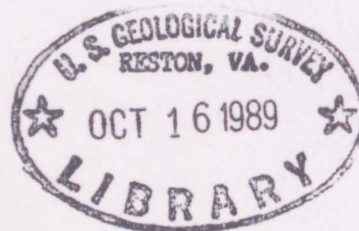


Water Resources Data Maine Water Year 1988



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-88-1
Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1988

1987

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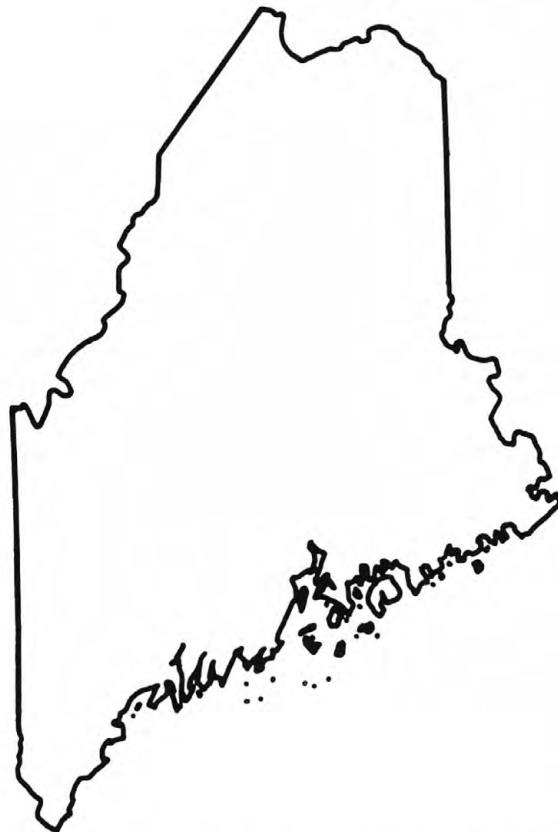
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Water Resources Data Maine Water Year 1988

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-88-1
Prepared in cooperation with the State of Maine
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

MANUEL LUJAN JR., Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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

1989

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. Fontaine
Gordon R. Keezer
Robert G. Lippert

Richard A. Morrill
Joseph P. Nielsen
Joel A. Petersen

Gloria L. Morrill prepared the illustrations for the report.

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

The staff of the Maine Office dedicates this report to Richard A. "Red" Morrill, who retired July 29, 1988 after having worked in the surface-water data-collection program for more than 41 years. Throughout his career, Red made legendary contributions to the collection, processing, and publication of streamflow data for the State of Maine.

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.

REPORT DOCUMENTATION PAGE		1. REPORT NO. USGS/WRD/HD-89?277	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data Maine Water Year 1988			5. Report Date July 1989	
7. Author(s) William P. Bartlett, Jr. Wayne B. Higgins, William J. Nichols, Jr.			6.	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division 26 Ganneston Drive Augusta, Maine 04330			8. Performing Organization Rept. No. USGS-WRD-ME-88-1	
			10. Project/Task/Work Unit No.	
			11. Contract(C) or Grant(G) No. (C) (G)	
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division 26 Ganneston Drive Augusta, Maine 04330			13. Type of Report & Period Covered Annual Oct.1,1987 to Sept.30,1988	
15. Supplementary Notes Prepared in cooperation with the State of Maine and other agencies.			14.	
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 51 gaging stations; stage only for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 12 gaging stations; and water-levels for 31 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				
18. Availability Statement: No restrictions on distribution. This report may be purchased from: National Technical Information Service Springfield, VA 22161		19. Security Class (This Report) Unclassified		21. No. of Pages 192
		20. Security Class (This Page) Unclassified		22. Price

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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 51 gaging stations; stage only at 2 gaging stations; contents at 19 lakes and reservoirs; water quality at 12 river sites; and water levels at 31 observation wells. Locations of these sites are shown on figures 1 and 2. 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-88-1." 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.



Figure 1.--Location of active surface-water data-collection stations.

