/s, 29.85 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 4	0600	2,680	12.28	Apr. 2	2200	*4,660	*14.03

Minimum discharge, 44 ft³/s, Sept. 8, gage height, 7.20 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	135	623	374	e230	e200	3390	676	478	654	135	60
2	206	137	515	356	e230	e200	4460	581	445	450	114	58
3	200	144	1210	334	e225	e215	4350	512	380	354	125	55
4	201	145	2560	e315	e225	e220	3650	449	316	309	191	52
5	234	158	2090	e300	e220	e220	3110	405	295	282	184	49
6	252	164	1560	e290	e220	e220	2920	537	412	249	156	47
7	253	180	1090	e280	e220	e215	3070	901	468	219	131	45
8	237	180	795	e270	e220	e210	2880	751	386	196	122	45
9	224	185	573	e270	e215	e205	2390	603	376	180	129	65
10	220	197	501	e265	e210	e195	1930	501	405	170	139	90
11	204	189	e450	e255	e210	e190	1560	424	411	161	140	82
12	189	184	e420	e250	e210	e185	1330	379	383	155	129	78
13	180	190	e380	e250	e210	e180	1160	352	346	153	115	74
14	180	167	e350	e250	e205	e175	1010	322	301	149	104	134
15	209	157	e325	e250	e200	e170	873	310	268	152	97	157
16	210	154	e305	e250	e205	e160	768	343	236	162	90	134
17	197	152	e290	e250	e210	e160	693	328	213	152	83	122
18	184	149	e285	e250	e215	e160	654	301	192	139	78	109
19	173	144	e280	e250	e215	e155	629	274	177	131	72	93
20	165	114	e275	e250	e215	e200	589	250	170	120	68	132
21	157	457	e270	e245	e215	e250	552	231	155	129	65	1210
22	153	1070	271	e240	e215	e330	518	217	143	139	61	1710
23	151	792	268	e240	e210	e400	471	211	152	137	66	1460
24	145	717	272	e240	e210	e470	438	226	164	134	61	1000
25	139	834	392	e240	e205	e520	421	256	160	129	56	628
26	137	728	1240	e240	e205	e600	405	248	150	131	52	447
27	141	1260	1060	e240	e205	e700	378	236	156	143	50	351
28	152	1300	828	e240	e200	e800	349	224	1130	131	49	288
29	152	1100	641	e240	---	e1000	549	211	1360	121	52	246
30	149	859	516	e235	---	e1400	789	263	1010	112	62	225
31	143	---	450	e235	---	2170	---	442	---	130	61	---
TOTAL	5748	12342	21085	8194	5975	12475	46286	11964	11238	5973	3037	9246
MEAN	185	411	680	264	213	402	1543	386	375	193	98.0	308
MAX	253	1300	2560	374	230	2170	4460	901	1360	654	191	1710
MIN	137	114	268	235	200	155	349	211	143	112	49	45
CFSM	.82	1.81	3.00	1.16	.94	1.77	6.80	1.70	1.65	.85	.43	1.36
IN.	.94	2.02	3.46	1.34	.98	2.04	7.59	1.96	1.84	.98	.50	1.52

CAL YR 1986 TOTAL 177059 MEAN 485 MAX 2710 MIN 71 CFSM 2.14 IN. 29.02
WTR YR 1987 TOTAL 153563 MEAN 421 MAX 4460 MIN 45 CFSM 1.85 IN. 25.17

e Estimated

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: Jan. 15 to Mar. 15. Records fair, including period of ice effect, Jan. 16 to Mar. 15. 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.--47 years, 5803 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, 55,400 ft³/s, Apr. 2, gage height, 12.90 ft (from peak-stage indicator), caused by unusual regulation; minimum daily, 2,280 ft³/s, Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5700	3300	4250	4090	e4160	e3770	33200	5820	4550	4360	3380	2560
2	5360	3660	4190	4410	e4520	e3830	52300	6540	4500	3970	3530	2680
3	5740	3420	4840	4480	e4310	e3590	39700	5780	4430	4340	2920	2560
4	5870	4110	5790	4120	e4310	e3670	28900	6110	3990	4350	2990	2690
5	6030	3020	7280	4150	e4480	e3550	23800	6050	4690	4290	3220	2690
6	5880	3450	6020	3980	e4240	e2680	21200	6330	4500	3420	2900	2530
7	5950	3750	5640	4350	e4460	e3420	23100	5920	4330	3630	3060	2280
8	5110	3820	4950	3950	e4400	e3410	24200	6850	3940	3440	3090	2590
9	5350	3540	4390	4130	e4370	e3550	21600	6850	4380	3720	3170	3380
10	5250	3330	4720	4110	e4190	e4300	18800	6440	5270	3600	3120	3060
11	4880	3380	4520	4500	e3770	e3230	16000	5970	5560	3710	3060	2730
12	4960	3600	5020	4530	e3520	e3890	14300	5450	4930	3340	2850	2430
13	5040	3650	4780	4310	e4190	e3600	13600	5570	5230	3810	3050	2950
14	4850	3380	4560	4590	e3870	e3360	12500	5170	4730	4110	3010	3180
15	4610	3160	4200	4730	e3820	e3760	11300	5210	4780	3090	2700	3560
16	5020	3500	4390	e4450	e3950	4180	8510	5450	4790	3340	3020	3660
17	4900	3480	4430	e4870	e3820	4210	6980	6150	4850	3270	2870	3290
18	5220	3510	4460	e4870	e4160	3880	7060	5550	4100	3730	2990	3960
19	5220	3370	4490	e4880	e3490	4160	7090	5080	4820	3000	2890	4660
20	5190	3220	4550	e4790	e3850	3960	7940	4800	3760	3310	2580	4040
21	4660	3450	4420	e4420	e4380	4400	7820	4940	4360	3250	2310	4840
22	3430	3660	4490	e4520	e3780	4180	7610	4850	4280	3620	2450	6360
23	2880	3340	4210	e4620	e3530	4570	6880	4760	3990	4080	2680	5100
24	2540	3480	4190	e4710	e3790	4870	6340	5130	4680	3410	2510	4180
25	2880	3660	3530	e4760	e3890	5530	6270	5160	3950	3190	2570	3360
26	3000	3960	4650	e4540	e3640	5940	6030	5090	4170	3310	2510	3580
27	3290	4570	5240	e4990	e3830	6330	5850	4350	4620	3680	2390	3820
28	3700	5110	5110	e4030	e3660	6350	6110	4500	4460	3280	2570	3390
29	3540	4760	5060	e4480	---	7390	5800	3990	4310	3330	2590	3400
30	3710	4710	4550	e4300	---	8300	5700	4370	4490	3340	2640	3350
31	3370	---	4700	e4330	---	11200	---	4570	---	3400	2570	---
TOTAL	143130	110350	147620	137990	112380	143060	456490	168800	135440	111720	88190	102860
MEAN	4617	3678	4762	4451	4014	4615	15220	5445	4515	3604	2845	3429
MAX	6030	5110	7280	4990	4520	11200	52300	6850	5560	4360	3530	6360
MIN	2540	3020	3530	3950	3490	2680	5700	3990	3760	3000	2310	2280

CAL YR 1986 TOTAL 1933240 MEAN 5297 MAX 15600 MIN 2540
WTR YR 1987 TOTAL 1858030 MEAN 5090 MAX 52300 MIN 2280

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: Nov. 10-25, Dec. 14-21, Jan. 4 to Mar. 16 and Aug. 26 to Sept. 9. Records good except for periods of ice-effect, Nov. 10-25, and Jan. 4 to Mar. 16, which are fair, and period of doubtful gage-height record, Aug. 26 to Sept. 9, which is poor. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years, 2,504 ft³/s, 23.98 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, 23,300 ft³/s, Apr. 5, gage height, 13.10 ft; minimum daily, 39 ft³/s, Sept. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	601	3190	1380	e665	e495	12600	2260	909	1160	302	e60
2	1440	617	2860	1270	e650	e480	17700	2530	954	953	281	e68
3	1510	616	2740	1170	e640	e475	20600	2570	863	766	282	e63
4	1440	614	3800	e1100	e630	e480	22100	2440	759	629	303	e56
5	1540	617	4970	e1070	e620	e485	23000	2250	711	542	314	e50
6	1630	595	5390	e1040	e625	e490	22600	2100	767	448	299	e44
7	1640	571	5290	e990	e615	e490	21600	2210	829	392	268	e41
8	1600	565	4790	e960	e605	e490	20500	2680	812	351	250	e39
9	1500	573	4140	e920	e600	e485	19300	3020	816	318	237	e42
10	1380	e590	3640	e890	e600	e470	18000	2990	1160	303	220	109
11	1240	e665	3350	e880	e590	e460	16500	2700	1800	303	206	91
12	1150	e730	3060	e880	e585	e445	14800	2390	1940	301	204	83
13	1060	e725	2690	e875	e580	e425	13100	2130	1770	285	173	77
14	1000	e630	e2140	e875	e575	e410	11400	1870	1590	267	168	105
15	957	e590	e2100	e860	e570	e385	9850	1710	1420	262	156	100
16	925	e545	e1990	e860	e560	e375	8310	1710	1270	268	144	158
17	878	e500	e1840	e845	e555	361	7020	1770	1110	274	135	237
18	826	e470	e1790	e835	e550	355	6020	1700	954	257	128	297
19	785	e435	e1640	e820	e545	361	5300	1530	824	233	110	346
20	747	e400	e1530	e805	e540	369	4720	1350	734	205	98	355
21	698	e450	e1400	e795	e540	383	4240	1200	640	192	76	606
22	676	e535	1350	e780	e535	484	3870	1090	565	181	60	1790
23	649	e600	1290	e760	e530	751	3440	1090	491	177	89	2700
24	644	e670	1260	e740	e525	1020	3090	1110	426	177	73	2790
25	631	e790	1200	e735	e520	1430	2800	1120	388	190	51	2460
26	626	1060	1310	e720	e510	1950	2590	1090	349	259	e49	1990
27	614	1740	1550	e710	e500	2460	2340	1000	324	460	e47	1640
28	607	2860	1690	e700	e495	3450	2100	913	392	502	e46	1360
29	605	3350	1720	e690	---	4240	1970	838	1060	444	e44	1160
30	616	3410	1630	e675	---	5680	1980	798	1310	382	e44	1040
31	614	---	1500	e660	---	8050	---	827	---	341	e43	---
TOTAL	31378	27114	78840	27290	16055	38684	323440	54986	27937	11822	4900	19957
MEAN	1012	904	2543	880	573	1248	10780	1774	931	381	158	665
MAX	1640	3410	5390	1380	665	8050	23000	3020	1940	1160	314	2790
MIN	605	400	1200	660	495	355	1970	798	324	177	43	39
CFSM	.71	.64	1.79	.62	.40	.88	7.60	1.25	.66	.27	.11	.47
IN.	.82	.71	2.07	.72	.42	1.01	8.49	1.44	.73	.31	.13	.52

CAL YR 1986 TOTAL 820410 MEAN 2248 MAX 14500 MIN 271 CFSM 1.59 IN. 21.52
WTR YR 1987 TOTAL 662403 MEAN 1815 MAX 23000 MIN 39 CFSM 1.28 IN. 17.38

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.

WATER-DISCHARGE RECORDS

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. 13-25, Dec. 6-25, Jan. 3 to Mar. 30, Apr. 1-2, and Jun. 15-24. Records good except for periods of ice effect, Nov. 13-25, Dec. 6-25, and Jan. 3 to Mar. 30, and periods of no gage-height record, Apr. 1-2 and Jun. 15-24, 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.--85 years, 605 ft³/s, 27.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,300 ft³/s, Apr. 1, 1987, gage height, 22.62 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)
Apr. 1	unknown	*37,300	a*22.62	Apr. 7	0545	5,890	8.03

a From high water marks

Minimum discharge, 6.5 ft³/s Sept. 7-9, gage height, 1.34 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	142	537	302	e145	e110	e31700	773	467	235	43	14
2	302	136	444	268	e145	e170	e14600	852	349	179	40	15
3	271	129	814	e250	e140	e230	6740	748	271	144	40	15
4	286	126	2360	e245	e140	e220	4200	612	226	138	45	13
5	333	117	1550	e235	e140	e210	3140	512	312	205	59	12
6	303	101	e1010	e230	e140	e200	4100	904	410	246	55	9.5
7	276	126	e800	e220	e135	e195	5620	1510	322	189	48	7.2
8	248	126	e595	e220	e135	e190	4660	1160	262	144	42	6.5
9	229	180	e480	e215	e130	e240	3040	872	644	119	44	20
10	210	272	e460	e210	e130	e300	2180	703	805	140	73	124
11	194	234	e425	e205	e130	e320	1850	566	587	189	67	100
12	179	207	e400	e200	e130	e310	1680	484	418	177	60	69
13	173	e185	e380	e200	e125	e300	1470	420	343	149	54	57
14	173	e130	e360	e195	e125	e285	1210	368	310	135	47	470
15	196	e120	e345	e190	e120	e270	1020	343	e570	122	40	476
16	190	e115	e330	e190	e120	e260	892	373	e470	94	35	263
17	170	e110	e320	e185	e120	e250	848	339	e350	80	31	180
18	159	e105	e315	e180	e120	e245	950	294	e275	73	29	138
19	150	e93	e305	e175	e120	e240	962	263	e350	65	26	106
20	142	e80	e295	e170	e115	e240	838	237	e280	58	22	91
21	140	e71	e290	e170	e115	e300	705	215	e230	67	18	795
22	140	e80	e285	e165	e115	e560	592	197	e190	101	17	933
23	138	e100	e280	e165	e115	e1300	509	201	e155	95	15	532
24	133	e135	e275	e160	e110	e1650	451	478	e130	86	16	341
25	128	e175	e300	e160	e110	e1600	454	631	91	77	14	247
26	124	257	654	e155	e110	e1800	399	446	79	69	13	190
27	138	834	846	e155	e110	e2000	352	339	91	64	13	156
28	174	1000	595	e155	e110	e1900	318	275	690	60	12	146
29	186	782	472	e150	---	e1900	363	237	501	54	11	133
30	175	623	397	e150	---	e2900	500	374	327	49	11	120
31	157	---	346	e150	---	5950	---	620	---	45	13	---
TOTAL	6152	6891	17265	6020	3500	26645	96343	16346	10505	3648	1053	5779.2
MEAN	198	230	557	194	125	860	3211	527	350	118	34.0	193
MAX	335	1000	2360	302	145	5950	31700	1510	805	246	73	933
MIN	124	71	275	150	110	110	318	197	79	45	11	6.5
CFSM	.67	.77	1.87	.65	.42	2.88	10.8	1.77	1.18	.39	.11	.65
IN.	.77	.86	2.16	.75	.44	3.33	12.03	2.04	1.31	.46	.13	.72

CAL YR 1986 TOTAL 218433 MEAN 598 MAX 7700 MIN 52 CFMS 2.01 IN. 27.27
WTR YR 1987 TOTAL 200147.2 MEAN 548 MAX 31700 MIN 6.5 CFMS 1.84 IN. 24.98

e Estimated

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May to September 1987.

INSTRUMENTATION.--Water-quality monitor since May 1987. Temperature probe located 10 ft. streamward from left bank.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 29.5°C, Aug. 18, 1987; minimum, 10.0°C, May 9, 1987.

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	11.5	10.0	10.5
10	---	---	---	---	---	---	---	---	---	12.5	10.0	11.0
11	---	---	---	---	---	---	---	---	---	14.0	10.5	12.5
12	---	---	---	---	---	---	---	---	---	14.0	11.0	12.0
13	---	---	---	---	---	---	---	---	---	15.0	10.5	12.5
14	---	---	---	---	---	---	---	---	---	16.5	10.5	13.0
15	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
16	---	---	---	---	---	---	---	---	---	15.0	11.0	12.5
17	---	---	---	---	---	---	---	---	---	16.5	10.5	13.5
18	---	---	---	---	---	---	---	---	---	16.5	12.5	14.5
19	---	---	---	---	---	---	---	---	---	18.0	12.5	15.0
20	---	---	---	---	---	---	---	---	---	18.0	12.5	15.0
21	---	---	---	---	---	---	---	---	---	18.5	13.0	16.0
22	---	---	---	---	---	---	---	---	---	18.5	15.0	17.0
23	---	---	---	---	---	---	---	---	---	20.0	16.0	17.5
24	---	---	---	---	---	---	---	---	---	16.5	14.0	16.0
25	---	---	---	---	---	---	---	---	---	14.5	12.5	13.5
26	---	---	---	---	---	---	---	---	---	17.5	12.5	15.0
27	---	---	---	---	---	---	---	---	---	17.5	14.5	16.0
28	---	---	---	---	---	---	---	---	---	20.0	11.5	17.5
29	---	---	---	---	---	---	---	---	---	22.0	17.5	20.0
30	---	---	---	---	---	---	---	---	---	20.0	18.5	19.0
31	---	---	---	---	---	---	---	---	---	22.0	10.5	19.0
MONTH	---	---	---	---	---	---	---	---	---	22.0	10.0	15.0

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	23.0	20.0	21.0	21.0	17.5	19.0	22.5	18.5	21.0	22.0	18.5	20.0
2	23.0	19.5	21.0	22.5	17.5	20.0	25.5	18.0	21.0	20.0	16.5	18.0
3	21.5	18.0	19.5	20.0	18.0	18.5	23.5	20.0	21.0	21.0	15.5	17.5
4	18.0	17.0	17.5	19.0	17.5	18.0	---	---	---	20.5	15.0	17.5
5	17.5	14.5	16.0	22.5	17.0	19.5	---	---	---	21.5	15.0	18.0
6	19.5	14.5	16.0	24.0	17.0	20.5	---	---	---	21.5	17.0	19.0
7	20.0	16.0	17.5	25.0	19.5	22.5	---	---	---	24.0	17.0	20.0
8	---	---	---	25.5	21.0	23.5	---	---	---	23.0	19.5	21.0
9	---	---	---	26.5	22.0	24.0	---	---	---	20.5	16.0	18.5
10	---	---	---	27.0	23.0	25.5	---	---	---	21.5	18.5	20.0
11	---	---	---	26.0	24.0	24.5	---	---	---	20.0	19.0	19.5
12	---	---	---	25.0	24.0	24.5	---	---	---	19.5	18.5	19.0
13	---	---	---	24.5	23.0	24.0	---	---	---	18.0	17.0	17.5
14	---	---	---	24.0	23.0	23.5	---	---	---	19.0	16.5	17.5
15	---	---	---	26.0	22.0	24.0	---	---	---	18.5	15.5	17.0
16	---	---	---	25.5	19.5	22.5	---	---	---	18.0	15.0	16.5
17	---	---	---	26.0	20.0	23.5	---	---	---	18.0	15.5	16.5
18	---	---	---	25.5	21.5	23.5	29.5	26.0	28.0	16.5	14.0	15.5
19	---	---	---	27.5	22.5	24.5	28.0	24.0	26.0	16.0	14.5	15.0
20	---	---	---	25.0	21.0	22.0	27.5	23.5	25.5	15.0	14.5	15.0
21	---	---	---	20.5	19.5	20.0	26.0	21.5	24.0	14.5	13.5	14.0
22	---	---	---	21.0	19.5	20.0	23.5	21.0	22.0	13.5	12.5	13.0
23	---	---	---	23.0	20.0	21.5	23.5	19.0	21.0	14.5	12.5	13.0
24	---	---	---	25.5	19.5	22.5	21.5	17.5	19.0	15.5	13.0	14.0
25	---	---	---	27.5	23.0	25.0	20.0	16.0	17.5	15.5	12.5	13.5
26	---	---	---	26.0	23.0	24.5	21.5	15.5	18.0	---	---	---
27	---	---	---	24.5	20.5	22.5	21.5	16.0	19.0	---	---	---
28	---	---	---	24.5	19.5	22.0	22.0	16.5	19.0	---	---	---
29	---	---	---	24.5	19.0	21.5	18.5	16.5	18.0	---	---	---
30	21.5	17.0	19.0	23.5	20.0	21.5	22.0	15.0	18.5	---	---	---
31	---	---	---	24.5	18.5	21.5	22.5	17.0	19.5	---	---	---
MONTH	23.0	14.5	18.5	27.5	17.0	22.5	29.5	15.0	21.0	24.0	12.5	17.0

PERIOD MAXIMUM 29.5 MINIMUM 10.0 MEAN 19.0

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: Dec. 29 to Jan. 29. Records good including period of no gage-height record Dec. 29 to Jan. 29. 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.--61 years, 630 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s, Apr. 2, 1987, gage height, 12.89 ft; maximum gage height, 14.46 ft, Mar. 20, 1936; 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, 13,500 ft³/s, Apr. 2, gage height, 12.89 ft, minimum daily, 33 ft³/s, Nov. 10-12, and 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	34	124	e425	325	293	9070	340	1050	345	59	49
2	1010	34	412	e425	325	368	13100	249	1040	347	58	48
3	962	34	915	e440	354	344	11000	178	385	203	59	47
4	792	34	836	e445	402	302	8310	355	558	126	60	47
5	726	34	425	e435	329	300	6610	901	703	125	60	46
6	647	34	952	e430	330	299	5510	1110	555	125	60	46
7	699	34	729	e430	329	276	4940	847	567	116	59	44
8	606	34	928	e435	329	302	4410	544	465	124	60	43
9	540	34	964	e440	328	302	3900	773	691	122	60	45
10	481	33	795	e445	325	285	3440	641	824	122	60	48
11	547	33	733	e465	326	280	2910	542	932	122	60	49
12	550	33	732	e470	314	302	2310	671	775	122	58	72
13	534	34	728	e440	288	302	1890	464	282	121	58	231
14	530	33	1040	e440	275	302	1700	261	252	119	58	609
15	435	34	741	e440	286	302	1590	449	313	100	58	577
16	181	34	724	e440	285	302	1490	455	264	84	57	663
17	35	35	720	e440	285	300	1430	253	248	57	57	675
18	40	35	638	e440	282	297	1370	380	250	58	57	620
19	35	35	419	e440	280	296	1270	215	279	58	57	696
20	35	35	422	e440	278	115	841	127	320	57	58	697
21	35	113	426	e440	276	294	737	169	260	59	57	696
22	35	320	426	e455	273	400	741	421	155	60	56	747
23	35	319	426	e470	271	397	546	409	85	60	56	687
24	35	312	426	e430	266	420	622	514	79	59	54	683
25	35	313	562	e430	262	502	328	296	63	59	52	885
26	34	524	792	e430	259	510	56	286	111	60	51	1060
27	35	530	785	e430	265	642	45	293	301	59	50	1050
28	35	407	768	e300	285	1050	47	372	239	59	49	1010
29	35	826	e425	e325	---	1210	143	294	229	58	49	857
30	35	845	e425	325	---	1160	391	810	349	58	49	530
31	34	---	e425	325	---	2020	---	1050	---	60	49	---
TOTAL	10798	5189	19863	13165	8432	14474	90747	14669	12624	3304	1745	13557
MEAN	348	173	641	425	301	467	3025	473	421	107	56.3	452
MAX	1030	845	1040	470	402	2020	13100	1110	1050	347	60	1060
MIN	34	33	124	300	259	115	45	127	63	57	49	43

CAL YR 1986 TOTAL 266416 MEAN 730 MAX 3800 MIN 27
WTR YR 1987 TOTAL 208567 MEAN 571 MAX 13100 MIN 33

e Estimated

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: Nov. 19 to Nov. 22, Dec. 8-25, Dec. 27 to Mar. 31. Records good except for periods of ice effect, Nov. 19 to Nov. 23, Dec. 8-25, Dec. 27 to Mar. 31, 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.--85 years (water years 1903 to current year), 11,925 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, 147,000 ft³/s, Apr. 2, gage height, 23.58 ft; minimum discharge, 2,620 ft³/s, Aug. 27, gage height, 1.35 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9680	5400	13800	e9200	e6700	e5800	87500	12500	9410	7200	4440	3240
2	10900	5360	12200	e8900	e6800	e5900	141000	13500	9220	6560	4280	3090
3	10400	5850	13200	e8800	e6800	e6000	126000	13000	8450	6230	4530	3110
4	10500	5470	21900	e8400	e6700	e6400	93200	12300	7190	6110	4040	2980
5	10800	6110	23700	e7800	e6900	e6000	73700	12100	7240	5720	4160	2960
6	10900	5060	21400	e7600	e6800	e5400	65500	12200	8150	5570	4130	3310
7	10800	5360	18500	e7700	e6800	e5800	66700	14400	8340	4840	4080	2920
8	10400	5590	e14500	e7500	e6900	e5900	68700	14300	7410	4930	4050	2780
9	9680	5980	e12000	e7400	e6700	e6000	62400	14900	7790	4720	4020	3310
10	9510	5620	e11300	e7500	e6600	e6900	54000	14300	9900	4870	4070	4220
11	9170	5790	e11000	e7500	e6100	e6400	47300	12500	11700	4800	3980	3970
12	8630	6050	e10700	e7500	e5800	e7000	42100	11600	10900	4910	3900	3620
13	8590	6010	e10500	e7500	e6400	e6700	38100	10900	9960	4840	3700	3460
14	8520	5820	e10300	e7600	e6000	e6500	34400	10800	9190	4930	3870	4460
15	8330	5330	e10100	e7700	e6000	e6700	30600	8690	8070	5180	3800	5930
16	8020	5260	e10000	e7900	e6100	e6900	27000	9310	8450	4430	3630	6000
17	8040	5730	e9800	e8000	e6000	e7100	22100	9810	7800	4400	3810	5810
18	7840	5530	e9600	e8000	e6300	e6700	20700	9820	7260	4560	3690	5230
19	7910	e4700	e9500	e8000	e5700	e6900	20200	9410	6650	4170	3700	6030
20	7780	e5500	e9300	e7900	e6000	e6700	19500	7820	6720	4060	3560	6300
21	7830	e6400	e9000	e7800	e6400	e7100	18500	7850	5930	4310	3120	7920
22	6670	e6800	e8700	e7500	e6000	e7400	17000	7410	6150	4160	3100	13700
23	5570	7600	e8400	e7400	e5700	e8200	16000	8080	5690	4710	3070	14300
24	4770	7180	e8300	e7400	e5700	e11500	14100	8400	5440	4960	3100	12100
25	4560	7630	e7900	e7600	e6000	e16000	13800	9620	5600	4390	3150	10100
26	4840	8140	8670	e7800	e5700	e17000	12500	9450	5420	4550	3190	8820
27	5300	11600	e11200	e7800	e5800	e19000	11700	8470	5440	4660	2960	8390
28	5250	15500	e12000	e7300	e5800	e21000	10900	7600	5760	5120	2950	7970
29	5600	16000	e11800	e7000	---	e23000	10700	7240	6660	4640	3160	7160
30	5790	14400	e10500	e6800	---	e25000	10700	6840	7280	4520	3150	6730
31	5690	---	e9460	e6800	---	e34000	---	9260	---	4450	3020	---
TOTAL	248270	212770	369230	239600	175200	316900	1276600	324380	229170	153500	113410	179920
MEAN	8009	7092	11910	7729	6257	10220	42550	10460	7639	4952	3658	5997
MAX	10900	16000	23700	9200	6900	34000	141000	14900	11700	7200	4530	14300
MIN	4560	4700	7900	6800	5700	5400	10700	6840	5420	4060	2950	2780
CFSM	1.20	1.06	1.79	1.16	.94	1.53	6.38	1.57	1.15	.74	.55	.90
IN.	1.38	1.19	2.06	1.34	.98	1.77	7.12	1.81	1.28	.86	.63	1.00

CAL YR 1986 TOTAL 4268010 MEAN 11690 MAX 48700 MIN 4200 CFSM 1.75 IN. 23.80
WTR YR 1987 TOTAL 3838950 MEAN 10520 MAX 141000 MIN 2780 CFSM 1.58 IN. 21.41

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. 23-31, Jan. 15 to Mar. 23, May 21-28, and Sept. 17-20. Records good except for period of ice effect, Jan. 15 to Mar. 3, periods of doubtful gage-height record, Oct. 23-31, Mar. 3-23, and Sept. 17-20, and period of no gage-height record, May 21-28, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin).

AVERAGE DISCHARGE.--8 years, 14,422 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 159,000 ft³/s, Apr. 3, 1987, gage height, 23.53 ft; minimum daily discharge, 2,780 ft³/s, Sept. 5, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 159,000 ft³/s, Apr. 3; minimum daily discharge, 2,780 ft³/s, Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10100	6540	14300	10600	e8600	e6400	61800	13800	12000	8570	4860	3700
2	11600	6470	12800	9490	e8150	e6330	126000	15400	11300	8300	4840	3700
3	12100	7070	13400	8500	e7960	e6460	155000	15600	10800	7290	4450	3600
4	11800	7330	20700	8530	e7780	e6600	134000	14800	10100	7340	4650	3270
5	12600	6760	24200	8780	e8000	e6800	105000	14000	8720	7050	4400	2780
6	12700	6970	23700	8940	e7740	e6750	85200	13900	9570	6550	4340	2940
7	12000	6100	22400	8430	e7410	e6650	76600	15200	10400	6260	5200	4160
8	12100	6840	18000	8300	e7370	e6200	76100	16600	10200	5520	4630	3100
9	10800	6730	15200	8710	e7300	e6700	72800	16800	9590	5490	4190	3480
10	10600	7250	10200	9540	e7200	e8100	64300	16800	11000	5730	4390	4050
11	10300	6710	11200	8230	e7200	e7200	55400	16400	13100	5350	4630	4740
12	9860	7050	12700	7970	e7200	e7400	48400	14800	13500	5870	4480	4640
13	9460	7150	13000	8430	e7000	e7650	42600	12900	12400	5520	4290	3630
14	9600	7100	12800	10500	e6700	e7200	38200	12500	11400	5450	3900	4050
15	9530	6440	12100	e8000	e6800	e7200	34700	12300	10800	5910	3950	5700
16	9240	6170	11700	e8040	e6300	e7400	31400	10400	9660	5560	4030	6890
17	9010	6360	11400	e8080	e6900	e7950	27500	11200	10200	5110	3680	e6200
18	8830	6660	10700	e8100	e6950	e8500	25200	11900	8810	4980	3590	e6150
19	8630	6470	9690	e8200	e7000	e8000	24400	12200	8260	5440	3520	e5800
20	8750	5180	9830	e8400	e7000	e7900	23200	10600	8210	4190	4250	e6900
21	8550	5530	10100	e8550	s6840	e8000	21600	e9400	7640	5340	3620	8100
22	8560	5890	10100	e8750	e6910	e8250	20600	e9600	7080	4740	3670	12200
23	e6800	6820	9020	e8850	e7370	e9100	17800	e8700	7410	4850	3550	16400
24	e5500	7800	9020	e8770	e6980	10300	17400	e9400	6330	5780	3390	14900
25	e4800	8430	9360	e8810	e6630	14100	15800	e10400	6830	5330	3440	12700
26	e5700	9040	9320	e8750	e6560	17600	15200	e11300	6120	5070	3350	11100
27	e5600	12300	10100	e8900	e6500	20400	13900	e10800	6570	6060	3400	10100
28	e6300	17300	12300	e8600	e6460	24100	13300	e9900	6730	5600	3420	8790
29	e6300	19900	12300	e8800	---	24400	13200	9080	7060	6090	3440	8830
30	e6300	17200	11900	e8050	---	26100	12500	8720	8250	5830	3440	8270
31	e6600	---	11100	e8800	---	31500	---	9470	---	4900	3360	---
TOTAL	280620	243560	404640	269400	200810	337240	1469100	384870	280040	181070	124350	200870
MEAN	9052	8119	13050	8690	7172	10880	48970	12420	9335	5841	4011	6696
MAX	12700	19900	24200	10600	8600	31500	155000	16800	13500	8570	5200	16400
MIN	4800	5180	9020	7970	6300	6200	12500	8700	6120	4190	3350	2780

CAL YR 1986 TOTAL 4738830 MEAN 12980 MAX 52900 MIN 4800
WTR YR 1987 TOTAL 4376570 MEAN 11990 MAX 155000 MIN 2780

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 current year.

pH: April 1979 to current year.

WATER TEMPERATURES: April 1979 to current year.

DISSOLVED OXYGEN: April 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1979. 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, 132 microsiemens, Sept. 20, 1986; 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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 (FTU)	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- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 13...	E 9210	59	7.4	-3.0	0.0	1.6	760	14.4	99	75	38
APR 10...	62900	30	6.9	19.0	3.0	3.8	750	14.0	106	K 620	K 27
SEP 04...	3600	71	7.2	23.0	18.5	0.6	780	9.5	99	960	820

DATE	HARD- NESS TOTAL (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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
FEB 13...	20	6.0	1.2	4.3	0.7	16	0	13	15	14	14	5.1
APR 10...	11	3.4	0.7	1.6	0.6	7	0	5	8	8	12	1.7
SEP 04...	20	6.0	1.2	6.3	1.0	17	0	14	15	16	12	4.7

E Estimated discharge.

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

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	FLUORIDE, 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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DIS-SOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
FEB 13...	<0.1	4.6	50	46	0.17	0.07	0.09	0.7	0.03	0.02	0.02
APR 10...	<0.1	3.9	37	29	<0.10	0.04	0.05	0.7	0.03	0.01	<0.01
SEP 04...	0.1	2.3	46	43	<0.10	0.05	0.06	0.2	0.05	0.03	0.02

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, 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)	MANGANESE, DIS-SOLVED (UG/L AS MN)
FEB 13...	60	<1	8	<0.5	<1	<1	<3	4	100	<5	<4	20
APR 10...	120	<1	8	<0.5	<1	<1	<3	12	98	24	<4	17
SEP 04...	30	<1	9	<1	<2	<1	<6	2	52	<5	<8	6

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SEDIMENT, SUSPENDED % FINER THAN .062 MM
FEB 13...	<0.1	<10	1	<1	<1.0	31	<6	12	1	25	50
APR 10...	<0.1	<10	1	<1	<1.0	18	<6	21	33	5600	85
SEP 04...	<0.1	<20	2	<1	<1.0	28	<12	75	8	78	52

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, EXTRACTION (UG/L)
APR 10...	<0.4	0.4	0.9	1.1	0.9	1.1	0.03	0.05
SEP 04...	<0.4	<0.4	1.2	<0.4	1.1	<0.4	<0.02	0.06

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

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

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	47	45	46	---	---	---	65	54	61	75	73	74
2	46	45	45	---	---	---	64	62	63	74	70	72
3	48	45	46	---	---	---	64	61	62	73	69	71
4	47	46	46	---	---	---	65	63	64	73	70	72
5	47	46	47	---	---	---	68	64	66	74	72	73
6	48	45	46	---	---	---	67	64	66	79	73	76
7	47	46	47	---	---	---	66	64	65	81	72	77
8	46	44	45	50	46	48	65	63	65	71	65	67
9	45	44	44	52	49	50	69	63	66	74	65	69
10	47	44	45	53	50	52	69	67	68	76	72	74
11	45	44	44	54	52	53	70	68	69	74	73	74
12	44	43	44	54	52	53	71	63	67	74	72	73
13	47	43	44	58	53	55	71	69	70	75	71	73
14	46	45	45	59	57	58	71	68	70	77	75	76
15	47	45	45	63	58	60	73	67	71	75	72	74
16	47	45	46	62	59	60	70	65	68	71	61	66
17	49	46	47	61	60	61	71	68	69	68	63	66
18	52	46	48	61	59	60	71	69	70	69	65	68
19	52	48	49	61	58	59	71	68	70	68	61	65
20	52	48	49	62	57	59	73	70	71	64	56	58
21	55	48	51	62	59	60	74	71	73	57	55	56
22	55	50	52	61	58	60	78	69	73	55	54	54
23	54	50	51	62	60	61	84	78	81	53	51	52
24	57	52	54	60	58	60	77	73	75	53	51	52
25	---	---	---	62	59	60	78	74	76	55	53	53
26	---	---	---	64	59	62	79	73	75	56	55	56
27	---	---	---	61	56	59	75	67	72	55	54	55
28	---	---	---	63	57	60	68	66	67	55	54	55
29	---	---	---	63	61	62	74	69	71	57	54	55
30	---	---	---	64	62	63	72	70	71	57	54	55
31	---	---	---	65	63	64	74	70	72	---	---	---
MONTH	57	43	47	65	46	58	84	54	69	81	51	65

PERIOD MAXIMUM 84 MINIMUM 35 MEAN 56

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.3	7.1	7.2	7.4	7.3	7.4	---	---	---	---	---	---
2	7.3	7.2	7.2	7.4	7.3	7.3	---	---	---	---	---	---
3	7.3	7.2	7.2	7.4	7.3	7.4	---	---	---	---	---	---
4	7.3	7.2	7.3	7.4	7.3	7.4	---	---	---	---	---	---
5	7.3	7.2	7.3	7.4	7.4	7.4	---	---	---	---	---	---
6	7.3	7.2	7.3	7.4	7.3	7.4	---	---	---	---	---	---
7	7.3	7.2	7.3	7.4	7.3	7.4	---	---	---	---	---	---
8	7.3	7.2	7.3	7.4	7.3	7.3	---	---	---	---	---	---
9	7.3	7.2	7.3	7.3	7.3	7.3	---	---	---	---	---	---
10	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
11	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
12	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
13	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
14	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
15	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
16	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
17	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
18	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
19	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
20	7.4	7.2	7.3	---	---	---	---	---	---	---	---	---
21	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
22	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
23	7.3	7.3	7.3	---	---	---	---	---	---	---	---	---
24	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
25	7.4	7.3	7.4	---	---	---	---	---	---	---	---	---
26	7.4	7.2	7.4	---	---	---	---	---	---	---	---	---
27	7.4	7.3	7.4	---	---	---	---	---	---	---	---	---
28	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
29	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
30	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
31	7.4	7.3	7.4	---	---	---	---	---	---	---	---	---
MONTH	7.4	7.1	7.3	7.4	7.3	7.4	---	---	---	---	---	---

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	7.0	6.9	7.0
2	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
3	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
4	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
5	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
6	---	---	---	---	---	---	---	---	---	6.9	6.9	6.9
7	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
8	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
9	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
10	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
11	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
12	---	---	---	---	---	---	---	---	---	6.9	6.8	6.8
13	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
14	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
15	---	---	---	---	---	---	---	---	---	6.9	6.8	6.9
16	---	---	---	---	---	---	---	---	---	7.1	6.8	7.0
17	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
18	---	---	---	---	---	---	---	---	---	7.3	6.8	7.0
19	---	---	---	---	---	---	---	---	---	7.4	6.8	7.1
20	---	---	---	---	---	---	---	---	---	7.5	6.8	7.1
21	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
22	---	---	---	---	---	---	---	---	---	7.4	6.9	7.0
23	---	---	---	---	---	---	---	---	---	7.0	6.8	6.9
24	---	---	---	---	---	---	7.0	6.9	6.9	6.9	6.8	6.8
25	---	---	---	---	---	---	7.0	6.9	7.0	7.0	6.8	6.9
26	---	---	---	---	---	---	7.0	6.9	7.0	7.0	6.8	6.9
27	---	---	---	---	---	---	7.0	6.9	7.0	---	---	---
28	---	---	---	---	---	---	7.1	7.0	7.0	---	---	---
29	---	---	---	---	---	---	7.0	6.9	7.0	6.9	6.8	6.8
30	---	---	---	---	---	---	7.0	6.9	7.0	6.8	6.7	6.8
31	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
MONTH	---	---	---	---	---	---	7.1	6.9	7.0	7.5	6.7	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.8	6.6	6.7	---	---	---	7.2	7.2	7.2	7.0	6.9	7.0
2	6.8	6.6	6.7	---	---	---	7.2	7.1	7.2	7.0	6.9	7.0
3	6.8	6.6	6.7	---	---	---	7.2	7.1	7.1	7.1	6.9	7.0
4	6.8	6.7	6.7	---	---	---	7.1	7.0	7.1	7.1	6.9	7.0
5	6.8	6.7	6.7	---	---	---	7.1	7.0	7.1	7.1	6.9	7.0
6	6.8	6.7	6.8	---	---	---	7.2	7.1	7.1	7.1	6.8	7.0
7	6.8	6.7	6.8	---	---	---	7.2	7.1	7.1	7.1	6.9	7.0
8	6.8	6.7	6.7	7.3	7.1	7.2	7.2	7.1	7.1	7.1	6.8	6.9
9	6.7	6.7	6.7	7.3	7.2	7.2	7.2	7.1	7.1	6.9	6.8	6.9
10	6.8	6.7	6.7	7.2	7.0	7.1	7.2	7.0	7.1	7.0	6.8	6.9
11	6.8	6.7	6.7	7.1	6.9	7.0	7.1	7.0	7.0	6.9	6.8	6.8
12	6.8	6.7	6.7	7.1	7.0	7.0	7.1	7.0	7.1	6.9	6.8	6.8
13	6.8	6.7	6.7	7.0	7.0	7.0	7.1	7.1	7.1	6.9	6.9	6.9
14	6.8	6.7	6.7	7.1	7.0	7.0	7.2	7.1	7.1	7.0	6.9	6.9
15	6.9	6.6	6.7	7.1	7.0	7.1	7.2	7.1	7.1	7.0	6.9	6.9
16	6.8	6.6	6.7	7.2	7.0	7.1	7.2	7.0	7.1	7.0	6.8	7.0
17	6.9	6.7	6.8	7.2	7.0	7.1	7.2	7.0	7.1	7.0	6.8	6.9
18	7.0	6.7	6.9	7.1	7.1	7.1	7.2	7.0	7.1	7.0	6.8	6.9
19	7.0	6.7	6.8	7.2	7.0	7.1	7.1	7.0	7.1	7.1	6.9	6.9
20	7.0	6.7	6.8	7.2	7.0	7.1	7.1	7.0	7.1	7.0	7.0	7.0
21	7.0	6.7	6.8	7.2	7.0	7.1	7.1	7.0	7.0	7.0	7.0	7.0
22	6.9	6.8	6.8	7.1	7.0	7.0	7.1	6.9	7.0	7.0	6.8	6.9
23	6.9	6.7	6.8	7.1	7.0	7.0	7.1	7.0	7.0	6.8	6.7	6.7
24	7.0	6.8	6.9	7.1	7.0	7.0	7.1	7.0	7.1	6.8	6.7	6.7
25	---	---	---	7.1	7.0	7.1	7.2	7.0	7.1	6.8	6.7	6.8
26	---	---	---	7.2	7.0	7.1	7.2	7.0	7.1	6.9	6.8	6.8
27	---	---	---	7.1	7.0	7.1	7.2	7.0	7.1	6.9	6.8	6.8
28	---	---	---	7.2	7.0	7.1	7.2	7.0	7.1	6.9	6.8	6.8
29	---	---	---	7.2	7.1	7.1	7.1	6.9	7.0	7.0	6.9	7.0
30	---	---	---	7.2	7.1	7.2	7.0	6.9	7.0	7.0	7.0	7.0
31	---	---	---	7.2	7.1	7.2	7.1	6.9	7.0	---	---	---
MONTH	7.0	6.6	6.7	7.3	6.9	7.1	7.2	6.9	7.1	7.1	6.7	6.9