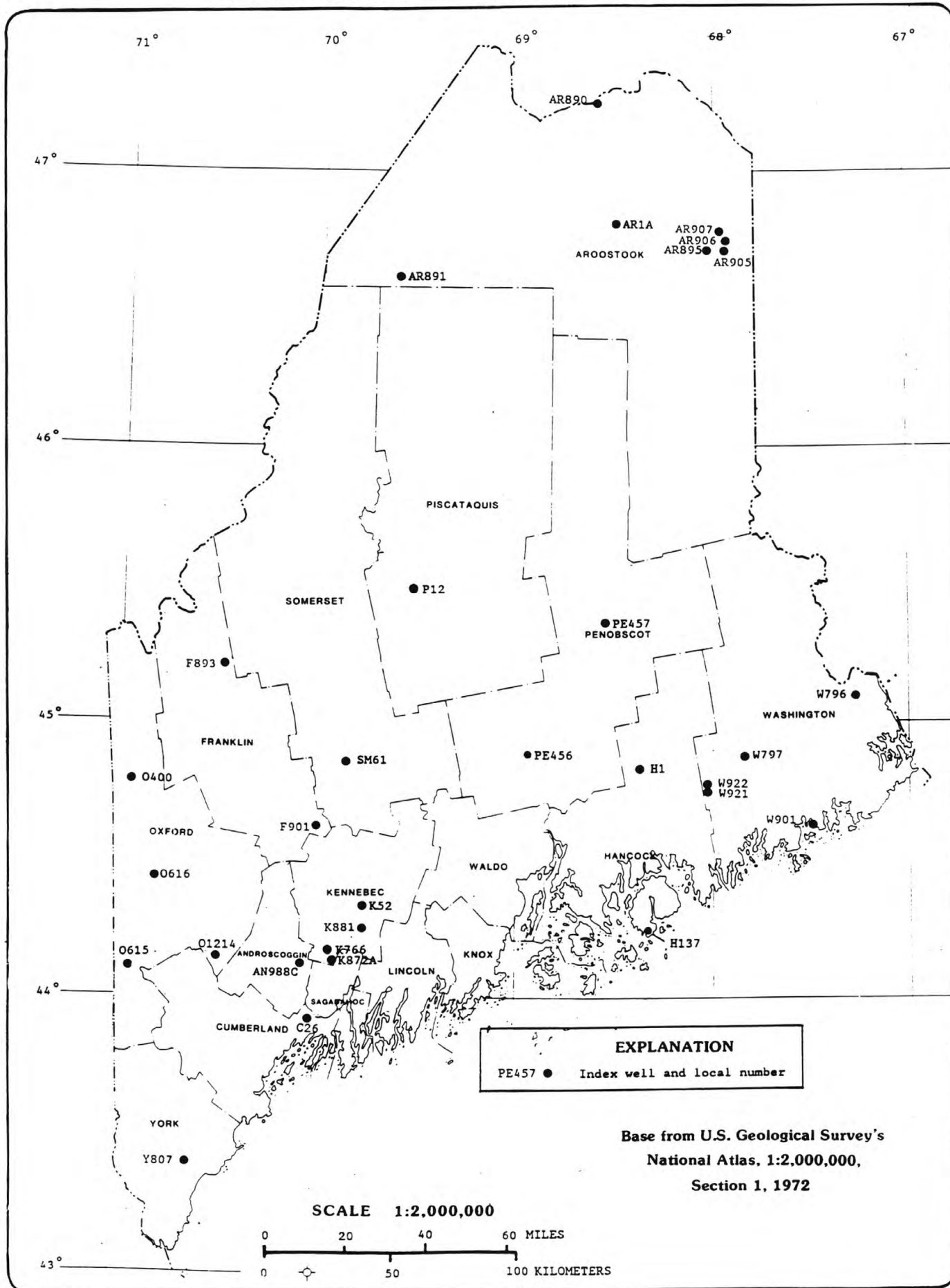


Figure 2.--Location of active ground-water data-collection stations.

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

COOPERATION

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

Maine Department of Conservation, 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
North Kennebec Regional Planning Commission, E. Keene, Planning Director
Greater Portland Council of Governments, J. Walker, Executive Director
Penobscot Valley Council of Governments, D. Meagher, Director
University of Maine, P.D. Uttormark, Assistant Vice President

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 1988 water year was characterized by below-normal flows. Annual runoff was in the below-normal range at 19 of 20 unregulated sites and at 18 of 20 regulated sites. Data from the remaining 10 sites are not of sufficient duration to allow statistically meaningful calculations of streamflow characteristics. Annual peak flows had less than a 2-year recurrence interval at 36 streamflow-gaging stations, between a 2-year and 5-year recurrence interval at three sites, and between a 5 to 10-year recurrence interval at one site. 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 68 to 75 percent of median, and from 5.79 to 8.90 inches below median cumulative runoff. The 1988 monthly and annual discharges, and median monthly and annual discharges for the 1951-80 reference period, are shown in figure 3.

Streamflow at the beginning of the water year (October) was in the normal range throughout the State. Flows in northern Maine remained in the normal range for the next 7 months (through April). Streamflow in the rest of the State was in the normal range during October, December, February and March, and in the below-normal range during November, January, and April. During May and June, flows statewide dropped into the below-normal range, except for southwestern Maine, where they were in the normal range. July flows were in the normal range throughout the State. Flows remained in the normal range in northern Maine during August and September, whereas flows were above normal during August, and normal during September in the rest of the State.

Usable surface-water storage in seven reservoir systems in Maine totaled 95,662 million ft³ at the beginning of the water year; this volume is 53 percent of capacity and 90 percent of the long-term average storage at the beginning of water year. Usable storage decreased during October and November, increased during December, and then began a steady, seasonal decline to the 1988 minimum at the end of March, when storage was 49,182 million ft³ (27 percent of capacity and 73 percent of the long-term average storage at the end of March). Storage increased during April and May, when it reached the 1988 maximum of 140,771 million ft³ (79 percent of capacity and 88 percent of the long-term average storage at the end of May). Storage then decreased until the end of the water year when 107,455 million ft³ were in usable storage (60 percent of capacity and 102 percent of long-term end of water year average storage).

Precipitation, as reported by the National Weather Service, was below median at 12 of 13 sites used to provide statewide precipitation data. Table 1 summarizes annual precipitation data at the 13 selected sites during the 1988 water year.

WATER RESOURCES DATA FOR MAINE, 1988

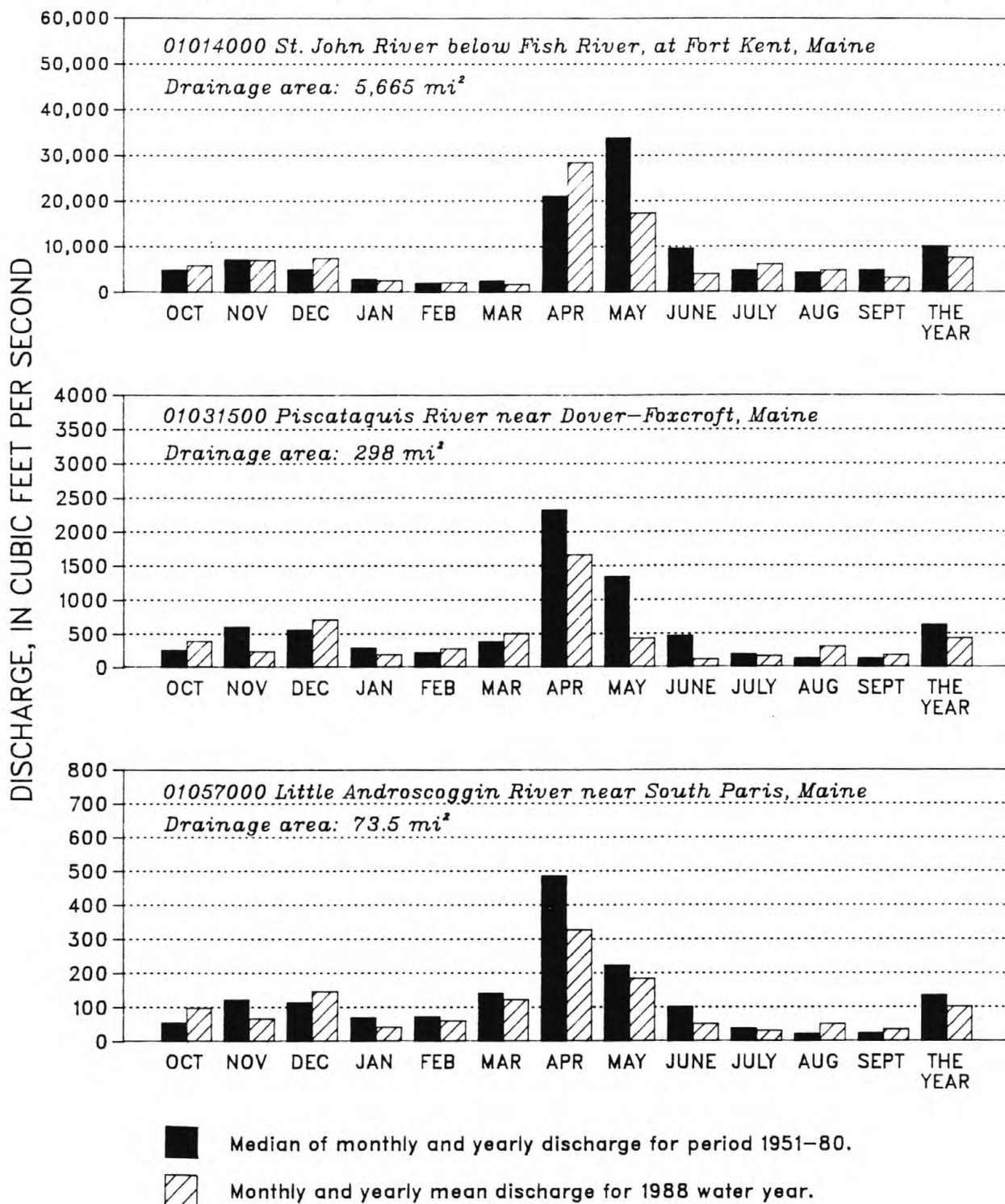


Figure 3.—Comparison of discharge at three long-term index gaging stations during 1988 water year with median discharge for period 1951-80.

Table 1.-- Precipitation at selected locations in Maine
for the 1988 water year

Station Location	Actual Oct-Sep (Inches)	Median Oct-Sep (Inches)	Departure (Inches)	Percentage of median
Fort Kent	31.47	36.12	-4.65	87.1
Caribou	29.69	36.59	-6.90	81.1
Presque Isle	28.64	36.12	-7.48	79.3
Houlton	33.15	37.20	-4.05	89.1
Brassau Dam	35.29	39.29	-4.00	89.8
Jackman	34.35	37.08	-2.73	92.6
Woodland	39.15	46.07	-6.92	85.0
Eastport	44.19	43.82	.37	100.1
Middle Dam	31.72	36.39	-4.67	87.2
Ellsworth	36.56	46.41	-9.85	78.8
Rumford	37.26	43.84	-6.58	85.0
Lewiston	38.07	45.76	-7.69	83.2
Portland	38.47	43.52	-5.05	88.4

Water-quality data on specific conductance, dissolved-oxygen concentrations, pH, and water temperature from the five continuous monitoring stations in Maine were generally within the previous extreme values for the period of daily record for individual stations. Two stations recorded new maximums for the period of daily record. The Kennebec River at North Sidney recorded a new maximum pH of 7.6 units and a new maximum temperature of 28°C. Gulf Island Pond near Lewiston recorded a new maximum specific conductance of 189 microsiemens and a new maximum temperature of 28.5°C. The maximum temperature for period of daily record for two other stations, the Penobscot River at Eddington and the Presumpscot River near West Falmouth were equalled.

During the 1988 water year two new water-quality monitoring stations, the Androscoggin River at North Bridge at Auburn and the Androscoggin River below Dressers Rips near Auburn, were added to the continuous monitoring network.

Ground-water levels in Maine were in the normal range at the beginning of the water year. During the period October through December, water levels were in the normal range. January water levels were in the normal range statewide except for an area in western Maine from Andover to Middle Dam, where they were in the below-normal range. February through April water levels were in the normal range, except for an area in southwestern and western Maine from Oxford and Bethel to Middle Dam, where they were in the below-normal range. May water levels were in the normal range, except for an area in western Maine from Bethel to Middle Dam, where they were in the below-normal range, and in an area extending from Acadia National Park to Calais, where they were in the above-normal range. Water levels for June were in the below-normal range statewide, except for an area around Fryeburg in southwestern Maine, where they were in the normal range. July and August water levels were in the normal range statewide. September water levels were in the normal range, except for an area in southwestern and western Maine from Oxford to Bethel, where they were in the below-normal range.

Eight wells were added to the observation well network during the 1988 water year. The wells are located in the following counties; Kennebec (one), Piscataquis (one), Somerset (one), Franklin (one), Washington (three), and York (one). One new well taps glaciomarine deposits, five tap tills, and two tap sand and gravel deposits.

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 1988 water year that began October 1, 1987, and ended September 30, 1988. 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.)

WATER RESOURCES DATA - MAINE, 1988

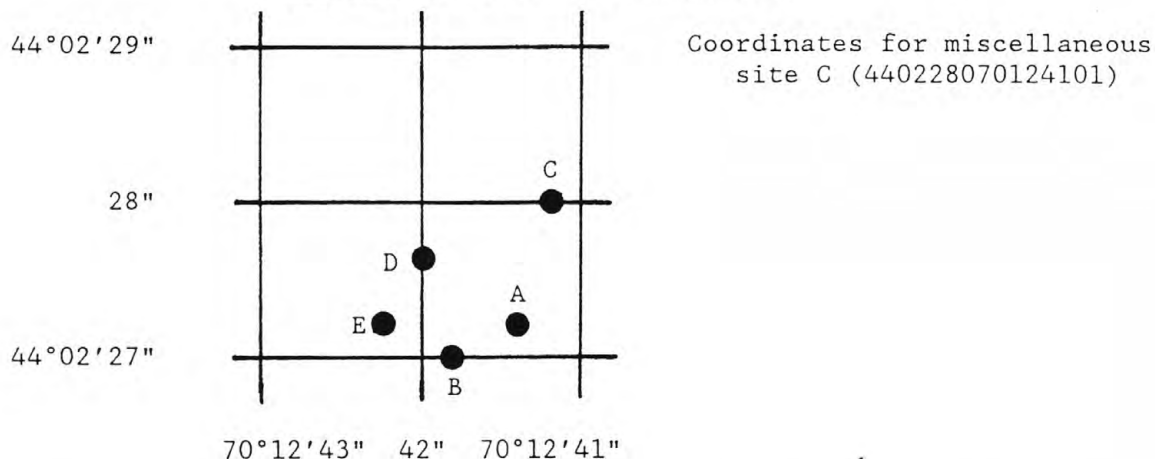


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

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. J. 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-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 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-A16. Measurement of discharge using tracers, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. Acoustic velocity meter systems, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 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 test 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-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. The principle of superposition and its application in ground-water hydraulics, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. 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.
- 6-A1. A modular three-dimensional finite-difference ground-water flow model, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
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- 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.