PERIOD MAXIMUM 7.5 MINIMUM 6.6 MEAN 7.0

PENOBSCOT RIVER BASIN

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	9.0	7.5	8.0
2	---	---	---	---	---	---	---	---	---	9.5	8.0	9.0
3	---	---	---	---	---	---	---	---	---	10.5	9.0	10.0
4	---	---	---	---	---	---	---	---	---	11.5	9.5	10.5
5	---	---	---	---	---	---	---	---	---	11.0	10.5	10.5
6	---	---	---	---	---	---	---	---	---	10.5	10.0	10.5
7	---	---	---	---	---	---	---	---	---	11.5	10.0	10.5
8	---	---	---	---	---	---	---	---	---	12.0	11.0	11.5
9	---	---	---	---	---	---	---	---	---	12.5	11.0	11.5
10	---	---	---	---	---	---	---	---	---	13.5	11.5	12.5
11	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
12	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
13	---	---	---	---	---	---	---	---	---	14.0	12.0	13.0
14	---	---	---	---	---	---	---	---	---	14.5	12.5	13.5
15	---	---	---	---	---	---	---	---	---	13.5	13.0	13.5
16	---	---	---	---	---	---	---	---	---	13.5	11.5	12.5
17	---	---	---	---	---	---	---	---	---	15.0	12.5	13.5
18	---	---	---	---	---	---	---	---	---	16.0	14.0	15.0
19	---	---	---	---	---	---	---	---	---	16.5	14.0	15.0
20	---	---	---	---	---	---	---	---	---	16.5	14.0	15.5
21	---	---	---	---	---	---	---	---	---	17.0	14.5	15.5
22	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
23	---	---	---	---	---	---	---	---	---	18.0	16.5	17.5
24	---	---	---	---	---	---	12.0	11.5	12.0	17.5	16.0	16.5
25	---	---	---	---	---	---	12.0	11.0	11.5	16.5	15.5	16.0
26	---	---	---	---	---	---	12.5	11.0	12.0	17.5	15.5	16.5
27	---	---	---	---	---	---	12.5	10.5	11.5	---	---	---
28	---	---	---	---	---	---	10.5	9.0	9.5	20.5	18.5	19.5
29	---	---	---	---	---	---	10.5	8.0	8.5	20.0	19.5	20.0
30	---	---	---	---	---	---	9.0	---	---	21.0	19.0	20.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	12.5	8.0	11.0	21.0	7.5	14.0

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.0	20.0	21.0	---	---	---	22.5	21.5	22.0	20.5	19.5	20.0
2	22.5	21.0	22.0	---	---	---	22.5	21.5	22.0	20.0	19.5	20.0
3	22.0	21.0	21.5	---	---	---	22.5	20.5	21.5	20.0	19.0	19.5
4	20.5	18.5	19.5	---	---	---	22.5	21.0	21.5	19.5	19.0	19.0
5	18.5	17.5	18.0	---	---	---	23.0	22.0	22.5	19.5	19.0	19.0
6	18.0	17.0	17.5	---	---	---	23.5	22.5	23.0	19.5	19.0	19.0
7	19.0	17.0	17.5	---	---	---	23.5	22.5	23.5	20.5	19.0	19.5
8	18.5	17.5	18.0	24.0	23.0	23.5	23.5	22.5	23.5	20.5	20.0	20.5
9	18.0	17.5	17.5	24.5	23.5	24.0	23.5	22.5	23.0	20.5	20.5	20.5
10	18.0	17.0	17.0	25.5	24.0	24.5	23.5	22.5	23.0	21.5	20.5	21.0
11	18.0	16.5	17.0	25.5	24.5	25.0	23.0	22.5	23.0	21.5	20.5	21.0
12	18.0	17.5	18.0	25.0	24.5	24.5	23.0	22.0	22.5	20.5	20.0	20.5
13	19.5	17.5	18.0	24.0	24.0	24.0	23.5	22.5	23.0	20.0	19.0	19.5
14	20.0	18.5	19.5	24.0	23.5	24.0	23.5	22.5	23.5	19.5	19.0	19.5
15	21.5	19.5	20.5	24.0	23.5	23.5	24.5	23.0	24.0	19.5	19.0	19.0
16	21.5	20.0	21.0	24.0	23.0	23.5	25.5	24.0	25.0	20.0	19.0	19.5
17	21.5	20.0	20.5	24.5	23.0	24.0	27.0	25.5	26.0	20.0	19.0	19.5
18	22.0	20.0	21.0	24.5	23.5	24.0	27.5	26.5	27.0	19.5	18.5	19.0
19	22.5	21.0	21.5	25.0	24.0	24.5	27.5	26.5	27.0	19.0	17.5	18.0
20	23.0	21.5	22.5	25.0	23.5	24.0	27.0	26.0	26.5	17.5	16.0	16.5
21	23.5	21.5	23.0	23.5	22.5	23.0	26.5	25.5	25.5	16.0	15.5	15.5
22	23.5	22.0	23.0	22.0	21.5	21.5	25.5	24.0	24.5	15.5	15.0	15.0
23	23.5	22.5	23.0	21.5	21.0	21.5	24.0	22.5	23.5	15.5	15.0	15.0
24	24.0	22.5	23.0	23.0	21.0	22.0	22.5	21.0	22.0	16.0	15.0	15.5
25	---	---	---	24.5	22.5	23.5	21.0	20.0	20.5	15.5	14.5	15.0
26	---	---	---	24.5	24.0	24.5	20.5	19.5	20.0	14.5	13.0	13.5
27	---	---	---	24.5	23.5	24.0	20.0	19.5	19.5	13.0	12.0	12.5
28	---	---	---	24.0	23.0	23.5	20.0	19.5	19.5	13.5	11.5	12.5
29	---	---	---	23.5	22.5	23.0	20.0	19.0	19.5	15.0	13.0	13.5
30	---	---	---	23.0	22.0	22.5	20.0	19.0	19.5	15.0	14.5	15.0
31	---	---	---	22.5	22.0	22.0	20.5	20.0	20.0	---	---	---
MONTH	24.0	16.5	20.0	25.5	21.0	23.5	27.5	19.0	23.0	21.5	11.5	18.0

PERIOD MAXIMUM 27.5 MINIMUM 3.5 MEAN 17.0

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.3	10.1	10.2	12.3	11.9	12.1	---	---	---	---	---	---
2	10.4	10.2	10.3	12.1	11.8	11.9	---	---	---	---	---	---
3	10.5	10.2	10.4	12.4	12.1	12.2	---	---	---	---	---	---
4	10.3	10.2	10.3	12.4	12.2	12.3	---	---	---	---	---	---
5	10.4	10.3	10.3	12.8	12.4	12.7	---	---	---	---	---	---
6	10.8	10.4	10.6	13.0	12.8	12.9	---	---	---	---	---	---
7	11.3	10.8	11.0	13.2	13.0	13.0	---	---	---	---	---	---
8	11.2	10.9	11.0	13.1	12.8	13.0	---	---	---	---	---	---
9	11.0	10.9	10.9	12.8	12.5	12.6	---	---	---	---	---	---
10	11.5	11.0	11.3	---	---	---	---	---	---	---	---	---
11	11.8	11.5	11.7	---	---	---	---	---	---	---	---	---
12	11.9	11.5	11.7	---	---	---	---	---	---	---	---	---
13	11.6	11.3	11.5	---	---	---	---	---	---	---	---	---
14	11.3	11.0	11.2	---	---	---	---	---	---	---	---	---
15	11.2	11.0	11.1	---	---	---	---	---	---	---	---	---
16	11.3	11.1	11.2	---	---	---	---	---	---	---	---	---
17	11.6	11.2	11.4	---	---	---	---	---	---	---	---	---
18	12.0	11.6	11.8	---	---	---	---	---	---	---	---	---
19	12.2	11.8	12.0	---	---	---	---	---	---	---	---	---
20	12.1	11.7	11.9	---	---	---	---	---	---	---	---	---
21	11.9	11.6	11.7	---	---	---	---	---	---	---	---	---
22	11.8	11.4	11.6	---	---	---	---	---	---	---	---	---
23	11.4	11.3	11.4	---	---	---	---	---	---	---	---	---
24	11.7	11.4	11.6	---	---	---	---	---	---	---	---	---
25	12.0	11.7	11.8	---	---	---	---	---	---	---	---	---
26	12.2	11.8	12.0	---	---	---	---	---	---	---	---	---
27	11.9	11.8	11.9	---	---	---	---	---	---	---	---	---
28	11.9	11.7	11.8	---	---	---	---	---	---	---	---	---
29	12.0	11.6	11.8	---	---	---	---	---	---	---	---	---
30	11.7	11.5	11.6	---	---	---	---	---	---	---	---	---
31	12.2	11.8	12.0	---	---	---	---	---	---	---	---	---
MONTH	12.2	10.1	11.3	13.2	11.8	12.5	---	---	---	---	---	---

PENOBSCOT RIVER BASIN

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	11.4	11.2	11.3
2	---	---	---	---	---	---	---	---	---	11.4	11.2	11.3
3	---	---	---	---	---	---	---	---	---	11.3	11.0	11.2
4	---	---	---	---	---	---	---	---	---	11.2	10.8	11.1
5	---	---	---	---	---	---	---	---	---	11.0	10.9	10.9
6	---	---	---	---	---	---	---	---	---	11.0	10.8	10.9
7	---	---	---	---	---	---	---	---	---	11.0	10.7	10.9
8	---	---	---	---	---	---	---	---	---	10.9	10.6	10.7
9	---	---	---	---	---	---	---	---	---	10.8	10.5	10.6
10	---	---	---	---	---	---	---	---	---	10.5	10.2	10.4
11	---	---	---	---	---	---	---	---	---	10.5	10.2	10.3
12	---	---	---	---	---	---	---	---	---	10.3	10.2	10.2
13	---	---	---	---	---	---	---	---	---	10.7	9.9	10.3
14	---	---	---	---	---	---	---	---	---	10.2	9.7	10.0
15	---	---	---	---	---	---	---	---	---	9.8	9.7	9.8
16	---	---	---	---	---	---	---	---	---	10.4	9.8	10.1
17	---	---	---	---	---	---	---	---	---	10.1	9.4	9.8
18	---	---	---	---	---	---	---	---	---	9.8	9.4	9.6
19	---	---	---	---	---	---	---	---	---	9.9	9.4	9.6
20	---	---	---	---	---	---	---	---	---	10.0	9.3	9.6
21	---	---	---	---	---	---	---	---	---	9.9	9.1	9.5
22	---	---	---	---	---	---	---	---	---	9.5	8.9	9.2
23	---	---	---	---	---	---	---	---	---	9.4	8.9	9.1
24	---	---	---	---	---	---	---	---	---	9.4	9.0	9.3
25	---	---	---	---	---	---	10.8	10.6	10.7	9.7	9.4	9.5
26	---	---	---	---	---	---	10.7	10.5	10.6	9.7	9.3	9.5
27	---	---	---	---	---	---	10.7	10.4	10.6	---	---	---
28	---	---	---	---	---	---	10.7	10.5	10.6	---	---	---
29	---	---	---	---	---	---	11.0	10.7	10.8	9.0	8.5	8.8
30	---	---	---	---	---	---	11.2	11.0	11.1	8.7	8.5	8.6
31	---	---	---	---	---	---	---	---	---	8.8	8.4	8.6
MONTH	---	---	---	---	---	---	11.2	10.4	10.7	11.4	8.4	10.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.6	8.3	8.4	---	---	---	---	---	---	8.9	8.5	8.7
2	8.5	8.2	8.4	---	---	---	---	---	---	8.8	8.6	8.7
3	8.6	8.3	8.5	---	---	---	---	---	---	9.0	8.8	8.9
4	8.9	8.5	8.8	---	---	---	---	---	---	9.2	8.9	9.0
5	9.1	9.0	9.0	---	---	---	---	---	---	9.4	9.0	9.2
6	9.2	9.0	9.1	---	---	---	---	---	---	9.3	9.0	9.2
7	9.3	8.8	9.1	---	---	---	8.3	8.1	8.2	9.3	8.9	9.1
8	9.0	8.8	8.9	8.3	7.9	8.1	8.3	8.1	8.1	9.1	8.8	8.9
9	9.1	8.8	9.0	8.1	7.8	8.0	8.2	8.1	8.1	8.9	8.6	8.7
10	9.3	9.0	9.2	7.9	7.7	7.8	8.2	8.1	8.1	8.8	8.5	8.7
11	9.4	9.1	9.3	8.0	7.5	7.7	8.3	8.1	8.2	8.7	8.4	8.5
12	9.1	9.0	9.1	8.1	7.9	8.0	8.4	8.3	8.3	8.8	8.5	8.7
13	9.1	8.7	9.0	8.1	7.6	7.9	8.5	8.3	8.4	9.0	8.7	8.8
14	8.8	8.6	8.7	7.8	7.7	7.8	8.6	8.4	8.5	9.2	8.8	9.0
15	8.7	8.3	8.5	7.9	7.6	7.8	8.5	8.3	8.4	9.3	9.0	9.1
16	8.6	8.3	8.4	8.1	7.7	7.9	8.4	8.1	8.3	9.4	8.9	9.2
17	8.7	8.4	8.5	8.1	7.8	8.0	8.2	7.9	8.1	9.3	8.9	9.1
18	8.7	8.2	8.5	8.0	7.8	7.9	7.9	7.7	7.8	9.3	9.0	9.2
19	8.5	8.0	8.3	8.0	7.7	7.9	7.9	7.3	7.6	9.9	9.2	9.4
20	8.3	7.9	8.1	8.0	7.7	7.9	8.0	7.8	7.9	10.4	9.7	10.2
21	8.3	7.8	8.1	8.0	7.8	7.9	8.1	7.8	8.0	10.6	10.4	10.5
22	8.2	7.9	8.0	8.2	8.0	8.1	8.2	7.9	8.0	11.0	8.7	10.7
23	8.2	7.9	8.1	8.2	8.1	8.1	8.3	8.0	8.2	11.0	10.7	10.9
24	8.2	7.8	8.0	8.2	8.1	8.2	8.7	8.3	8.6	10.8	10.6	10.7
25	---	---	---	8.1	7.9	8.0	9.1	8.8	8.9	11.0	10.8	10.8
26	---	---	---	7.9	7.0	7.6	9.4	9.0	9.2	11.3	11.0	11.2
27	---	---	---	7.9	7.6	7.7	9.4	8.9	9.1	11.7	11.3	11.5
28	---	---	---	8.0	7.6	7.8	9.1	8.8	9.0	11.8	11.2	11.5
29	---	---	---	8.2	7.9	8.1	8.9	8.7	8.8	11.4	10.8	11.2
30	---	---	---	8.3	8.0	8.2	9.0	8.7	8.8	10.8	10.6	10.8
31	---	---	---	---	---	---	8.9	8.6	8.8	---	---	---
MONTH	9.4	7.8	8.6	8.3	7.0	7.9	9.4	7.3	8.4	11.8	8.4	9.7

PERIOD MAXIMUM 13.2 MINIMUM 7.0 MEAN 9.6

Reservoirs in Penobscot River Basin

- 01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi upstream from Millinocket and 42 mi northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft³. Records furnished by Great Northern Paper Co.
- 01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 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 1986 TO SEPTEMBER 1987

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, 1986.....	44,124	4,105	1,121
Oct. 31.....	41,562	2,331	1,175
Nov. 30.....	36,850	2,626	1,693
Dec. 31.....	34,825	3,196	1,529
Jan. 31, 1987.....	29,564	2,121	1,338
Feb. 28.....	22,580	1,823	1,066
Mar. 31.....	20,037	2,144	1,779
Apr. 30.....	47,924	5,688	1,720
May 31.....	45,657	5,886	2,101
June 30.....	43,331	5,593	1,984
July 31.....	38,627	4,831	1,984
Aug. 31.....	32,389	3,434	1,866
Sept. 30.....	29,622	2,029	1,284

* 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, Sourdnhunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Dole and Poland Ponds.

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank 50 ft 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. 14, Dec. 28 to Mar. 12. Records good except for periods of ice effect, Dec. 14, Dec. 28 to Mar. 12 and period of no gage-height record, Jan. 7 to Mar. 6, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--49 years, 249 ft³/s, 23.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,350 ft³/s, Apr. 1, 1987, gage height, 13.71 ft; 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)
Dec. 3	1700	1,270	5.35	Apr. 1	2000	*7,350	*13.71

Minimum discharge, 17 ft³/s, Sept. 6-8, gage height, 1.79 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	35	291	e255	e110	e73	6690	341	135	60	27	21
2	48	35	286	e235	e105	e98	6370	286	126	57	26	21
3	56	34	764	e220	e105	e96	4310	254	117	57	36	21
4	54	33	1060	e210	e100	e91	3050	236	110	56	36	19
5	50	32	860	e195	e100	e89	2330	239	116	56	35	19
6	41	35	814	e185	e97	e86	1840	440	121	54	32	18
7	37	36	735	e185	e95	e86	1650	463	109	49	29	18
8	34	37	626	e175	e94	e85	1500	381	102	47	28	18
9	34	52	496	e170	e94	e92	1320	339	114	47	29	28
10	34	67	462	e165	e93	e120	1140	304	116	45	31	34
11	32	58	406	e165	e92	e105	947	264	108	37	30	32
12	32	55	354	e160	e90	e100	780	237	99	35	28	28
13	32	54	306	e155	e90	101	656	218	97	35	26	26
14	36	51	e275	e155	e90	98	551	193	92	36	24	64
15	34	48	237	e155	e88	95	470	177	85	39	25	65
16	36	46	217	e150	e86	94	416	173	80	37	25	45
17	35	46	196	e150	e83	93	401	159	86	35	25	38
18	34	47	182	e150	e81	93	450	148	81	34	24	33
19	32	46	208	e145	e80	94	442	136	75	33	23	31
20	32	42	230	e145	e78	103	379	124	70	31	24	48
21	32	74	208	e145	e76	120	337	114	61	32	24	282
22	32	126	192	e140	e75	164	301	108	55	31	23	188
23	31	105	174	e140	e74	213	266	103	73	33	23	133
24	31	138	165	e135	e72	285	240	111	77	32	22	111
25	31	187	344	e135	e72	384	221	118	67	31	21	93
26	35	160	602	e135	e72	495	198	107	59	37	20	78
27	37	458	483	e130	e72	667	180	99	60	42	20	68
28	41	360	e430	e125	e72	878	167	116	80	38	20	61
29	42	325	e370	e125	---	1030	218	125	75	33	21	55
30	40	324	e320	e120	---	1280	324	130	65	30	22	53
31	37	---	e280	e115	---	2530	---	149	---	29	21	---
TOTAL	1166	3146	12573	4970	2436	9938	38144	6392	2711	1248	800	1749
MEAN	37.6	105	406	160	87.0	321	1271	206	90.4	40.3	25.8	58.3
MAX	56	458	1060	255	110	2530	6690	463	135	60	36	282
MIN	31	32	165	115	72	73	167	99	55	29	20	18
CFSM	.26	.72	2.80	1.11	.60	2.21	8.77	1.42	.62	.28	.18	.40
IN.	.30	.81	3.23	1.28	.62	2.55	9.79	1.64	.70	.32	.21	.45

CAL YR 1986 TOTAL 94228 MEAN 258 MAX 2600 MIN 29 CFSM 1.78 IN. 24.17
WTR YR 1987 TOTAL 85273 MEAN 234 MAX 6690 MIN 18 CFSM 1.61 IN. 21.88

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.

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, 17.55 ft, May 9; minimum observed, 10.95 ft, Mar. 22.

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

10.0	0	15.0	15,700
11.0	3,100	16.0	18,900
12.0	6,230	17.0	22,110
13.0	9,370	18.0	25,380
14.0	12,530		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.93	14.06	15.01	16.05	14.85	12.47	12.10	17.16	17.40	16.99	16.12	15.20
2	14.92	14.06	15.07	16.04	14.81	12.43	12.65	17.26	17.40	16.96	16.09	15.19
3	14.83	14.08	15.03	16.04	14.75	12.34	12.90	17.36	17.40	16.90	16.05	15.16
4	14.76	14.11	15.20	16.04	14.67	12.23	13.15	17.44	17.36	16.88	16.10	15.13
5	14.73	14.12	15.24	15.98	14.66	12.15	13.35	17.48	17.40	16.92	16.06	15.10
6	14.66	14.15	15.34	15.98	14.58	12.06	13.50	17.50	17.40	16.96	16.03	15.06
7	14.64	14.20	15.36	15.95	14.52	11.98	13.70	17.52	17.40	16.89	16.00	15.05
8	14.60	14.20	15.46	15.93	14.48	11.89	13.92	17.54	17.36	16.87	15.96	15.04
9	14.58	14.25	15.46	15.89	14.42	11.82	14.10	17.55	17.38	16.85	16.02	15.07
10	14.52	14.27	15.59	15.88	14.32	11.73	14.30	17.54	17.42	16.80	16.01	15.16
11	14.45	14.32	15.63	15.86	14.29	11.63	14.48	17.48	17.39	16.75	15.97	15.15
12	14.36	14.36	15.70	15.86	14.19	11.53	14.62	17.44	17.41	16.71	15.92	15.12
13	14.32	14.38	15.70	15.84	14.10	11.45	14.76	17.42	17.44	16.68	15.90	15.11
14	14.28	14.34	15.76	15.76	14.00	11.36	14.95	17.38	17.47	16.64	15.84	15.20
15	14.24	14.34	15.82	15.75	13.89	11.32	15.12	17.36	17.46	16.65	15.83	15.16
16	14.18	14.34	15.86	15.70	13.78	11.26	15.28	17.34	17.43	16.59	15.81	15.15
17	14.14	14.36	15.89	15.63	13.67	11.20	15.42	17.34	17.38	16.55	15.77	15.18
18	14.10	14.42	15.91	15.60	13.57	11.13	15.57	17.30	17.32	16.51	15.74	15.17
19	14.07	14.42	15.93	15.57	13.50	11.10	15.75	17.28	17.26	16.48	15.70	15.12
20	14.03	14.42	15.95	15.51	13.40	11.04	15.94	17.26	17.24	16.41	15.65	15.08
21	14.00	14.56	15.98	15.48	13.26	10.98	16.05	17.24	17.17	16.38	15.63	15.18
22	13.97	14.60	16.00	15.44	13.14	10.95	16.16	17.23	17.11	16.35	15.59	15.20
23	13.97	14.64	16.00	15.42	13.08	10.97	16.30	17.23	17.07	16.31	15.55	15.20
24	13.97	14.70	16.00	15.38	12.92	11.01	16.45	17.28	17.01	16.30	15.49	15.19
25	14.00	14.71	16.02	15.34	12.80	11.04	16.58	17.33	16.94	16.27	15.42	15.16
26	14.02	14.72	16.06	15.29	12.69	11.07	16.67	17.34	16.88	16.30	15.40	15.14
27	14.02	14.82	16.09	15.20	12.60	11.15	16.77	17.32	16.83	16.26	15.36	15.11
28	14.05	14.92	16.10	15.10	12.49	11.22	16.84	17.32	16.95	16.26	15.32	15.11
29	14.05	14.97	16.12	15.03	---	11.29	16.94	17.30	16.98	16.20	15.30	15.11
30	14.01	15.00	16.11	15.00	---	11.36	17.08	17.35	17.03	16.17	15.29	15.05
31	14.06	---	16.10	14.92	---	11.44	---	17.41	---	16.15	15.27	---
MAX	14.93	15.00	16.12	16.05	14.85	12.47	17.08	17.55	17.47	16.99	16.12	15.20
MIN	13.97	14.06	15.01	14.92	12.49	10.95	12.10	17.16	16.83	16.15	15.27	15.04
*	12,722	15,700	19,220	15,452	7,759	4,484	22,366	23,433	22,206	19,380	16,564	15,860
#	-2,761	+2,978	+3,520	-3,768	-7,693	-3,275	+17,882	+1,067	-1,227	-2,826	-2,816	-704
+	62	63	68	67	42	10	39	78	78	75	70	67

CAL YR 1986 # -1,478

WTR YR 1987 # + 377

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

Change in contents, in millions of cubic feet

+ Diversion, in cubic feet per second, through gates in dam at West Outlet.

KENNEBEC RIVER BASIN

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.--No estimated daily discharges. Records excellent. 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.--86 years, 2,619 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, 20,400 ft³/s, Apr. 1, gage height, 9.87 ft; minimum daily, 161 ft³/s, Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4490	1860	1310	2190	1570	1480	15700	934	4100	2750	956	1330
2	4180	1530	1300	2930	3090	4020	14000	1040	4100	2870	191	1430
3	3690	3040	1110	2210	3610	4050	9360	1500	2690	3450	1600	755
4	3730	2400	645	1830	3360	4230	4750	2200	3720	3050	1990	450
5	2490	2460	994	2800	3190	4030	3820	4210	3980	2360	1730	497
6	4130	1830	982	3080	3000	4010	4470	4170	2200	3280	1360	175
7	4070	1500	876	3090	1990	2600	3870	3890	2120	3710	1160	494
8	4130	1520	1230	2890	1750	1940	3530	4860	4220	3730	630	1210
9	3490	492	1400	2870	2870	3610	2680	4710	4980	3820	263	1720
10	4400	2300	1350	1480	3510	4190	2330	4830	4530	3070	1570	1770
11	3690	1700	1070	887	3450	4000	2220	4670	3290	1930	1760	644
12	3210	1770	474	3120	3200	4250	2330	4620	3580	332	1640	550
13	3600	1230	570	3040	3800	2410	1960	4540	2010	3420	1620	273
14	3420	1380	729	3020	3300	2610	2190	4520	1410	2880	1580	1460
15	3480	957	1160	3180	4540	1510	1700	5530	4440	1850	518	936
16	4290	430	1260	3010	4540	3190	2060	4010	4920	1710	182	746
17	4350	1810	1720	1750	4280	3190	1420	3040	5510	1610	1570	724
18	3870	1470	1820	1780	4830	3070	1220	3730	4070	1310	1860	883
19	1630	1630	2280	3050	4320	3140	1200	3930	3920	717	1510	664
20	5020	979	731	3500	4080	2580	1270	3800	3680	2710	774	1290
21	4050	1000	381	3530	3510	1740	834	3730	3850	2610	727	1680
22	3630	681	2220	2250	3060	2100	691	3230	4300	3470	464	1770
23	2870	309	1950	2680	4060	2310	1020	2600	4270	2440	162	1030
24	3070	1140	1640	2240	4700	1110	1520	2530	4260	1690	581	1100
25	2090	1200	1150	1930	5230	606	954	2840	4320	698	1950	1090
26	436	1570	2050	3660	4770	755	916	3660	4120	254	1480	768
27	2780	1210	998	4260	4880	918	955	3530	2950	1740	1060	354
28	3550	1050	750	3520	2710	1910	886	3850	1820	1600	819	1450
29	3300	853	2760	3260	---	1560	1260	3960	2380	1560	447	2090
30	2450	634	2970	3290	---	2230	927	2760	2270	1520	161	2250
31	2270	---	2920	2510	---	4200	---	3450	---	1060	1270	---
TOTAL	105856	41935	42800	84837	101200	83549	92043	110874	108010	69201	33585	31583
MEAN	3415	1398	1381	2737	3614	2695	3068	3577	3600	2232	1083	1053
MAX	5020	3040	2970	4260	5230	4250	15700	5530	5510	3820	1990	2250
MIN	436	309	381	887	1570	606	691	934	1410	254	161	175

CAL YR 1986 TOTAL 1031987 MEAN 2827 MAX 8460 MIN 245
WTR YR 1987 TOTAL 905473 MEAN 2481 MAX 15700 MIN 161

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 discharge: July 31. Records good except for day of doubtful gage-height record, July 31, which is 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.--59 years (water years 1908-09, 1931 to current year), 4,461 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, 63,400 ft³/s, Apr. 1, gage height, 15.46 ft; minimum daily, 1,080 ft³/s, Sept. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4420	3860	2290	3330	4990	5180	56700	5150	4950	4190	3220	1080
2	4380	3920	1910	3230	4830	5290	33900	5140	5610	4270	3170	1350
3	4260	3730	1820	3480	4590	4860	23600	4980	5480	4300	3180	1400
4	4150	3570	2600	3380	4670	4930	11800	4980	5000	4100	3000	2240
5	4320	3530	2960	3210	5200	4970	8020	5020	5050	4120	2610	1690
6	4180	3560	2480	3590	4750	4680	10400	5350	5110	4220	2720	1660
7	4110	3470	2000	3400	4670	4380	14300	6650	5030	4280	2740	1690
8	4440	3500	1790	3670	4790	4440	9180	7200	5240	4420	2550	1640
9	4220	3510	1880	3610	4700	4650	8050	6530	5340	4660	2710	2540
10	4350	3190	1920	3480	5170	6120	7240	6250	5440	4330	2580	1630
11	4260	3140	1950	3510	5040	5240	5200	6000	5810	4070	2820	1550
12	4360	3160	1700	3910	5390	4230	6210	6040	5360	3800	2770	1610
13	4230	2970	1870	4070	5200	3420	6360	5940	4930	3990	2750	1540
14	4240	3230	1780	4340	5950	3400	5700	5980	4960	3680	2550	1580
15	4210	3310	2040	4320	6560	3600	5450	5910	5460	3660	2530	2830
16	4270	3290	1970	4440	6500	3610	5780	6010	5240	3700	2700	2360
17	4240	3270	1900	4470	5920	3580	5810	5080	5170	3670	2480	2050
18	4340	3070	2610	4520	6090	3360	6000	4560	5410	3690	2320	1930
19	4260	2970	2870	4560	5770	3230	5880	4730	5330	3480	1970	1870
20	4180	2700	2780	4420	5900	2930	5890	4640	5230	3600	1670	1890
21	4230	2580	2630	4540	5790	2800	6290	4590	5270	3730	2080	1890
22	4090	2710	2900	4750	5810	2870	6090	4670	5340	3540	2010	1850
23	3920	2730	2850	4710	5220	2730	5540	4840	5340	3370	1950	1940
24	3760	2540	2920	4870	5620	2630	4750	4760	5350	3280	1890	1750
25	3870	2480	2350	4720	5780	3160	4110	4420	5070	3100	1960	2030
26	3970	2510	3010	4740	5130	3970	4440	4460	4880	3080	1870	1900
27	3800	2250	2900	4900	5190	4360	4450	5100	4510	3180	2050	1800
28	3890	2010	2690	4850	5170	5120	4650	4820	4420	3120	1920	1820
29	3880	1940	3000	4500	---	5390	4730	5050	4280	3240	1990	1840
30	3890	1980	3190	4750	---	5960	5100	5040	4160	3160	1910	1910
31	4000	---	2870	4610	---	18500	---	5020	---	e3180	1820	---
TOTAL	128720	90680	74430	128880	150390	143590	291620	164910	153770	116210	74490	54860
MEAN	4152	3023	2401	4157	5371	4632	9721	5320	5126	3749	2403	1829
MAX	4440	3920	3190	4900	6560	18500	56700	7200	5810	4660	3220	2830
MIN	3760	1940	1700	3210	4590	2630	4110	4420	4160	3080	1670	1080

CAL YR 1986 TOTAL 1679920 MEAN 4603 MAX 14600 MIN 1700
WTR YR 1987 TOTAL 1572550 MEAN 4308 MAX 56700 MIN 1080

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: Nov. 27, 28, Dec. 1-3, and Dec. 6 to Apr. 2. Records good except for periods of ice effect, Nov. 27, 28, Dec. 1-3, and Dec. 6 to Mar. 31, and period of no gage-height record Apr. 1, 2, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--66 years (water years 1903-06, 1926-current year), 722 ft³/s, 27.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,700 ft³/s, Apr. 1, 1987, gage height, 26.66 ft; maximum gage height, 27.78 ft Feb. 21, 1978 (ice jam); minimum discharge, 18 ft³/s, Oct. 29, 1929, gage height, 2.02 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base 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)
Dec. 3	2215	10,300	11.48	Apr. 7	0300	9,510	11.05
Apr. 1	unknown	*50,700	*26.66				

Minimum discharge, 47 ft³/s, Sept. 8, gage height, 2.43 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	207	e2180	e580	e195	e130	e36000	1190	484	367	90	65
2	293	203	e1810	e520	e190	e200	e10900	1320	399	304	86	60
3	272	204	e3750	e460	e185	e280	6750	1190	355	273	96	57
4	334	200	7800	e430	e180	e250	4470	1020	325	301	136	53
5	499	192	5260	e390	e180	e220	3650	899	430	459	140	51
6	426	181	e4180	e380	e180	e200	6270	1840	479	346	109	49
7	378	197	e3270	e365	e175	e190	8260	2510	367	271	95	48
8	334	207	e3300	e350	e170	e225	5240	1760	331	236	88	47
9	305	273	e2850	e340	e165	e290	3320	1290	657	217	86	96
10	285	348	e2450	e325	e165	e560	2290	1060	663	252	86	283
11	266	270	e2100	e315	e160	e520	1950	914	490	368	85	144
12	255	234	e1850	e305	e160	e485	2380	714	385	339	86	104
13	248	224	e1600	e300	e155	e420	2330	599	350	319	78	99
14	246	213	e1400	e290	e155	e305	1860	525	326	269	72	914
15	255	186	e1220	e280	e150	e360	1540	503	351	253	71	477
16	247	222	e1100	e275	e150	e340	1210	541	305	261	70	254
17	234	218	e990	e270	e145	e315	1050	476	338	219	69	187
18	225	209	e880	e260	e145	e310	1830	425	328	198	65	156
19	216	214	e755	e255	e140	e300	2040	380	274	187	62	137
20	211	234	e675	e245	e140	e300	1850	348	255	177	64	136
21	207	147	e605	e240	e140	e400	1470	324	238	180	60	612
22	208	188	e550	e240	e140	e1000	1300	310	214	199	58	845
23	210	223	e500	e235	e135	e2800	939	306	237	200	56	705
24	209	220	e460	e230	e135	e2900	808	1180	294	189	54	507
25	203	269	e640	e235	e130	e2800	783	1070	248	174	52	274
26	198	307	e1400	e220	e130	e3400	664	759	230	168	51	210
27	192	e2300	e1500	e215	e130	e4000	598	592	259	175	50	152
28	235	e3750	e1100	e210	e130	e3600	580	523	1540	135	50	142
29	259	2980	e905	e205	---	e3900	649	496	820	106	54	133
30	238	2680	e750	e200	---	e4700	834	672	485	99	61	129
31	220	---	e640	e200	---	e10700	---	723	---	95	69	---
TOTAL	8233	17500	58470	9365	4355	46400	113815	26459	12457	7336	2349	7126
MEAN	266	583	1886	302	156	1497	3794	854	415	237	75.8	238
MAX	499	3750	7800	580	195	10700	36000	2510	1540	459	140	914
MIN	192	147	460	200	130	130	580	306	214	95	50	47
CFSM	.75	1.65	5.34	.86	.44	4.24	10.7	2.42	1.18	.67	.21	.67
IN.	.87	1.84	6.16	.99	.46	4.89	11.99	2.79	1.31	.77	.25	.75

CAL YR 1986 TOTAL 301793 MEAN 827 MAX 7800 MIN 67 CFSM 2.34 IN. 31.80
WTR YR 1987 TOTAL 313865 MEAN 860 MAX 36000 MIN 47 CFSM 2.44 IN. 33.08

e Estimated

01048000 SANDY RIVER NEAR MERCER, ME

LOCATION.--Lat 44°42'26", long 69°56'21", Somerset County, Hydrologic Unit 01030003, on right bank 0.9 mi upstream from Bog Stream, 2.1 mi north of Mercer, and 8.6 mi upstream from mouth.

DRAINAGE AREA.--514 mi².

PERIOD OF RECORD.--October 1929 to September 1979, June to September 1987.

REVISED RECORDS.--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--51 years, 976 ft³/s 25.79 in/yr (water years 1928-1979).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft³/s, Mar. 19, 1936, gage height, 16.75 ft, from rating curve extended above 15,000 ft³/s on basis of records for stations on Kennebec River at Bingham and Waterville, Carabasset River near North Anson, and Sebasticook River near Pittsfield; maximum gage height, 18.89 ft, Feb. 12, 1979, from floodmark (backwater from ice); minimum discharge, 32 ft³/s Sept. 22-26, 1939, gage height, 2.15 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1, 1987 reached a stage of 19.25 ft, present datum, from floodmarks, discharge, 51,100 ft³/s.

EXTREMES FOR CURRENT YEAR.--During period Jun. to Sept., maximum discharge 3,070 ft³/s, Jun. 28, gage height, 6.11 ft.; minimum 57 ft³/s, Sept. 8, gage height, 2.56 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	567	146	81
2	---	---	---	---	---	---	---	---	---	437	134	79
3	---	---	---	---	---	---	---	---	---	369	134	72
4	---	---	---	---	---	---	---	---	---	357	152	68
5	---	---	---	---	---	---	---	---	---	493	226	65
6	---	---	---	---	---	---	---	---	---	525	187	62
7	---	---	---	---	---	---	---	---	---	373	148	59
8	---	---	---	---	---	---	---	---	---	302	137	58
9	---	---	---	---	---	---	---	---	---	268	145	82
10	---	---	---	---	---	---	---	---	---	446	126	221
11	---	---	---	---	---	---	---	---	---	822	117	270
12	---	---	---	---	---	---	---	---	---	623	110	176
13	---	---	---	---	---	---	---	---	---	655	110	140
14	---	---	---	---	---	---	---	---	---	468	103	871
15	---	---	---	---	---	---	---	---	---	393	97	932
16	---	---	---	---	---	---	---	---	---	492	93	426
17	---	---	---	---	---	---	---	---	---	382	90	289
18	---	---	---	---	---	---	---	---	---	301	86	224
19	---	---	---	---	---	---	---	---	---	263	82	189
20	---	---	---	---	---	---	---	---	---	236	84	177
21	---	---	---	---	---	---	---	---	---	229	80	451
22	---	---	---	---	---	---	---	---	---	234	77	759
23	---	---	---	---	---	---	---	---	---	253	75	472
24	---	---	---	---	---	---	---	---	---	238	69	338
25	---	---	---	---	---	---	---	---	---	367	65	266
26	---	---	---	---	---	---	---	---	293	224	63	219
27	---	---	---	---	---	---	---	---	301	244	61	188
28	---	---	---	---	---	---	---	---	2020	221	60	171
29	---	---	---	---	---	---	---	---	1470	193	64	161
30	---	---	---	---	---	---	---	---	806	171	69	158
31	---	---	---	---	---	---	---	---	---	158	72	---
TOTAL	---	---	---	---	---	---	---	---	---	11164	3262	7724
MEAN	---	---	---	---	---	---	---	---	---	360	105	257
MAX	---	---	---	---	---	---	---	---	---	822	226	932
MIN	---	---	---	---	---	---	---	---	---	158	60	58
CFSM	---	---	---	---	---	---	---	---	---	.70	.20	.50
IN.	---	---	---	---	---	---	---	---	---	.81	.24	.56

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: Jan. 3-6, 9, 14-15, Jan. 17 to Mar. 5, Mar. 10, and Aug. 12-14. Records good except for periods of no gage-height record, Aug. 12-14, and periods of ice effect, Jan. 3-6, 9, 14-15, and Jan. 17 to Mar. 5, and Mar. 10, 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.--58 years (water years 1930 to current year), 959 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft³/s, Apr. 3, 1987, gage height, 15.53 ft; minimum daily, 4.5 ft³/s, Nov. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,600 ft³/s, Apr. 3, 15.53 ft, minimum daily, 23 ft³/s, Aug. 22 and Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	854	401	1360	594	e275	e240	9250	830	571	301	184	226
2	904	353	1380	579	e275	e235	14200	837	504	288	175	101
3	958	180	1610	e490	e275	e230	17200	820	519	281	164	23
4	904	69	2450	e490	e265	e225	16800	789	508	277	162	24
5	809	114	3040	e475	e260	e215	14600	704	515	273	159	25
6	728	208	3260	e450	e260	207	12200	681	519	252	155	26
7	837	278	3110	440	e285	198	10300	760	513	240	152	27
8	921	370	2830	436	e290	203	8850	1010	505	232	150	104
9	945	432	2520	e430	e250	221	7750	1030	508	225	148	225
10	929	416	2210	434	e265	e235	6910	991	542	218	144	219
11	799	375	1990	430	e265	252	6060	926	520	217	78	208
12	671	346	1720	424	e265	288	5190	869	505	214	e68	201
13	484	347	1360	422	e265	290	4410	802	457	201	e56	344
14	463	344	998	e415	e265	285	3720	759	388	185	e45	551
15	483	336	796	e380	e265	260	3020	743	343	182	30	534
16	441	284	712	378	e265	280	2390	718	243	182	32	494
17	463	268	654	e370	e260	278	1890	704	179	180	130	490
18	442	266	541	e360	e260	272	1570	688	187	113	191	484
19	320	192	387	e330	e260	257	1450	614	187	32	184	532
20	275	149	350	e290	e260	278	1360	530	191	35	168	699
21	298	167	381	e290	e260	293	1240	417	196	38	82	864
22	310	194	379	e230	e255	551	1090	361	199	41	23	820
23	479	207	378	e190	e255	852	1000	374	204	45	24	811
24	548	277	392	e340	e250	935	928	410	233	188	25	758
25	440	411	379	e310	e250	1180	866	475	259	247	26	781
26	287	575	392	e305	e250	1600	792	612	234	197	130	906
27	362	1080	635	e300	e245	2250	724	557	227	206	103	905
28	402	1500	697	e285	e240	2820	676	491	233	219	29	841
29	412	1580	712	e285	---	3420	655	493	312	107	27	900
30	431	1520	671	e280	---	4070	744	515	318	33	28	960
31	472	---	630	e275	---	5130	---	526	---	128	139	---
TOTAL	18071	13239	38924	11707	7335	28050	157835	21036	10819	5577	3211	14083
MEAN	583	441	1256	378	262	905	5261	679	361	180	104	469
MAX	958	1580	3260	594	290	5130	17200	1030	571	301	191	960
MIN	275	69	350	190	240	198	655	361	179	32	23	23

CAL YR 1986 TOTAL 372260 MEAN 1020 MAX 7150 MIN 69
WTR YR 1987 TOTAL 329887 MEAN 904 MAX 17200 MIN 23

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: Oct. 1 to Nov. 13, Dec. 15-16, Dec. 21-22, Jan. 6 to Mar. 5 and Mar. 11-14. Records are good except for periods of ice effect, Dec. 15-16, Dec. 21-22, Jan. 6 to Mar. 5 and Mar. 11-14, and for flows below 1.5 ft³/s and above 110 ft³/s which are fair, and period of no gage-height record, Oct. 1 to Nov. 13, which is poor.

AVERAGE DISCHARGE.--7 years, 4.75 ft³/s, 22.09 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 178 ft³/s, Apr. 1, 1987, gage height 12.34 ft; minimum discharge, no flow many days during Aug., Sept. Oct., and Nov. 1983, and Sept. 1987.

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)
Nov. 27	0145	31	9.80	Apr. 01	0100	*178	*12.34
Dec. 03	1230	46	10.15				

No flow for part or all of each day, Aug. 28-29 and Sept. 5-9, gage-height less than or equal to 8.04 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.70	e.29	6.4	3.3	e1.2	e1.0	130	7.9	3.0	.31	.10	.03
2	e.71	e.26	4.5	3.1	e1.2	e1.1	109	6.3	2.0	.27	.07	.03
3	e.72	e.33	20	6.4	e1.2	e1.1	97	4.1	1.4	.30	.15	.02
4	e.79	e.38	23	5.4	e1.2	e1.2	77	2.9	1.2	.32	.12	.02
5	e.91	e.42	21	3.7	e1.2	e1.2	55	3.0	1.5	.29	.08	.0
6	e1.2	e.40	15	e3.1	e1.2	1.3	42	9.0	1.2	.22	.07	.00
7	e1.1	e.45	11	e2.7	e1.2	1.4	37	10	.85	.18	.06	.00
8	e.64	e.60	8.1	e2.4	e1.2	1.6	30	8.2	1.1	.16	.06	.00
9	e.58	e.66	5.0	e2.3	e1.1	2.0	25	4.7	1.5	.14	.08	.14
10	e.57	e.66	4.5	e2.2	e1.1	2.1	18	3.6	1.4	.11	.07	.08
11	e.55	e.80	3.9	e2.1	e1.1	e2.2	11	3.0	1.2	.10	.06	.05
12	e.52	e1.0	3.5	e2.0	e1.1	e2.2	7.9	2.6	1.2	.09	.06	.04
13	e.47	e1.3	3.1	e2.0	e1.1	e2.1	5.2	2.2	1.2	.08	.06	.04
14	e.53	1.2	2.8	e1.9	e1.1	e1.9	3.9	2.0	1.1	.08	.05	1.1
15	e.50	1.1	e2.6	e1.8	e1.1	1.8	3.4	2.0	.98	.11	.05	.35
16	e.45	1.1	e2.5	e1.7	e1.1	1.7	3.3	1.9	.76	.07	.05	.20
17	e.43	1.0	2.4	e1.7	e1.1	1.7	4.2	1.7	.89	.06	.04	.15
18	e.42	1.0	2.3	e1.7	e1.0	1.7	5.5	1.6	.64	.06	.03	.12
19	e.42	.89	2.8	e1.6	e1.0	1.7	6.2	1.4	.52	.06	.03	.10
20	e.38	.71	2.9	e1.5	e1.0	1.8	4.6	1.3	.44	.05	.06	.56
21	e.41	1.4	e2.6	e1.5	e1.0	2.0	3.8	1.2	.32	.06	.04	6.0
22	e.38	3.2	e2.4	e1.5	e1.0	2.7	3.3	1.2	.29	.05	.04	7.2
23	e.38	2.4	2.4	e1.5	e1.0	4.0	3.0	1.1	.93	.05	.06	5.1
24	e.36	5.4	2.3	e1.4	e1.0	7.2	2.9	1.8	.62	.05	.03	3.0
25	e.34	5.4	8.5	e1.4	e1.0	8.7	2.5	1.7	.44	.04	.03	1.8
26	e.32	7.3	10	e1.4	1.0	11	2.1	1.7	.38	1.1	.02	1.3
27	e.36	22	9.4	e1.3	1.0	18	1.8	1.5	.47	.69	.02	.94
28	e.38	17	7.3	e1.3	e1.0	30	1.7	2.1	.72	.26	.01	.74
29	e.35	12	5.2	e1.3	---	39	4.7	1.8	.45	.19	.05	.64
30	e.34	9.4	4.3	e1.3	---	52	7.7	4.1	.36	.16	.05	.66
31	e.33	---	3.9	e1.2	---	105	---	3.9	---	.14	.03	---
TOTAL	16.54	100.05	205.6	67.7	30.5	312.4	708.7	101.5	29.06	5.85	1.73	30.41
MEAN	.53	3.33	6.63	2.18	1.09	10.1	23.6	3.27	.97	.19	.056	1.01
MAX	1.2	22	23	6.4	1.2	105	130	10	3.0	1.1	.15	7.2
MIN	.32	.26	2.3	1.2	1.0	1.0	1.7	1.1	.29	.04	.01	.00
CFSM	.18	1.14	2.27	.75	.37	3.45	8.09	1.12	.33	.06	.02	.35
IN.	.21	1.27	2.62	.86	.39	3.98	9.03	1.29	.37	.07	.02	.39

CAL YR 1986 TOTAL 1619.59 MEAN 4.44 MAX 51 MIN .06 CFSM 1.52 IN. 20.63
WTR YR 1987 TOTAL 1610.04 MEAN 4.41 MAX 130 MIN .00 CFSM 1.51 IN. 20.51

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: Dec. 2 to Mar. 18, May 20-23, Aug. 20-21, Aug. 29 to Sept. 21. Records good except for period of ice effect Dec. 8 to Mar. 18, and periods of no gage-height record Dec. 2-8, May 20-23, Aug. 20-21, and Aug. 29 to Sept. 21. 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.--9 years, 9,115 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 232,000 ft³/s, Apr. 2, 1987, gage height, 39.31 ft; minimum daily, 2,070 ft³/s, Sept. 23, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 232,000 ft³/s, Apr. 2, gage height, 39.31 ft; minimum daily, 2,070 ft³/s, Sept. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6730	5320	6910	e5950	e5960	e6220	167000	13000	8700	6810	3480	e2840
2	6070	5200	e7000	e6040	e6000	e6190	186000	13000	8030	6120	3780	e2320
3	6490	4930	e9460	e5740	e6210	e6120	91400	12100	8190	5840	4160	e2330
4	6790	4690	e18700	e5960	e6050	e5940	60500	11100	7810	5510	4160	e2180
5	6650	4780	e17200	e5740	e5880	e5450	44600	10600	7740	5590	3610	e2250
6	7280	4970	e14800	e5690	e5820	e5550	40100	13700	7740	5790	3870	e2200
7	6780	5100	e12900	e5690	e6180	e5610	52400	18500	7650	6130	3350	e2230
8	6680	5070	e11600	e5710	e6090	e5570	47400	17300	6750	5840	3220	e2380
9	6760	5300	e9920	e5740	e6140	e5740	34600	14800	8180	6100	3250	e3240
10	6430	5800	e9360	e5670	e5850	e5870	28200	13400	9430	6200	3460	e3030
11	6200	4670	e8760	e5400	e6170	e5920	24100	12300	8900	6440	3070	e2860
12	6110	5220	e8330	e5860	e6040	e5680	21000	11500	8670	6580	3230	e2940
13	5800	4870	e7130	e6370	e6160	e5390	20400	10900	7460	6290	3620	e3050
14	6060	4830	e5980	e6400	e6000	e5220	18100	10400	7120	5920	3380	e5460
15	6220	4940	e5510	e6330	e6210	e5160	15900	9640	7140	5460	3080	e6720
16	6090	4730	e5250	e6360	e6250	e5210	14600	9440	7080	4890	3060	e5430
17	6050	4920	e5300	e5870	e6310	e5120	13800	9350	6910	5540	3160	e4400
18	5440	4550	e5430	e5870	e6190	e4980	14700	8420	7140	4980	2990	e3990
19	5430	3680	e5190	e6300	e6310	4450	16300	7880	7470	5010	2760	e3880
20	5840	3560	e5140	e6270	e6310	4790	15100	e7600	6670	4590	e2700	e4480
21	5930	3930	e5040	e5800	e6280	4690	14100	e7300	5790	3410	e2650	e5890
22	5650	3670	e4860	e5870	e6310	7320	13300	e6790	5620	3550	2620	6070
23	5340	4290	e5170	e5890	e6290	14000	12400	e7430	5810	4310	2070	5860
24	5500	3470	e5030	e6340	e6150	15000	11200	7860	6260	3730	2150	4500
25	5160	4030	e5170	e6090	e6270	e17000	10000	9530	6300	3760	2160	4160
26	5180	4310	e5600	e6180	e6260	19700	9330	8290	6050	4080	2150	3620
27	4440	10800	e6900	e5830	e6270	20100	9140	7950	5660	4030	2450	4050
28	5650	12400	e6590	e6070	e6260	24400	9090	8260	6630	3370	2480	4160
29	5540	9530	e6340	e5870	---	26200	9500	7800	9610	3420	e2610	3440
30	5310	8170	e6490	e6050	---	29400	10900	8870	8140	3240	e2610	3120
31	4820	---	e6240	e6130	---	45200	---	9850	---	3360	e2780	---
TOTAL	184420	161730	243300	185080	172220	333190	1035160	324860	220650	155890	94120	113080
MEAN	5949	5391	7848	5970	6151	10750	34510	10480	7355	5029	3036	3769
MAX	7280	12400	18700	6400	6310	45200	186000	18500	9610	6810	4160	6720
MIN	4440	3470	4860	5400	5820	4450	9090	6790	5620	3240	2070	2180

CAL YR 1986 TOTAL 3360850 MEAN 9208 MAX 88100 MIN 2830
WTR YR 1987 TOTAL 3223700 MEAN 8832 MAX 186000 MIN 2070

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 current year.

pH: October 1978 to current year.

WATER TEMPERATURES: October 1978 to current year.

DISSOLVED OXYGEN: October 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1978. 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 station.

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, 7.5 units, Aug. 26, 1987; 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 1986 TO SEPTEMBER 1987

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 (FTU)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC												
02...	1130	E 7000	80	7.40	4.0	0.5	3.9	780	14.2	96	130	96
FEB												
11...	1200	E 6170	71	7.20	-6.0	0.0	2.6	760	14.4	99	--	70
APR												
09...	1330	34200	40	7.40	14.0	3.5	3.6	750	13.6	104	700	280
JUN												
10...	1300	8880	50	7.00	23.0	16.0	2.5	760	9.6	98	430	63
SEP												
02...	1000	E 2400	105	7.20	17.0	20.0	0.70	760	8.8	97	>1200	93

DATE	HARD- NESS TOTAL (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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC											
02...	23	6.9	1.5	6.0	1.1	--	--	--	L 18	13	7.6
FEB											
11...	22	6.5	1.4	5.2	0.7	18	0	15	15	12	6.8
APR											
09...	14	4.3	0.9	2.1	0.8	11	0	9	10	10	2.3
JUN											
10...	18	5.2	1.2	4.4	0.8	17	0	14	15	15	5.1
SEP											
02...	21	6.6	1.2	11	0.8	20	0	16	17	10	13

E Estimated discharge.

L Lab alkalinity value reported.

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	FLUORIDE, 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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DIS-SOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
DEC 02...	<0.1	4.8	48	53	0.22	0.09	0.12	0.5	0.03	0.02	<0.01
FEB 11...	<0.1	4.6	51	47	0.20	0.09	0.12	0.8	0.04	0.03	0.02
APR 09...	<0.1	3.8	31	31	0.15	0.04	0.05	0.8	0.04	0.01	<0.01
JUN 10...	<0.1	3.5	46	45	0.12	0.08	0.10	0.3	0.03	0.02	0.01
SEP 02...	0.1	2.5	60	56	>0.10	0.07	--	>0.2	0.04	0.02	0.02

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, 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)	MANGANESE, DIS-SOLVED (UG/L AS MN)
DEC 02...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	50	<1	9	<0.5	<1	<1	<3	3	100	<5	5	21
APR 09...	100	<1	8	0.8	<1	<1	<30	7	75	16	<4	16
JUN 10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	20	<1	8	<0.5	<1	<1	<3	1	62	<5	<4	16

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 02...	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	<0.1	<10	<1	<1	<1.0	32	<6	7	6	100	91
APR 09...	<0.1	<10	1	<1	<1.0	22	<6	18	29	2680	72
JUN 10...	--	--	--	--	--	--	--	--	10	240	61
SEP 02...	0.1	<10	<1	<1	<1.0	29	<6	<3	5	32	72

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

PERIOD	MAXIMUM	115	MINIMUM	44	MEAN	86
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[illegible]

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
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	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	7.2	7.0	7.1
2	---	---	---	---	---	---	---	---	---	7.3	7.0	7.2
3	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
4	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
5	---	---	---	---	---	---	---	---	---	7.2	6.8	7.0
6	---	---	---	---	---	---	7.4	6.9	7.1	7.1	6.8	7.0
7	---	---	---	---	---	---	7.4	6.9	7.1	7.2	6.8	7.0
8	---	---	---	---	---	---	7.3	6.9	7.0	7.0	6.8	6.9
9	---	---	---	---	---	---	7.4	6.9	7.1	6.9	6.8	6.9
10	---	---	---	---	---	---	7.1	6.9	7.0	7.0	6.8	6.9
11	---	---	---	---	---	---	7.3	6.9	7.1	6.9	6.8	6.8
12	---	---	---	---	---	---	7.3	6.9	7.1	7.0	6.7	6.8
13	---	---	---	---	---	---	7.4	6.9	7.1	6.8	6.7	6.8
14	---	---	---	---	---	---	7.2	6.9	7.0	7.0	6.8	6.8
15	---	---	---	---	---	---	7.1	6.8	7.0	6.8	6.8	6.8
16	---	---	---	---	---	---	7.3	6.9	7.1	6.8	6.8	6.8
17	---	---	---	---	---	---	7.3	6.9	7.1	6.9	6.7	6.8
18	---	---	---	---	---	---	7.3	6.8	7.0	6.9	6.7	6.8
19	---	---	---	---	---	---	7.2	6.8	7.0	6.8	6.7	6.7
20	---	---	---	---	---	---	7.2	6.8	7.0	6.9	6.7	6.8
21	---	---	---	---	---	---	7.2	6.8	7.0	7.0	6.9	6.9
22	---	---	---	---	---	---	7.0	6.8	6.9	6.9	6.9	6.9
23	---	---	---	---	---	---	7.2	6.9	7.0	6.9	6.8	6.9
24	---	---	---	---	---	---	7.3	6.9	7.1	6.9	6.8	6.8
25	---	---	---	---	---	---	7.3	7.0	7.1	6.9	6.8	6.8
26	---	---	---	---	---	---	7.5	7.0	7.2	7.1	6.8	6.9
27	---	---	---	---	---	---	7.4	7.0	7.2	7.0	6.9	6.9
28	---	---	---	---	---	---	7.3	7.0	7.1	7.0	6.9	6.9
29	---	---	---	---	---	---	7.1	6.9	7.0	7.1	6.9	7.0
30	---	---	---	---	---	---	7.3	7.0	7.2	7.0	6.8	6.9
31	---	---	---	---	---	---	7.3	7.0	7.2	---	---	---
MONTH	---	---	---	---	---	---	7.5	6.8	7.1	7.3	6.7	6.9

PERIOD MAXIMUM 7.5 MINIMUM 6.7 MEAN 7.0

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

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WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

PERIOD MAXIMUM 26.5 MINIMUM 13.0 MEAN 20.0

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

[illegible]

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
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	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	9.0	8.4	8.7
2	---	---	---	---	---	---	---	---	---	9.1	8.4	8.7
3	---	---	---	---	---	---	---	---	---	9.1	8.1	8.7
4	---	---	---	---	---	---	---	---	---	9.5	8.2	9.0
5	---	---	---	---	---	---	---	---	---	9.8	8.2	8.9
6	---	---	---	---	---	---	9.1	7.9	8.4	9.4	8.2	8.8
7	---	---	---	---	---	---	9.1	8.0	8.5	9.5	8.3	8.9
8	---	---	---	---	---	---	9.1	7.8	8.4	9.3	8.3	8.8
9	---	---	---	---	---	---	9.1	7.8	8.4	8.7	8.3	8.4
10	---	---	---	---	---	---	8.5	7.9	8.2	9.2	8.6	8.9
11	---	---	---	---	---	---	9.1	8.0	8.5	8.8	8.2	8.5
12	---	---	---	---	---	---	9.3	8.0	8.6	9.4	8.3	8.8
13	---	---	---	---	---	---	9.3	8.2	8.8	9.2	8.7	9.0
14	---	---	---	---	---	---	9.3	8.2	8.7	9.3	8.6	8.9
15	---	---	---	---	---	---	9.0	8.0	8.5	9.6	9.0	9.3
16	---	---	---	---	---	---	9.1	7.9	8.4	9.7	9.1	9.4
17	---	---	---	---	---	---	9.0	7.6	8.2	9.1	8.5	8.9
18	---	---	---	---	---	---	8.7	7.4	8.1	9.2	8.3	8.7
19	---	---	---	---	---	---	8.7	7.3	8.0	9.3	8.6	8.9
20	---	---	---	---	---	---	8.6	7.1	7.8	9.2	8.9	9.0
21	---	---	---	---	---	---	8.6	7.2	7.9	9.6	9.0	9.4
22	---	---	---	---	---	---	8.2	7.4	7.8	9.7	9.2	9.5
23	---	---	---	---	---	---	8.8	7.5	8.1	9.7	9.3	9.5
24	---	---	---	---	---	---	9.2	7.7	8.5	9.6	9.2	9.4
25	---	---	---	---	---	---	9.4	8.1	8.8	9.8	9.1	9.4
26	---	---	---	---	---	---	9.6	8.3	8.9	9.9	9.4	9.6
27	---	---	---	---	---	---	9.6	8.3	8.9	10.0	9.5	9.7
28	---	---	---	---	---	---	9.5	8.3	8.9	10.0	9.5	9.7
29	---	---	---	---	---	---	8.8	8.1	8.5	10.0	9.5	9.7
30	---	---	---	---	---	---	9.4	8.2	8.8	9.6	9.1	9.3
31	---	---	---	---	---	---	9.5	8.3	8.9	---	---	---
MONTH	---	---	---	---	---	---	9.6	7.1	8.4	10.0	8.1	9.1

PERIOD MAXIMUM 10.0 MINIMUM 7.1 MEAN 8.8

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: Oct. 1-9 and May 16 to June 26. Records good except for period of doubtful gage-height record, Oct. 1-9, and period of no gage-height record May 16 to June 26, which are fair. 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.--10 years, 55.3 ft³/s, 22.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft³/s, Apr. 2, 1987, gage height, 6.16 ft, minimum, 1.0 ft³/s, Dec. 19, 1978, gage height, 0.99 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft³/s, Apr. 2, gage height, 6.16 ft; minimum, 3.6 ft³/s, Nov. 19, 20, gage height, 1.23 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.6	7.4	7.8	44	30	16	1060	93	e26	28	22	13
2	e5.5	6.5	7.8	46	28	20	1280	94	e24	26	20	13
3	e5.5	4.6	47	53	27	20	1070	91	e23	25	21	12
4	e5.5	4.5	120	51	26	20	844	86	e22	24	23	12
5	e5.5	4.3	120	48	25	19	681	81	e23	23	22	11
6	e5.5	4.2	112	46	25	19	581	90	e25	19	20	11
7	e5.8	4.2	105	43	25	20	555	99	e23	17	21	11
8	e6.2	5.2	95	41	25	21	528	100	e20	16	23	11
9	e5.6	5.3	87	40	24	20	474	96	e22	19	21	11
10	5.7	4.2	83	39	23	21	425	93	e23	16	21	10
11	5.5	4.1	78	42	22	21	381	86	e24	17	21	10
12	5.5	4.1	73	41	21	21	337	86	e22	17	21	11
13	4.6	4.0	69	39	20	22	290	87	e22	23	22	11
14	7.3	3.9	65	37	20	23	252	78	e20	25	22	11
15	8.7	4.6	60	37	20	22	221	73	e18	25	20	11
16	8.9	4.8	56	35	19	22	199	e69	e16	26	19	11
17	7.5	4.1	54	35	18	22	186	e64	e18	26	19	10
18	7.0	4.1	52	34	18	22	185	e59	e17	25	19	9.5
19	6.4	3.9	52	34	18	22	179	e52	e16	23	19	9.7
20	5.9	4.8	51	33	17	23	167	e46	e14	28	18	9.5
21	7.2	6.0	49	32	17	26	153	e42	e13	30	18	7.4
22	7.7	5.3	47	31	17	34	140	e36	e13	28	18	7.1
23	7.4	5.2	45	36	16	40	127	e33	e23	28	16	8.1
24	6.9	5.5	44	35	15	52	118	e36	e21	29	15	8.6
25	7.2	5.4	46	34	15	67	109	e38	e19	26	14	8.2
26	6.2	6.5	51	32	15	93	101	e35	e20	23	13	8.0
27	5.2	7.9	51	31	15	125	92	e32	29	25	13	8.0
28	6.3	8.2	50	29	15	154	83	e34	29	26	13	7.5
29	7.0	9.2	49	28	---	180	88	e32	28	26	14	7.6
30	6.5	8.6	48	28	---	210	88	e30	29	26	13	7.5
31	6.3	---	46	30	---	351	---	e29	---	23	13	---
TOTAL	197.6	160.6	1920.6	1164	576	1748	10994	2000	642	738	574	296.7
MEAN	6.37	5.35	62.0	37.5	20.6	56.4	366	64.5	21.4	23.8	18.5	9.89
MAX	8.9	9.2	120	53	30	351	1280	100	29	30	23	13
MIN	4.6	3.9	7.8	28	15	16	83	29	13	16	13	7.1
CFSM	.19	.16	1.89	1.15	.63	1.72	11.2	1.97	.65	.73	.57	.30
IN.	.22	.18	2.18	1.32	.66	1.99	12.5	2.28	.73	.84	.65	.34

CAL YR 1986 TOTAL 17676.4 MEAN 48.4 MAX 234 MIN 3.9 CFSM 1.48 IN. 20.1
WTR YR 1987 TOTAL 21011.5 MEAN 57.6 MAX 1280 MIN 3.9 CFSM 1.76 IN. 23.9

e Estimated

01049500 COBBOSSEECREEK 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.--No estimated daily discharges. Records good. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

AVERAGE DISCHARGE.--85 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, 4,240 ft³/s, Apr. 1, gage height, 10.04 ft; minimum daily, 8.0 ft³/s, Sept. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	122	101	391	471	215	3940	136	136	126	15	8.2
2	300	124	128	355	470	224	3290	24	135	125	14	8.3
3	296	121	705	328	540	224	2820	29	135	126	16	8.3
4	309	121	1430	330	561	223	2610	31	133	126	15	8.0
5	313	119	1080	330	523	220	2390	32	133	126	13	8.0
6	311	119	621	316	505	218	2310	238	133	127	12	8.2
7	303	117	452	302	494	218	2340	703	133	129	12	8.2
8	290	116	454	288	479	216	2360	633	291	129	12	8.0
9	287	122	446	271	468	205	2270	653	372	131	13	11
10	261	115	200	247	457	184	2120	641	320	128	14	28
11	234	113	48	242	444	159	2030	568	256	124	17	69
12	236	114	58	242	407	127	1890	535	179	123	18	97
13	240	114	68	242	372	124	1750	530	124	66	18	99
14	243	114	76	239	348	124	1650	430	124	31	24	100
15	248	112	220	239	329	126	1530	374	126	22	33	97
16	252	112	279	239	315	126	1320	377	128	17	32	91
17	248	112	270	235	300	123	1120	375	114	17	20	92
18	249	74	265	232	267	123	1050	371	115	16	11	113
19	239	23	262	237	232	123	1020	263	61	16	8.6	217
20	239	25	268	238	232	127	925	146	14	16	8.7	252
21	237	27	276	239	234	138	956	146	14	16	9.4	159
22	231	27	278	240	234	148	936	145	14	17	9.4	98
23	230	26	274	249	231	176	842	143	16	17	9.0	195
24	224	28	267	251	231	213	721	147	14	17	8.8	314
25	220	27	295	257	231	541	469	145	14	17	8.9	286
26	219	30	551	259	226	874	318	146	14	20	9.9	250
27	166	32	648	291	226	1010	373	142	15	19	9.3	233
28	132	30	623	339	227	1010	373	144	90	23	9.1	218
29	128	30	549	389	---	1020	236	142	123	22	11	212
30	125	30	472	453	---	1210	226	138	126	21	11	211
31	122	---	414	471	---	1930	---	140	---	18	9.3	---
TOTAL	7455	2396	12078	8981	10054	11699	46185	8667	3602	1928	431.4	3507.2
MEAN	240	79.9	390	290	359	377	1539	280	120	62.2	13.9	117
MAX	323	124	1430	471	561	1930	3940	703	372	131	33	314
MIN	122	23	48	232	226	123	226	24	14	16	8.6	8.0

CAL YR 1986 TOTAL 137553 MEAN 377 MAX 1770 MIN 23
WTR YR 1987 TOTAL 116983.6 MEAN 321 MAX 3940 MIN 8.0

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: Jan. 18, 19, Jan. 23 to Feb. 3, Feb. 6, 9-20, and Sept. 1, 2, 4-8. Records good except for periods of ice effect, Jan. 18, 19, Jan. 23 to Feb. 3, Feb. 6, 9-20, and periods of doubtful gage-height record, Sept. 1, 2, 4-8, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--6 years, 43.5 ft³/s, 24.9 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1010 ft³/s, Apr. 1, 1987, gage height, 7.50 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)
Apr. 01	0600	*1010	*7.50	No other peak greater than base discharge.			
Minimum discharge, 1.4 ft ³ /s, July 20, gage height 2.75 ft.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	1.6	35	43	e21	9.9	940	63	16	4.0	4.4	e2.9
2	3.8	1.7	32	43	e20	16	673	55	14	3.9	4.0	e2.9
3	4.5	1.8	118	49	e20	16	456	49	12	3.6	6.1	2.9
4	4.3	2.0	138	46	19	15	358	46	11	3.3	4.0	e2.8
5	4.2	2.8	103	44	18	15	289	50	14	3.3	3.3	e2.7
6	3.6	2.2	83	41	e18	14	254	90	14	3.2	3.2	e2.7
7	3.3	2.1	74	39	17	14	253	91	12	3.0	3.2	e2.6
8	4.0	2.5	67	38	17	17	226	75	12	3.2	3.1	e3.3
9	3.6	4.7	60	36	e16	19	197	67	14	3.5	3.0	4.2
10	3.7	4.6	58	34	e16	18	158	61	14	3.7	3.1	3.0
11	3.3	4.8	55	37	e16	18	138	55	11	3.7	2.9	2.7
12	2.9	5.0	52	37	e15	17	132	52	12	3.8	2.8	2.5
13	2.6	4.1	48	34	e15	17	116	48	16	4.0	2.8	3.0
14	3.1	3.2	44	32	e14	16	102	42	11	4.1	2.8	7.8
15	3.1	3.2	40	31	e14	16	88	41	9.3	5.5	2.8	3.6
16	2.7	3.2	38	30	e13	15	76	40	8.2	6.1	2.9	3.0
17	2.7	3.4	36	29	e13	16	81	31	11	5.3	2.9	2.8
18	2.5	3.1	34	e28	e12	16	93	23	9.1	4.9	3.2	2.6
19	2.6	2.8	42	e28	e12	17	90	21	8.5	6.2	3.3	2.5
20	2.5	2.6	42	27	e11	19	79	19	8.8	3.1	3.2	7.3
21	2.6	10	39	26	11	24	70	18	8.6	4.6	2.9	23
22	2.5	11	37	26	10	35	65	17	7.9	4.5	2.9	13
23	2.5	9.4	35	e26	9.8	42	59	17	15	4.4	2.8	8.9
24	2.4	19	32	e25	9.3	51	54	20	13	4.5	2.6	6.6
25	2.1	22	65	e25	9.1	66	50	19	10	4.7	2.5	5.5
26	1.9	25	82	e24	8.8	86	48	19	11	5.8	2.4	4.7
27	2.6	66	65	e24	8.6	114	44	18	16	4.7	2.8	4.2
28	2.7	53	58	e23	8.8	143	40	21	15	5.0	2.6	4.1
29	2.5	45	52	e23	---	172	53	16	5.8	4.6	2.8	4.5
30	2.2	40	49	e22	---	208	62	16	4.3	4.5	2.7	5.1
31	1.9	---	46	e22	---	463	---	16	---	4.6	2.9	---
TOTAL	93.1	361.8	1759	992	392.4	1724.9	5344	1216	344.5	133.3	96.9	147.4
MEAN	3.00	12.1	56.7	32.0	14.0	55.6	178	39.2	11.5	4.30	3.13	4.91
MAX	4.5	66	138	49	21	463	940	91	16	6.2	6.1	23
MIN	1.9	1.6	32	22	8.6	9.9	40	16	4.3	3.0	2.4	2.5
CFSM	.13	.51	2.39	1.35	.59	2.35	7.52	1.66	.48	.18	.13	.21
IN.	.15	.57	2.76	1.56	.62	2.71	8.39	1.91	.54	.21	.15	.23

CAL YR 1986 TOTAL 15153.8 MEAN 41.5 MAX 481 MIN 1.6 CFSM 1.75 IN. 23.79
WTR YR 1987 TOTAL 12605.3 MEAN 34.5 MAX 940 MIN 1.6 CFSM 1.46 IN. 19.79

e Estimated

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. 75).
- 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 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 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 1986 TO SEPTEMBER 1987

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
Sept. 30, 1986.....	8,991	597	757	550	8,081	2,857
Oct. 31.....	6,646	0	678	170	7,430	2,873
Nov. 30.....	3,356	0	670	0	5,286	2,789
Dec. 31.....	742	0	586	0	5,277	2,890
Jan. 31, 1987.....	0	0	579	0	2,859	2,923
Feb. 28.....	0	0	567	0	771	2,801
Mar. 31.....	1,244	597	794	586	3,057	2,947
Apr. 30.....	5,813	787	802	532	11,099	2,919
May 31.....	2,990	870	858	568	11,961	2,926
June 30.....	1,186	870	727	577	11,298	2,842
July 31.....	286	664	690	523	9,085	2,794
Aug. 31.....	53	530	797	496	6,488	2,655
Sept. 30.....	352	356	815	550	6,328	2,888

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

ANDROSCOGGIN RIVER BASIN

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 1,259.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 1 to Dec. 3 and Dec. 6 to Mar. 31, and May 25 to June 4. Records good except for periods of ice effect, Dec. 1 to Dec. 3 and Dec. 6 to Mar. 31, and periods of doubtful gage-height record, May 25 to June 11, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--46 years, 348 ft³/s, 31.09 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)
Apr. 1	0600	*8,330	*10.31	No other peak greater than base-discharge			

Minimum discharge, 21 ft³/s, Sept. 7, 8, gage height, 1.17 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	851	201	e240	e105	e76	e62	6790	320	e520	162	62	30
2	461	224	e190	e110	e74	e60	2910	361	e410	129	57	29
3	409	235	e350	e110	e69	e60	1310	497	e330	129	112	27
4	541	202	888	e105	e68	e59	839	490	e260	205	171	25
5	763	172	522	e100	e67	e60	1310	461	360	410	97	23
6	611	162	e300	e105	e67	e60	2070	521	275	230	70	22
7	572	179	e240	e100	e66	e59	2420	482	209	147	57	21
8	454	186	e190	e96	e66	e67	1580	357	415	116	54	21
9	405	360	e155	e92	e67	e80	960	289	1370	99	51	404
10	343	508	e190	e90	e67	e160	825	256	821	103	50	284
11	292	294	e210	e94	e67	e150	1260	221	464	337	65	123
12	265	239	e185	e91	e64	e125	1550	226	332	473	58	76
13	246	205	e150	e90	e67	e100	1530	234	345	823	46	782
14	233	120	e170	e88	e67	e86	1160	193	303	707	41	1740
15	311	180	e175	e89	e67	e75	945	187	262	918	40	539
16	279	189	e155	e90	e68	e68	863	209	217	503	39	243
17	230	181	e145	e89	e69	e65	888	175	367	280	37	191
18	203	169	e135	e87	e66	e64	969	158	252	209	33	166
19	187	131	e130	e86	e66	e64	1050	142	181	210	30	128
20	175	100	e125	e84	e65	e63	922	129	170	163	31	115
21	169	121	e120	e84	e67	e67	736	119	144	214	32	144
22	181	184	e115	e82	e68	e71	603	116	122	196	29	138
23	183	271	e115	e82	e68	e84	454	253	197	150	30	115
24	235	270	e110	e84	e68	e115	384	1700	165	121	36	111
25	187	276	e125	e86	e68	e200	345	1070	123	104	29	107
26	166	262	e130	e86	e66	e340	284	e500	118	125	27	97
27	207	1130	e125	e85	e65	e430	245	e325	251	164	26	125
28	334	728	e120	e81	e63	e385	218	e320	658	109	25	115
29	348	478	e110	e76	---	e475	238	e1200	418	87	26	95
30	270	349	e110	e78	---	e920	273	e1000	226	77	33	101
31	236	---	e105	e77	---	e3440	---	e620	---	69	34	---
TOTAL	10347	8306	6130	2802	1886	8114	35931	13131	10285	7769	1528	6137
MEAN	334	277	198	90.4	67.4	262	1198	424	343	251	49.3	205
MAX	851	1130	888	110	76	3440	6790	1700	1370	918	171	1740
MIN	166	100	105	76	63	59	218	116	118	69	25	21
CFSM	2.20	1.82	1.30	.59	.44	1.72	7.88	2.79	2.26	1.65	.32	1.35
IN.	2.53	2.03	1.50	.69	.46	1.99	8.79	3.21	2.52	1.90	.37	1.50

CAL YR 1986 TOTAL 130533 MEAN 358 MAX 4120 MIN 40 CFSM 2.35 IN. 31.95
WTR YR 1987 TOTAL 112366 MEAN 308 MAX 6790 MIN 21 CFSM 2.03 IN. 27.50

e Estimated

ANDROSCOGGIN RIVER BASIN

97

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.--82 years, 1,902 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, 8,780 ft³/s, Apr. 2, gage-height, 6.69 ft; minimum daily, 722 ft³/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1770	1880	1660	1720	1830	1970	5250	1100	1350	1770	1690	1620
2	1800	1880	1720	1730	1900	1900	8490	1020	1380	1580	1690	1620
3	1800	2020	1720	1750	1780	1880	6640	1020	1420	1570	1590	1620
4	1810	2170	1670	1780	1820	1880	3930	1020	1460	1540	1550	1610
5	1680	1840	1690	1740	1730	1860	3930	1030	1480	1540	1550	1620
6	1800	1830	1660	1760	1740	1870	3910	1030	1470	1500	1620	1620
7	1780	1760	1650	1780	1690	1870	4660	1030	1490	1480	1650	1620
8	1840	1790	1630	1800	1740	1870	5030	1030	1500	1570	1650	1610
9	1910	1820	1620	1800	1750	1840	4290	1030	1510	1590	1650	1330
10	1950	1830	1680	1820	1750	1860	2510	1110	1520	1590	1590	1280
11	1970	1820	1670	1820	1890	1850	1970	1270	1520	1580	1480	1490
12	1960	1800	1710	1780	1970	1740	2000	1370	1520	1570	1650	1480
13	1980	1760	1720	1820	1960	1780	2010	1250	1520	1600	1660	1400
14	1950	1750	1720	1820	1940	1790	2010	1500	1490	1610	1660	722
15	1920	1740	1670	1790	1930	1790	2010	1400	1500	1610	1660	1400
16	1840	1750	1650	1820	1920	1760	2010	1400	1500	1600	1660	1510
17	1830	1770	1700	1840	1930	1800	2010	1400	1460	1610	1690	1330
18	1820	1730	1740	1760	1890	1780	2010	1430	1500	1610	1700	1440
19	1840	1730	1730	1760	1810	1810	2000	1460	1540	1610	1700	1490
20	1840	1840	1660	1710	1920	1790	2020	1530	1560	1610	1700	1460
21	1840	2050	1610	1670	1890	1770	1460	1550	1580	1540	1700	1410
22	1970	1800	1740	1700	1850	1770	1510	1550	1660	1580	1700	1470
23	1870	1800	1650	1770	1940	1670	888	1550	1660	1590	1680	1470
24	1880	1820	1650	1710	2020	1410	1240	1260	1660	1620	1720	1470
25	1900	1760	1700	1810	2020	1100	1360	1350	1650	1630	1720	1450
26	1920	1680	1670	1840	1960	832	1280	1380	1650	1550	1720	1470
27	1860	1600	1660	1970	2000	854	1310	1900	1650	1590	1720	1480
28	1890	1600	1660	2000	2000	998	1340	1870	1660	1630	1720	1520
29	1860	1540	1690	1980	---	1000	1360	1560	1420	1630	1660	1530
30	1900	1570	1730	1880	---	1010	1270	1350	908	1650	1620	1510
31	1890	---	1740	1830	---	1910	---	1350	---	1670	1620	---
TOTAL	57870	53730	52170	55760	52570	51014	81708	41100	45188	49420	51370	44052
MEAN	1867	1791	1683	1799	1877	1646	2724	1326	1506	1594	1657	1468
MAX	1980	2170	1740	2000	2020	1970	8490	1900	1660	1770	1720	1620
MIN	1680	1540	1610	1670	1690	832	888	1020	908	1480	1480	722

CAL YR 1986 TOTAL 695517 MEAN 1906 MAX 5240 MIN 717
WTR YR 1987 TOTAL 635952 MEAN 1742 MAX 8490 MIN 722

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.--Estimated daily discharges: Aug. 20-26. Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes combined usable capacity, 28,100,000,000 ft³, with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuations caused by power plant 0.8 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--74 years, 2,463 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, 16,000 ft³/s, Apr. 1, gage height, 9.15 ft; minimum daily, 1,230 ft³/s, July 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2420	2170	1990	1970	2110	2270	14400	2050	1830	1230	1680	1660
2	2320	2190	1870	1970	2020	2180	12700	1950	1720	1670	1710	1600
3	2270	2200	2540	2000	2060	2070	11200	1860	1720	1630	1780	1630
4	2360	2380	3160	2000	2060	2140	6950	1890	1760	1640	1770	1620
5	2550	1870	2680	1980	2020	2120	6400	1780	1930	1780	1650	1630
6	2470	2140	2170	1990	1960	2090	7550	2150	1890	1950	1620	1640
7	2490	2000	2170	2010	1950	2090	8420	2180	1720	1690	1590	1630
8	2340	2030	2050	2060	1950	2150	8390	1790	1820	1480	1620	1640
9	2330	2270	1890	2060	2040	2100	7170	1790	2740	1710	1720	2120
10	2320	2630	2100	2030	2020	2030	5420	1640	2640	1970	1840	1780
11	2330	2370	2160	2060	1970	2240	4050	1620	2130	1970	1940	1620
12	2290	2080	2140	2070	2090	2290	3480	1630	1910	1660	1640	1640
13	2280	2190	2040	2040	2210	2090	3780	1830	1850	1660	1670	1880
14	2300	2060	1980	2040	2210	2120	3630	1630	1820	1790	1650	3230
15	2280	2020	2110	2090	2130	2110	3360	1760	1880	1850	1620	1980
16	2230	2040	2130	2050	2150	1970	3240	1780	1710	1850	1600	1780
17	2130	2060	2000	1890	2130	2070	3120	1720	1760	1680	1640	1580
18	2110	2050	2090	2080	2080	2140	3000	1680	1730	1740	1610	1590
19	2090	2020	1950	2070	2090	2080	3190	1670	1720	1710	1650	1640
20	2120	1940	2210	1900	2060	2050	3190	1700	1670	1720	e1680	1720
21	2100	2170	1990	1630	2050	1990	2980	1790	1700	1730	e1670	1670
22	2190	2130	1920	1890	2170	2110	2200	1730	1720	1750	e1680	1670
23	2160	2070	2030	2170	2100	2280	1920	1810	1880	1650	e1650	1670
24	2100	2180	1930	2310	2090	2370	1520	1940	1930	1650	e1680	1660
25	2130	2250	1970	1940	2130	2350	1950	1940	1880	1710	e1690	1550
26	2140	2260	2040	1930	2220	2340	1850	1820	1740	1760	e1670	1590
27	2180	3670	2010	2000	2130	2540	1680	1880	1750	1730	1660	1600
28	2180	3340	1920	2180	2230	2650	1660	2130	2210	1700	1700	1590
29	2170	2690	1970	2210	---	2740	1730	2430	2110	1670	1820	1660
30	2380	2330	1980	2190	---	3270	1920	2040	1890	1630	1650	1700
31	2390	---	2010	2160	---	6790	---	1740	---	1650	1660	---
TOTAL	70150	67800	65200	62970	58430	73830	142050	57350	56760	53010	52210	51970
MEAN	2263	2260	2103	2031	2087	2382	4735	1850	1892	1710	1684	1732
MAX	2550	3670	3160	2310	2230	6790	14400	2430	2740	1970	1940	3230
MIN	2090	1870	1870	1630	1950	1970	1520	1620	1670	1230	1590	1550

CAL YR 1986 TOTAL 897650 MEAN 2459 MAX 8740 MIN 1840
WTR YR 1987 TOTAL 811730 MEAN 2224 MAX 14400 MIN 1230

e Estimated

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: Nov. 13 to Nov. 17, Nov. 19 to Nov. 20, Nov. 30 to Dec. 3, and Dec. 8 to Mar. 27. Records good except for periods of ice effect, Nov. 13 to Nov. 17, Nov. 19 to Nov. 20, Nov. 30 to Dec. 3, and Dec. 8 to Mar. 27, which are fair.