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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. 25 to Dec. 10, and Dec. 17 to Apr. 6. Records good except for period of ice-effect, Nov. 25 to Dec. 10, and Dec. 17 to Apr. 6, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--38 years, 2,336 ft³/s, 23.65 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, 15,400 ft³/s, Apr. 6, gage height, 7.22 ft; maximum gage height, 9.98 ft, Apr. 3 (backwater from ice); minimum discharge, 173 ft³/s, June 22, gage height, .69 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	685	2250	e3610	e310	e325	e255	e4700	8010	1330	464	390	972
2	781	1930	e7280	e305	e330	e255	e6150	6880	1100	1040	331	776
3	869	1650	e5680	e295	e340	e255	e7880	6060	936	1730	259	634
4	846	1560	e4040	e285	e350	e255	e9520	5760	812	1440	248	536
5	1790	2170	e3050	e280	e360	e255	e12400	5930	708	1020	248	512
6	3150	3020	e2410	e275	e370	e255	e14400	5970	627	757	355	1090
7	2660	2780	e1930	e270	e370	e255	14800	5690	565	578	625	1050
8	2020	2240	e1580	e265	e370	e255	13200	4890	515	461	1670	874
9	1680	1860	e1460	e260	e370	e255	11900	4060	467	409	1830	706
10	1340	1620	e1690	e255	e350	e255	11800	3510	412	542	1430	564
11	1130	1330	2660	e255	e340	e255	11300	3080	372	842	1020	461
12	958	1110	2970	e250	e335	e255	9600	2810	339	1590	742	386
13	831	1050	2620	e245	e330	e250	8440	2640	317	1450	567	342
14	746	1230	2200	e245	e325	e255	7580	2670	315	1190	470	322
15	675	1060	1760	e240	e320	e260	7300	2770	348	890	572	354
16	633	837	1380	e235	e320	e265	6670	2420	318	696	3880	374
17	595	934	e820	e230	e320	e265	5610	2170	283	596	5390	388
18	554	1220	e650	e230	e310	e260	5530	2640	288	502	4680	390
19	529	2350	e590	e255	e300	e260	7610	2790	247	441	3320	416
20	503	2640	e540	e285	e295	e255	7430	2430	210	484	2210	589
21	489	2280	e500	e300	e290	e250	5950	2110	186	551	1620	649
22	527	1540	e470	e315	e280	e240	4920	2030	183	476	1270	637
23	599	1280	e435	e330	e270	e235	4770	2020	204	395	1060	656
24	569	1510	e415	e335	e265	e230	5440	1810	238	351	879	597
25	735	e1480	e390	e340	e265	e325	6980	1560	249	346	794	573
26	2600	e1160	e375	e335	e265	e430	7550	1560	254	298	985	518
27	3120	e875	e360	e335	e265	e670	8050	2810	469	256	1200	458
28	2520	e760	e350	e330	e260	e1000	8240	3260	455	242	1080	422
29	3090	e705	e340	e325	e260	e1520	7960	2590	423	237	1120	475
30	3150	e785	e330	e320	---	e2300	8720	1990	433	287	1280	498
31	2620	---	e315	e320	---	e3300	---	1580	---	354	1190	---
TOTAL	42994	47216	53200	8855	9150	15630	252400	106500	13603	20915	42715	17219
MEAN	1387	1574	1716	286	316	504	8413	3435	453	675	1378	574
MAX	3150	3020	7280	340	370	3300	14800	8010	1330	1730	5390	1090
MIN	489	705	315	230	260	230	4700	1560	183	237	248	322
CFSM	1.03	1.17	1.28	.21	.24	.38	6.27	2.56	.34	.50	1.03	.43
IN.	1.19	1.31	1.48	.25	.25	.43	7.00	2.95	.38	.58	1.18	.48

CAL YR 1987 TOTAL 673464 MEAN 1845 MAX 29400 MIN 60 CFSM 1.38 IN. 18.68
WTR YR 1988 TOTAL 630397 MEAN 1722 MAX 14800 MIN 183 CFSM 1.28 IN. 17.49

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. 22 to Dec. 1, and Dec. 5 to Apr. 9. Records good except for periods of ice effect, Nov. 22 to Dec. 1, and Dec. 5 to Apr. 9, and periods of doubtful gage-height record, Jan. 8 and 14, which are fair.

AVERAGE DISCHARGE.--5 years, 296 ft³/s, 23.51 in/yr.

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. 6	1645	ice jam	*10.05	Apr. 10	2145	*1680	8.16

Minimum discharge 27 ft³/sec, Aug. 3, gage height, 3.29 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	356	e1300	e68	e53	e43	e470	1300	139	111	42	116
2	406	268	1160	e64	e56	e43	e355	1030	117	495	34	81
3	288	216	746	e62	e58	e43	e380	898	106	550	28	76
4	228	259	501	e59	e61	e43	e700	972	93	349	54	92
5	574	625	e370	e57	e64	e42	e1200	1110	82	310	97	162
6	612	713	e310	e55	e66	e42	e2080	1110	76	192	77	327
7	417	497	e265	e54	e64	e41	e1860	991	71	110	101	259
8	269	327	e225	e52	e63	e40	e1450	791	64	80	197	172
9	201	261	e205	e50	e62	e40	e1260	611	59	70	143	112
10	163	202	e235	e49	e60	e41	1600	514	56	89	98	81
11	135	174	e300	e48	e59	e42	1520	460	52	90	76	64
12	111	144	e340	e47	e57	e43	1300	411	50	110	58	55
13	96	147	e280	e46	e56	e42	1260	356	48	146	49	51
14	86	137	e245	e45	e55	e40	1230	437	47	152	46	49
15	81	124	e215	e44	e54	e38	1280	443	44	108	98	49
16	76	113	e190	e43	e53	e37	1170	354	38	94	218	49
17	70	127	e175	e42	e52	e37	893	356	35	93	192	49
18	67	215	e160	e43	e51	e38	978	763	37	89	122	77
19	66	485	e145	e44	e50	e39	1190	738	42	87	78	159
20	63	436	e135	e48	e49	e40	981	516	45	175	59	186
21	69	309	e125	e50	e48	e39	744	389	49	175	49	144
22	92	e200	e115	e52	e48	e37	646	328	52	105	41	115
23	101	e165	e110	e54	e47	e34	706	282	57	80	35	95
24	93	e145	e105	e56	e46	e33	1040	242	71	74	32	84
25	298	e130	e97	e54	e46	e64	1380	200	58	60	40	78
26	708	e120	e93	e53	e45	e100	1290	229	56	53	60	72
27	544	e105	e88	e53	e44	e220	1360	484	102	50	83	66
28	453	e98	e83	e53	e44	e375	1310	443	97	48	109	70
29	852	e91	e79	e52	e43	e475	1300	311	85	50	246	90
30	727	e435	e75	e52	---	e500	1470	222	91	62	327	97
31	498	---	e71	e51	---	e540	---	172	---	53	199	---
TOTAL	8665	7624	8543	1600	1554	3231	34403	17463	2019	4310	3088	3177
MEAN	280	254	276	51.6	53.6	104	1147	563	67.3	139	99.6	106
MAX	852	713	1300	68	66	540	2080	1300	139	550	327	327
MIN	63	91	71	42	43	33	355	172	35	48	28	49
CFSM	1.63	1.49	1.61	.30	.31	.61	6.71	3.29	.39	.81	.58	.62
IN.	1.89	1.66	1.86	.35	.34	.70	7.48	3.80	.44	.94	.67	.69

CAL YR 1987 TOTAL 99240 MEAN 272 MAX 6790 MIN 18 CFSM 1.59 IN. 21.59
WTR YR 1988 TOTAL 95677 MEAN 261 MAX 2080 MIN 28 CFSM 1.53 IN. 20.81

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. 26 to Apr. 6. Records good except for period of ice effect, Dec. 9 to Apr. 6, and period of doubtful gage-height record, Nov. 26 to Dec. 9. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--42 years (water years 1947 to current year), 4,763 ft³/s, 24.13 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. 3	1615	ice jam	*13.69	Apr. 7	1130	*29,400	11.49

Minimum daily discharge, 600 ft³/s, Mar. 23, 24 and 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1480	5510	e6400	e780	e760	e700	e3800	18200	3110	2370	724	2310
2	1800	4680	e15000	e770	e760	e695	e5800	15600	2670	4920	736	1840
3	2070	3960	e13800	e760	e760	e685	e8200	13700	2320	6610	716	1520
4	2060	3680	e10000	e755	e760	e675	e16000	13200	2050	5570	896	1340
5	2560	5800	e8000	e750	e760	e670	e21200	14000	1830	4000	1330	1370
6	4880	8040	e6700	e740	e760	e665	e27400	14700	1640	2890	1230	2290
7	5490	7500	e5400	e730	e760	e660	28400	14600	1470	2250	1180	2870
8	4470	5810	e4500	e725	e760	e655	25600	12900	1320	1810	1970	2470
9	3480	4730	e3500	e720	e760	e650	22700	10500	1210	1480	3300	1930
10	2830	3980	3000	e715	e760	e645	22300	8990	1110	1640	3090	1520
11	2410	3290	3460	e710	e760	e640	22300	8100	1020	2030	2470	1200
12	2070	2710	4440	e705	e760	e630	20000	7270	931	2750	1880	987
13	1810	2370	4600	e700	e760	e620	17600	6490	868	4410	1450	894
14	1610	2390	4010	e700	e760	e615	15900	6180	838	3810	1140	920
15	1450	2470	3190	e700	e760	e615	15300	6420	970	2960	1190	922
16	1320	2040	2520	e700	e755	e615	14700	6000	942	2350	2810	870
17	1230	1810	2060	e700	e750	e615	12800	5440	841	2090	7220	837
18	1160	2160	1460	e705	e740	e615	11600	6300	835	1910	7000	856
19	1090	3210	1160	e710	e730	e615	14100	7510	1070	1670	5560	1230
20	1030	4890	e1070	e715	e720	e615	15200	6710	938	2200	4060	1480
21	1010	4750	e1020	e720	e720	e610	12600	5690	842	2590	2860	1620
22	1060	3650	e980	e730	e720	e605	10200	5030	840	2130	2220	1760
23	1120	2160	e940	e740	e720	e600	9320	4710	848	1650	1810	1590
24	1210	2160	e920	e760	e720	e600	10400	4400	851	1280	1540	1450
25	1640	2550	e900	e770	e720	e600	13600	3840	838	1050	1370	1310
26	5290	2560	e880	e780	e715	e620	15600	3570	855	958	1300	1140
27	7360	e1640	e860	e785	e710	e700	16600	4380	1260	890	1450	1030
28	6160	e1400	e840	e785	e705	e960	18100	6200	1460	850	1870	952
29	6620	e1300	e820	e785	e700	e1200	16900	5790	1840	903	2240	948
30	8150	e1830	e800	e780	---	e1800	18200	4670	2340	805	2890	945
31	6720	---	e790	e770	---	e2700	---	3750	---	739	2850	---
TOTAL	92640	105030	114020	22895	21525	23890	482420	254840	39957	73565	72352	42401
MEAN	2988	3501	3678	739	742	771	16080	8221	1332	2373	2334	1413
MAX	8150	8040	15000	785	760	2700	28400	18200	3110	6610	7220	2870
MIN	1010	1300	790	700	700	600	3800	3570	835	739	716	837
CFSM	1.12	1.31	1.37	.28	.28	.29	6.00	3.07	.50	.89	.87	.53
IN.	1.29	1.46	1.58	.32	.30	.33	6.70	3.54	.55	1.02	1.00	.59

CAL YR 1987 TOTAL 1411683 MEAN 3868 MAX 77300 MIN 222 CFSM 1.44 IN. 19.59
WTR YR 1988 TOTAL 1345535 MEAN 3676 MAX 28400 MIN 600 CFSM 1.37 IN. 18.68