AVERAGE DISCHARGE.--23 years, 183 ft³/s, 35.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s, Mar. 31, 1987, gage height, 13.03 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)
Mar. 31	1745	*13,600	*13.03	Apr. 6	1615	3330	7.25

Minimum discharge, 10 ft³/s, Aug. 22 and 25, gage height, 2.90 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	42	e240	e75	e41	e33	5340	228	82	60	18	16
2	64	43	e280	e70	e40	e35	1060	267	114	49	17	15
3	58	46	e980	e68	e40	e38	620	281	108	59	36	13
4	93	43	626	e66	e40	e37	536	238	83	78	46	12
5	104	41	279	e64	e39	e36	977	262	169	95	28	11
6	87	49	186	e62	e39	e40	2430	1050	111	59	22	11
7	87	50	160	e60	e38	e47	1860	503	80	48	19	11
8	69	52	e135	e58	e38	e70	841	312	73	41	18	11
9	63	192	e105	e56	e38	e170	513	236	111	38	17	127
10	58	181	e125	e54	e37	e150	461	222	83	43	19	60
11	53	99	e120	e53	e37	e86	632	204	67	100	30	29
12	50	78	e115	e52	e36	e80	718	198	56	52	23	24
13	50	e68	e115	e51	e36	e75	578	172	57	50	18	78
14	51	e50	e110	e50	e35	e72	380	148	55	42	16	387
15	59	e56	e110	e49	e34	e69	353	149	48	76	15	78
16	50	e56	e105	e49	e34	e68	338	141	41	48	15	42
17	47	e56	e105	e48	e34	e66	395	122	48	36	14	31
18	44	58	e105	e47	e34	e65	713	118	41	31	12	26
19	43	e55	e100	e47	e33	e64	677	109	36	34	11	25
20	43	e71	e100	e46	e33	e63	640	98	33	32	11	87
21	43	286	e99	e46	e33	e67	545	92	30	33	11	355
22	44	336	e99	e45	e33	e115	446	89	29	35	10	139
23	43	299	e97	e45	e33	e210	296	93	168	30	11	82
24	42	302	e96	e44	e32	e360	265	142	104	26	11	57
25	41	475	e130	e44	e32	e700	226	123	55	24	11	44
26	41	355	e195	e44	e32	e1040	187	103	51	35	11	39
27	45	1220	e135	e43	e31	e785	166	87	222	36	11	39
28	50	361	e115	e42	e31	666	153	85	342	27	11	35
29	46	215	e99	e42	---	602	176	138	120	22	19	32
30	44	e160	e89	e41	---	912	195	120	77	21	33	30
31	43	---	e79	e41	---	7240	---	89	---	21	21	---
TOTAL	1727	5395	5434	1602	993	14061	22717	6219	2694	1381	565	1946
MEAN	55.7	180	175	51.7	35.5	454	757	201	89.8	44.5	18.2	64.9
MAX	104	1220	980	75	41	7240	5340	1050	342	100	46	387
MIN	41	41	79	41	31	33	153	85	29	21	10	11
CFSM	.80	2.58	2.52	.74	.51	6.52	10.9	2.88	1.29	.64	.26	.93
IN.	.92	2.88	2.90	.86	.53	7.52	12.14	3.32	1.44	.74	.30	1.04

CAL YR 1986 TOTAL 70438 MEAN 193 MAX 6580 MIN 21 CFSM 2.77 IN. 37.65
WTR YR 1987 TOTAL 64734 MEAN 177 MAX 7240 MIN 10 CFSM 2.55 IN. 34.60

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.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.0°C, Aug. 2, 1975; minimum, 0.0°C, on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 (FTU)	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)
FEB												
10...	1100	E 37	20	7.3	-5.0	0.0	0.60	740	14.2	100	<1	<1
APR												
27...	1045	168	15	7.3	18.0	8.0	0.50	750	11.8	101	--	--
AUG												
04...	1030	45	20	6.8	26.5	20.0	0.70	740	8.5	96	K 18	36

DATE	HARD- NESS TOTAL (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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
FEB											
10...	7	1.5	0.80	1.3	0.40	5	0	4	5	5.9	0.7
APR											
27...	5	1.3	0.50	1.0	0.40	1	0	1	1	5.8	1.0
AUG											
04...	5	1.3	0.53	1.3	0.60	4	0	3	5	7.0	0.4

E Estimated discharge.

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

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	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)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)
FEB										
10...	<0.10	7.5	18	21	<0.10	<0.01	0.40	<0.010	<0.010	<0.010
APR										
27...	<0.10	4.7	14	15	<0.10	<0.01	0.40	0.010	0.010	<0.010
AUG										
04...	0.20	7.3	16	22	<0.10	<0.01	0.30	0.010	<0.010	<0.010

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	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)
FEB												
10...	70	<1	8	<0.5	<1	<1	<3	1	23	<5	<4	1
APR												
27...	110	<1	7	<0.5	4	<1	<3	5	27	<5	<4	4
AUG												
04...	40	<1	7	<0.5	<1	<1	<3	1	67	<5	<4	8

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	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
FEB											
10...	<0.1	<10	<1	<1	<1.0	14	<6	7	<1	--	50
APR											
27...	<0.1	<10	1	<1	<1.0	14	<6	19	31	14	3
AUG											
04...	<0.1	<10	<1	<1	<1.0	12	<6	8	1	0.12	67

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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 NATURAL DIS- SOLVED (UG/L AS U)
APR								
27...	<0.4	<0.4	0.5	<0.4	0.5	<0.4	0.04	0.03
AUG								
04...	<0.4	<0.4	0.8	<0.4	0.8	<0.4	0.03	0.02

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: Jan. 28 and Feb. 14-15. Records good, including periods of doubtful gage-height record, Jan. 28 and Feb. 14-15. 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.--95 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, 63,900 ft³/s, Apr. 1, gage height 23.22 ft; minimum daily, 1,620 ft³/s, Nov. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2870	2720	2330	2680	2620	2660	61100	4570	2720	2550	2010	2000
2	2990	2560	2490	2660	2580	2700	46500	4790	2810	2170	2120	1950
3	2850	2600	3610	2530	2510	2610	25900	4710	2690	2230	2190	1940
4	2950	2710	8410	2460	2560	2490	17800	4340	2530	2390	2470	1940
5	3390	2670	6780	2530	2500	2540	13700	4100	2970	2880	2300	1910
6	3480	2370	4520	2540	2420	2540	18100	5590	3280	2810	2050	1920
7	3300	2620	3690	2620	2430	2580	23200	7710	2730	2600	1960	1930
8	3170	2490	3520	2700	2440	2760	18400	5440	2580	2210	1910	1940
9	2990	2920	2560	2550	2440	3280	14200	4480	3480	2020	1950	2350
10	2930	3710	2330	2550	2450	3060	11300	3910	4420	2530	2100	3100
11	2840	3890	2900	2560	2430	2910	9680	3790	3620	3590	2310	2220
12	2760	3070	3140	2580	2310	3050	9120	3540	3020	2960	2220	2070
13	2720	2830	3020	2560	2430	3020	8580	3680	2870	2630	1990	2210
14	2740	2720	2460	2510	e2400	2810	7640	3410	2720	2500	2000	4840
15	2860	2570	2820	2670	e2420	2760	6780	3060	2620	2970	1950	4670
16	2800	2620	2970	2710	2610	2760	6340	3300	2570	3180	1940	2610
17	2660	2630	3020	2420	2740	2590	6320	3150	2530	2620	1890	2550
18	2610	2640	2900	2280	2770	2660	7480	2940	2580	2410	1910	2090
19	2540	2570	2880	2430	2510	2770	8120	2740	2360	2360	1870	2110
20	2490	2280	2880	2490	2410	2690	7760	2850	2270	2320	1920	2260
21	2530	1620	2910	2360	2470	2710	7270	2780	2210	2320	1940	2970
22	2460	2300	2610	2050	2470	2980	6390	2760	2190	2370	1950	2980
23	2660	2600	2670	2280	2590	3500	4990	2640	2500	2340	2000	2580
24	2530	2850	2800	2410	2550	4250	4190	2910	3130	2070	1920	2340
25	2510	3260	2730	2620	2520	5270	3670	3130	2690	2260	1990	2170
26	2500	3240	3300	2240	2560	6820	3880	2880	2410	2200	2000	2090
27	2590	5720	3500	2230	2650	7720	3490	2690	2550	2440	1970	2150
28	2650	6940	3110	e2450	2600	7970	3260	2890	4660	2170	1990	2120
29	2660	5300	2840	2500	---	7810	3480	3350	4500	2110	2120	2100
30	2620	4180	2930	2650	---	10000	3680	3810	3170	2090	2200	2140
31	2870	---	2850	2660	---	26000	---	3070	---	1940	2030	---
TOTAL	86520	93200	101480	77480	70390	140270	372320	115010	87380	76240	63170	72250
MEAN	2791	3107	3274	2499	2514	4525	12410	3710	2913	2459	2038	2408
MAX	3480	6940	8410	2710	2770	26000	61100	7710	4660	3590	2470	4840
MIN	2460	1620	2330	2050	2310	2490	3260	2640	2190	1940	1870	1910

CAL YR 1986 TOTAL 1444960 MEAN 3959 MAX 33700 MIN 1620
WTR YR 1987 TOTAL 1355710 MEAN 3714 MAX 61100 MIN 1620

e Estimated

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: Nov. 13 to Nov. 17, Dec. 6 to Mar. 28, and July 28 to Aug. 1. Records are good except for periods of ice effect, Nov. 13 to Nov. 17, Dec. 6 to Mar. 28, and periods of no gage-height record, July 28 to Aug. 1, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--58 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)
Apr. 1	0115	*15,900	*12.54	Apr. 6	2045	2,780	5.91

Minimum discharge, 8.9 ft³/s, Sept. 8, gage height, 0.96 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	71	137	e86	e55	e40	9120	265	108	92	e16	19
2	122	75	144	e84	e54	e40	1700	263	87	71	15	18
3	121	83	480	e82	e54	e40	853	265	76	77	82	14
4	215	74	591	e80	e54	e40	690	232	73	170	96	12
5	278	66	296	e80	e53	e40	837	232	170	169	48	11
6	203	63	e185	e79	e53	e40	2140	502	120	102	35	9.9
7	170	74	e140	e79	e52	e43	1720	441	81	72	28	9.3
8	140	84	e110	e79	e51	e64	877	288	120	57	26	9.1
9	125	215	e105	e78	e51	e180	547	221	448	50	25	152
10	113	196	e105	e78	e50	e75	447	193	225	112	24	105
11	103	128	e100	e77	e49	e66	576	179	137	176	27	44
12	99	107	e105	e75	e48	e60	699	163	103	281	23	32
13	96	e98	e105	e75	e47	e55	656	152	103	133	20	86
14	95	e87	e105	e73	e46	e52	471	131	88	105	18	563
15	101	e82	e110	e72	e46	e49	404	129	73	388	17	139
16	91	e80	e105	e70	e46	e48	373	131	63	168	18	70
17	85	e80	e100	e68	e45	e47	434	114	177	104	16	53
18	80	78	e98	e67	e45	e45	672	104	101	78	14	44
19	77	65	e97	e67	e44	e44	641	94	69	67	13	36
20	74	65	e96	e66	e44	e46	572	86	63	57	18	40
21	76	74	e97	e65	e43	e55	486	79	52	77	19	153
22	78	89	e96	e65	e43	e300	407	74	45	77	14	107
23	76	97	e96	e64	e42	e340	278	87	85	63	13	68
24	73	111	e91	e63	e42	e335	237	215	91	49	11	51
25	68	162	e145	e63	e41	e445	211	171	57	42	10	43
26	66	163	e305	e61	e41	e550	176	123	55	45	10	37
27	78	884	e175	e60	e41	e585	156	96	242	54	10	37
28	102	322	e120	e56	e41	e505	144	108	660	e33	10	35
29	108	213	e105	e56	---	586	171	126	218	e30	13	31
30	89	154	e97	e56	---	823	221	182	128	e21	27	31
31	76	---	e89	e55	---	6500	---	148	---	e19	21	---
TOTAL	3445	4140	4730	2179	1321	12138	26916	5594	4118	3039	737	2059.3
MEAN	111	138	153	70.3	47.2	392	897	180	137	98.0	23.8	68.6
MAX	278	884	591	86	55	6500	9120	502	660	388	96	563
MIN	66	63	89	55	41	40	144	74	45	19	10	9.1
CFSM	1.15	1.42	1.57	.73	.49	4.04	9.26	1.86	1.42	1.01	.25	.71
IN.	1.32	1.59	1.82	.84	.51	4.66	10.33	2.15	1.58	1.17	.28	.79

CAL YR 1986 TOTAL 74320 MEAN 204 MAX 7040 MIN 14 CFMS 2.10 IN. 28.53
WTR YR 1987 TOTAL 70416.3 MEAN 193 MAX 9120 MIN 9.1 CFMS 1.99 IN. 27.03

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. 8-25, Dec. 28 to Mar 26. Records good except for periods of ice effect, Dec. 8-25, Dec. 28 to Mar. 26, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--46 years, 305 ft³/s, 24.52 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)
Apr. 1	UNKNOWN	*11,600	*10.20	Apr. 8	0400	2,010	4.61

Minimum discharge, 18 ft³/s, Aug. 28, gage height, 0.96 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	64	349	e170	e110	e97	9990	693	146	192	31	24
2	80	61	264	e165	e110	e98	7510	698	139	145	28	24
3	76	61	462	e160	e110	e110	3600	572	120	122	40	23
4	82	60	1010	e155	e110	e110	2170	463	113	117	52	22
5	104	57	859	e150	e110	e105	1560	418	193	137	51	20
6	113	61	675	e150	e105	e110	1410	726	215	156	42	19
7	102	64	482	e145	e105	e150	1790	937	160	122	35	19
8	92	73	e370	e140	e105	e220	1880	722	128	98	31	19
9	84	135	e315	e140	e105	e290	1410	559	158	87	29	25
10	77	235	e320	e135	e105	e330	1070	463	173	85	27	49
11	72	215	e330	e135	e105	e300	872	388	141	99	28	53
12	68	168	e295	e135	e100	e280	741	337	114	136	26	41
13	65	148	e255	e130	e100	e260	638	299	101	105	25	38
14	68	119	e235	e130	e100	e250	554	266	109	91	23	148
15	78	111	e220	e125	e100	e230	491	246	127	84	22	202
16	82	103	e210	e125	e100	e220	426	240	110	73	22	126
17	78	100	e195	e125	e100	e215	446	225	120	63	22	81
18	73	100	e180	e125	e100	e210	705	207	141	56	21	61
19	68	95	e170	e120	e99	e210	780	188	120	51	20	52
20	65	74	e165	e120	e99	e210	635	172	95	47	20	55
21	64	85	e185	e120	e98	e210	528	155	79	48	20	132
22	63	81	e175	e120	e98	e300	456	145	70	50	19	188
23	62	85	e160	e115	e98	e450	393	139	114	51	20	144
24	60	90	e145	e115	e97	e500	355	159	159	47	19	103
25	59	119	e170	e115	e97	e635	336	185	129	43	19	78
26	58	152	264	e115	e97	e990	305	175	100	54	19	63
27	62	460	324	e115	e96	1400	276	153	118	59	18	54
28	67	596	e265	e115	e96	1610	254	138	452	50	18	48
29	71	450	e220	e110	---	1650	305	166	486	41	19	46
30	72	379	e200	e110	---	1850	476	184	290	36	21	59
31	69	---	e180	e110	---	3190	---	165	---	33	22	---
TOTAL	2315	4601	9649	4040	2855	16790	42362	10583	4720	2578	809	2016
MEAN	74.7	153	311	130	102	542	1412	341	157	83.2	26.1	67.2
MAX	113	596	1010	170	110	3190	9990	937	486	192	52	202
MIN	58	57	145	110	96	97	254	138	70	33	18	19
CFSM	.44	.91	1.84	.77	.60	3.20	8.36	2.02	.93	.49	.15	.40
IN.	.51	1.01	2.12	.89	.63	3.70	9.32	2.33	1.04	.57	.18	.44

CAL YR 1986 TOTAL 107407.3 MEAN 294 MAX 5150 MIN 31 CFSM 1.74 IN. 23.64
WTR YR 1987 TOTAL 103318 MEAN 283 MAX 9990 MIN 18 CFSM 1.67 IN. 22.74

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, 21 microsiemens, Apr. 2, 1987.

pH: Maximum recorded, 7.3 units, Aug. 20, 1983, Dec. 20, 21, 1985; minimum, 5.7 units, Apr. 2, 1987.

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, 178 microsiemens, Aug. 16-18; minimum, 21 microsiemens, Apr. 2.

pH: Maximum, 7.0 units, Oct. 1, 2, 5-13, 15, 17; minimum, 5.7 units, Apr. 2.

WATER TEMPERATURES: Maximum, 26.0°C, Aug. 18; minimum, 0.5°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.5 mg/L, Apr. 3; minimum, 3.8 mg/L, Aug. 22.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	135	131	133	141	139	140	107	82	92	---	---	---
2	131	129	130	141	140	140	95	76	86	---	---	---
3	130	128	129	141	138	139	82	75	78	---	---	---
4	130	128	129	141	137	139	82	74	78	---	---	---
5	134	130	132	141	131	137	96	81	89	---	---	---
6	137	133	136	133	128	130	96	84	93	---	---	---
7	138	135	137	130	126	128	84	76	80	---	---	---
8	138	137	137	129	125	127	78	69	73	116	107	110
9	137	133	135	126	122	124	72	69	71	123	112	117
10	135	132	133	125	122	123	74	71	72	130	119	125
11	132	124	128	124	116	119	74	71	72	129	122	125
12	128	122	124	119	116	117	77	73	74	133	122	128
13	125	123	123	132	120	121	82	76	78	130	121	127
14	126	124	125	124	122	123	84	79	81	131	125	129
15	126	125	125	124	123	123	87	80	84	131	126	129
16	125	124	125	124	117	120	97	86	90	130	124	128
17	126	124	125	119	108	113	101	92	98	130	126	127
18	125	124	124	117	104	108	103	98	100	134	127	130
19	125	123	124	113	104	106	107	99	102	134	126	131
20	126	124	125	108	106	107	110	100	105	139	130	135
21	126	123	124	113	107	109	110	106	107	139	132	136
22	125	124	125	116	111	113	---	---	---	139	135	137
23	129	125	127	116	114	114	---	---	---	138	135	137
24	128	123	125	121	114	117	---	---	---	137	135	136
25	126	123	124	128	120	125	---	---	---	137	135	136
26	127	125	127	132	127	128	---	---	---	139	136	137
27	131	127	129	135	129	133	---	---	---	141	136	138
28	132	129	130	138	133	136	---	---	---	141	138	140
29	140	132	136	133	119	127	---	---	---	142	139	140
30	140	133	138	122	97	106	---	---	---	145	141	143
31	139	136	138	---	---	---	---	---	---	150	143	146
MONTH	140	122	129	141	97	123	110	69	86	150	107	132

ANDROSCOGGIN RIVER BASIN
01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	150	146	148	158	152	155	48	23	35	86	78	82
2	155	148	152	154	151	152	24	21	23	95	85	89
3	158	153	155	154	152	153	29	23	26	96	92	94
4	159	155	157	154	152	153	33	28	31	95	90	92
5	159	156	157	154	150	152	36	33	35	91	84	88
6	158	152	155	151	147	150	41	36	39	85	83	84
7	155	147	152	150	147	148	44	38	42	84	81	83
8	152	147	150	148	146	147	37	33	35	82	73	76
9	150	145	148	145	142	144	38	33	36	73	69	71
10	148	144	147	143	138	140	41	37	39	70	61	66
11	147	144	146	142	137	139	44	41	43	63	59	61
12	---	---	---	141	136	138	49	44	47	66	58	64
13	---	---	---	137	135	136	54	49	52	68	62	65
14	---	---	---	136	128	133	55	54	54	75	66	69
15	---	---	---	132	122	127	58	54	56	80	75	77
16	---	---	---	126	118	122	57	55	56	85	78	80
17	---	---	---	124	115	118	59	56	58	90	83	86
18	151	147	149	117	113	115	66	58	62	92	87	90
19	154	148	152	118	114	116	68	64	66	92	88	91
20	155	151	153	120	116	118	66	64	66	95	90	92
21	156	152	154	121	117	120	66	61	63	98	93	96
22	155	153	154	123	119	121	61	57	58	102	98	100
23	154	150	153	125	122	124	59	56	58	105	98	101
24	153	149	151	127	125	126	60	57	59	104	100	102
25	152	149	151	127	123	125	64	59	61	112	104	107
26	155	151	153	124	113	120	66	60	63	121	110	115
27	158	154	156	---	---	---	70	63	67	120	113	117
28	158	155	156	---	---	---	72	68	70	125	119	123
29	---	---	---	---	---	---	76	70	73	125	124	126
30	---	---	---	---	---	---	83	76	79	127	120	126
31	---	---	---	55	49	53	---	---	---	124	119	122
MONTH	159	144	152	158	49	131	83	21	52	128	58	91

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	131	123	127	148	139	144	173	168	170
2	---	---	---	123	108	116	150	143	146	169	165	167
3	129	128	129	125	103	108	---	---	---	168	164	166
4	129	127	128	109	96	104	164	151	157	168	164	166
5	128	126	127	114	103	110	171	159	165	166	164	165
6	127	124	126	110	99	105	174	165	169	167	161	165
7	126	123	125	108	98	105	172	164	168	164	156	161
8	127	125	126	110	105	109	171	167	169	161	153	158
9	129	125	127	119	110	114	172	166	169	160	151	157
10	129	124	126	121	117	118	171	169	170	159	151	156
11	130	128	129	120	117	119	171	169	170	157	153	155
12	129	123	127	119	116	117	174	168	171	158	154	156
13	124	122	123	118	115	116	173	168	171	160	156	158
14	124	115	121	118	114	116	174	169	172	159	157	158
15	118	111	116	130	117	125	174	171	173	164	155	159
16	117	110	114	130	127	129	178	173	175	165	149	158
17	112	108	110	131	128	130	178	174	176	162	153	157
18	111	108	109	132	129	131	178	173	176	155	148	152
19	111	108	109	132	128	130	177	169	175	152	145	149
20	114	109	111	130	127	128	172	168	170	144	140	143
21	113	111	112	129	123	125	173	166	169	140	131	135
22	118	113	115	126	122	124	171	161	167	133	100	111
23	118	116	117	125	121	123	164	161	162	114	103	107
24	120	116	117	125	121	123	163	160	161	120	114	117
25	122	118	119	126	122	123	161	158	160	121	116	119
26	123	119	121	127	123	124	164	158	160	123	117	120
27	126	122	124	128	123	125	168	161	163	123	121	122
28	129	125	127	134	123	127	172	164	169	124	121	123
29	132	128	130	134	128	131	173	169	171	132	122	125
30	132	129	130	145	134	138	172	168	170	124	119	122
31	---	---	---	146	139	142	174	170	172	---	---	---
MONTH	132	108	121	146	96	121	178	139	167	173	100	146

YEAR MAXIMUM 178 MINIMUM 21 MEAN 121

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.7	6.7	6.7	6.6	6.6	6.6	6.4	5.8	6.1	6.6	6.6	6.6
2	6.7	6.6	6.7	6.6	6.6	6.6	5.8	5.7	5.8	6.7	6.6	6.7
3	6.6	6.6	6.6	6.6	6.6	6.6	5.9	5.8	5.8	6.8	6.7	6.8
4	6.7	6.6	6.7	6.6	6.5	6.6	6.0	5.9	6.0	6.8	6.8	6.8
5	6.7	6.6	6.7	6.6	6.5	6.6	6.1	5.9	6.1	6.8	6.8	6.8
6	6.7	6.7	6.7	6.6	6.5	6.6	6.3	6.1	6.2	6.8	6.8	6.8
7	6.7	6.6	6.7	6.6	6.6	6.6	6.3	6.3	6.3	6.8	6.7	6.8
8	6.7	6.6	6.7	6.6	6.6	6.6	6.3	6.3	6.2	6.7	6.7	6.7
9	6.7	6.6	6.7	6.6	6.5	6.6	6.3	6.2	6.2	6.8	6.7	6.7
10	6.7	6.6	6.7	6.6	6.5	6.5	6.3	6.3	6.2	6.8	6.7	6.7
11	6.7	6.6	6.7	6.6	6.5	6.6	6.4	6.3	6.3	6.7	6.7	6.7
12	6.7	6.6	6.7	6.6	6.5	6.6	6.4	6.3	6.4	6.7	6.6	6.7
13	6.7	6.6	6.6	6.6	6.6	6.6	6.5	6.4	6.4	6.6	6.6	6.6
14	6.7	6.6	6.7	6.7	6.6	6.6	6.5	6.5	6.5	6.6	6.5	6.6
15	6.7	6.6	6.7	6.6	6.6	6.6	6.5	6.5	6.5	6.7	6.6	6.6
16	6.7	6.6	6.7	6.6	6.6	6.6	6.5	6.5	6.5	6.8	6.7	6.7
17	6.7	6.6	6.6	6.6	6.6	6.6	6.5	6.4	6.5	6.8	6.6	6.7
18	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.8	6.6	6.7
19	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.6	6.7	6.6	6.7
20	6.7	6.6	6.7	6.6	6.6	6.6	6.6	6.5	6.6	6.7	6.6	6.6
21	6.7	6.6	6.7	6.6	6.6	6.6	6.6	6.5	6.6	6.6	6.5	6.6
22	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.7	6.5	6.6
23	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.8	6.6	6.7
24	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.7	6.6	6.7
25	6.6	6.6	6.6	6.7	6.6	6.6	6.5	6.5	6.5	6.7	6.6	6.7
26	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.7	6.6	6.6
27	6.6	6.6	6.6	---	---	---	6.6	6.5	6.5	6.6	6.5	6.6
28	6.6	6.6	6.6	---	---	---	6.6	6.5	6.5	6.6	6.5	6.6
29	---	---	---	---	---	---	6.6	6.6	6.6	6.7	6.6	6.7
30	---	---	---	---	---	---	6.6	6.6	6.6	6.7	6.6	6.7
31	---	---	---	6.4	6.4	6.4	---	---	---	6.7	6.5	6.6
MONTH	6.7	6.6	6.7	6.7	6.4	6.6	6.6	5.7	6.4	6.8	6.5	6.7

ANDROSCOGGIN RIVER BASIN
01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

YEAR MAXIMUM 7.0 MINIMUM 5.7 MEAN 6.6

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

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

YEAR MAXIMUM 26.0 MINIMUM .5 MEAN 11.0

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN DISSOLVED (DO), (MG/L), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.7	8.0	8.3	9.3	9.1	9.2	13.3	13.0	13.2	---	---	---
2	8.5	8.2	8.3	9.5	9.3	9.4	13.2	12.7	13.0	---	---	---
3	8.4	8.1	8.3	9.6	9.5	9.5	13.0	12.9	13.0	---	---	---
4	8.4	7.9	8.2	9.9	9.6	9.7	13.0	12.9	13.0	---	---	---
5	8.3	8.1	8.2	10.2	9.0	9.7	13.1	12.7	12.9	---	---	---
6	8.4	8.1	8.2	9.3	9.2	9.2	13.3	12.9	13.1	---	---	---
7	8.3	8.0	8.2	9.3	9.2	9.3	13.5	13.2	13.3	---	---	---
8	8.2	8.0	8.1	9.4	9.2	9.3	14.0	13.3	13.8	12.3	12.1	12.2
9	8.2	8.0	8.1	9.5	9.3	9.4	13.9	13.5	13.7	12.3	12.1	12.2
10	8.4	8.2	8.3	9.8	9.5	9.7	13.8	13.3	13.5	12.3	12.1	12.2
11	8.8	8.3	8.5	10.0	9.8	9.9	13.6	13.4	13.5	12.1	11.9	12.0
12	8.9	8.5	8.7	10.2	10.0	10.1	13.5	13.4	13.4	12.1	11.9	11.9
13	8.9	8.8	8.9	10.7	10.2	10.4	13.9	13.4	13.8	12.1	11.8	12.0
14	8.8	8.6	8.7	11.0	10.7	10.9	13.8	13.2	13.5	11.9	11.1	11.3
15	8.9	8.6	8.8	11.0	10.8	10.9	13.6	13.1	13.3	11.9	11.5	11.8
16	8.8	8.6	8.6	10.9	10.8	10.8	13.3	13.1	13.2	11.9	11.7	11.8
17	8.8	8.5	8.7	11.0	10.8	10.9	13.3	13.1	13.2	11.9	11.7	11.8
18	8.8	8.6	8.7	11.2	10.8	11.1	13.3	13.1	13.2	11.8	11.4	11.6
19	8.7	8.5	8.6	11.5	11.2	11.4	13.3	13.1	13.2	11.8	11.3	11.6
20	8.8	8.5	8.6	11.5	11.2	11.4	13.5	13.2	13.3	11.7	11.4	11.5
21	8.9	8.7	8.8	11.7	11.1	11.4	---	13.2	13.3	11.6	11.5	11.5
22	8.8	8.6	8.7	11.8	11.7	11.8	---	---	---	11.9	11.5	11.6
23	8.9	8.7	8.8	11.8	11.4	11.7	---	---	---	11.7	11.5	11.6
24	9.2	8.7	8.9	11.7	11.4	11.4	---	---	---	11.7	11.5	11.6
25	9.1	8.9	8.9	12.1	11.8	12.0	---	---	---	11.8	11.5	11.6
26	9.0	8.7	8.9	12.0	11.5	11.7	---	---	---	11.9	11.4	11.6
27	9.0	8.9	8.9	12.4	11.6	12.1	---	---	---	11.7	11.5	11.6
28	9.1	8.8	8.9	12.2	12.0	12.1	---	---	---	11.6	11.4	11.5
29	9.0	8.9	9.0	12.5	12.1	12.3	---	---	---	11.6	11.3	11.5
30	9.3	9.0	9.1	13.2	12.4	12.9	---	---	---	11.6	11.4	11.5
31	9.2	8.9	9.1	---	---	---	---	---	---	11.6	11.4	11.5
MONTH	9.3	7.9	8.6	13.2	9.0	10.7	14.0	12.7	13.3	12.3	11.1	11.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.6	11.4	11.5	12.0	11.9	11.9	13.8	12.6	13.2	11.4	11.0	11.2
2	11.7	11.3	11.5	12.1	11.9	12.0	14.4	13.8	14.1	11.0	10.7	10.9
3	11.8	11.7	11.8	12.1	12.0	12.1	14.5	14.2	14.4	11.0	10.8	10.9
4	11.9	11.8	11.8	12.1	12.0	12.1	14.2	13.7	13.9	11.0	10.9	11.0
5	11.9	11.8	11.8	12.2	12.0	12.1	13.8	13.4	13.6	11.1	10.8	11.0
6	12.0	11.8	11.9	12.2	12.0	12.1	13.5	13.1	13.3	11.1	10.9	11.0
7	12.0	11.8	11.9	12.3	12.1	12.2	13.2	13.0	13.1	11.0	10.7	10.9
8	12.0	11.9	11.9	12.3	12.0	12.2	13.4	13.2	13.3	10.8	10.7	10.8
9	12.0	11.7	11.9	12.2	12.0	12.1	13.4	13.2	13.3	10.9	10.7	10.8
10	11.9	11.7	11.8	12.2	11.9	12.1	13.3	13.2	13.2	10.9	10.8	10.9
11	11.9	11.7	11.8	12.3	12.1	12.2	13.3	13.1	13.2	10.9	10.6	10.7
12	12.1	11.7	11.9	12.3	12.2	12.3	13.2	12.9	13.0	10.7	10.5	10.6
13	12.0	11.7	11.8	12.3	12.2	12.3	13.0	12.6	12.8	10.5	10.3	10.4
14	11.9	11.6	11.8	12.9	12.2	12.5	12.7	12.6	12.6	10.3	10.0	10.1
15	12.0	11.8	11.9	12.9	12.6	12.7	12.7	12.6	12.6	10.0	9.9	10.0
16	12.0	11.8	11.9	12.9	12.5	12.8	12.8	12.7	12.8	10.0	9.8	9.9
17	12.1	11.7	11.9	12.9	12.5	12.8	12.8	12.7	12.8	9.9	9.6	9.7
18	11.9	11.6	11.7	12.9	12.7	12.8	12.8	12.7	12.8	9.9	9.5	9.7
19	12.0	11.7	11.8	12.8	12.6	12.7	12.8	12.7	12.8	9.8	9.5	9.6
20	11.9	11.7	11.8	12.7	12.6	12.7	12.9	12.8	12.8	9.5	9.1	9.4
21	12.0	11.7	11.8	12.7	12.6	12.7	12.9	12.6	12.7	9.4	8.8	9.2
22	12.0	11.8	11.9	12.8	12.6	12.7	12.6	12.0	12.0	9.2	8.8	9.0
23	12.1	11.8	11.9	12.8	12.6	12.7	12.1	11.8	12.0	9.4	8.9	9.2
24	12.0	11.7	11.9	12.6	12.6	12.6	11.8	11.7	11.7	9.2	8.5	9.1
25	12.0	11.7	11.8	12.7	12.5	12.6	11.6	11.5	11.6	9.0	8.5	8.8
26	11.9	11.7	11.8	12.7	12.6	12.6	11.6	11.5	11.6	8.8	8.5	8.6
27	11.9	11.8	11.8	---	---	---	11.7	11.5	11.6	8.5	7.9	8.3
28	12.0	11.8	11.9	---	---	---	11.7	11.5	11.6	8.6	7.9	8.3
29	---	---	---	---	---	---	11.6	11.4	11.5	8.5	8.0	8.3
30	---	---	---	---	---	---	11.4	11.3	11.3	8.3	7.8	8.1
31	---	---	---	13.4	13.1	13.3	---	---	---	8.5	7.8	8.3
MONTH	12.1	11.3	11.8	13.4	11.9	12.4	14.5	11.3	12.7	11.4	7.8	9.8

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN DISSOLVED (DO), (MG/L), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	6.6	5.8	6.1	6.3	5.3	5.6	6.3	5.8	6.0
2	---	---	---	6.9	6.0	6.5	5.5	4.8	5.1	6.2	5.8	5.9
3	8.2	7.6	7.9	6.7	6.2	6.4	---	---	---	6.5	5.9	6.2
4	8.0	7.6	7.7	6.5	6.1	6.4	4.9	4.5	4.7	6.8	5.9	6.2
5	7.6	7.1	7.4	6.9	6.3	6.6	5.4	4.5	4.9	6.7	5.8	6.2
6	7.3	7.1	7.2	6.5	5.8	6.1	6.2	5.1	5.5	6.0	4.9	5.3
7	7.1	6.5	6.8	6.1	5.6	5.9	5.0	4.2	4.7	5.7	4.8	5.3
8	6.8	6.3	6.6	6.4	5.8	6.2	5.4	4.7	5.1	5.9	5.0	5.4
9	6.8	6.3	6.6	6.4	6.0	6.2	6.8	5.6	6.0	7.0	5.5	6.1
10	7.4	6.6	7.1	6.3	5.9	6.1	7.1	5.6	6.5	8.1	5.7	6.6
11	7.3	6.7	7.1	6.0	5.6	5.8	6.9	6.3	6.6	6.4	5.4	5.9
12	7.4	7.0	7.2	6.0	5.5	5.7	6.5	5.8	6.2	6.7	5.5	5.8
13	7.3	6.8	7.1	5.9	5.5	5.7	6.1	4.5	5.3	7.2	6.0	6.7
14	6.9	6.5	6.7	5.7	5.1	5.5	5.8	4.4	5.4	6.8	6.2	6.6
15	7.9	6.5	7.2	5.4	5.0	5.2	5.9	5.4	5.6	6.4	5.7	6.1
16	7.9	6.9	7.3	5.1	4.7	4.9	5.5	4.8	5.3	6.2	5.6	5.9
17	8.7	7.9	8.2	5.0	4.4	4.7	5.3	4.8	5.0	6.7	5.9	6.3
18	8.1	7.5	7.8	4.5	4.0	4.3	7.6	4.7	5.5	7.0	6.2	6.7
19	7.5	6.9	7.2	6.2	4.1	5.3	5.2	4.1	4.6	6.8	6.7	6.8
20	8.7	6.9	7.6	5.7	4.4	5.0	6.1	5.3	5.8	6.9	6.6	6.8
21	7.5	6.2	6.8	5.6	4.8	5.4	6.8	5.6	6.0	7.3	6.9	7.1
22	7.0	6.5	6.7	5.3	4.7	5.2	6.3	3.8	5.4	7.7	7.1	7.5
23	7.2	6.7	6.9	4.9	4.5	4.7	6.3	5.4	5.9	7.7	7.5	7.6
24	6.7	5.5	6.2	4.8	4.7	4.8	6.4	5.6	5.9	7.8	7.4	7.6
25	6.4	5.3	5.7	4.8	4.5	4.7	5.8	5.3	5.6	7.8	7.1	7.5
26	5.7	4.7	5.3	5.0	4.4	4.6	5.5	5.1	5.3	7.7	6.7	7.4
27	5.6	5.1	5.3	5.1	4.2	4.5	5.7	5.1	5.4	7.6	7.5	7.6
28	5.2	4.9	5.1	6.2	4.4	5.0	5.4	5.0	5.3	7.6	7.4	7.6
29	5.6	4.6	5.0	6.6	4.8	5.4	5.7	5.4	5.5	7.9	7.5	7.7
30	6.2	5.4	5.8	5.5	4.4	5.1	5.7	5.6	5.7	8.0	7.8	7.9
31	---	---	---	6.1	5.1	5.4	6.1	5.5	5.8	---	---	---
MONTH	8.7	4.6	6.8	6.9	4.0	5.5	7.6	3.8	5.5	8.1	4.8	6.6

YEAR MAXIMUM 14.5 MINIMUM 3.8 MEAN 9.5

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°18'12", long 70°32'22", 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: Oct. 24 to Nov. 8, Dec. 1, Dec. 9-25, Dec. 28 to Mar. 8, Mar. 10-25, Sept. 15-18, and Sept. 20-23. Records good except for periods of ice effect, Dec. 1, Dec. 9-25, and Dec. 28 to Mar. 8, and periods of no gage-height record, Mar. 10-15, Sept. 15-18, and Sept. 20-23, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--66 years (water years 1914-23, 1932 to 1987), 139 ft³/s, 25.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,340 ft³/s, Apr. 1, 1987, gage height, 12.22 ft, from rating curve extended above 5,500 ft³/s, on basis of slope-area measurement of peak flow; 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)
Apr. 1	0445	*9,340	*12.22	Apr. 7	1145	1,050	5.88

Minimum discharge, 3.5 ft³/s, Aug. 25, and Aug. 27-29, gage height, 1.54 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	e34	e140	e77	e44	e37	6760	301	59	94	8.0	5.6
2	42	e32	110	e74	e44	e38	2190	289	56	65	7.5	7.0
3	37	e33	276	e71	e44	e41	1100	248	48	56	12	5.8
4	65	e31	548	e69	e43	e42	783	203	43	65	32	4.7
5	88	e28	322	e67	e43	e41	666	184	110	75	22	4.3
6	75	e29	247	e66	e43	e42	736	346	90	57	16	4.1
7	60	e32	185	e64	e43	e48	1030	358	62	43	11	4.0
8	51	e36	142	e62	e43	e71	818	264	55	35	9.4	4.0
9	45	152	e99	e61	e42	114	545	218	116	30	8.4	12
10	38	188	e94	e59	e42	e97	413	183	84	26	7.7	27
11	34	142	e90	e59	e42	e85	337	152	60	78	8.0	23
12	33	116	e89	e58	e41	e79	292	135	46	66	7.6	12
13	31	101	e86	e56	e41	e75	260	121	43	55	6.9	11
14	33	73	e74	e55	e41	e73	235	102	53	49	6.1	134
15	51	68	e74	e54	e41	e71	210	96	47	43	5.7	e150
16	47	64	e74	e53	e40	e69	188	100	36	34	5.4	e70
17	41	63	e72	e51	e40	e69	216	88	57	26	6.1	e36
18	36	61	e70	e50	e40	e69	298	75	52	21	6.2	e16
19	33	55	e70	e49	e39	e70	281	62	38	19	5.3	18
20	32	41	e68	e49	e39	e70	240	63	32	17	4.8	e42
21	31	47	e67	e48	e39	e165	208	59	27	17	4.3	e100
22	30	58	e62	e48	e38	e470	183	56	23	19	3.9	e60
23	30	55	e62	e47	e38	e540	161	53	51	19	4.0	e47
24	e30	66	e63	e47	e38	e460	146	80	73	16	3.7	39
25	e30	106	e90	e46	e38	e480	135	94	47	13	3.6	29
26	e30	105	209	e46	e37	636	128	78	38	16	3.6	23
27	e34	333	178	e45	e37	733	116	64	86	24	3.5	21
28	e36	275	e120	e45	e36	726	102	58	367	17	3.5	20
29	e37	206	e105	e45	---	688	140	78	216	13	4.0	18
30	e38	160	e93	e45	---	834	223	79	137	10	6.2	19
31	e36	---	e82	e44	---	3190	---	67	---	9.1	6.5	---
TOTAL	1286	2790	4061	1710	1136	10223	19140	4354	2252	1127.1	242.9	966.5
MEAN	41.5	93.0	131	55.2	40.6	330	638	140	75.1	36.4	7.84	32.2
MAX	88	333	548	77	44	3190	6760	358	367	94	32	150
MIN	30	28	62	44	36	37	102	53	23	9.1	3.5	4.0
CFSM	.56	1.27	1.78	.75	.55	4.49	8.68	1.91	1.02	.49	.11	.44
IN.	.65	1.41	2.06	.87	.57	5.17	9.69	2.20	1.14	.57	.12	.49

CAL YR 1986 TOTAL 52299.5 MEAN 143 MAX 3140 MIN 6.5 CFSM 1.95 IN. 26.47
WTR YR 1987 TOTAL 49288.5 MEAN 135 MAX 6760 MIN 3.5 CFSM 1.84 IN. 24.95

e Estimated

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: Dec. 10 to Feb. 17. Records good except for period of ice effect, Feb. 11-17, and for period of no gage-height record, Dec. 10 to Feb. 11, which are rated as fair. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Azischohos, 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.--59 years, 6,142 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, 103,000 ft³/s, Apr. 2, gage height, 23.71 ft; minimum daily, 1,350 ft³/s, Aug. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3250	3030	5820	e4100	e3050	3490	79100	7900	4730	5380	2390	2740
2	3150	3010	5410	e4200	e3250	3480	99600	8730	4610	4000	2350	2360
3	3220	3020	6500	e4050	e3200	3480	70600	8240	4160	3850	3020	1490
4	3560	3040	10100	e3800	e3300	3600	44100	8180	3190	3930	3490	3380
5	3900	3170	13700	e3500	e3300	3510	33000	7700	4090	3890	3010	3750
6	4590	3160	9370	e3600	e3300	3430	31000	8410	3880	3640	2310	2430
7	4600	3180	7980	e3400	e3200	3530	37700	13400	3890	3080	2330	2220
8	4180	3070	6370	e3500	e3000	3570	37100	11100	3700	3650	2320	2140
9	3820	3170	6030	e3300	e3350	3590	29900	9070	3140	3750	2350	2430
10	3590	3500	e4700	e3150	e3500	4220	23700	7870	5650	3810	2370	2310
11	3610	5750	e4000	e3050	e3350	4150	18200	7480	6110	3280	1490	1750
12	3300	5620	e3850	e3100	e3250	4240	15600	6630	5660	3540	2500	2300
13	3630	3870	e4100	e3800	e3150	4240	15700	6090	3780	3580	3250	3120
14	3590	3790	e4500	e3650	e2850	4230	13400	6140	3570	4070	3180	3460
15	3470	3770	e3700	e3600	e3150	4230	12400	6020	3610	2780	3040	5510
16	3440	3770	e3850	e3550	e3000	4130	11000	5680	3680	2040	3130	5130
17	3560	3760	e4000	e3650	e3050	3790	11200	5170	3860	3040	3470	3070
18	3640	2070	e4150	e3250	3260	3790	12400	5280	3710	3730	3100	2450
19	3470	2100	e4300	e3200	3350	3640	14100	5000	3490	3920	1460	2700
20	3210	2950	e4250	e3250	3070	3630	13000	4360	3270	3650	1410	2430
21	2940	3460	e4250	e3800	2850	3760	12500	4270	3140	2850	1390	4140
22	3100	2790	e3450	e3600	2760	3920	11100	3500	3460	2610	1350	4060
23	3030	2630	e3850	e3150	3030	4700	9950	3300	3790	2580	1380	4110
24	3000	2660	e4350	e3150	3170	6780	8210	3090	3740	2960	1440	4240
25	3060	4210	e4450	e3300	3040	7960	7780	3730	3940	2250	1420	3750
26	3050	5170	e4350	e3400	3270	12000	7260	4500	3900	1990	1410	2860
27	3040	6230	e4400	e3550	3490	16000	7100	4440	3510	2290	1410	2590
28	3020	10100	e4400	e3550	3500	17400	6990	4360	2410	2930	1490	2530
29	3040	9280	e4450	e3600	---	17300	7020	4430	5460	1580	1700	2850
30	3040	7350	e4250	e3600	---	18900	3810	4150	7060	3550	1590	3520
31	3200	---	e4100	e3050	---	32100	---	4570	---	2310	2160	---
TOTAL	106300	122680	162980	108450	89040	216790	704520	192790	122190	100510	68710	91820
MEAN	3429	4089	5257	3498	3180	6993	23480	6219	4073	3242	2216	3061
MAX	4600	10100	13700	4200	3500	32100	99600	13400	7060	5380	3490	5510
MIN	2940	2070	3450	3050	2760	3430	3810	3090	2410	1580	1350	1490

CAL YR 1986 TOTAL 2214731 MEAN 6068 MAX 55200 MIN 691
WTR YR 1987 TOTAL 2086780 MEAN 5717 MAX 99600 MIN 1350

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, 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 1986 TO SEPTEMBER 1987

DATE	TIME	DIS-CHARGE,	SPE-CIFIC	PH	TEMPER-	TEMPER-	TUR-BID-ITY	BARO-METRIC	OXYGEN,	OXYGEN,	COLI-	STREP-
		IN CUBIC FEET PER SECOND	CON-DUCT-ANCE (US/CM)		(STAND-ARD UNITS)	ATURE AIR (DEG C)		ATURE WATER (DEG C)		PRES-SURE (MM OF HG)	DIS-SOLVED (PER-CENT SATUR-ATION)	SOLVED (PER-CENT SATUR-ATION)
DEC 03...	0930	6840	88	6.7	13.0	0.5	5.7	750	14.8	104	210	180
FEB 05...	1430	3470	153	7.1	-5.0	0.0	4.6	770	14.6	99	--	74
APR 16...	0900	11600	54	7.0	--	7.0	3.0	770	13.2	108	190	--
JUN 22...	1445	3640	98	6.9	22.0	21.0	1.9	760	8.7	98	K 28	K 21
AUG 06...	0915	2430	150	7.1	21.5	23.0	10	760	8.3	97	210	110

DATE	HARD-NESS TOTAL (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)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
DEC 03...	15	4.5	0.90	10	1.1	--	--	--	L 12	16	11
FEB 05...	21	6.7	1.1	21	1.3	21	0	17	18	19	22
APR 16...	13	3.9	0.90	5.9	0.6	8	0	7	8	13	10
JUN 22...	18	5.5	0.95	14	1.2	13	0	11	11	12	17
AUG 06...	20	6.1	1.1	21	1.6	19	0	16	17	19	21

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 1986 TO SEPTEMBER 1987

DATE	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)	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- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)
DEC 03...	<0.1	5.2	54	57	0.23	0.15	0.19	0.8	0.04	0.01	<0.01
FEB 05...	<0.1	5.9	97	89	0.24	0.13	0.17	0.4	0.04	0.03	0.02
APR 16...	<0.1	5.0	45	45	0.19	0.02	0.03	0.5	0.02	0.02	<0.01
JUN 22...	<0.1	4.8	75	63	0.24	0.07	0.09	1.7	0.03	0.03	0.03
AUG 06...	0.1	4.9	85	87	0.24	0.04	0.05	1.0	0.04	0.02	0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	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)
DEC 03...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	130	<1	15	<0.5	<1	<1	<3	3	170	<5	<4	49
APR 16...	110	<1	10	<0.5	1	<1	<3	5	89	<5	<4	41
JUN 22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	80	<1	14	0.7	<1	<1	<3	1	230	<5	<4	8

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	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
DEC 03...	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<0.1	<10	2	<1	<1.0	32	<6	10	6	56	82
APR 16...	<0.1	<10	1	14	<1.0	24	<6	18	8	251	81
JUN 22...	--	--	--	--	--	--	--	--	11	108	83
AUG 06...	<0.1	<10	<1	<1	<1.0	31	<6	13	9	59	56

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 1986 TO SEPTEMBER 1987

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1986	1,004	5,408	3,307	7,206
OCT. 31.	710	6,651	2,649	6,436
NOV. 30.	516	6,083	3,640	4,760
DEC. 31.	543	5,622	3,714	4,410
JAN. 31, 1987	529	3,858	2,503	2,159
FEB. 28.	502	1,000	1,443	1,960
MAR. 31.	1,088	967	1,320	3,014
APR. 30.	1,313	6,509	5,012	7,024
MAY 31.	1,450	7,152	5,106	7,862
JUNE 30.	1,366	7,295	4,900	8,605
JULY 31.	1,212	6,190	4,380	8,260
AUG. 31.	947	5,160	3,344	6,380
SEPT. 30.	727	4,574	4,102	5,020

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1986	1,977	2,384	496	1,611
OCT. 31.	1,156	2,354	452	1,539
NOV. 30.	1,488	2,472	452	1,537
DEC. 31.	985	2,451	520	1,651
JAN. 31, 1987	2,554	2,336	544	1,710
FEB. 28.	2,476	2,309	485	1,710
MAR. 31.	2,807	2,464	628	1,808
APR. 30.	2,320	2,406	580	2,012
MAY 31.	2,417	2,473	544	1,837
JUNE 30.	2,436	2,358	496	1,852
JULY 31.	2,129	2,376	452	1,864
AUG. 31.	1,812	2,469	375	1,769
SEPT. 30.	1,830	2,074	353	1,674

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. 8 to Mar. 23. Records good except for periods of ice effect, Dec. 8 to Mar. 23, 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.--38 years, 275 ft³/s, 26.49 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges 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)
Dec. 4	0500	3,340	4.84	Apr. 7	1900	1,930	3.76
Apr. 1	1400	*8,440	*7.83				

Minimum daily discharge, 29 ft³/s, Sept. 6-8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	48	154	e155	e84	e70	6670	868	224	111	38	36
2	41	48	155	e140	e84	e70	5870	534	137	92	37	35
3	43	47	1650	e125	e84	e71	2570	364	101	88	53	32
4	47	46	2950	e125	e84	e72	1310	285	91	90	79	31
5	63	45	1450	e120	e84	e72	1010	310	165	90	62	30
6	72	52	666	e115	e84	e72	1270	1010	252	90	54	29
7	61	69	356	e110	e84	e72	1890	1090	165	84	48	29
8	54	91	e250	e110	e83	e84	1570	581	136	76	46	29
9	50	181	e210	e105	e82	e105	1060	380	248	68	53	36
10	48	191	e185	e105	e82	e145	760	306	227	67	48	53
11	45	132	e160	e105	e82	e135	536	254	148	66	45	49
12	44	108	e145	e100	e82	e120	430	222	117	65	43	40
13	44	107	e130	e100	e82	e115	368	199	103	66	40	39
14	46	89	e115	e99	e81	e110	317	178	99	61	39	124
15	54	80	e110	e98	e81	e110	288	168	89	66	37	118
16	57	74	e105	e96	e80	e110	267	163	82	62	37	64
17	56	73	e100	e95	e80	e105	375	148	81	58	36	54
18	50	71	e99	e94	e78	e105	922	140	77	53	34	45
19	47	68	e105	e93	e77	e110	972	130	70	52	34	40
20	46	57	e290	e92	e76	e120	585	118	63	52	34	90
21	45	175	e210	e91	e75	e150	418	112	58	53	35	298
22	44	319	e170	e90	e75	e220	342	106	56	55	34	186
23	50	191	e145	e89	e74	e400	291	101	258	51	34	116
24	47	189	e135	e88	e74	623	261	133	302	49	33	86
25	42	279	e200	e88	e74	981	242	159	167	47	33	72
26	41	279	e680	e87	e73	1260	214	132	119	47	32	65
27	46	1080	e400	e86	e72	1340	192	115	123	51	32	57
28	50	835	e310	e86	e70	1500	180	106	314	51	31	52
29	59	406	e230	e86	---	1490	271	102	231	48	32	49
30	56	263	e200	e85	---	1720	685	96	147	43	35	49
31	50	---	e180	e85	---	3100	---	92	---	39	36	---
TOTAL	1538	5693	12245	3143	2221	14757	32136	8702	4450	1991	1264	2033
MEAN	49.6	190	395	101	79.3	476	1071	281	148	64.2	40.8	67.8
MAX	72	1080	2950	155	84	3100	6670	1090	314	111	79	298
MIN	40	45	99	85	70	70	180	92	56	39	31	29
CFSM	.35	1.35	2.80	.72	.56	3.38	7.60	1.99	1.05	.46	.29	.48
IN.	.41	1.50	3.23	.83	.59	3.89	8.48	2.30	1.17	.53	.33	.54

CAL YR 1986 TOTAL 89168 MEAN 244 MAX 4480 MIN 34 CFSM 1.73 IN. 23.53
WTR YR 1987 TOTAL 90173 MEAN 247 MAX 6670 MIN 29 CFSM 1.75 IN. 23.79

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.--100 years, 659 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	655	350	437	831	819	546	.00	819	831	350	350	350
2	670	350	437	819	819	500	175	819	831	350	350	350
3	670	350	437	831	819	500	175	819	670	350	350	350
4	670	350	670	831	819	500	175	819	670	350	350	350
5	670	350	670	831	819	500	175	819	670	350	337	350
6	670	350	670	831	819	500	175	819	670	350	340	350
7	670	350	670	819	819	500	175	819	50	350	340	350
8	670	350	670	819	819	500	175	819	50	350	350	350
9	670	350	670	819	819	414	175	831	50	350	350	350
10	670	350	670	819	819	414	175	831	50	350	340	350
11	670	350	831	819	819	414	277	831	50	350	340	350
12	670	350	831	819	819	414	860	831	525	350	340	350
13	670	350	831	831	819	432	860	831	525	350	350	350
14	670	350	831	819	819	414	860	831	525	350	350	350
15	670	350	831	819	819	414	944	831	525	350	350	350
16	670	350	831	831	819	414	1210	831	525	350	340	350
17	670	350	831	831	819	273	1210	831	525	350	350	350
18	670	350	831	819	819	273	1210	831	525	350	350	350
19	670	350	831	819	819	273	1210	831	525	350	350	350
20	670	350	831	831	819	273	1210	831	527	350	350	350
21	670	350	831	819	806	273	1210	831	527	350	350	588
22	418	350	831	819	806	273	1210	831	527	350	340	358
23	418	350	831	819	806	273	1210	831	527	350	337	350
24	418	350	831	819	546	273	1300	831	415	350	337	350
25	350	350	567	819	546	273	1300	831	415	350	337	350
26	350	350	819	819	546	273	1300	831	415	350	340	350
27	350	350	831	819	546	273	1300	819	415	350	350	350
28	350	350	831	819	546	273	1300	510	415	350	350	350
29	350	350	831	819	---	273	1300	831	415	350	350	350
30	350	350	831	819	---	273	1300	831	350	350	350	350
31	350	---	831	819	---	91	---	831	---	350	350	---
TOTAL	17759	10500	23176	25497	21528	11289	24156.00	25332	13740	10850	10718	10746
MEAN	573	350	748	822	769	364	805	817	458	350	346	358
MAX	670	350	831	831	819	546	1300	831	831	350	350	588
MIN	350	350	437	819	546	91	.00	510	50	350	337	350

CAL YR 1986 TOTAL 239141 MEAN 655 MAX 998 MIN 175
WTR YR 1987 TOTAL 205291.00 MEAN 562 MAX 1300 MIN .00

01064118 PRESUMPCOT 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. 9, 21, 31, Feb. 24 to Mar. 21, Apr. 1-8, Apr. 16 to May 13, June 24 to Sept. 12, Sept. 16, 18-19, 22-30. Records fair. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--12 years, 987 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, 7,360 ft³/s, Apr. 1, gage height 20.83 ft; minimum daily, 184 ft³/s, June 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	666	486	542	1070	903	e600	e7100	e1700	1060	e470	e385	e385
2	656	498	430	1070	907	e570	e5000	e1400	1230	e450	e390	e385
3	599	504	2950	1010	933	e580	e2500	e1200	489	e450	e405	e380
4	648	466	2550	1050	1030	e580	e1400	e1150	695	e450	e425	e380
5	772	458	1030	1040	940	e570	e1200	e1300	1160	e450	e410	e380
6	647	497	998	1020	880	e570	e1700	e1800	1160	e450	e395	e380
7	754	513	1070	1060	858	e580	e2500	e2100	964	e440	e390	e380
8	583	579	891	1010	838	e560	e1700	e1500	367	e430	e395	e380
9	e620	744	583	976	777	e540	1240	e1200	243	e420	e395	e385
10	671	667	1040	1050	726	e550	987	e1150	222	e420	e390	e400
11	721	550	1040	1020	738	e540	1060	e1100	184	e420	e390	e395
12	717	502	1040	997	827	e530	1040	e1050	187	e420	e390	e390
13	727	528	1190	1000	855	e520	754	e1050	1020	e420	e390	367
14	690	526	1070	1010	920	e510	1040	1090	993	e420	e385	563
15	714	365	1070	973	940	e510	1510	1060	909	e420	e380	449
16	692	356	988	955	908	e490	e1700	1140	565	e420	e380	e435
17	764	316	934	909	897	e380	e1950	1190	534	e420	e385	392
18	698	437	968	991	841	e370	e2200	1170	622	e420	e390	e385
19	632	515	1830	1000	867	e370	e2400	1150	450	e420	e390	e380
20	549	381	1640	996	824	e380	e1700	1140	750	e415	e390	499
21	e560	742	1330	972	793	e400	e1650	1140	769	e410	e385	834
22	578	845	1120	956	880	578	e1500	1180	792	e405	e375	e620
23	589	637	1140	850	726	954	e1450	1170	1330	e400	e375	e490
24	529	600	1040	983	e620	1260	e1550	1210	e900	e400	e370	e430
25	490	619	1750	959	e610	1490	e1550	1200	e640	e400	e375	e415
26	513	679	1900	982	e610	1640	e1500	1200	e550	e400	e375	e410
27	536	1710	1400	1020	e600	1540	e1450	1330	e570	e405	e380	e405
28	489	1180	1330	987	e600	1720	e1500	1250	e740	e410	e385	e400
29	354	500	1190	962	---	1670	e1700	978	e580	e405	e385	e400
30	488	636	1130	877	---	1730	e2000	1110	e485	e395	e390	e400
31	e490	---	1110	925	---	3890	---	1100	---	e390	e390	---
TOTAL	19136	18036	38294	30680	22848	27172	56531	38508	21160	13045	12035	12894
MEAN	617	601	1235	990	816	877	1884	1242	705	421	388	430
MAX	772	1710	2950	1070	1030	3890	7100	2100	1330	470	425	834
MIN	354	316	430	850	600	370	754	978	184	390	370	367

CAL YR 1986 TOTAL 337411 MEAN 924 MAX 5390 MIN 240
WTR YR 1987 TOTAL 310339 MEAN 850 MAX 7100 MIN 184

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 current year.

pH: July 1976 to current year.

WATER TEMPERATURES: July 1976 to current year.

DISSOLVED OXYGEN: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1976. Continuous flow through system. Suction lift pump located in shelter house. 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 1986 TO SEPTEMBER 1987

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 (FTU)	BARO-METRIC PRES-SURE (MM HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML)
DEC 03...	1145	3060	87	6.8	13.0	3.0	83	740	13.4	103	>3000	>5000
FEB 05...	1100	974	96	7.0	-5.0	0.0	3.2	770	14.5	98	--	50
APR 20...	1030	1760	65	7.3	--	7.5	3.7	770	12.0	99	400	130
JUN 22...	1030	821	98	7.2	25.0	22.5	2.6	760	8.1	94	330	K 42
AUG 06...	1315	409	145	7.2	20.5	24.0	12	760	7.0	83	1000	95

DATE		HARD-NESS TOTAL (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)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
DEC 03...	18	5.4	1.0	9.0	1.6	--	--	--	--	--	12	12
FEB 05...	17	5.5	0.90	11	0.8	16	0	13	14	12	11	
APR 20...	15	4.4	1.0	7.5	1.0	13	0	11	12	10	9.4	
JUN 22...	21	6.9	0.83	12	1.0	20	0	16	16	15	14	
AUG 06...	22	7.3	0.91	20	1.4	32	0	26	27	16	20	

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	FLUORIDE, 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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DIS-SOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
DEC 03...	<0.1	3.4	61	54	0.26	0.05	0.06	1.7	0.11	0.08	<0.05
FEB 05...	<0.1	2.9	58	53	0.16	0.05	0.06	0.6	0.03	0.03	0.03
APR 20...	<0.1	3.1	44	44	0.10	<0.01	--	0.8	0.02	0.02	<0.01
JUN 22...	<0.1	2.1	68	62	0.20	0.06	0.08	0.4	0.03	0.02	<0.01
AUG 06...	0.1	2.2	83	84	<0.10	0.03	0.04	0.7	0.04	0.01	0.02

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, 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)	MANGANESE, DIS-SOLVED (UG/L AS MN)
DEC 03...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	30	<1	12	<0.5	<1	<1	<3	2	37	<5	4	23
APR 20...	60	<1	8	<0.5	1	<1	<3	4	58	<5	5	17
JUN 22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	20	<1	13	0.7	<1	<1	<3	1	49	<5	<4	46

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 03...	--	--	--	--	--	--	--	--	282	2330	73
FEB 05...	<0.1	<10	<1	<1	<1.0	32	<6	3	3	7.9	73
APR 20...	<0.1	<10	<1	<1	<1.0	25	<6	18	34	162	19
JUN 22...	--	--	--	--	--	--	--	--	16	35	28
AUG 06...	<0.1	<10	<1	<1	<1.0	32	<6	6	7	7.7	87

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	116	76	96	164	150	156	---	---	---	---	---	---
2	128	112	121	166	150	159	---	---	---	---	---	---
3	127	101	111	159	145	150	---	---	---	---	---	---
4	119	103	106	159	141	148	---	---	---	---	---	---
5	108	86	100	---	---	---	---	---	---	---	---	---
6	108	89	101	---	---	---	---	---	---	---	---	---
7	105	91	100	---	---	---	---	---	---	---	---	---
8	108	101	104	---	---	---	---	---	---	---	---	---
9	114	98	105	---	---	---	---	---	---	---	---	---
10	123	99	109	---	---	---	---	---	---	---	---	---
11	117	112	115	---	---	---	---	---	---	---	---	---
12	120	88	107	---	---	---	---	---	---	---	---	---
13	105	99	102	---	---	---	---	---	---	---	---	---
14	109	95	104	---	---	---	---	---	---	---	---	---
15	115	94	104	---	---	---	---	---	---	---	---	---
16	107	84	102	---	---	---	---	---	---	---	---	---
17	112	101	107	---	---	---	---	---	---	---	---	---
18	112	104	107	---	---	---	---	---	---	---	---	---
19	105	96	103	---	---	---	---	---	---	---	---	---
20	115	98	105	---	---	---	---	---	---	---	---	---
21	144	115	129	---	---	---	---	---	---	---	---	---
22	144	130	138	---	---	---	---	---	---	---	---	---
23	142	123	133	---	---	---	---	---	---	---	---	---
24	138	125	132	---	---	---	---	---	---	---	---	---
25	163	141	157	---	---	---	---	---	---	---	---	---
26	162	154	158	---	---	---	---	---	---	---	---	---
27	163	120	145	---	---	---	---	---	---	---	---	---
28	141	127	135	---	---	---	---	---	---	---	---	---
29	149	143	146	---	---	---	---	---	---	---	---	---
30	156	144	152	---	---	---	---	---	---	---	---	---
31	155	148	152	---	---	---	---	---	---	---	---	---
MONTH	163	76	119	166	141	153	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	86	77	81
3	---	---	---	---	---	---	---	---	---	86	78	82
4	---	---	---	---	---	---	---	---	---	90	81	86
5	---	---	---	---	---	---	---	---	---	100	85	94
6	---	---	---	---	---	---	---	---	---	82	71	74
7	---	---	---	---	---	---	---	---	---	88	74	80
8	---	---	---	---	---	---	---	---	---	90	85	88
9	---	---	---	---	---	---	---	---	---	90	81	86
10	---	---	---	---	---	---	---	---	---	89	80	83
11	---	---	---	---	---	---	---	---	---	85	79	82
12	---	---	---	---	---	---	---	---	---	83	74	81
13	---	---	---	---	---	---	---	---	---	86	81	84
14	---	---	---	---	---	---	---	---	---	86	76	81
15	---	---	---	---	---	---	---	---	---	87	75	79
16	---	---	---	---	---	---	---	---	---	89	82	85
17	---	---	---	---	---	---	---	---	---	87	79	83
18	---	---	---	---	---	---	---	---	---	90	82	85
19	---	---	---	---	---	---	---	---	---	93	84	90
20	---	---	---	---	---	---	---	---	---	92	80	88
21	---	---	---	---	---	---	---	---	---	89	80	85
22	---	---	---	---	---	---	---	---	---	97	86	91
23	---	---	---	---	---	---	---	---	---	98	89	93
24	---	---	---	---	---	---	---	---	---	99	87	92
25	---	---	---	---	---	---	---	---	---	92	87	90
26	---	---	---	---	---	---	---	---	---	88	75	82
27	---	---	---	---	---	---	---	---	---	77	69	74
28	---	---	---	---	---	---	---	---	---	87	71	76
29	---	---	---	---	---	---	---	---	---	138	84	102
30	---	---	---	---	---	---	---	---	---	93	82	87
31	---	---	---	---	---	---	---	---	---	89	82	86
MONTH	---	---	---	---	---	---	---	---	---	138	69	85

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	88	79	83	126	119	123	136	127	133	178	136	165
2	87	69	76	126	118	122	151	139	144	240	172	204
3	119	80	89	127	118	121	148	120	142	184	103	131
4	116	87	103	131	119	125	137	123	128	117	101	110
5	103	77	91	138	129	132	161	137	155	142	111	122
6	94	81	87	137	131	134	160	148	155	136	98	118
7	91	62	78	145	135	139	155	144	149	147	139	144
8	184	72	116	161	139	153	153	142	147	158	148	153
9	185	98	127	160	145	152	164	149	156	163	152	156
10	123	97	107	147	142	144	155	125	149	158	132	144
11	130	91	108	144	140	142	140	119	131	151	128	135
12	173	112	128	147	141	144	145	130	134	163	141	153
13	177	79	99	152	145	148	151	132	141	163	143	152
14	108	80	93	154	140	147	161	149	153	152	111	140
15	77	68	73	154	140	148	186	160	180	126	107	113
16	79	70	74	150	142	146	190	166	180	144	128	136
17	90	71	81	161	147	153	164	105	147	151	143	148
18	96	84	93	155	142	148	157	94	115	155	144	149
19	117	81	107	151	121	144	157	93	120	145	135	141
20	108	96	101	146	109	131	154	127	140	154	130	144
21	101	93	97	152	131	140	131	107	121	150	66	118
22	104	94	99	165	152	156	162	125	148	114	69	97
23	117	71	93	169	161	165	179	161	173	131	117	127
24	102	83	89	167	163	164	176	151	160	138	123	133
25	106	89	98	164	154	158	166	145	155	153	137	148
26	101	87	92	162	147	153	173	144	165	147	141	145
27	127	101	114	149	137	142	155	123	143	155	139	148
28	121	94	101	156	140	147	144	120	134	151	140	147
29	118	100	106	172	152	165	192	146	181	140	135	138
30	124	116	120	174	101	126	192	171	183	153	141	147
31	---	---	---	149	82	119	182	141	171	---	---	---
MONTH	185	62	97	174	82	143	192	93	149	240	66	140

PERIOD MAXIMUM 240 MINIMUM 62 MEAN 123

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.2	6.9	7.0	7.3	7.2	7.3	---	---	---	---	---	---
2	7.2	7.0	7.1	7.2	7.2	7.2	---	---	---	---	---	---
3	7.1	7.0	7.0	7.2	7.1	7.2	---	---	---	---	---	---
4	7.1	7.0	7.0	7.2	7.2	7.2	---	---	---	---	---	---
5	7.1	7.0	7.0	---	---	---	---	---	---	---	---	---
6	7.1	7.0	7.1	---	---	---	---	---	---	---	---	---
7	7.1	7.0	7.0	---	---	---	---	---	---	---	---	---
8	7.1	7.0	7.1	---	---	---	---	---	---	---	---	---
9	7.1	7.0	7.0	---	---	---	---	---	---	---	---	---
10	7.0	6.9	6.9	---	---	---	---	---	---	---	---	---
11	7.1	7.1	7.1	---	---	---	---	---	---	---	---	---
12	7.2	7.1	7.1	---	---	---	---	---	---	---	---	---
13	7.2	7.1	7.2	---	---	---	---	---	---	---	---	---
14	7.1	7.0	7.1	---	---	---	---	---	---	---	---	---
15	7.2	7.1	7.1	---	---	---	---	---	---	---	---	---
16	7.2	7.1	7.2	---	---	---	---	---	---	---	---	---
17	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
18	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
19	7.2	7.1	7.2	---	---	---	---	---	---	---	---	---
20	7.2	7.1	7.1	---	---	---	---	---	---	---	---	---
21	7.2	7.1	7.1	---	---	---	---	---	---	---	---	---
22	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
23	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
24	7.2	7.1	7.2	---	---	---	---	---	---	---	---	---
25	7.2	7.1	7.2	---	---	---	---	---	---	---	---	---
26	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
27	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
28	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
29	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
30	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
31	7.2	7.2	7.2	---	---	---	---	---	---	---	---	---
MONTH	7.3	6.9	7.1	7.3	7.1	7.2	---	---	---	---	---	---

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	6.9	6.9	7.1	7.0	7.0	7.4	7.2	7.3	7.2	7.0	7.1
2	6.9	6.8	6.9	7.0	6.9	7.0	7.3	7.2	7.2	7.2	7.0	7.1
3	6.9	6.8	6.9	7.1	7.0	7.0	7.3	7.2	7.3	7.1	7.0	7.1
4	6.9	6.9	6.9	7.1	7.0	7.0	7.3	7.3	7.3	7.1	7.0	7.0
5	6.9	6.8	6.9	7.1	7.0	7.0	7.4	7.3	7.3	7.2	7.1	7.1
6	7.0	6.9	6.9	7.0	7.0	7.0	7.4	7.0	7.2	7.2	7.0	7.1
7	7.0	6.7	6.9	7.1	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.1
8	7.1	6.7	6.8	7.0	6.9	7.0	7.2	7.0	7.1	7.0	7.0	7.0
9	7.1	6.8	6.9	7.0	6.9	7.0	7.2	7.1	7.2	7.0	6.9	7.0
10	7.0	6.8	6.9	7.3	6.9	7.1	7.1	7.0	7.1	7.0	6.9	6.9
11	6.9	6.7	6.8	7.2	6.9	7.0	7.1	7.0	7.1	7.1	6.9	7.0
12	7.0	6.8	6.9	7.0	6.9	6.9	7.2	7.1	7.1	7.1	7.0	7.1
13	7.2	7.0	7.0	6.9	6.8	6.9	7.2	7.1	7.1	7.1	6.9	7.0
14	7.2	7.1	7.1	7.0	6.8	6.9	7.1	7.1	7.1	6.9	6.8	6.9
15	7.1	6.9	7.0	6.9	6.9	6.9	7.2	7.1	7.1	6.9	6.8	6.8
16	7.1	7.0	7.1	7.0	6.9	6.9	7.2	7.0	7.1	7.0	6.8	6.9
17	7.1	7.0	7.0	7.1	7.0	7.0	7.1	6.9	7.0	6.9	6.8	6.9
18	7.1	7.0	7.0	7.1	7.0	7.0	7.0	6.8	6.9	6.9	6.9	6.9
19	7.2	7.0	7.1	7.1	7.0	7.0	7.0	6.8	6.9	7.0	6.9	6.9
20	7.2	7.0	7.1	7.1	6.9	7.0	7.0	6.9	6.9	7.0	6.9	7.0
21	7.0	6.9	7.0	7.1	7.0	7.1	6.9	6.8	6.9	6.9	6.7	6.9
22	7.1	6.9	7.0	7.2	7.1	7.1	6.9	6.8	6.9	7.0	6.7	6.9
23	7.2	7.0	7.1	7.3	7.1	7.1	7.0	6.9	6.9	7.0	6.9	6.9
24	7.1	7.0	7.0	7.2	7.2	7.2	7.0	6.9	6.9	6.9	6.8	6.9
25	7.2	7.1	7.1	7.2	7.1	7.2	7.1	6.9	7.0	7.0	6.9	7.0
26	7.1	7.0	7.1	7.1	7.0	7.1	7.1	7.0	7.1	7.0	6.9	7.0
27	7.1	7.0	7.1	7.1	6.9	7.0	7.2	7.0	7.1	7.1	6.9	7.0
28	7.0	6.9	7.0	7.2	7.1	7.1	7.2	7.1	7.2	7.1	7.0	7.0
29	7.0	7.0	7.0	7.2	7.1	7.2	7.1	7.1	7.1	7.0	6.9	7.0
30	7.1	7.0	7.0	7.3	6.9	7.1	7.1	7.1	7.1	7.0	6.8	6.9
31	---	---	---	7.4	7.0	7.2	7.1	7.0	7.1	---	---	---
MONTH	7.2	6.7	7.0	7.4	6.8	7.0	7.4	6.8	7.1	7.2	6.7	7.0