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. 27 to Dec. 1, and Dec. 14 to Apr. 7. Records good except for periods of ice effect, Nov. 27 to Dec. 1, and Dec. 14 to Apr. 7, 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.--57 years (water years 1932 to current year), 1,933 ft³/s, 21.36 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, 8,540 ft³/s (estimated), Apr. 6, gage-height, 7.00 ft.; maximum gage height, 17.55 ft., Apr. 6 (backwater from ice); minimum daily discharge, 330 ft³/s, Mar. 23, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	1470	e2510	e740	e510	e420	e4590	6100	1510	1460	672	800
2	620	1340	3840	e730	e520	e415	e5700	5690	1390	3750	608	768
3	583	1240	3390	e710	e540	e410	e6800	5250	1300	3200	569	760
4	572	1280	2820	e690	e560	e405	e7600	4940	1200	2420	1050	721
5	832	1960	2420	e685	e555	e400	e8280	4880	1110	1870	1440	800
6	1020	2350	2230	e680	e545	e395	e8460	4720	1050	1490	1080	922
7	946	2110	1960	e675	e530	e390	e7750	4470	963	1260	1680	840
8	1050	1840	1690	e670	e520	e385	7250	4080	905	1100	1950	740
9	1280	1650	1670	e665	e510	e385	6500	3740	860	1000	1530	660
10	1200	1500	1600	e660	e510	e380	6300	3500	819	1040	1300	620
11	1080	1320	1580	e655	e510	e375	6130	3330	773	1270	1120	566
12	954	1180	1600	e650	e510	e370	5750	3340	725	1520	963	533
13	859	1130	1550	e640	e510	e365	5410	3300	685	2020	847	542
14	783	1090	e1380	e630	e510	e360	5120	3110	651	1680	795	577
15	731	1040	e1140	e620	e505	e355	4980	2790	642	1400	996	574
16	684	908	e1080	e610	e500	e355	4740	2540	632	1220	2220	551
17	640	937	e1040	e600	e495	e350	4400	2390	607	1230	2530	526
18	618	1010	e1010	e590	e490	e345	4530	2550	593	1140	2150	569
19	597	1310	e990	e580	e485	e345	5480	2520	577	994	1690	745
20	562	1280	e960	e575	e480	e340	5220	2360	557	1540	1400	753
21	559	1220	e950	e565	e475	e335	4730	2210	609	1370	1180	731
22	583	1040	e930	e555	e470	e335	4370	2050	596	1080	1020	739
23	581	917	e910	e545	e465	e330	4370	1920	595	920	903	695
24	562	958	e890	e540	e460	e330	4650	1790	614	810	821	668
25	782	920	e870	e535	e450	e370	5010	1630	589	761	801	637
26	1920	864	e850	e530	e440	e580	5240	1760	642	724	863	602
27	1840	e630	e840	e525	e435	e840	5620	2340	742	714	897	550
28	1710	e570	e820	e520	e430	e1360	5710	2320	676	791	901	554
29	1790	e595	e800	e515	e425	e1900	5710	2060	852	1050	956	564
30	1760	e900	e780	e510	---	e2800	6330	1810	1110	895	913	558
31	1620	---	e760	e510	---	e3500	---	1690	---	765	854	---
TOTAL	29927	36559	45860	18905	14345	20225	172730	97180	24574	42534	36699	19865
MEAN	965	1219	1479	610	495	652	5758	3135	819	1372	1184	662
MAX	1920	2350	3840	740	560	3500	8460	6100	1510	3750	2530	922
MIN	559	570	760	510	425	330	4370	1630	557	714	569	526
CFSM	.79	.99	1.20	.50	.40	.53	4.68	2.55	.67	1.12	.96	.54
IN.	.91	1.11	1.39	.57	.43	.61	5.23	2.94	.74	1.29	1.11	.60

CAL YR 1987 TOTAL 544031 MEAN 1490 MAX 20400 MIN 223 CFSM 1.21 IN. 16.47
WTR YR 1988 TOTAL 559403 MEAN 1528 MAX 8460 MIN 330 CFSM 1.24 IN. 16.93

e Estimated

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

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

DRAINAGE AREA.--524 mi².

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

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

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

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

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

AVERAGE DISCHARGE.--37 years, 891 ft³/s, 23.09 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,920 ft³/s, May 2, gage height, 7.57 ft; minimum daily, 141 ft³/s, Mar. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	509	1220	614	352	219	188	396	3810	890	1380	306	283
2	492	1180	833	341	222	182	516	3880	833	1680	293	280
3	490	1110	1140	335	219	180	653	3740	773	1930	284	281
4	494	1060	1310	328	218	179	886	3570	724	2080	283	266
5	513	1110	1280	325	221	173	1350	3530	685	2000	279	279
6	565	1190	1190	315	222	170	2010	3640	650	1790	279	284
7	660	1260	1090	309	225	168	2680	3810	607	1580	288	278
8	750	1270	980	298	229	171	3080	3810	576	1390	302	270
9	772	1220	901	297	225	167	3210	3640	537	1270	311	261
10	755	1120	839	296	224	163	3300	3320	512	1180	325	254
11	727	1040	790	293	224	164	3380	3050	484	1090	320	248
12	686	948	753	275	223	162	3410	2780	456	999	317	229
13	638	878	717	272	228	159	3380	2480	438	943	309	230
14	595	817	678	269	228	159	3300	2260	441	890	298	222
15	573	757	636	271	228	156	3220	2030	452	837	309	222
16	547	705	605	270	226	156	3210	1850	459	784	334	230
17	518	664	584	252	218	153	3170	1710	452	742	335	226
18	491	654	558	235	213	151	3090	1690	448	692	339	238
19	470	650	539	251	209	148	3070	1750	441	653	332	249
20	459	659	510	251	210	148	3020	1790	434	625	326	254
21	447	684	492	250	216	149	2880	1720	434	579	314	271
22	427	679	478	242	207	145	2700	1610	424	551	298	285
23	411	659	460	234	202	142	2480	1490	427	516	285	283
24	409	640	454	230	203	141	2360	1390	410	477	272	290
25	437	625	444	232	201	142	2420	1280	399	448	261	287
26	505	603	438	238	194	147	2560	1200	417	420	254	287
27	626	574	421	236	193	162	2740	1140	480	396	248	277
28	764	543	406	230	192	183	3040	1100	667	381	251	278
29	884	516	401	224	189	204	3350	1070	901	360	265	275
30	1040	523	382	221	---	241	3600	1010	1110	338	280	264
31	1180	---	367	223	---	304	---	964	---	324	288	---
TOTAL	18834	25558	21290	8395	6228	5257	78461	72114	16961	29325	9185	7881
MEAN	608	852	687	271	215	170	2615	2326	565	946	296	263
MAX	1180	1270	1310	352	229	304	3600	3880	1110	2080	339	290
MIN	409	516	367	221	189	141	396	964	399	324	248	222
CFSM	1.16	1.63	1.31	.52	.41	.32	4.99	4.44	1.08	1.81	.57	.50
IN.	1.34	1.81	1.51	.60	.44	.37	5.57	5.12	1.20	2.08	.65	.56

CAL YR 1987 TOTAL 277359 MEAN 760 MAX 9430 MIN 138 CFSM 1.45 IN. 19.69
WTR YR 1988 TOTAL 299489 MEAN 818 MAX 3880 MIN 141 CFSM 1.56 IN. 21.26

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. 26 to Apr. 2. Records good except for period of ice effect, Dec. 26 to Apr. 2, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--64 years (water years 1904-08, 1930-current year), 1,410 ft³/s, (21.93 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, 4,900 ft³/s, Apr. 13, gage height, 6.62 ft; minimum daily discharge, 245 ft³/s, Mar. 22-24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	632	965	1410	e710	e420	e370	e690	4430	1200	623	504	516
2	637	963	1540	e690	e415	e365	e755	4380	1140	885	474	504
3	635	970	1660	e670	e415	e355	922	4310	1070	880	454	537
4	676	1050	1750	e655	e410	e350	1400	4220	1010	893	465	501
5	808	1260	1810	e640	e405	e340	2010	4160	954	890	466	520
6	808	1280	1850	e620	e400	e335	2490	4080	884	881	464	510
7	824	1280	1860	e605	e400	e325	2970	3950	843	871	603	482
8	850	1290	1840	e590	e395	e320	3370	3810	795	864	544	459
9	847	1280	1830	e580	e390	e310	3780	3690	748	841	536	439
10	841	1260	1820	e565	e390	e305	4170	3470	709	818	543	425
11	817	1230	1790	e550	e390	e295	4560	3270	673	803	534	395
12	797	1180	1740	e540	e390	e290	4780	3150	631	796	528	373
13	774	1150	1680	e530	e390	e285	4870	3040	592	823	516	387
14	757	1130	1610	e520	e390	e280	4890	2860	642	831	501	372
15	733	1090	1530	e510	e390	e275	4860	2730	633	812	561	372
16	706	1050	1490	e500	e395	e270	4810	2580	579	810	850	352
17	695	1020	1450	e490	e395	e265	4780	2430	546	798	792	342
18	677	1060	1370	e485	e390	e260	4780	2370	532	774	761	357
19	652	1060	1330	e480	e390	e255	4860	2270	508	773	749	369
20	629	1040	1270	e470	e390	e250	4770	2160	491	808	726	353
21	629	1030	1220	e465	e390	e250	4650	2050	471	808	694	355
22	596	990	1180	e460	e390	e245	4520	1950	462	807	643	336
23	578	958	1130	e455	e390	e245	4420	1820	443	786	607	326
24	563	943	1090	e450	e385	e245	4370	1710	416	767	574	316
25	697	905	1060	e445	e385	e250	4360	1600	408	738	574	304
26	780	879	e985	e440	e380	e270	4310	1600	439	720	607	294
27	780	843	e895	e435	e375	e330	4340	1600	398	697	580	282
28	816	811	e855	e430	e375	e410	4310	1540	387	647	584	283
29	907	786	e815	e425	e370	e500	4290	1460	485	606	588	271
30	938	876	e765	e425	---	e540	4430	1400	470	570	561	272
31	955	---	e735	e420	---	e600	---	1310	---	532	538	---
TOTAL	23034	31629	43360	16250	11390	9985	114517	85400	19559	24152	18121	11604
MEAN	743	1054	1399	524	393	322	3817	2755	652	779	585	387
MAX	955	1290	1860	710	420	600	4890	4430	1200	893	850	537
MIN	563	786	735	420	370	245	690	1310	387	532	454	271
CFSM	.85	1.21	1.60	.60	.45	.37	4.37	3.16	.75	.89	.67	.44
IN.	.98	1.35	1.85	.69	.49	.43	4.88	3.64	.83	1.03	.77	.49

CAL YR 1987 TOTAL 430956 MEAN 1181 MAX 8340 MIN 203 CFSM 1.35 IN. 18.36
WTR YR 1988 TOTAL 409001 MEAN 1117 MAX 4890 MIN 245 CFSM 1.28 IN. 17.43

e Estimated

ST. JOHN RIVER BASIN

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

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, Hydrologic Unit 01010001, on right bank at Fort Kent and 0.2 mi 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. 3-24, and Dec. 16 to Apr. 5. Records good except for period of ice effect Dec. 16 to Apr. 5, and periods of no gage-height record, Nov. 3-24, 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.--62 years, 9,694 ft³/s (23.24 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. 5	1800	(ice jam)	*18.77	Apr. 6	2315	*47,600	15.09

Minimum daily discharge, 1,100 ft³/s, Mar. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	10200	8790	e2950	e2230	e1770	e7000	34000	7650	6480	2610	4450
2	3800	9110	20600	e2880	e2210	e1740	e9800	31200	6860	9890	2480	3910
3	4100	e8300	19600	e2800	e2200	e1710	e13000	28400	6260	13600	2400	3600
4	4360	e7800	16000	e2740	e2210	e1680	e17600	27000	5750	12300	2520	3260
5	4790	e9500	13400	e2670	e2250	e1640	e26800	27200	5300	10200	3620	3330
6	6400	e13200	11800	e2620	e2320	e1600	39800	27800	4930	8340	3720	3830
7	8510	e11900	10400	e2610	e2370	e1570	43700	27500	4540	7000	3800	4580
8	8000	e10000	8320	e2600	e2380	e1530	41900	25800	4210	6100	4760	4630
9	7260	e8500	7840	e2580	e2390	e1500	38600	22700	3930	5370	5710	3880
10	6470	e7700	7950	e2560	e2300	e1450	37700	20300	3700	5050	5910	3350
11	5800	e6700	8360	e2540	e2220	e1410	38300	18700	3480	5350	5170	2920
12	5250	e5600	9420	e2520	e2180	e1370	35900	17600	3270	6130	4370	2580
13	4790	e5300	9220	e2510	e2150	e1330	32900	16300	3090	7920	3740	2490
14	4410	e5100	8150	e2490	e2100	e1300	30700	15300	3220	8220	3250	2410
15	4120	e5300	6590	e2470	e2080	e1270	29400	14700	3220	6990	3260	2480
16	3870	e5100	e5800	e2450	e2040	e1230	28700	13900	3140	6030	5230	2380
17	3670	e4350	e5300	e2440	e2020	e1200	26700	12800	2950	5480	9680	2280
18	3520	e5000	e4900	e2430	e2010	e1170	25100	13300	2810	5220	11000	2330
19	3380	e6800	e4650	e2410	e2000	e1160	27700	14500	2860	4750	9380	2610
20	3240	e10000	e4450	e2400	e1980	e1140	29500	14000	2910	4960	7500	3120
21	3200	e9700	e4250	e2390	e1950	e1130	26800	12600	2790	5980	5900	3250
22	3220	e7200	e4000	e2390	e1930	e1120	23500	11500	2710	5360	4830	3440
23	3220	e5100	e3800	e2380	e1910	e1110	21800	10600	2760	4600	4140	3420
24	3220	e5200	e3600	e2380	e1890	e1110	22300	10000	2660	3980	3680	3180
25	3780	5810	e3500	e2380	e1880	e1100	25100	9210	2650	3550	3450	2980
26	6820	5550	e3450	e2380	e1860	e1240	28000	8870	2800	3310	3370	2790
27	10800	4380	e3350	e2350	e1830	e1450	29500	9570	2960	3110	3360	2600
28	10500	3870	e3250	e2310	e1810	e2000	31800	11200	3470	3010	3780	2490
29	10200	3500	e3180	e2300	e1790	e2650	31200	11400	4270	3140	4170	2420
30	12300	4130	e3100	e2270	---	e3800	33100	9930	5380	3150	4660	2410
31	11700	---	e3000	e2250	---	e5000	---	8700	---	2840	4940	---
TOTAL	178400	209900	230020	77450	60490	50480	853900	536580	116530	187410	146390	93400
MEAN	5755	6997	7420	2498	2086	1628	28460	17310	3884	6045	4722	3113
MAX	12300	13200	20600	2950	2390	5000	43700	34000	7650	13600	11000	4630
MIN	3200	3500	3000	2250	1790	1100	7000	8700	2650	2840	2400	2280
CFSM	1.02	1.24	1.31	.44	.37	.29	5.02	3.06	.69	1.07	.83	.55
IN.	1.17	1.38	1.51	.51	.40	.33	5.61	3.52	.77	1.23	.96	.61