PERIOD MAXIMUM 7.4 MINIMUM 6.7 MEAN 7.0

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	17.5	18.0	11.0	11.0	11.5	---	---	---	---	---	---
2	18.0	18.0	18.5	11.0	11.0	11.5	---	---	---	---	---	---
3	17.5	17.5	18.0	10.0	10.0	10.5	---	---	---	---	---	---
4	17.5	17.5	17.5	10.0	10.0	10.5	---	---	---	---	---	---
5	17.5	17.5	17.5	---	---	---	---	---	---	---	---	---
6	16.0	16.0	17.0	---	---	---	---	---	---	---	---	---
7	15.0	15.0	15.5	---	---	---	---	---	---	---	---	---
8	14.5	14.5	15.0	---	---	---	---	---	---	---	---	---
9	14.5	14.5	15.0	---	---	---	---	---	---	---	---	---
10	13.0	13.0	14.0	---	---	---	---	---	---	---	---	---
11	12.0	12.0	13.0	---	---	---	---	---	---	---	---	---
12	12.0	12.0	12.5	---	---	---	---	---	---	---	---	---
13	12.5	12.5	12.5	---	---	---	---	---	---	---	---	---
14	13.0	13.0	13.5	---	---	---	---	---	---	---	---	---
15	13.5	13.5	13.5	---	---	---	---	---	---	---	---	---
16	13.0	13.0	13.0	---	---	---	---	---	---	---	---	---
17	12.5	12.5	13.0	---	---	---	---	---	---	---	---	---
18	12.0	12.0	12.5	---	---	---	---	---	---	---	---	---
19	11.5	11.5	12.0	---	---	---	---	---	---	---	---	---
20	11.5	11.5	12.0	---	---	---	---	---	---	---	---	---
21	12.0	12.0	12.5	---	---	---	---	---	---	---	---	---
22	12.5	12.5	12.5	---	---	---	---	---	---	---	---	---
23	12.5	12.5	13.0	---	---	---	---	---	---	---	---	---
24	12.5	12.5	12.5	---	---	---	---	---	---	---	---	---
25	12.0	12.0	12.5	---	---	---	---	---	---	---	---	---
26	12.0	12.0	12.0	---	---	---	---	---	---	---	---	---
27	11.5	11.5	12.0	---	---	---	---	---	---	---	---	---
28	11.5	11.5	12.0	---	---	---	---	---	---	---	---	---
29	11.5	11.5	12.0	---	---	---	---	---	---	---	---	---
30	12.0	12.0	12.5	---	---	---	---	---	---	---	---	---
31	11.0	11.0	11.5	---	---	---	---	---	---	---	---	---
MONTH	18.0	11.0	14.0	11.0	10.0	11.0	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	7.0	---	---
3	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
4	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
5	---	---	---	---	---	---	---	---	---	8.0	8.0	9.0
6	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
7	---	---	---	---	---	---	---	---	---	8.0	8.0	9.0
8	---	---	---	---	---	---	---	---	---	9.5	9.5	10.0
9	---	---	---	---	---	---	---	---	---	9.5	9.5	10.0
10	---	---	---	---	---	---	---	---	---	10.0	10.0	11.0
11	---	---	---	---	---	---	---	---	---	11.0	11.0	12.0
12	---	---	---	---	---	---	---	---	---	11.0	11.0	12.0
13	---	---	---	---	---	---	---	---	---	11.0	11.0	12.0
14	---	---	---	---	---	---	---	---	---	11.5	11.5	12.5
15	---	---	---	---	---	---	---	---	---	12.0	12.0	12.5
16	---	---	---	---	---	---	---	---	---	11.5	11.5	12.5
17	---	---	---	---	---	---	---	---	---	12.5	12.5	13.0
18	---	---	---	---	---	---	---	---	---	12.5	12.5	12.5
19	---	---	---	---	---	---	---	---	---	12.0	12.0	13.0
20	---	---	---	---	---	---	---	---	---	12.0	12.0	13.0
21	---	---	---	---	---	---	---	---	---	12.0	12.0	13.5
22	---	---	---	---	---	---	---	---	---	13.0	13.0	14.5
23	---	---	---	---	---	---	---	---	---	14.5	14.5	15.0
24	---	---	---	---	---	---	---	---	---	14.0	14.0	14.0
25	---	---	---	---	---	---	---	---	---	13.5	13.5	14.0
26	---	---	---	---	---	---	---	---	---	13.5	13.5	14.5
27	---	---	---	---	---	---	---	---	---	14.0	14.0	15.0
28	---	---	---	---	---	---	---	---	---	13.5	13.5	15.0
29	---	---	---	---	---	---	---	---	---	15.5	15.5	16.5
30	---	---	---	---	---	---	---	---	---	16.5	16.5	17.5
31	---	---	---	---	---	---	---	---	---	17.0	17.0	18.0
MONTH	---	---	---	---	---	---	---	---	---	17.0	7.0	12.5

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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

PERIOD MAXIMUM 25.5 MINIMUM 7.0 MEAN 18.5

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.7	8.5	8.6	10.3	10.1	10.2	---	---	---	---	---	---
2	8.5	8.4	8.4	10.3	10.2	10.2	---	---	---	---	---	---
3	8.6	8.4	8.5	10.5	10.2	10.3	---	---	---	---	---	---
4	8.6	8.4	8.5	10.5	10.3	10.3	---	---	---	---	---	---
5	8.6	8.4	8.5	---	---	---	---	---	---	---	---	---
6	8.7	8.3	8.5	---	---	---	---	---	---	---	---	---
7	9.1	8.7	8.9	---	---	---	---	---	---	---	---	---
8	9.2	8.9	9.1	---	---	---	---	---	---	---	---	---
9	9.3	8.8	9.1	---	---	---	---	---	---	---	---	---
10	9.1	8.7	8.9	---	---	---	---	---	---	---	---	---
11	9.9	9.1	9.4	---	---	---	---	---	---	---	---	---
12	10.2	9.8	10.0	---	---	---	---	---	---	---	---	---
13	10.0	9.8	9.9	---	---	---	---	---	---	---	---	---
14	9.8	9.4	9.6	---	---	---	---	---	---	---	---	---
15	9.6	9.4	9.5	---	---	---	---	---	---	---	---	---
16	9.7	9.4	9.5	---	---	---	---	---	---	---	---	---
17	9.9	9.6	9.8	---	---	---	---	---	---	---	---	---
18	10.1	9.8	9.9	---	---	---	---	---	---	---	---	---
19	10.2	9.9	10.1	---	---	---	---	---	---	---	---	---
20	10.2	9.9	10.1	---	---	---	---	---	---	---	---	---
21	10.0	9.5	9.8	---	---	---	---	---	---	---	---	---
22	10.0	9.8	9.9	---	---	---	---	---	---	---	---	---
23	9.9	9.7	9.8	---	---	---	---	---	---	---	---	---
24	9.8	9.6	9.7	---	---	---	---	---	---	---	---	---
25	9.8	9.5	9.7	---	---	---	---	---	---	---	---	---
26	10.0	9.7	9.8	---	---	---	---	---	---	---	---	---
27	10.0	9.7	9.9	---	---	---	---	---	---	---	---	---
28	10.0	9.7	9.8	---	---	---	---	---	---	---	---	---
29	9.9	9.6	9.8	---	---	---	---	---	---	---	---	---
30	9.9	9.7	9.7	---	---	---	---	---	---	---	---	---
31	10.2	9.8	10.0	---	---	---	---	---	---	---	---	---
MONTH	10.2	8.3	9.4	10.5	10.1	10.2	---	---	---	---	---	---

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	11.6	11.3	11.5
3	---	---	---	---	---	---	---	---	---	11.4	11.1	11.3
4	---	---	---	---	---	---	---	---	---	11.3	11.1	11.2
5	---	---	---	---	---	---	---	---	---	11.2	11.0	11.1
6	---	---	---	---	---	---	---	---	---	11.5	11.2	11.3
7	---	---	---	---	---	---	---	---	---	11.3	10.8	11.1
8	---	---	---	---	---	---	---	---	---	10.9	10.7	10.8
9	---	---	---	---	---	---	---	---	---	10.9	10.7	10.8
10	---	---	---	---	---	---	---	---	---	10.8	10.5	10.6
11	---	---	---	---	---	---	---	---	---	10.5	10.3	10.4
12	---	---	---	---	---	---	---	---	---	10.4	10.2	10.3
13	---	---	---	---	---	---	---	---	---	10.5	10.3	10.4
14	---	---	---	---	---	---	---	---	---	10.3	10.1	10.2
15	---	---	---	---	---	---	---	---	---	10.2	10.0	10.1
16	---	---	---	---	---	---	---	---	---	10.4	10.1	10.3
17	---	---	---	---	---	---	---	---	---	10.1	9.9	10.0
18	---	---	---	---	---	---	---	---	---	10.3	10.1	10.2
19	---	---	---	---	---	---	---	---	---	10.3	10.1	10.2
20	---	---	---	---	---	---	---	---	---	10.4	10.1	10.3
21	---	---	---	---	---	---	---	---	---	10.4	10.0	10.2
22	---	---	---	---	---	---	---	---	---	10.4	9.7	10.0
23	---	---	---	---	---	---	---	---	---	9.8	9.6	9.7
24	---	---	---	---	---	---	---	---	---	9.9	9.7	9.8
25	---	---	---	---	---	---	---	---	---	10.1	9.9	10.0
26	---	---	---	---	---	---	---	---	---	10.2	9.9	10.1
27	---	---	---	---	---	---	---	---	---	10.1	9.9	10.1
28	---	---	---	---	---	---	---	---	---	10.1	9.6	9.9
29	---	---	---	---	---	---	---	---	---	9.7	9.1	9.4
30	---	---	---	---	---	---	---	---	---	9.5	9.1	9.3
31	---	---	---	---	---	---	---	---	---	9.3	8.8	9.1
MONTH	---	---	---	---	---	---	---	---	---	11.6	8.8	10.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	8.7	8.9	8.0	7.9	8.0	7.2	7.0	7.1	7.9	7.0	7.4
2	8.8	8.6	8.7	8.0	7.8	7.9	7.2	6.8	7.1	7.2	6.7	6.9
3	8.8	8.4	8.7	8.0	7.7	7.8	7.4	7.0	7.2	8.0	7.2	7.7
4	8.7	8.4	8.5	8.0	7.9	7.9	7.3	7.1	7.2	8.2	7.8	8.0
5	9.2	8.7	9.0	8.0	7.8	7.9	7.3	6.9	7.1	8.2	7.9	8.0
6	9.3	9.1	9.1	8.0	7.7	7.8	7.3	6.9	7.1	8.3	8.0	8.1
7	9.3	8.8	9.1	7.7	7.0	7.2	7.2	6.9	7.0	8.1	7.9	8.0
8	8.7	7.9	8.2	7.2	6.8	7.0	7.2	6.9	7.1	8.0	7.8	7.9
9	8.5	7.8	8.2	7.4	6.8	7.0	7.1	6.7	6.9	8.0	7.7	7.9
10	8.6	8.2	8.4	---	---	---	7.2	6.8	7.0	7.9	7.7	7.8
11	8.5	8.2	8.4	---	---	---	7.4	7.1	7.2	8.0	7.7	7.8
12	8.4	7.9	8.1	---	---	---	7.5	7.2	7.3	7.9	7.0	7.6
13	9.0	8.1	8.7	7.3	7.0	7.2	7.5	7.3	7.4	7.3	6.7	7.0
14	8.8	8.5	8.7	7.2	6.8	7.1	7.5	7.1	7.2	8.0	7.3	7.6
15	8.7	7.5	8.0	7.1	6.9	7.0	7.2	6.7	6.9	8.1	7.9	8.0
16	7.5	7.2	7.4	7.2	7.0	7.1	7.0	6.7	6.8	8.2	7.7	7.9
17	7.4	7.0	7.2	7.4	7.1	7.2	7.4	6.7	7.0	7.8	7.6	7.6
18	7.2	6.8	7.0	7.3	7.0	7.2	7.5	6.4	6.9	8.0	7.8	7.9
19	8.2	6.8	7.7	7.3	6.8	7.0	7.0	6.3	6.6	8.3	7.9	8.1
20	8.2	7.8	8.1	7.1	6.9	7.0	6.8	6.5	6.6	8.6	8.1	8.3
21	8.2	7.8	8.0	7.1	6.9	7.0	6.9	6.6	6.7	9.3	8.6	8.8
22	8.0	7.8	7.9	7.1	7.0	7.1	6.9	6.3	6.5	9.4	9.1	9.2
23	8.5	7.9	8.2	7.2	7.0	7.1	6.4	6.1	6.3	9.1	8.9	9.0
24	8.8	8.4	8.7	7.2	6.9	7.0	6.6	6.3	6.4	9.6	8.6	8.8
25	8.4	8.2	8.3	7.0	6.4	6.6	7.2	6.4	6.9	8.7	8.5	8.6
26	8.5	8.1	8.2	6.6	6.2	6.4	7.4	7.1	7.3	9.5	8.7	8.8
27	8.4	8.1	8.2	6.7	6.4	6.5	7.8	7.4	7.6	9.1	9.0	9.0
28	8.7	8.3	8.6	6.8	6.5	6.7	8.0	7.5	7.7	9.3	9.0	9.2
29	8.7	8.3	8.5	7.0	6.6	6.7	7.5	7.0	7.2	9.3	9.0	9.2
30	8.3	8.0	8.2	7.3	6.7	7.0	7.4	7.0	7.2	9.1	8.6	8.9
31	---	---	---	7.4	7.0	7.1	7.9	7.3	7.5	---	---	---
MONTH	9.3	6.8	8.3	8.0	6.2	7.2	8.0	6.1	7.0	9.6	6.7	8.2

PERIOD MAXIMUM 11.6 MINIMUM 6.1 MEAN 8.5

SACO RIVER BASIN

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi².

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 1301: 1908-09. WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft 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: Nov. 13-25, Dec. 6 to Mar. 30 and July 15-29. Records good except for periods of ice-effect, Nov. 13-25 and Dec. 6 to Mar. 30, period of doubtful gage-height record, Mar. 9-11, and period of no gage-height record, July 15-29, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--64 years (water years 1904-09, 1930 to current year), 935 ft³/s, 32.98 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,200 ft³/s, Mar. 27, 1953, gage height, 17.20 ft., 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)
Apr. 1	0600	*46,600	*17.04	Apr. 6	2000	13,800	9.39

Minimum discharge, 105 ft³/s, Aug. 19, 22, gage height 2.00 ft.

REVISIONS.--The maximum discharges for some water years have been revised as shown in the following table. They supersede figures published in WSP 801, 1201, 1271, 1701 and WDR ME-77-1.

Water year	Date	Discharge (ft ³ /s)	Gage Height (ft)
1936	Mar. 19, 1936	44,500	16.45
1951	Nov. 26, 1950	32,800	13.84
1953	Mar. 27, 1953	47,200	17.20
1960	Oct. 24, 1959	43,800	16.39
1977	Mar. 14, 1977	40,500	15.61

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	581	278	813	e380	e245	e180	33000	1230	541	653	240	168
2	512	275	908	e410	e240	e255	9270	1320	541	553	224	156
3	429	277	2530	e380	e235	e270	5430	1350	659	564	255	147
4	460	272	3750	e370	e230	e250	4230	1190	582	614	471	135
5	546	266	1990	e350	e225	e230	5700	1160	1060	803	363	132
6	496	276	e1400	e350	e220	e210	10900	2620	822	627	292	129
7	466	302	e1000	e380	e215	e185	9860	2500	618	510	255	129
8	426	308	e800	e350	e215	e500	5860	1820	601	462	235	131
9	421	546	e660	e330	e210	e760	4050	1450	932	434	223	570
10	415	1020	e900	e315	e210	e640	3200	1320	768	437	216	567
11	382	666	e740	e350	e210	e470	3140	1380	620	1040	244	335
12	364	541	e620	e380	e210	e410	3420	1220	541	612	239	279
13	355	e450	e520	e345	e210	e360	3310	1210	563	564	215	342
14	366	e350	e470	e315	e210	e340	2570	996	559	490	200	2370
15	433	e370	e540	e290	e210	e325	2310	945	490	e465	191	928
16	397	e400	e490	e280	e205	e310	2160	958	439	e460	182	567
17	372	e410	e465	e270	e200	e305	2190	825	411	e420	175	506
18	347	e370	e445	e270	e200	e305	2880	781	373	e380	165	422
19	332	e340	e440	e295	e200	e305	3130	729	346	e325	155	342
20	323	e300	e415	e330	e200	e300	3260	669	325	e310	156	365
21	316	e290	e400	e325	e195	e305	3040	629	304	e350	154	842
22	316	e320	e370	e320	e195	e320	2800	605	300	e410	146	682
23	313	e355	e365	e315	e195	e400	2060	610	952	e395	154	521
24	307	e360	e350	e310	e190	e600	1710	768	982	e375	152	439
25	297	e410	e430	e305	e190	e800	1560	774	596	e340	140	382
26	291	491	e500	e305	e190	e1300	1310	655	509	e330	137	347
27	311	3380	e450	e295	e185	e1800	1170	582	778	e330	137	339
28	331	1790	e430	e280	e185	e1750	1080	544	2130	e325	134	328
29	319	1240	e410	e265	---	e1850	1140	737	1100	e285	154	305
30	303	1010	e400	e250	---	e2500	1170	667	788	261	217	297
31	289	---	e390	e260	---	16300	---	559	---	253	194	---
TOTAL	11816	17663	24391	9970	5825	34835	136910	32803	20230	14377	6415	13202
MEAN	381	589	787	322	208	1124	4564	1058	674	464	207	440
MAX	581	3380	3750	410	245	16300	33000	2620	2130	1040	471	2370
MIN	289	266	350	250	185	180	1080	544	300	253	134	129
CFSM	.99	1.53	2.04	.84	.54	2.92	11.9	2.75	1.75	1.20	.54	1.14
IN.	1.14	1.71	2.36	.96	.56	3.37	13.23	3.17	1.95	1.39	.62	1.28

CAL YR 1986 TOTAL 351245 MEAN 962 MAX 20000 MIN 185 CFSM 2.50 IN. 33.94
WTR YR 1987 TOTAL 328437 MEAN 900 MAX 33000 MIN 129 CFSM 2.34 IN. 31.73

e Estimated

01065000 OSSISPEE 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.--No estimated daily discharges. Records good. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--45 years, 690 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,160 ft³/s, Apr. 2, gage height, 10.28 ft; minimum, 176 ft³/s, Oct. 1; minimum daily, 177 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	278	1370	587	355	211	5030	974	414	760	223	207
2	178	278	1370	573	349	220	7020	1100	419	631	221	206
3	178	276	1410	576	343	222	6150	1110	430	605	223	204
4	180	276	1860	553	419	225	5090	1090	440	594	241	202
5	181	270	1960	534	499	225	4450	1070	536	583	231	200
6	198	277	1850	516	586	226	4380	1090	625	483	230	199
7	210	284	1710	508	661	227	4690	1140	624	338	229	198
8	216	288	1470	499	620	231	4740	1150	706	337	227	198
9	227	309	1160	479	606	231	4350	1120	868	337	228	200
10	226	353	1090	465	565	232	3850	1060	837	301	231	202
11	227	378	1050	476	459	236	3360	996	799	259	230	204
12	227	399	1000	471	391	236	2950	869	592	294	229	204
13	227	419	855	465	441	238	2610	754	488	304	227	206
14	229	418	816	448	466	394	2320	555	487	304	227	212
15	236	420	814	444	437	390	1810	443	484	316	225	322
16	237	420	770	442	410	390	1560	451	407	389	220	467
17	241	420	736	418	363	349	1360	456	359	549	218	467
18	245	419	708	402	318	305	1260	391	357	520	221	464
19	247	414	704	404	319	305	1240	276	291	481	226	461
20	249	413	686	409	313	305	1220	276	219	472	223	461
21	253	422	666	398	309	306	1100	276	222	399	220	556
22	255	424	633	397	303	308	1010	256	227	364	221	654
23	258	423	612	417	297	392	969	227	372	371	221	641
24	257	426	590	411	291	450	793	230	497	273	220	592
25	258	430	595	398	283	538	688	242	621	231	218	525
26	259	699	622	385	279	643	686	316	655	266	215	525
27	265	977	650	374	240	837	676	401	606	247	214	525
28	269	1220	645	366	203	1040	666	401	911	245	212	525
29	274	1310	628	357	---	1200	697	409	984	245	211	525
30	278	1310	618	351	---	1380	746	409	940	240	211	525
31	277	---	608	358	---	1870	---	409	---	223	208	---
TOTAL	7239	14650	30256	13881	11125	14462	77471	19947	16417	11961	6901	11077
MEAN	234	488	976	448	397	467	2582	643	547	386	223	369
MAX	278	1310	1960	587	661	1870	7020	1150	984	760	241	654
MIN	177	270	590	351	203	211	666	227	219	223	208	198

CAL YR 1986 TOTAL 253432 MEAN 694 MAX 3220 MIN 177
WTR YR 1987 TOTAL 235387 MEAN 645 MAX 7020 MIN 177

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. 13 to Jan. 15, and Jan. 17 to Mar. 24. Records good except for period of ice effect, Dec. 13 to Jan. 15, and Jan. 17 to Mar. 24, 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.--71 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, 9,460 ft³/s, Apr. 2, gage height, 10.90 ft; minimum daily, 207 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	321	1500	e720	e475	e415	7270	1470	642	1060	248	235
2	212	327	1580	e715	e475	e435	9330	1600	632	819	259	228
3	226	318	1850	e710	e470	e455	8840	1540	689	782	296	225
4	238	323	2530	e705	e465	e450	7330	1490	651	773	312	223
5	269	315	2460	e680	e720	e450	6260	1480	833	748	300	218
6	255	335	2260	e670	e770	e445	6350	1710	929	707	274	220
7	270	360	2090	e660	e870	e445	6830	1730	856	490	269	215
8	257	382	1890	e645	e790	e500	6470	1620	850	442	271	220
9	272	493	1450	e635	e710	e550	5770	1550	1180	431	260	284
10	272	529	1360	e620	e605	e560	5000	1470	1120	426	271	265
11	268	494	1290	e615	e555	e565	4340	1370	1030	357	269	242
12	271	493	1240	e600	e535	e560	3790	1270	916	365	271	244
13	273	505	e1090	e590	e520	e580	3340	1060	685	385	265	265
14	278	497	e1040	e580	e650	e760	2970	965	761	387	261	453
15	303	487	e1000	e585	e735	e750	2560	701	681	396	255	352
16	294	485	e970	580	e690	e720	2120	696	624	394	253	517
17	292	485	e875	e570	e660	e675	1990	682	512	583	232	539
18	292	484	e845	e560	e605	e550	1890	680	482	609	240	531
19	296	480	e835	e555	e560	e535	1850	514	465	576	252	522
20	290	470	e820	e550	e510	e530	1750	458	338	544	261	587
21	299	491	e815	e545	e495	e540	1640	461	303	531	247	707
22	300	491	e800	e540	e490	e545	1510	451	314	436	242	818
23	295	485	e790	e540	e480	e640	1430	394	608	421	253	769
24	305	492	e790	e535	e475	e740	1310	462	836	401	242	750
25	297	517	e760	e525	e460	945	1080	471	735	293	239	679
26	299	645	e770	e515	e445	1210	1040	450	883	294	237	343
27	325	1490	e790	e500	e430	1380	1010	558	840	310	236	316
28	331	1580	e785	e490	e400	1690	985	572	1150	286	232	306
29	327	1580	e760	e485	---	1910	1110	614	1330	281	245	310
30	329	1560	e755	e480	---	2230	1330	596	1160	282	249	304
31	325	---	e745	e480	---	3660	---	574	---	271	237	---
TOTAL	8767	17914	37535	18180	16045	26420	108495	29659	23035	15080	7978	11887
MEAN	283	597	1211	586	573	852	3616	957	768	486	257	396
MAX	331	1580	2530	720	870	3660	9330	1730	1330	1060	312	818
MIN	207	315	745	480	400	415	985	394	303	271	232	215

CAL YR 1986 TOTAL 349170 MEAN 957 MAX 5680 MIN 207
WTR YR 1987 TOTAL 320995 MEAN 879 MAX 9330 MIN 207

e Estimated

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. 1 to Mar. 30. Records good except for periods of ice effect, Jan. 1 to Mar. 30, 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.--71 years, 2,710 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, 31,300 ft³/s, Apr. 3; gage height, 16.54 ft.; minimum daily 426 ft³/s, Sept. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	815	1010	3210	e2050	e1300	e910	15100	4120	1780	2630	769	565
2	875	951	3190	e1940	e1310	e910	24900	4170	1820	2300	783	426
3	1080	899	3700	e1850	e1320	e905	30900	4010	1810	2130	800	553
4	921	910	4840	e1620	e1310	e900	29100	3880	1790	2010	837	518
5	953	924	5170	e1580	e1310	e850	25100	3830	1930	1970	839	432
6	950	1000	5000	e1570	e1310	e875	22800	4140	2070	1890	842	433
7	959	1010	4940	e1570	e1270	e920	22600	4220	2090	1740	814	428
8	982	1050	4560	e1560	e1320	e1000	22200	4280	2000	1660	792	431
9	995	1230	3610	e1560	e1330	e1070	20700	4380	2410	1510	728	548
10	972	1500	3470	e1550	e1320	e1100	18200	4350	2360	1480	712	703
11	952	1470	3380	e1540	e1280	e1120	15700	4170	2250	1380	710	736
12	953	1610	3290	e1540	e1250	e1130	13200	3890	2100	1440	711	817
13	953	1460	3120	e1550	e1260	e1140	11500	3570	1860	1520	704	835
14	931	1420	3010	e1560	e1120	e1140	10300	3270	1930	1510	700	1060
15	930	1520	2930	e1500	e1150	e1150	9210	2900	1820	1490	697	1620
16	932	1280	2760	e1490	e1180	e1160	8070	2780	1720	1400	478	1730
17	973	1190	2410	e1470	e1050	e1280	7370	2630	1540	1510	650	1620
18	932	1190	2360	e1440	e1040	e1200	6870	2370	1470	1510	601	1540
19	871	1210	2320	e1280	e1030	e1200	6500	2190	1390	1450	460	1430
20	867	1200	2250	e1250	e1020	e1200	6100	2050	1220	1380	586	1500
21	878	1140	2400	e1290	e1020	e1210	5890	1940	1110	1350	607	1620
22	881	1020	2230	e1250	e1010	e1320	5700	1840	992	1250	458	1660
23	953	1130	1950	e1260	e1000	e1570	5550	1690	1490	1230	522	1840
24	842	1200	1990	e1270	e1000	e1830	5300	1740	1740	1170	632	1690
25	804	1300	2070	e1270	e995	e2050	4850	1740	1780	1050	440	1570
26	866	1420	2240	e1280	e990	e2500	4570	1710	1870	1010	434	1210
27	996	2890	2340	e1280	e890	e3050	4140	1760	1820	1020	527	1120
28	1010	3230	2600	e1290	e910	e3600	3890	1720	2310	981	558	881
29	920	3500	2620	e1340	---	e4300	3850	1760	2910	976	445	1180
30	954	3310	2260	e1270	---	e5100	4030	1740	2730	972	442	903
31	951	---	2210	e1300	---	8700	---	1520	---	770	557	---
TOTAL	28851	44174	94430	45570	32295	56390	374190	90360	56112	45689	19835	31599
MEAN	931	1472	3046	1470	1153	1819	12470	2915	1870	1474	640	1053
MAX	1080	3500	5170	2050	1330	8700	30900	4380	2910	2630	842	1840
MIN	804	899	1950	1250	890	850	3850	1520	992	770	434	426

CAL YR 1986 TOTAL 1052495 MEAN 2884 MAX 14200 MIN 656
WTR YR 1987 TOTAL 919495 MEAN 2519 MAX 30900 MIN 426

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.

REMARKS.--The April sample was collected on the decending hydrograph limb of a major flood. Approval was obtained to collect samples for total water analysis because this was the greatest streamflow ever sampled for chemical analyses at this site.

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 1986 TO SEPTEMBER 1987.

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 (FTU)	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)
DEC												
04...	1230	4860	32	6.8	5.0	0.5	1.1	750	14.7	104	K 70	60
FEB												
17...	1200	E 1050	40	7.1	5.0	0.0	2.8	760	14.0	96	K 9	K 2
APR												
08...	1500	22200	25	6.4	9.5	4.5	3.0	740	12.8	102	K 9	K 7
JUN												
26...	1100	1900	36	6.4	18.0	20.0	1.2	760	9.5	105	K 14	55
AUG												
04...	1430	843	42	7.0	30.5	24.0	0.8	750	8.2	99	32	36
SEP												
03...	1030	553	45	6.9	20.0	18.0	0.5	760	9.2	97	26	K 15

DATE	HARD- NESS TOTAL (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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC											
04...	7	2.2	0.40	3.7	0.7	--	--	--	L 5	10	3.5
FEB											
17...	10	3.1	0.60	3.8	0.6	8	0	7	8	6.4	4.6
APR											
08...	5	1.7	0.30	2.0	0.5	3	0	2	3	7.6	2.0
JUN											
26...	8	2.6	0.38	3.7	0.6	4	0	3	4	15	4.6
AUG											
04...	10	2.9	0.60	3.8	0.8	9	0	8	10	8.2	4.9
SEP											
03...	10	3.0	0.57	4.2	0.8	7	0	6	6	5.4	5.1

E Estimated discharge

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

L Lab alkalinity value report

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	FLUORIDE, 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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DIS-SOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
DEC 04...	0.2	6.7	40	31	0.10	<0.01	--	0.4	0.01	<0.01	<0.01
FEB 17...	0.3	8.7	34	34	0.16	0.02	0.03	0.5	0.03	<0.01	0.01
APR 08...	0.2	5.0	21	21	<0.10	0.02	0.03	0.4	0.03	<0.01	<0.01
JUN 26...	0.3	6.4	38	37	0.19	0.02	0.03	0.4	0.02	0.02	<0.01
AUG 04...	0.4	5.9	30	34	<0.10	<0.01	--	0.6	0.01	<0.01	<0.01
SEP 03...	0.3	6.0	27	29	<0.10	0.01	0.01	0.4	0.04	<0.01	0.02

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
DEC 04...	--	--	--	--	--	--	--	--	--	--
FEB 17...	80	--	<1	--	8	--	<0.5	--	1	--
APR 08...	150	690	<1	<1	7	<100	<0.5	<10	<1	<1
JUN 26...	--	--	--	--	--	--	--	--	--	--
AUG 04...	30	--	<1	--	7	--	<0.5	--	<1	--
SEP 03...	20	--	<1	--	7	--	<0.5	--	<1	--

DATE	CHROMIUM, DIS-SOLVED (UG/L AS CR)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
DEC 04...	--	--	--	--	--	--	--	--	--	--
FEB 17...	<1	--	<3	--	3	--	160	--	<5	--
APR 08...	<1	5	<3	<1	3	64	77	800	7	74
JUN 26...	--	--	--	--	--	--	--	--	--	--
AUG 04...	<1	--	<3	--	3	--	150	--	<5	--
SEP 03...	<1	--	<3	--	<1	--	91	--	<5	--

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
DEC 04...	--	--	--	--	--	--	--	--	--	--
FEB 17...	4	21	--	<0.1	--	<10	--	<1	--	<1
APR 08...	<4	25	40	<0.1	0.20	<10	<1	<1	1	<1
JUN 26...	--	--	--	--	--	--	--	--	--	--
AUG 04...	<4	11	--	<0.1	--	<10	--	<1	--	<1
SEP 03...	<4	9	--	<0.1	--	<10	--	1	--	<1

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	SILVER, TOTAL RECOV- ERABLE (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)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	SEDI- MENT, SUS- PENDEED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 04...	--	--	--	--	--	--	--	67	879	10
FEB 17...	--	<1.0	--	24	<6	9	--	44	0.0	47
APR 08...	<1	<1.0	<1	12	<6	14	60	83	4980	22
JUN 26...	--	--	--	--	--	--	--	7	36	55
AUG 04...	--	<1.0	--	23	<6	86	--	3	6.8	67
SEP 03...	--	<1.0	--	23	<6	6	--	4	6.0	75

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.--No estimated daily discharge. Records fair. 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.--19 years, 197 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum 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 discharge, 3,740 ft³/s, Apr. 1, gage height, 6.59 ft; minimum daily, 19 ft³/s, Sept. 29-31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	44	123	148	97	69	3120	276	116	197	36	30
2	115	45	135	151	95	72	3060	342	91	169	36	31
3	115	44	300	156	94	72	2080	328	72	127	34	31
4	115	43	562	146	94	72	1410	247	71	124	31	31
5	115	44	555	137	94	72	1170	197	85	124	31	31
6	115	43	447	132	93	71	1670	260	109	137	31	30
7	115	46	358	125	92	72	1830	333	106	157	31	30
8	115	65	245	128	92	75	1590	331	110	157	31	30
9	117	114	182	130	92	91	890	306	129	108	31	30
10	104	182	189	126	89	103	386	280	136	58	31	30
11	75	195	178	129	87	114	409	192	117	50	31	30
12	75	239	178	127	84	118	490	130	108	50	31	31
13	75	282	168	122	84	118	395	137	106	50	31	31
14	75	180	152	119	83	112	315	98	105	49	31	38
15	75	48	143	115	80	104	348	76	93	48	30	48
16	75	48	140	115	78	95	357	89	79	48	30	66
17	96	50	135	115	76	92	324	95	79	48	30	86
18	118	51	125	116	75	90	305	100	79	48	30	86
19	118	53	176	118	75	88	353	105	65	47	29	86
20	111	47	220	118	74	88	226	100	52	47	29	86
21	103	41	210	116	72	90	136	98	52	47	29	103
22	165	41	181	115	72	98	153	95	54	47	28	121
23	165	41	161	135	72	122	136	93	85	47	29	146
24	165	41	141	126	71	162	128	111	193	46	29	217
25	165	41	154	117	71	227	140	123	278	46	29	131
26	167	42	211	114	71	320	146	130	229	46	29	20
27	185	43	227	109	71	380	147	122	157	43	29	20
28	204	48	215	103	70	429	149	113	157	38	30	19
29	204	51	195	99	---	482	165	116	161	38	30	19
30	204	85	176	98	---	575	200	122	177	38	30	19
31	141	---	163	99	---	1120	---	133	---	37	30	---
TOTAL	3902	2337	6745	3804	2298	5793	22228	5278	3451	2316	947	1707
MEAN	126	77.9	218	123	82.1	187	741	170	115	74.7	30.5	56.9
MAX	204	282	562	156	97	1120	3120	342	278	197	36	217
MIN	75	41	123	98	70	69	128	76	52	37	28	19

CAL YR 1986 TOTAL 62078 MEAN 170 MAX 1500 MIN 24
WTR YR 1987 TOTAL 60806 MEAN 167 MAX 3120 MIN 19

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1987

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously water years)	Measurements	
					Date	Discharge (ft ³ /s)
KENNEBEC RIVER BASIN						
Wilson Stream 01047730	Kennebec River	Lat 44°36'55", long 70°11'42", Franklin County, 0.1 mi upstream from railroad bridge in East Wilton, and 1.5 mi downstream from Varnum Stream at East Wilton	45.8	many	08-27-87	9.21
West Branch Sebasticook River	Kennebec River	Lat 44°52'45", long 69°26'48", Somerset County, 1,200 ft downstream from Route 23 highway bridge in Hartland.		1984	07-22-87	41.0
ANDROSCOGGIN RIVER BASIN						
Androscoggin River	Kennebec River	Lat 44°37'11", long 71°14'32", Coos County, N.H., at Pontook Dam near Milan, N.H.			06-02-87 06-02-87 06-03-87	568 1,190 378
Androscoggin River	Kennebec River	Lat 44°36'40", long 71°12'50", Coos County, N.H., 3.0 mi upstream of highway bridge at Milan, N.H.			09-15-87 09-15-87 09-15-87	1,770 2,380 1,150
Little Androscoggin River	Androscoggin River	Lat 44°05'17", long 70°13'33", Androscoggin County, 400 ft upstream from the mouth at Auburn.	354		06-14-87 08-19-87	225 76.0

Measurement represents the flow in one channel only.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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)											
NOV 1986						JUL					
14...	1425	814	1.0	-7.0	32	15...	1700	635	22.0	20.0	47
MAR 1987						SEP					
18...	1745	214	0.0	-1.0	71	15...	1500	2320	17.0	21.0	57
MAY											
14...	0900	1900	12.0	19.0	38						
01010070 BIG BLACK RIVER NEAR DEPOT MTN, ME (LAT 46 53 38N LONG 069 45 08W)											
NOV 1986						MAY					
17...	1015	177	2.0	1.0	42	13...	1700	274	14.0	19.0	68
JAN 1987						JUL					
13...	1200	85	0.0	-2.0	82	14...	1900	86	26.0	25.0	79
MAR						SEP					
18...	0915	53	1.0	1.0	106	15...	1700	554	16.0	20.0	66
01010500 ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44N LONG 069 05 25W)											
NOV 1986						MAY					
18...	1000	2520	1.0	-2.0	53	06...	0900	3200	10.5	12.0	45
JAN 1987						AUG					
15...	0920	1260	0.0	-5.0	40	04...	1030	724	17.5	20.5	68
MAR						31...	1330	309	23.0	24.0	77
17...	1030	473	0.0	-5.0	141						
01011000 ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14N LONG 069 04 51W)											
NOV 1986						MAY					
18...	1045	1070	0.0	-2.0	55	06...	1200	1640	9.5	11.0	47
MAR 1987						AUG					
19...	1500	320	0.0	-2.0	63	04...	1210	611	18.0	21.0	65
01013500 FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14N LONG 068 34 56W)											
NOV 1986						MAY					
19...	1015	863	2.0	-7.0	66	07...	1100	1900	8.0	15.0	58
JAN 1987						AUG					
14...	1400	627	0.0	-4.0	44	05...	0900	529	20.5	16.0	60
MAR											
18...	1230	293	0.0	-1.0	82						
01014000 ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27N LONG 068 35 35W)											
NOV 1986						AUG					
18...	1600	5960	0.5	-5.0	62	05...	0830	2840	18.5	15.5	92
MAR 1987											
18...	1000	6000	0.0	-1.0	85						
01015800 AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21N LONG 068 22 23W)											
NOV 1986						MAY					
17...	1300	520	1.0	6.0	54	05...	1220	1480	9.0	6.0	40
JAN 1987						AUG					
13...	1600	534	0.0	-4.0	52	03...	1100	171	15.0	15.0	62
MAR						31...	0825	70	18.0	21.5	62
18...	1600	247	0.0	-2.0	60						

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

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--Continued											
01017000 AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36N LONG 068 09 29W)											
NOV 1986						MAY					
17...	1430	1000	0.0	2.0	64	05...	1500	2600	10.0	10.0	51
JAN 1987						AUG					
13...	1400	1070	0.5	-1.0	56	03...	1350	325	20.0	20.0	86
MAR						31...	1655	128	19.0	23.0	106
16...	1400	321	0.0	-1.0	82						
ST. CROIX RIVER BASIN											
01018500 ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08N LONG 067 25 47W)											
NOV 1986						JUN					
20...	0745	346	0.5	-5.0	29	23...	1230	236	19.0	22.0	27
JAN 1987						AUG					
13...	0920	686	1.0	0.0	27	12...	1025	255	18.0	20.0	27
MAR											
16...	1910	349	1.0	-5.0	35						
01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23N LONG 067 46 06W)											
NOV 1986						JUN					
20...	1015	181	1.5	-8.0	25	23...	0940	178	19.0	14.0	24
JAN 1987						AUG					
13...	0715	291	1.0	-4.0	24	12...	0910	195	18.5	19.0	23
MAR											
16...	1745	316	0.5	-4.0	23						
01021000 ST. CROIX RIVER AT BARING, ME (LAT 45 08 12N LONG 067 19 05W)											
OCT 1986						NOV					
07...	1230	2950	13.0	10.0	147	20...	1145	906	0.5	-1.0	187
DENNY'S RIVER BASIN											
01021200 DENNY'S RIVER AT DENNYVILLE, ME (LAT 44 54 03N LONG 067 14 56W)											
NOV 1986						JUN					
20...	1330	53	0.0	-2.0	40	22...	1600	69	21.0	21.0	35
JAN 1987						AUG					
12...	1450	128	0.0	0.0	48	11...	1420	42	18.5	20.5	35
MAR											
16...	1500	112	0.0	-1.0	34						

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)
PLEASANT RIVER BASIN											
01022260 PLEASANT RIVER NEAR EPPING, ME (SW SITE 13) (LAT 44 41 52N LONG 067 47 16W)											
OCT 1986						MAY					
07...	1500	80	10.5	13.0	35	27...	1300	75	17.0	19.0	24
NOV						JUN					
20...	1530	36	0.5	-2.0	28	22...	1430	45	23.0	21.0	28
JAN 1987						AUG					
12...	1305	253	0.5	0.0	27	11...	1150	40	19.0	22.0	26
MAR											
16...	1245	59	0.0	-1.0	29						
NARRAGUAGUS RIVER BASIN											
01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME (LAT 44 36 29N LONG 067 56 10W)											
OCT 1986						MAY					
08...	1100	234	10.0	14.0	39	27...	1215	240	17.0	22.0	29
NOV						JUN					
14...	1445	161	1.0	-3.5	32	22...	1150	145	22.0	21.0	32
JAN 1987						AUG					
12...	1140	288	0.5	-1.0	27	11...	1100	145	19.5	22.0	32
MAR											
16...	1130	162	0.0	-1.0	32						
PENOBSCOT RIVER BASIN											
01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01N LONG 068 24 10W)											
OCT 1986						MAR					
15...	0945	5280	10.0	11.0	40	24...	1545	4470	2.0	20.0	50
DEC						MAY					
08...	1155	5470	0.0	-11.0	44	20...	0945	5100	14.0	12.0	36
FEB 1987						AUG					
03...	1100	3860	0.5	-1.0	44	06...	1220	4240	22.0	24.0	43
01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18N LONG 068 18 07W)											
OCT 1986						MAR					
15...	1030	956	9.5	10.0	54	24...	1600	1040	0.0	22.0	61
DEC						MAY					
08...	1245	4850	0.0	-11.5	45	20...	1215	1340	16.0	13.0	50
FEB 1987						AUG					
03...	1500	609	0.0	-1.0	65	06...	1000	305	21.0	21.0	59
01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31N LONG 069 18 55W)											
OCT 1986						MAY					
14...	1000	170	8.0	11.0	44	12...	1100	485	13.0	12.0	35
JAN 1987						JUN					
29...	1200	150	0.0	-4.0	50	25...	1300	103	20.5	17.0	46
MAR											
25...	1030	1790	2.0	16.0	78						

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)
PENOBSCOT RIVER BASIN--Continued											
01033000 SEBEC RIVER AT SEBEC, ME (LAT 45 16 12N LONG 069 06 44W)											
OCT 1986						MAR					
14...	0920	530	12.5	11.5	25	25...	1300	555	3.0	22.0	28
DEC						MAY					
10...	0955	724	1.0	-4.0	26	12...	1145	592	11.5	12.0	24
JAN 1987											
29...	1300	330	1.5	1.0	27						
01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12N LONG 068 38 56W)											
OCT 1986						MAR					
15...	1215	8330	11.0	9.5	50	24...	1230	11800	1.0	15.0	33
DEC						MAY					
08...	1045	17300	0.0	-12.0	51	20...	1430	7290	17.0	20.0	48
JAN 1987											
30...	1230	6790	0.0	-2.0	53						
SHEEPSCOT RIVER BASIN											
01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23N LONG 069 35 38W)											
OCT 1986						MAR					
06...	1330	42	12.5	11.5	79	06...	1300	87	0.0	6.0	60
DEC						MAY					
11...	0940	404	1.0	-4.0	40	01...	1100	337	10.0	15.0	47
JAN 1987						JUL					
07...	1445	277	1.0	2.5	45	24...	1200	26	20.0	--	54
KENNEBEC RIVER BASIN											
01042500 KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25N LONG 069 57 48W)											
NOV 1986						MAY					
10...	0900	395	5.0	-2.0	36	13...	1030	4500	10.0	10.0	27
JAN 1987						JUL					
12...	1115	6400	0.5	-1.0	30	20...	1500	6190	21.0	20.0	32
MAR						SEP					
17...	1120	6290	1.5	1.5	32	24...	1130	436	15.0	16.0	32
APR											
23...	1600	1080	8.0	15.0	27						
01046500 KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06N LONG 069 53 12W)											
NOV 1986						JUNE					
10...	1110	6010	5.0	-3.0	38	25...	1500	6190	17.0	15.0	33
JAN 1987						SEP					
12...	1000	6460	0.5	-2.0	32	24...	1500	2180	17.0	16.0	33
MAR											
17...	1030	6410	1.0	1.0	34						

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											
01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09N LONG 069 57 20W)											
NOV 1986						AUG					
10...	1330	356	5.0	-4.0	32	25...	1100	52	16.0	18.0	54
MAR 1987						SEP					
09...	1415	284	0.0	-1.0	46	23...	1200	699	14.0	17.0	38
MAY											
19...	1145	374	14.0	17.0	34						
01048000 SANDY RIVER NEAR MERCER, ME (LAT 44 42 26N LONG 069 56 21W)											
AUG 1987						SEP					
25...	1500	64	19.0	19.0	85	23...	1330	452	15.0	20.0	57
01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00N LONG 069 24 56W)											
OCT 1986						JAN 1987					
06...	1130	704	14.5	15.0	150	06...	1240	449	0.5	-1.0	94
NOV						MAR					
13...	1230	349	4.0	4.0	123	09...	1128	207	1.0	2.0	136
01049130 JOHNSON BROOK AT SOUTH ALBION, ME (LAT 44 29 53N LONG 069 29 12W)											
OCT 1986						APR 1987					
06...	1415	1.3	11.5	12.0	184	30...	1230	6.8	10.0	13.0	103
NOV						JUL					
13...	1015	1.4	3.0	2.5	110	21...	1005	0.06	21.0	--	164
01049373 MILL STREAM AT WINTHROP, ME (LAT 44 18 24N LONG 069 58 18W)											
OCT 1986						APR					
09...	1030	5.1	14.0	16.0	89	15...	1306	221	6.5	7.0	72
NOV						28...	1347	82	8.0	9.0	69
13...	1430	3.3	6.5	2.0	73	JUL					
JAN 1987						14...	0932	26	22.0	20.0	62
07...	1030	42	3.0	1.0	65						
01049500 COBBOSSECONTEE STREAM AT GARDINER, ME (LAT 44 13 15N LONG 069 47 25W)											
OCT 1986						MAY					
08...	1145	294	15.0	12.5	91	01...	1440	68	10.0	13.0	77
DEC						SEP					
11...	1135	46	1.0	-1.0	76	30...	1045	209	16.0	18.0	76
JAN 1987											
07...	1230	303	1.0	2.0	76						
01049550 TOGUS STREAM AT TOGUS, ME (LAT 44 15 57N LONG 069 41 55W)											
OCT 1986						JAN 1987					
06...	0945	3.7	13.0	10.5	168	07...	1315	39	2.5	3.0	60
DEC						MAY					
11...	0800	55	1.0	-5.0	49	01...	0900	61	11.0	15.0	61

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											
01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40N LONG 071 03 25W)											
OCT 1986						MAR					
09...	1010	413	8.0	11.0	37	12...	1200	127	0.0	1.0	40
DEC						MAY					
15...	1120	181	0.0	-1.0	34	26...	1030	458	20.0	11.0	28
JAN 1987						AUG					
27...	1315	85	0.0	-5.0	53	26...	1300	27	14.5	18.0	42
01053500 ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57N LONG 071 07 46W)											
OCT 1986						MAR					
09...	1125	1930	10.0	13.0	36	12...	1400	1800	1.0	2.0	32
DEC						MAY					
15...	1335	1720	1.0	1.0	30	26...	1315	1360	13.0	25.0	27
JAN 1987						AUG					
27...	1415	1970	1.0	-1.0	32	26...	1530	1720	18.0	20.0	30
01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10N LONG 071 11 27W)											
OCT 1986						MAY 1987					
16...	1030	2250	10.5	10.0	71	26...	1445	1900	17.0	22.0	84
DEC						AUG					
15...	1510	2110	1.0	0.0	80	26...	1630	1820	19.0	20.0	86
01054200 WILD RIVER AT GILEAD, ME (LAT 44 23 26N LONG 070 58 46W)											
OCT 1986						MAR					
16...	0900	67	8.5	7.0	19	11...	1445	86	0.5	2.0	20
DEC						MAY					
16...	0730	103	0.0	-5.0	20	26...	1550	102	17.0	21.0	17
JAN 1987						AUG					
27...	1700	42	0.0	-3.0	39	25...	1255	10	--	19.0	21
01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33N LONG 070 32 50W)											
OCT 1986						MAR					
16...	0740	2380	10.5	7.0	74	10...	1345	3140	1.0	-3.0	98
DEC						MAY					
16...	0930	2970	2.0	0.0	80	22...	1245	2700	17.0	24.0	87
JAN 1987						AUG					
28...	1545	2350	--	--	104	27...	1100	1930	25.0	18.0	100
01055000 SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32N LONG 070 35 17W)											
OCT 1986						MAY					
22...	0945	80	6.0	10.0	25	22...	0900	74	14.0	21.0	24
DEC						AUG					
16...	1135	104	0.0	1.0	26	24...	1255	11	18.5	16.0	30
MAR 1987											
10...	1115	78	0.0	-8.0	28						

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											
01055500 NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10N LONG 070 13 49W)											
OCT 1986						MAY					
08...	0900	93	8.0	4.0	70	14...	1045	268	15.0	21.0	49
DEC						JUL					
09...	1045	569	0.0	-10.0	44	23...	0830	51	17.5	19.5	65
FEB 1987						AUG					
12...	1230	103	0.0	-10.0	55	21...	1400	20	20.5	22.0	86
01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08N LONG 070 32 16W)											
OCT 1986						AUG					
20...	1150	38	12.0	8.0	48	07...	0940	11	21.0	23.0	55
DEC						21...	1210	4.1	20.0	21.5	69
09...	0930	103	0.0	-10.0	42						
FEB 1987											
12...	1040	42	0.0	-10.0	46						
01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20N LONG 070 12 31W)											
DEC 1986						JUL 1987					
09...	1155	5960	0.0	-10.0	55	23...	1100	2570	21.0	20.5	103
ROYAL RIVER BASIN											
01060000 ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57N LONG 070 10 45W)											
OCT 1986						FEB 1987					
17...	0920	58	9.0	7.0	116	11...	1100	104	0.0	-5.0	90
DEC						JUL					
04...	0755	3260	2.5	4.0	45	24...	0830	49	18.0	22.0	102
SACO RIVER BASIN											
01064500 SACO RIVER NEAR CONWAY, NH (LAT 43 59 27N LONG 071 05 29W)											
OCT 1986						MAR					
07...	1230	471	8.0	9.0	45	11...	1300	470	0.0	2.0	45
DEC						JUL					
12...	1215	858	0.0	1.0	31	15...	1115	820	20.0	19.0	36
JAN 1987						SEP					
26...	1330	316	0.0	-10.0	48	08...	1105	141	18.5	20.0	52
01065500 OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26N LONG 070 47 55W)											
OCT 1986						JUL					
07...	0900	261	11.0	6.0	52	16...	0945	400	21.0	22.0	35
DEC						SEP					
12...	0900	1240	1.0	0.0	32	04...	0820	224	16.0	13.0	35
FEB 1987											
13...	1130	519	0.0	-7.0	39						

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.

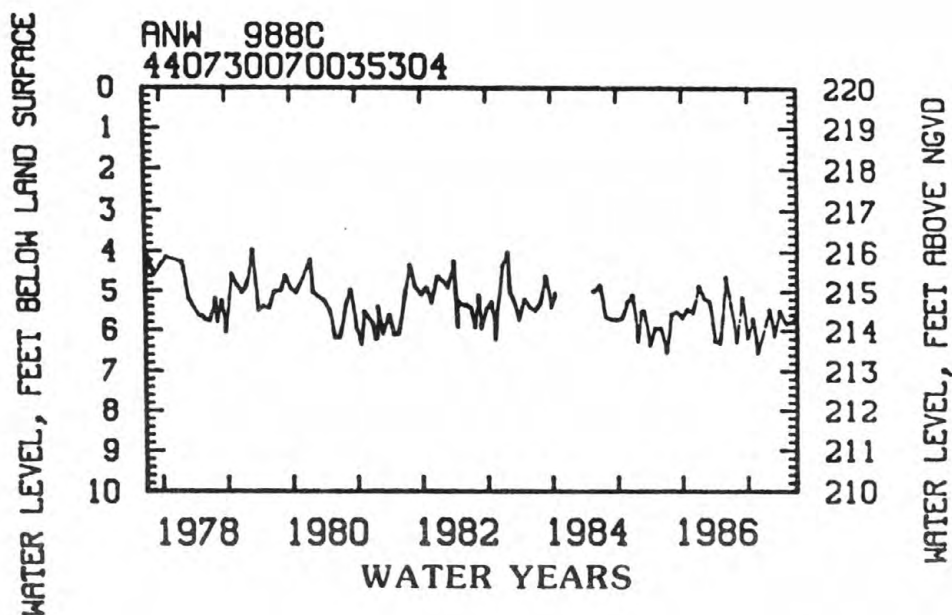
REMARKS.--Water level affected by pumping of nearby well.

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, 6.55 ft, below land-surface datum, Feb. 24, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
Oct. 29	6.29	Dec. 30	6.18	Feb. 24	6.55	May. 27	6.13	Jul. 30	5.83	Sep. 28	5.64
Nov. 28	5.14	Jan. 28	5.69	Apr. 30	5.45	Jun. 26	5.49	Aug. 27	5.80		



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.

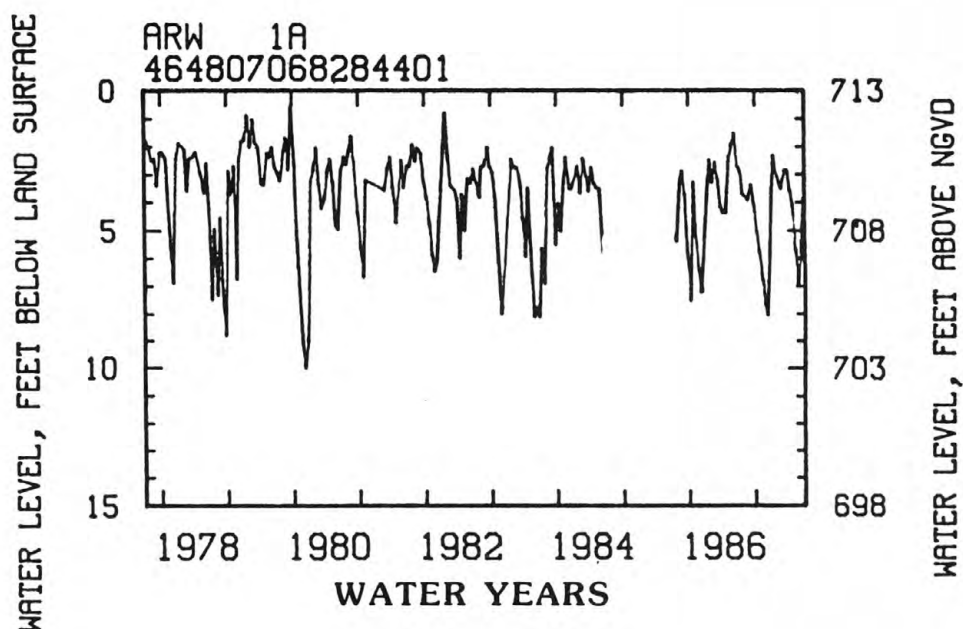
PERIOD OF RECORD.--November 1975 to current year. Records prior to October 1981 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed, Jan. 27, 1976, Mar. 14, 1977, Apr. 27, 1978, Apr. 13, 1984, Mar. 13, 1985, and Mar. 25, 1987; 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 1986 TO SEPTEMBER 1987

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 13	2.85	Dec. 11	3.35	Feb. 12	6.73	Apr. 13	2.24	Jun. 13	2.83	Aug. 13	5.67
28	3.70	27	4.00	26	7.64	27	2.90	29	2.80	27	7.00
Nov. 24	3.90	Jan. 12	5.00	Mar. 11	8.04	May 18	3.33	Jul. 13	3.55	Sep. 12	5.60
		26	5.76	25	Q	27	3.50	28	4.06	28	3.84

Q=Flowing



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.

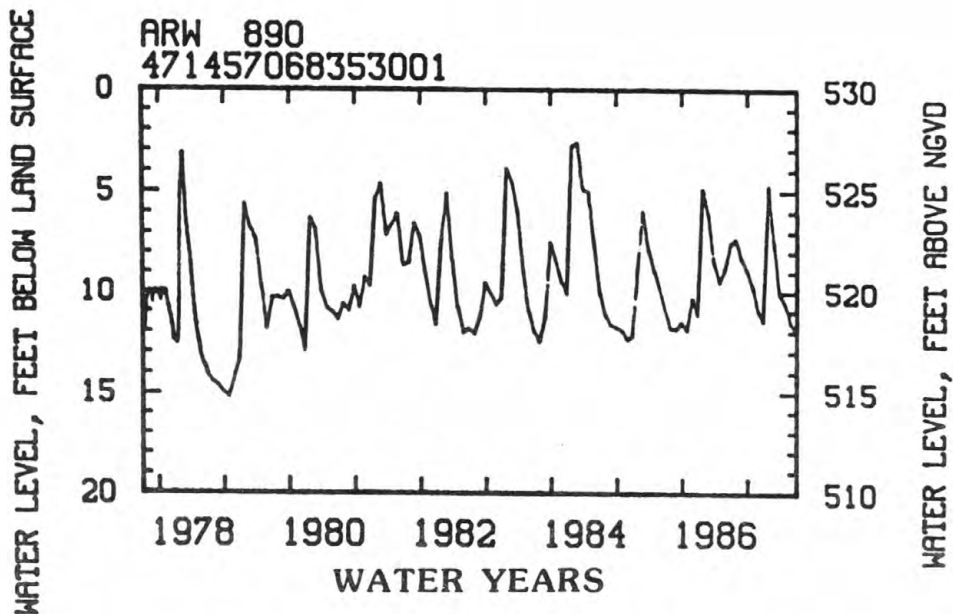
PERIOD OF RECORD.--November 1976 to current year.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.06	7.70	8.42	9.05	10.08	11.18	5.26	5.82	8.25	9.90	10.76	11.91
10	7.09	7.82	8.24	9.20	10.23	11.36	4.10	6.14	8.61	10.08	10.85	11.90
15	6.98	7.88	8.53	9.24	10.29	11.46	3.98	6.57	9.04	10.28	11.22	11.75
20	7.20	8.14	8.69	9.46	10.65	11.49	4.13	7.10	9.65	10.42	11.37	11.99
25	7.34	8.29	8.87	9.68	10.95	11.45	4.69	7.55	10.12	10.58	11.56	12.01
EOM	7.63	8.42	9.01	9.83	11.02	9.86	5.06	8.01	9.77	10.57	11.64	12.04
WTR YR 1987	HIGH		3.96, APR 14-15			LOW		12.10, SEP 27				



AROOSTOOK COUNTY--Continued

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.

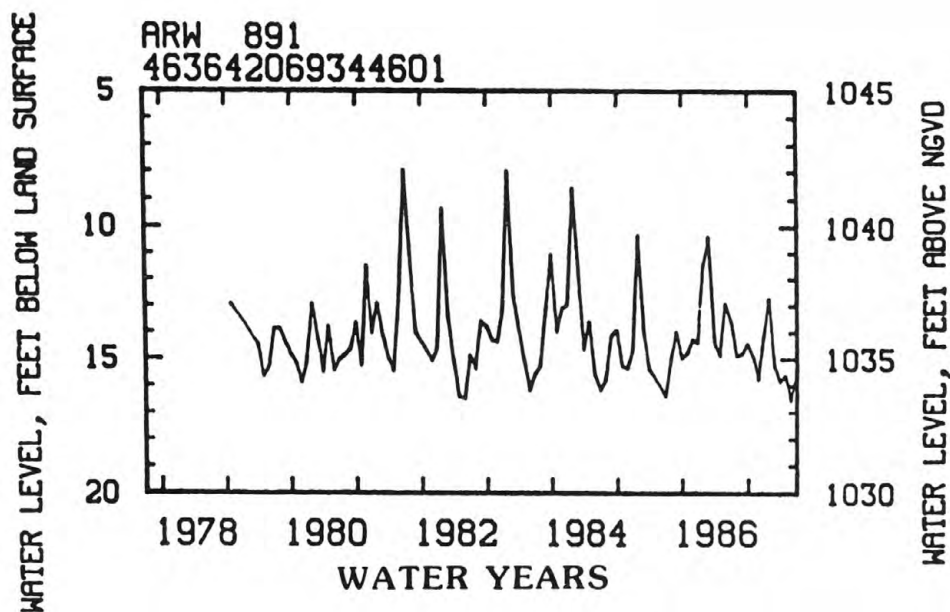
PERIOD OF RECORD.--July 1978 to current year.

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, 16.97 ft below land-surface datum, Sep. 07, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.66	14.99	13.42	14.87	15.30	15.48	9.68	14.15	15.69	14.36	16.04	16.76
10	14.24	14.95	13.75	14.98	15.39	15.73	9.98	14.39	15.48	14.85	16.16	16.61
15	14.36	14.84	14.02	14.82	15.60	15.89	10.67	14.70	15.27	15.10	16.40	16.07
20	14.67	15.16	14.21	14.97	15.74	15.59	11.33	15.13	15.60	15.40	16.48	16.16
25	14.90	14.83	14.44	14.90	15.78	14.24	12.72	15.24	15.86	15.61	16.56	15.54
EOM	14.95	14.38	14.71	15.10	15.75	10.13	13.59	15.49	14.68	15.91	16.68	15.64
WTR YR 1987	HIGH		7.93, APR 1		LOW		16.97, SEP 7					



AROOSTOOK COUNTY--Continued

464234068010401. Local number, Arw 895.

LOCATION.--Lat 46°42'34", long 68°01'04", Hydrologic Unit 01010004, about 2.0 mi north of City of Presque Isle.

Owner: U.S. Geological Survey.

AQUIFER.--Ice-contact deposits of Pleistocene age.

WELL CHARACTERISTICS.--A wash-gored observation well, diameter 2 in., October 1986. Measured depth 20 ft, screened depth 15-20 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 409.09 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.94 ft above land-surface datum.

REMARKS.--Record lost between March 3 and April 20 because recorder stopped; well also sampled for water quality.

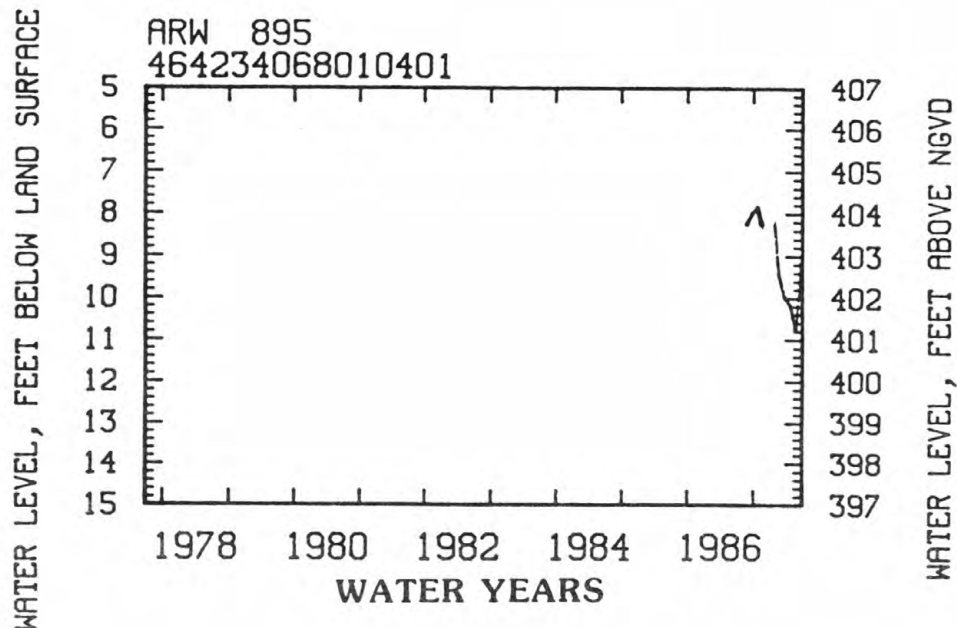
PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 6.72 ft below land-surface datum, Dec. 9, 1986; lowest measured 10.96 ft below land-surface datum, Sep. 8-9, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	OCT	NOV	DEC	JAN	FEB	MEAN VALUES		APR	MAY	JUN	JUL	AUG	SEP
						MAR							
5	---	---	7.41	8.09	7.88	---	---	---	8.48	9.79	9.82	10.50	10.89
10	---	9.61	6.87	8.15	7.96	---	---	---	8.49	9.74	9.96	10.55	10.87
15	---	9.74	7.51	7.85	8.12	---	---	---	9.09	9.16	9.90	10.63	10.30
20	---	9.69	7.79	7.86	8.34	---	---	---	9.30	9.66	10.23	10.72	9.95
25	---	8.24	7.99	7.84	8.48	---	---	7.91	9.46	9.99	10.17	10.79	9.17
EOM	---	7.66	7.91	7.84	8.49	---	---	8.64	9.79	9.70	10.32	10.88	9.80

WTR YR 1987 HIGH 6.72, DEC 9 LOW 10.96, SEP 8-9



AROOSTOOK COUNTY--Continued

464018068010101. Local number, Arw 904.

LOCATION.--Lat 46°40'18", long 68°01'01", Hydrologic Unit 01010004, at the University of Maine at Presque Isle, about 100 ft east of South Hall in an abandon pumphouse. Owner: University of Maine at Presque Isle.

AQUIFER.--Spragueville formation of Silurian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 100 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 506.09 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 6.09 ft below land-surface datum.

REMARKS.--Record lost between November 18 and January 13 because recorder stopped. July 28 through July 30, period of doubtful gage-height record. Well destroyed August 1987.

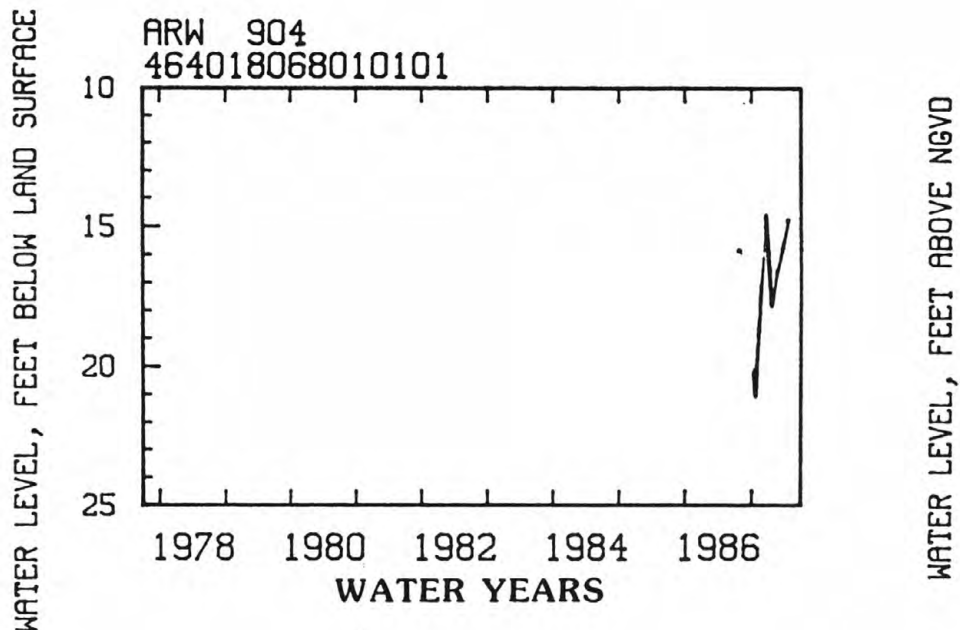
PERIOD OF RECORD.--August 1986 to August 1987. Records prior to October 1986 have not been published but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 13.75 ft below land-surface datum, Mar. 30, 1987; lowest measured 22.40 ft below land-surface datum, Jan. 14, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.20	15.90	---	---	19.73	16.68	14.16	17.42	15.72	15.35	---	---
10	14.84	15.70	---	---	19.10	16.99	14.44	17.05	14.87	15.75	---	---
15	15.37	15.93	---	22.23	18.50	17.30	14.71	16.71	14.48	15.91	---	---
20	15.74	---	---	21.68	17.87	17.26	14.99	16.86	15.32	16.05	---	---
25	15.87	---	---	21.07	17.24	14.59	17.86	16.61	15.76	14.78	---	---
EOM	15.65	---	---	20.37	16.79	13.89	17.55	15.96	14.76	---	---	---

WTR YR 1987 HIGH 13.75, MAR 30 LOW 22.40, JAN 14



AROOSTOOK COUNTY--Continued

464239067574401. Local number, Arw 905.

LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010004, about 2.6 mi east of the City of Presque Isle.

Owner: Simplot Corporation.

AQUIFER.--Carys Mills formation of lower Silurian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 51 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 478.62 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 4.37 ft below land-surface datum.

REMARKS.--Record lost between March 3 and April 20 because recorder stopped.

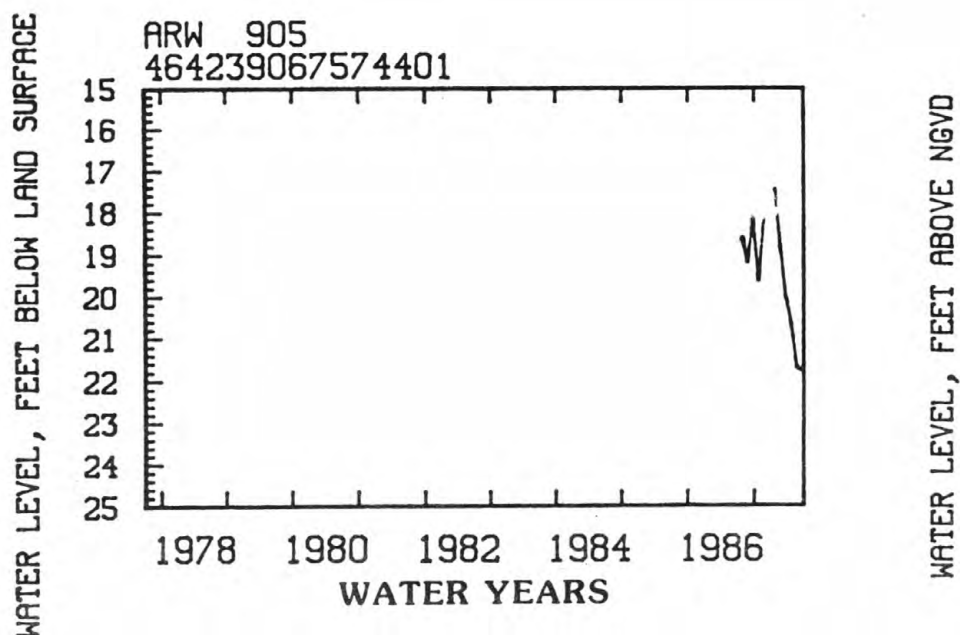
PERIOD OF RECORD.--August 1986 to current year. Records prior to October 1986 have not been published but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 15.45 ft below land-surface datum, Dec. 10-11, 1986; lowest measured 22.57 ft below land-surface datum, Sep. 22, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.10	19.36	17.40	19.17	20.29	---	---	18.37	19.44	20.04	21.11	22.03
10	16.15	19.34	15.49	19.40	20.32	---	---	18.16	19.69	20.20	21.27	22.23
15	16.78	19.18	16.23	19.74	20.31	---	---	18.24	20.00	20.31	21.40	22.38
20	17.76	19.04	17.43	19.32	18.10	---	---	18.53	19.92	20.49	21.59	22.54
25	18.63	19.19	18.10	19.63	18.09	---	17.46	18.80	20.04	20.67	21.71	21.78
EOM	19.14	19.06	18.74	19.93	18.07	---	18.13	19.22	20.18	20.89	21.88	20.04

WTR YR 1987 HIGH 15.45, DEC 10-11 LOW 22.57, SEP 22



AROOSTOOK COUNTY--Continued

464259067572901. Local number, Arw 906.

LOCATION.--Lat 46°42'59", long 67°57'29", Hydrologic Unit 01010004, approximately 3.5 mi northeast of the City of Presque Isle. Owner: U.S. Geological Survey.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., October 1986. Measured depth 40 ft, screened depth 35-40 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 430.92 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.88 ft above land-surface datum.

REMARKS.--Record lost between January 15 and March 1 because recorder stopped. Well also sampled for water quality.

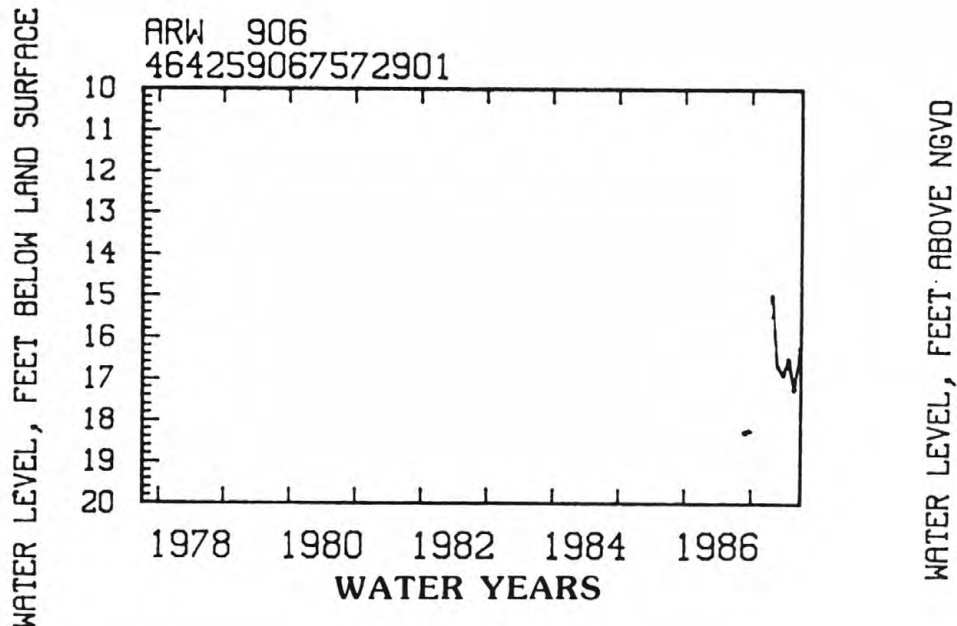
PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 14.15 ft below land-surface datum, Apr. 21, 1987; lowest measured 18.59 ft below land-surface datum, Jan. 14, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	18.27	18.35	---	18.32	15.26	15.76	16.87	15.57	16.77	17.54
10	---	18.28	18.25	18.56	---	18.18	14.92	15.93	16.84	15.88	16.93	17.56
15	---	18.29	18.25	---	---	17.92	14.57	16.23	16.79	15.98	17.04	17.47
20	---	18.34	18.26	---	---	17.67	14.23	16.48	16.85	16.25	17.17	17.47
25	---	18.30	18.25	---	---	16.55	14.97	16.69	16.91	16.50	17.27	16.25
EOM	---	18.29	18.31	---	---	15.59	15.55	16.85	16.64	16.63	17.42	16.46

WTR YR 1987 HIGH 14.15, APR 21 LOW 18.59, JAN 14 AND OTHERS



AROOSTOOK COUNTY--Continued

464303067592201. Local number, Arw 907.

LOCATION.--Lat 46°43'03", long 67°59'22", Hydrologic Unit 01010004, about 2.7 mi northeast of City of Presque Isle.

Owner: U.S. Geological Survey.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in, October 1986. Measured depth 28 ft, screened depth 18-28 ft.

INSTRUMENTATION.--Digital water-level recorder--60 minute punch.

DATUM.--Elevation of land-surface datum is 652.31 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.77 ft above land-surface datum.

REMARKS.--March 29 through April 20, period of doubtful gage height record. Well also sampled for water quality.

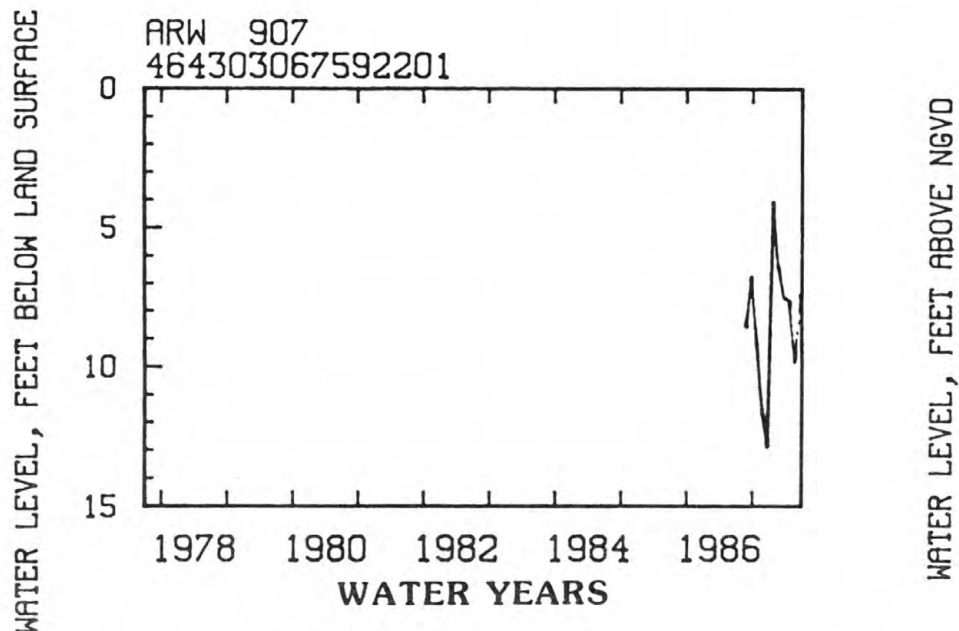
PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 3.68 ft below land-surface datum, Apr. 21, 1987; lowest measured 12.96 ft below land-surface datum, Mar. 29, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	6.53	7.74	10.05	11.93	1.30	4.74	7.31	6.39	8.37	9.95
10	---	8.69	6.26	8.15	10.44	12.33	1.20	4.76	7.60	6.65	8.72	9.50
15	---	7.58	6.26	8.43	11.00	12.62	1.20	4.75	7.64	7.00	9.13	8.83
20	---	7.97	6.45	8.89	11.27	12.89	---	6.04	7.58	7.32	9.47	8.12
25	---	8.57	6.76	9.19	11.68	12.89	4.05	6.39	7.53	7.67	9.85	7.46
EOM	---	7.79	7.23	9.63	11.91	1.28	4.45	6.96	7.12	8.05	10.29	6.73

WTR YR 1987 HIGH 3.68, APR 21 LOW 12.96, MAR 29



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.

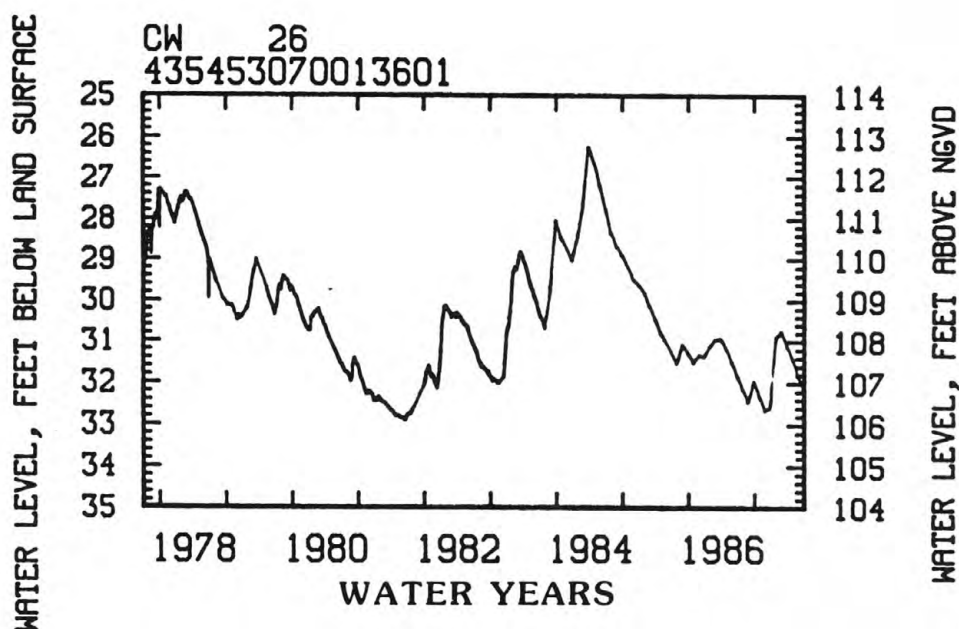
REVISED RECORDS.--WDR ME-82-1: 1978, 1981 WDR ME-83-1: 1977, WRD ME-84-1: 1980, 1981.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.93	32.30	32.07	32.06	32.45	32.73	31.44	30.85	30.86	31.20	31.53	31.97
10	32.02	32.36	31.94	32.09	32.48	32.78	31.07	30.67	30.92	31.24	31.59	32.03
15	32.04	32.38	31.96	32.15	32.54	32.79	31.01	30.63	30.96	31.29	31.67	32.07
20	32.11	32.45	31.98	32.24	32.59	32.80	30.91	30.72	31.04	31.35	31.76	32.11
25	32.16	32.44	31.96	32.32	32.65	32.59	30.90	30.75	31.10	31.40	31.84	32.12
EOM	32.27	32.28	31.99	32.32	32.66	32.10	30.84	30.78	31.13	31.47	31.90	32.12

WTR YR 1987 HIGH 30.61, MAY 15 LOW 32.83, MAR 22



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.

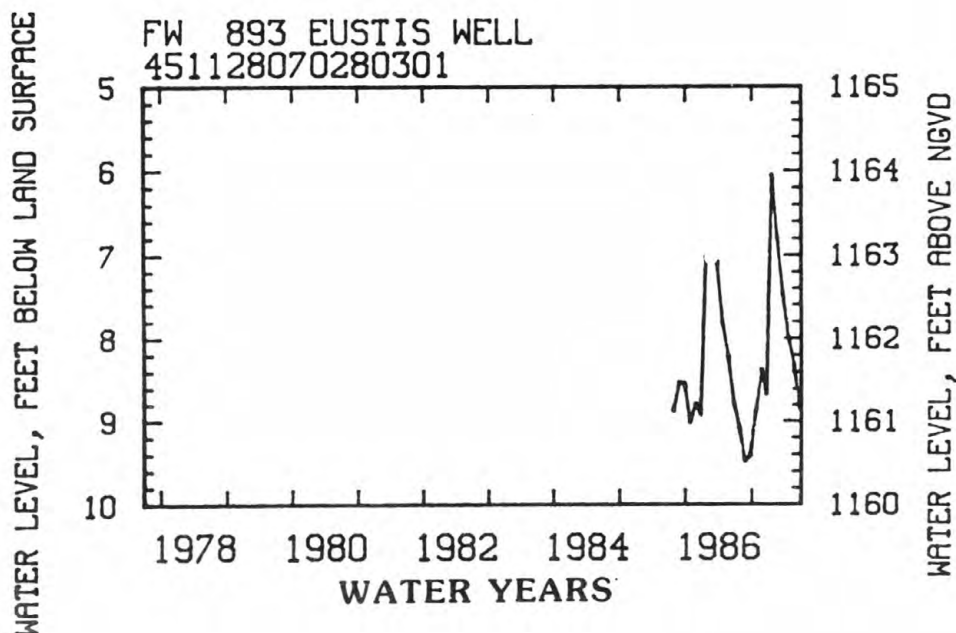
PERIOD OF RECORD.--August 1985 to current year. Records prior to October 1985 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 6.00 ft below land surface datum, Apr. 23, 1987; lowest water level 9.99 ft below land surface datum, Feb. 11, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.78	9.21	9.56	9.24	8.72	8.24	7.95	6.30	7.01	7.67	8.20	8.60
10	8.94	9.26	9.58	9.15	8.62	8.21	6.95	6.36	7.10	7.78	8.29	8.67
15	8.98	9.34	9.60	9.05	8.55	8.36	6.40	6.52	7.18	7.85	8.38	8.75
20	9.04	9.43	9.50	8.98	8.46	8.53	6.11	6.74	7.28	7.94	8.21	8.79
25	9.09	9.49	9.42	8.89	8.37	8.68	6.05	6.80	7.47	8.00	8.34	8.86
EOM	9.16	9.54	9.32	8.79	8.34	8.80	6.15	6.88	7.59	8.10	8.46	8.92

WTR YR 1987 HIGH 6.00, APR 23 LOW 9.60, DEC 15



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 Jan. 11 through Mar. 15, Jun. 11 through Jun. 16, and Sep. 25 through Sep. 30 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.

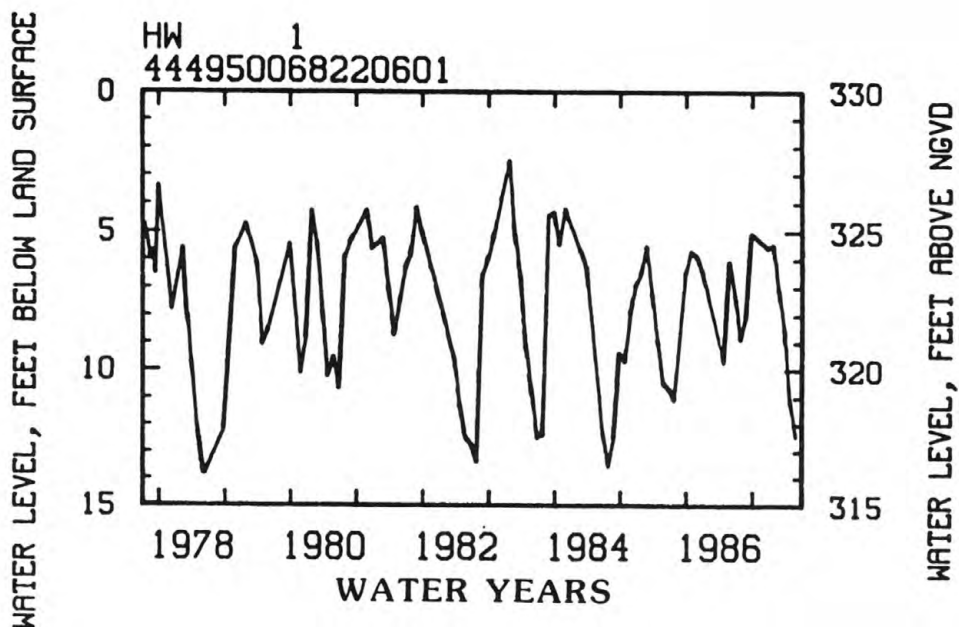
REVISED RECORDS.--WDR ME-82-1: 1981, WRD ME-84-1: 1980, 1981.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.57	9.74	4.49	6.07	---	---	3.61	5.88	7.42	9.60	11.46	13.05
10	7.87	10.05	4.99	6.30	---	---	4.15	5.88	---	10.29	11.61	13.65
15	8.10	10.27	5.51	---	---	---	4.64	6.23	---	10.79	11.84	13.54
20	8.46	10.54	5.99	---	---	9.49	5.01	6.68	7.89	10.95	12.13	12.92
25	8.86	8.04	5.05	---	---	5.56	5.42	7.08	8.52	11.11	12.41	---
EOM	9.42	5.88	5.70	---	---	2.98	5.45	7.09	8.86	11.30	12.77	---

WTR YR 1987 HIGH 2.63, MAR 31 LOW 13.66, SEP 12-15



HANCOCK COUNTY-Continued

441440068182701. Local number, H 137.

LOCATION.--Lat 44°14'40", long 68°18'27", Hydrologic Unit 01050002, Seawall Campground of Acadia National Park, 1.3 mi south of Southwest Harbor. Owner: National Park Service.

AQUIFER.--Bedrock of Devonian age.

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

INSTRUMENTATION.--Measurement with popper--by local observer.

DATUM.--Elevation of land-surface datum is 40 ft above National Geodetic Datum 1929, from topographic maps.

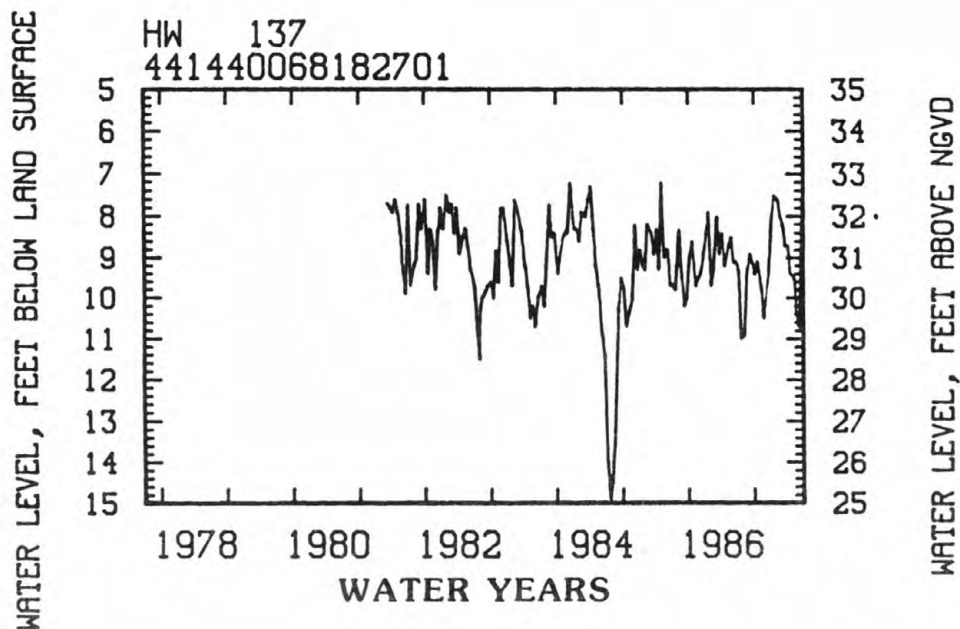
Measuring point: Top of casing 1.3 ft above land-surface datum.

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 1986 TO SEPTEMBER 1987
MEAN VALUES

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 10	9.3	Dec. 12	8.9	Feb. 12	9.7	Apr. 09	8.1	Jun. 11	8.2	Aug. 13	9.5
23	11.0	24	9.1	26	10.5	23	7.5	25	8.7	27	10.4
Nov. 13	10.9	Jan. 07	9.4	Mar. 26	9.6	May 14	7.6	Jul. 09	8.7	Sep. 10	10.7
26	9.3	22	9.1			28	8.0	23	9.4	24	7.6



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. 30 through Feb. 23, because recorder stopped.

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

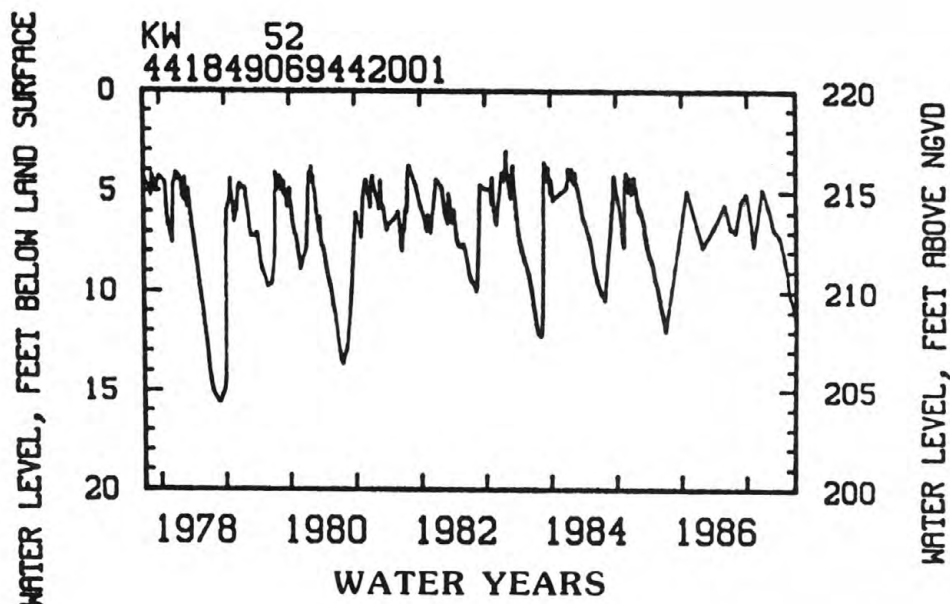
REVISED RECORDS.--WDR ME-82-1: 1978, 1979, 1981.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.76	7.49	3.93	5.53	---	9.55	5.14	5.61	6.42	7.43	8.92	11.08
10	6.63	7.51	4.58	5.98	---	9.13	5.14	5.30	6.55	7.61	9.23	11.45
15	6.71	6.60	5.06	6.32	---	8.61	5.50	5.91	6.70	7.84	9.55	11.67
20	6.84	6.17	5.07	6.66	---	8.07	5.25	6.42	6.97	8.10	9.91	11.82
25	7.00	5.45	5.07	6.91	9.75	4.85	5.70	6.86	7.20	8.32	10.26	11.52
EOM	7.28	4.29	4.99	---	9.46	4.19	---	6.11	7.29	8.59	10.72	11.44

WTR YR 1987 HIGH 3.26, DEC 3 LOW 11.83, SEP 20



KENNEBEC COUNTY-Continued

440918069564001. Local number, K 766.

LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, 690 ft northeast of the intersection of Hallowell Neck Road, Libby Road, and Plains Road, Litchfield. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 62 ft, cased to 59 ft, open end.

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.

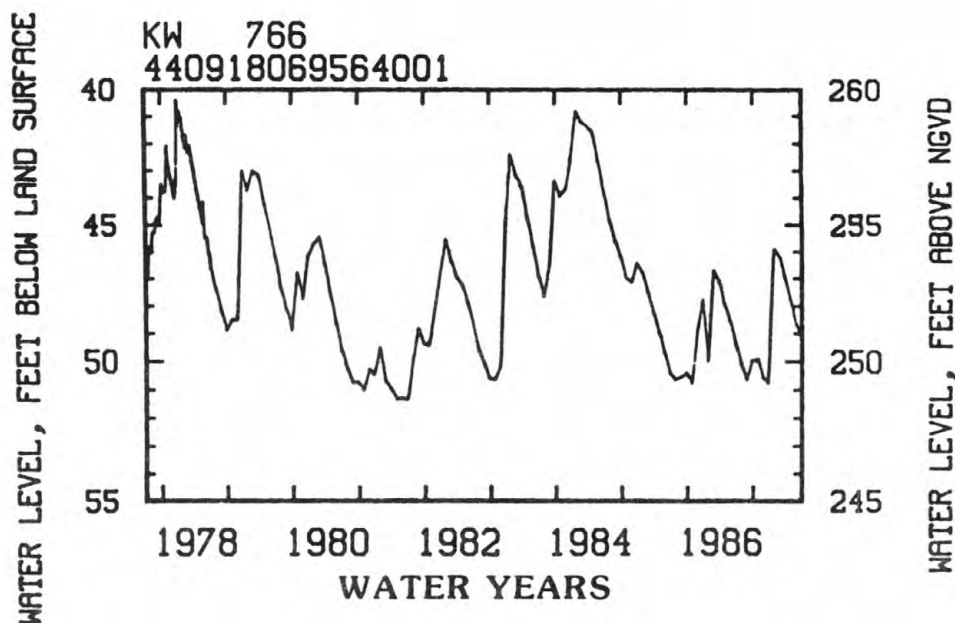
REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.56	50.35	50.02	49.70	50.09	50.69	46.06	45.88	46.34	47.18	48.00	49.01
10	49.69	50.41	49.96	49.75	50.18	50.76	45.68	45.71	46.49	47.30	48.16	49.14
15	49.79	50.51	49.97	49.77	50.34	50.82	45.90	45.85	46.64	47.42	48.32	49.18
20	49.93	50.60	49.97	49.86	50.44	50.91	45.72	46.00	46.82	47.58	48.51	49.27
25	50.06	50.63	49.97	49.90	50.56	50.74	45.87	46.13	46.94	47.73	48.64	49.22
EOM	50.19	50.57	49.73	49.97	50.61	49.38	45.92	46.20	47.03	47.88	48.86	49.34

WTR YR 1987 HIGH 45.59, APR 9 LOW 50.92, MAR 20-22



KENNEBEC COUNTY-Continued

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.

REMARKS.--Record lost between April 3 and 29 because recorder stopped.

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

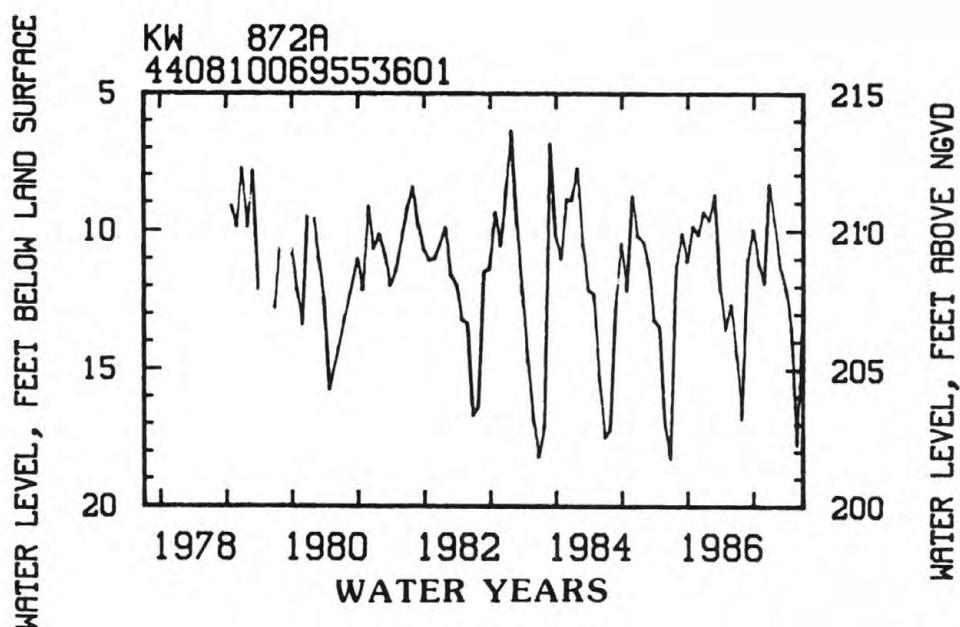
REVISED RECORDS.--WDR ME-82-1: 1980, WRD ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.53 ft below land-surface datum, Mar. 31, 1987; lowest, 19.14 ft below land-surface datum, Sep. 12, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.74	16.82	8.48	10.43	11.51	11.77	---	9.86	11.76	12.08	13.87	18.52
10	15.15	13.00	9.79	10.66	11.53	10.69	---	9.81	11.44	12.48	16.29	18.81
15	15.04	12.42	10.48	10.84	11.63	10.89	---	10.62	11.91	12.76	17.04	18.23
20	15.90	12.52	10.07	11.00	11.76	10.77	---	11.22	12.48	13.18	17.32	18.10
25	16.81	11.02	9.92	11.18	11.87	8.30	---	11.34	12.07	13.52	17.78	13.16
EOM	16.56	9.88	9.82	11.30	11.89	6.59	---	11.66	11.58	13.87	18.13	13.44

WTR YR 1987 HIGH 5.53, MAR 31 LOW 19.14, SEP 12



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.

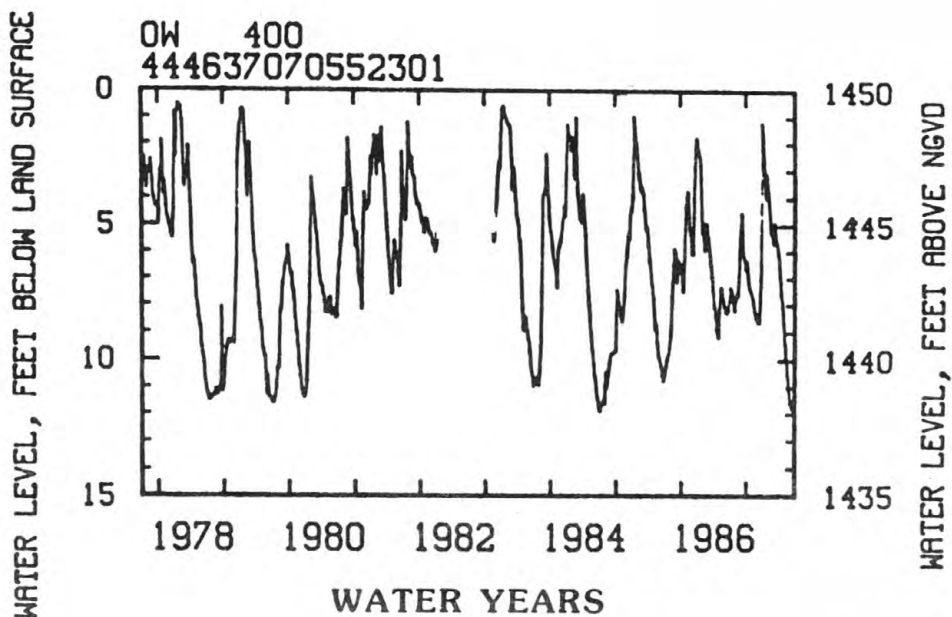
REMARKS.--Prior to 1973 well was used for domestic supply.

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 1986 TO SEPTEMBER 1987

DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
Oct. 12	7.37	Dec. 07	5.10	Feb. 08	7.66	Apr. 05	1.18	Jun. 07	5.69	Aug. 02	8.70
19	7.55	14	4.54	15	7.92	12	1.93	14	4.86	09	9.40
26	7.88	21	6.15	22	8.24	19	3.05	21	5.70	16	9.90
Nov. 02	8.20	28	6.25	Mar. 01	8.50	26	4.00	28	5.65	23	10.55
09	7.85	Jan. 04	6.64	08	8.35	May 03	3.10	Jul. 05	6.10	30	11.08
16	7.58	11	6.34	15	8.65	10	3.72	12	6.75	Sep. 06	11.60
23	7.65	18	7.20	22	8.65	17	4.57	19	7.60	20	11.80
30	6.23	25	7.39	30	7.05	24	5.32	26	8.05	27	11.50
						31	5.20				



OXFORD COUNTY--Continued

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.

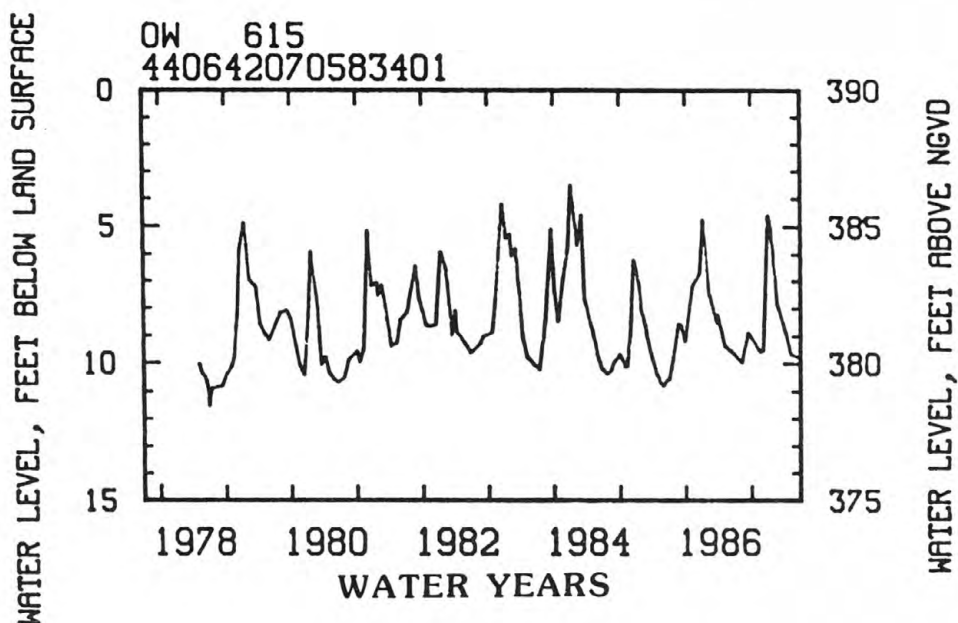
Measuring point: Top of casing at land-surface datum, which is 2.9 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.00 ft below land-surface datum, Apr. 04, 1987; lowest measured, 11.58 ft below land-surface datum, Oct. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Nov. 09	10.00	Feb. 22	9.60	Apr. 04	4.00	May 25	7.90	Aug. 09	9.70	Sep. 19	9.80
Dec. 14	8.90	Mar. 08	9.55	19	5.00	Jul. 06	8.80				



OXFORD COUNTY-Continued

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.

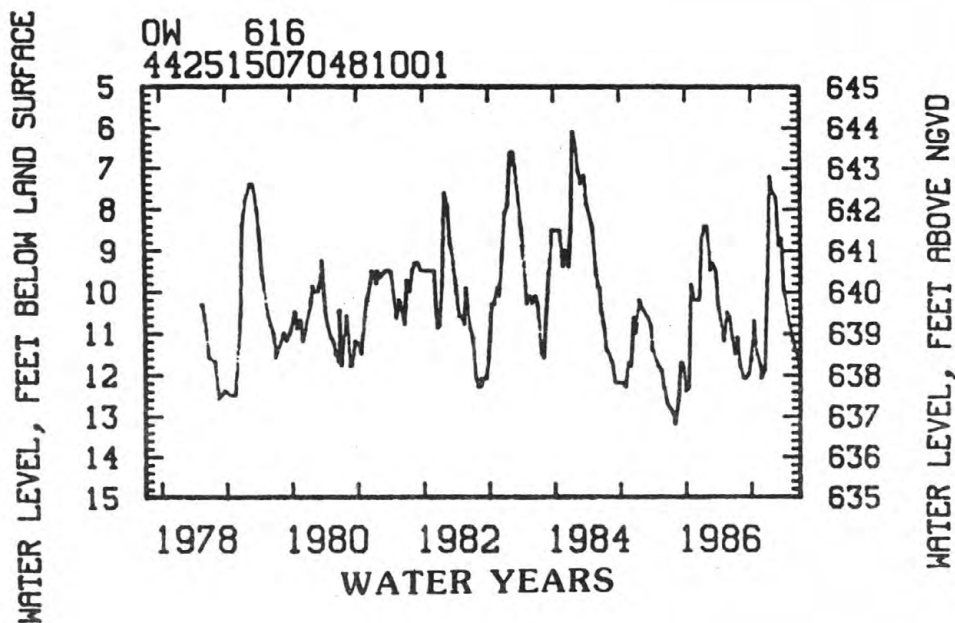
PERIOD OF RECORD.--August 1978 to current year.

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 1986 TO SEPTEMBER 1987

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 15	11.1	Dec. 15	12.0	Feb. 16	11.7	Apr. 15	7.2	Jun. 15	8.7	Aug. 15	11.1
30	11.8	30	11.6	24	12.1	29	7.6	29	10.0	30	11.4
Nov. 17	12.1	Jan. 15	10.7	Mar. 16	11.9	May 18	7.7	Jul. 30	10.8	Sep. 28	11.9
28	12.1	31	11.5	30	9.7	29	8.9				



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.

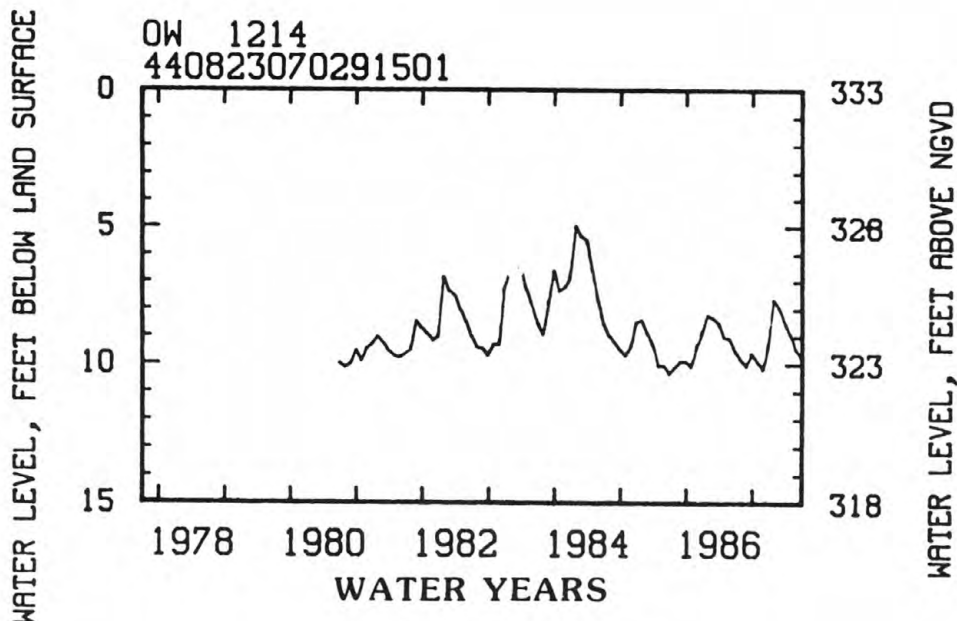
REVISED RECORDS.--WDR ME-82-1: 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.07 ft below measuring-point datum, Jun. 3, 1984; lowest, 10.33 ft below measuring-point datum, Mar. 15-17, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.62	9.94	9.64	9.66	9.97	10.26	7.73	7.77	8.14	8.58	9.06	9.62
10	9.68	9.98	9.50	9.71	10.02	10.29	7.45	7.62	8.19	8.64	9.16	9.69
15	9.72	9.99	9.50	9.75	10.06	10.33	7.40	7.69	8.31	8.72	9.24	9.67
20	9.77	10.03	9.51	9.78	10.14	9.97	7.49	7.84	8.41	8.78	9.36	9.72
25	9.81	10.06	9.59	9.88	10.18	9.37	7.62	7.92	8.48	8.88	9.45	9.75
EOM	9.84	9.90	9.61	9.92	10.19	9.02	7.69	8.06	8.51	9.00	9.56	9.79

WTR YR 1987 HIGH 7.40, APR 12-16 LOW 10.33, MAR 14-17



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.

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

REVISED RECORDS.--WRD ME-84-1: 1979, 1980, 1981.

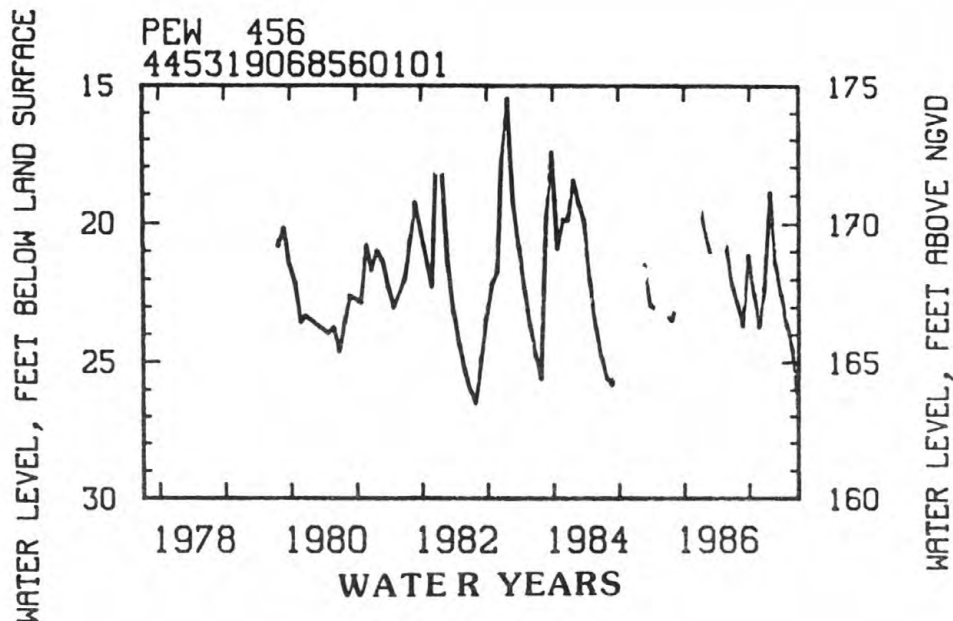
REVISIONS.--Water levels, September 1979 to October 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.92 ft below land-surface datum, Apr. 26, 1983; lowest, 26.93 ft below land-surface datum, Sep. 30, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.41	23.27	20.73	21.46	22.98	23.95	15.78	19.84	21.80	22.90	24.02	25.30
10	22.48	23.43	20.36	21.75	23.16	24.03	16.81	20.48	22.02	23.08	24.15	25.59
15	22.47	23.61	20.56	22.00	23.35	24.14	17.80	20.86	22.21	23.27	24.29	25.85
20	22.65	23.79	20.86	22.26	23.54	24.18	18.33	21.14	22.34	23.46	24.41	26.41
25	22.83	23.72	21.14	22.48	23.73	22.43	18.88	21.44	22.53	23.64	24.51	26.66
EOM	23.10	21.89	21.14	22.74	23.82	18.85	19.36	21.70	22.71	23.85	24.67	26.91

WTR YR 1987 HIGH 15.24, APR 2-3 LOW 26.93, SEP 30



PENOBSCOT COUNTY--Continued

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.

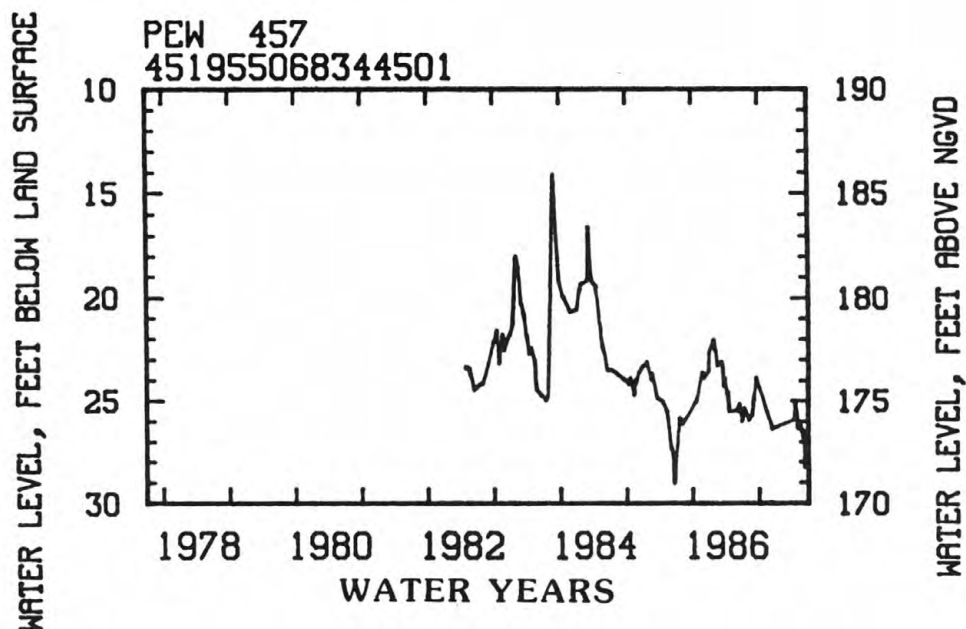
PERIOD OF RECORD.--July 1982 to current year.

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 1986 TO SEPTEMBER 1987

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 02	26.00	Dec. 04	25.10s	Aug. 03	26.39	Sep. 03	26.72	Sep. 11	28.28	Sep. 25	27.30
06	25.80	18	23.90s	17	26.39	04	26.50	22	27.60	28	26.60
14	25.40	Jul. 17	25.95	18	26.35	07	26.90	24	26.80		
Nov. 10	25.95	22	25.15	20	26.15	08	26.84				
25	25.75s	29	25.53	24	26.45	10	27.90				

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.

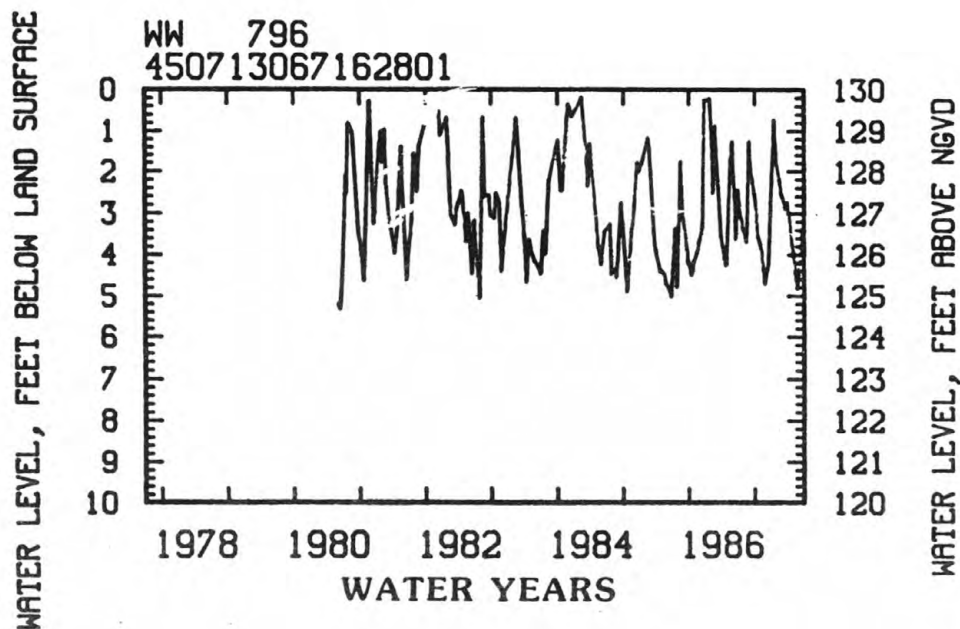
PERIOD OF RECORD.--September 1980 to current year.

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 1986 TO SEPTEMBER 1987

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 17	3.11	Dec. 16	2.16	Feb. 19	4.37	Apr. 17	0.73	Jun. 19	2.91	Aug. 18	4.62
25	3.36	30	2.54	27	4.73	May 01	1.82	28	2.75	28	4.85
Nov. 18	3.70	Jan. 20	3.61	Mar. 18	4.24	17	2.20	Jul. 28	3.79	Sep. 20	3.44
30	1.26	29	3.72	30	F	28	2.57			30	3.28

F=well flowing



WASHINGTON COUNTY--Continued

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.--Record lost between April 16 and May 26 because recorder stopped.

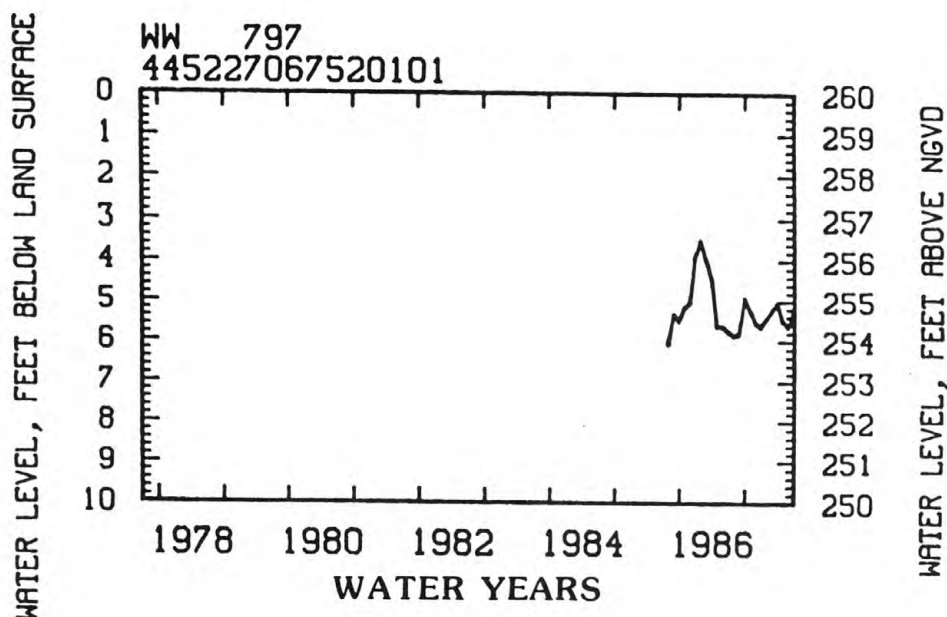
PERIOD OF RECORD.--September 1985 to current year. Records prior to October 1985 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 3.24 ft below land surface datum, Apr. 3, 1987; lowest water level 7.29 ft below land surface datum, Aug. 19, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.81	5.98	4.52	4.93	5.33	5.68	3.27	--	5.04	4.88	5.57	5.88
10	5.87	6.05	4.46	5.03	5.38	5.72	3.30	--	5.03	5.03	5.64	5.98
15	5.87	6.09	4.66	5.12	5.44	5.78	3.29	--	4.98	5.14	5.69	6.07
20	5.86	6.12	4.80	5.16	5.51	5.84	--	--	5.02	5.30	5.57	6.14
25	5.88	5.85	4.92	5.24	5.56	5.70	--	--	5.06	5.41	5.66	5.28
EOM	5.92	5.05	4.83	5.30	5.60	4.14	--	5.06	4.87	5.51	5.78	5.29

WTR YR 1987 HIGH 3.24, APR 3 LOW 6.14, SEP 19-21



SURFACE-WATER RECORDS

REMARK CODES.--The following remark codes may appear with the water-quality data in this section:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
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)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

AROOSTOOK COUNTY

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)
464234068010401	112ICCC	10-30-86	12:00	345	7.40	7.5	130	39
464259067572901	112TILL	11-05-86	08:30	425	7.20	6.0	230	78
464303067592201	112TILL	11-05-86	14:00	550	7.50	6.5	260	88

STATION NUMBER	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS F)
464234068010401	9.1	13	17	0.5	0.73	--	E16	<0.50
464259067572901	7.5	3.3	3	0.1	1.7	163	30	13
464303067592201	9.8	6.4	5	0.2	4.5	172	E43	20

STATION NUMBER	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)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
464234068010401	--	--	--	--	--	200	370
464259067572901	<0.1	5.9	256	230	5.40	10	10
464303067592201	--	--	--	--	11.1	<0	0

Geologic unit (aquifer)

112ICCC Ice-contact deposits, Pleistocene age.

112TILL Till, Pleistocene age.

E = Estimated value

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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).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1 2.54×10^{-2}	millimeters (mm) 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 4.047×10^{-1} 4.047×10^{-3}	square meters (m ²) square hectometers (hm ²) 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 3.785×10^0 3.785×10^{-3}	liters (L) cubic decimeters (dm ³) cubic meters (m ³)
million gallons	3.785×10^3 3.785×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1 2.832×10^{-2}	cubic decimeters (dm ³) cubic meters (m ³)
cfs-days	2.447×10^3 2.447×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3 1.233×10^{-3} 1.233×10^{-6}	cubic meters (m ³) cubic hectometers (hm ³) cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1 2.832×10^1 2.832×10^{-2}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2} 6.309×10^{-2} 6.309×10^{-5}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1 4.381×10^{-2}	cubic decimeters per second (dm ³ /s) 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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