CAL YR 1987 TOTAL 2838803 MEAN 7778 MAX 109000 MIN 976 CFSM 1.37 IN. 18.64
WTR YR 1988 TOTAL 2740950 MEAN 7489 MAX 43700 MIN 1100 CFSM 1.32 IN. 18.00

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 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURE: 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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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)
OCT												
13...	1330	6910	97	7.3	9.0	8.0	12	760	11.4	96	140	38
DEC												
09...	1345	11300	98	7.6	4.0	1.5	1.5	750	14.0	101	870	K 23
FEB												
11...	1130	3200	122	7.3	-6.0	0.0	0.7	770	11.2	76	300	K 36
APR												
11...	1130	55300	63	7.1	5.0	1.0	16	750	12.9	92	180	--
JUN												
07...	1200	6550	98	7.6	15.0	14.0	2.2	740	9.4	94	28	K 5
AUG												
22...	1300	6970	83	7.5	17.0	18.0	1.7	760	8.3	88	76	K 37

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)
OCT												
13...	43	14	2.0	2.6	0.6	37	0	31	32	32	17	2.4
DEC												
09...	46	15	2.0	2.1	0.7	41	0	34	36	33	20	3.0
FEB												
11...	53	17	2.5	3.7	0.9	51	0	42	43	43	15	3.7
APR												
11...	27	8.7	1.2	1.5	0.6	25	0	21	22	21	13	1.9
JUN												
07...	42	14	1.8	2.6	0.7	40	0	33	34	35	14	3.1
AUG												
22...	37	12	1.7	2.5	0.5	32	0	26	28	27	8.7	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 1987 TO SEPTEMBER 1988

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, 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)
OCT 13...	0.1	3.9	72	63	0.10	0.02	0.03	0.2	0.01	0.01	<0.01
DEC 09...	0.1	5.1	75	71	0.28	0.08	0.10	0.3	0.01	0.01	<0.01
FEB 11...	0.1	4.8	77	75	0.27	0.02	0.03	0.4	<0.01	0.02	<0.01
APR 11...	0.1	3.8	47	45	0.23	0.05	0.06	0.4	0.02	0.01	<0.01
JUN 07...	0.1	2.8	67	60	0.10	0.03	0.04	0.8	0.01	0.06	0.04
AUG 22...	0.1	3.7	74	49	<0.10	0.04	0.05	0.5	0.02	0.01	<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)
OCT 13...	50	<1	10	<0.5	<1	<1	<3	1	110	<5	<4	21
DEC 09...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	40	<1	11	<0.5	<1	<1	<3	1	63	<5	<4	26
APR 11...	80	<1	9	<0.5	<1	<1	<3	24	67	<5	<4	16
JUN 07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	80	<1	10	<0.5	1	<1	<3	2	130	<5	<4	30

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- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 13...	<0.1	<10	3	<1	<1.0	86	<6	50	5	93	76
DEC 09...	--	--	--	--	--	--	--	--	29	885	41
FEB 11...	<0.1	<10	5	<1	<1.0	110	<6	8	4	35	75
APR 11...	<0.1	<10	2	<1	1.0	58	<6	10	99	14800	56
JUN 07...	--	--	--	--	--	--	--	--	8	141	83
AUG 22...	<0.1	<10	4	<1	<1.0	81	<6	16	9	169	73

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. 26 to Dec. 2, Dec. 5 to Apr. 5, and June 30 to July 25. Records good except for periods of ice effect, Nov. 26 to Dec. 2 and Dec. 5 to Apr. 5, and period of doubtful gage height record, June 30 to July 25, 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.--31 years, 1,475 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,570 ft³/s, Apr. 6, gage height, 11.57 ft; maximum gage height, 13.28 ft, Apr. 4 (backwater from ice); minimum discharge 118 ft³/s, Sept. 29, 30, gage height, 2.73 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	418	1010	e2230	e470	e435	e365	e3150	5190	732	e195	200	489
2	529	873	e4640	e445	e455	e350	e3750	4730	653	e580	172	412
3	509	768	4730	e430	e470	e340	e4400	4200	596	e965	153	340
4	601	733	3950	e425	e470	e330	e5100	3720	539	e1010	150	287
5	1370	878	e3300	e415	e465	e320	e5840	3330	494	e730	146	264
6	1720	1030	e2800	e412	e465	e315	6820	3040	455	e580	144	272
7	1430	990	e2380	e410	e455	e315	7100	2790	418	e475	149	283
8	1210	766	e2010	e407	e445	e310	6990	2510	377	e360	201	257
9	1150	899	e1720	e403	e440	e300	6420	2240	346	e345	362	230
10	1050	762	e1520	e400	e440	e295	6180	1980	319	e320	411	206
11	882	693	e1380	e399	e420	e280	6130	1800	299	e470	358	180
12	730	600	e1230	e397	e400	e270	6000	2010	283	e730	291	164
13	629	657	e1100	e395	e385	e285	5400	2260	269	e910	237	160
14	560	638	e985	e390	e390	e250	4740	2190	252	e700	205	159
15	510	564	e900	e385	e405	e255	4230	2050	241	e610	220	156
16	472	480	e820	e375	e395	e265	3890	1790	225	e590	542	151
17	440	521	e720	e370	e385	e260	3620	1620	216	e585	1120	142
18	413	583	e775	e370	e380	e270	3860	1600	212	e495	989	141
19	389	668	e820	e380	e375	e285	4410	1590	200	e450	734	143
20	371	755	e770	e405	e375	e290	4680	1480	186	e455	548	147
21	357	731	e720	e430	e385	e295	4220	1290	179	e410	431	154
22	394	563	e680	e465	e400	e290	3750	1090	179	e345	354	158
23	460	945	e665	e450	e410	e285	3560	989	178	e300	302	162
24	470	757	e650	e455	e400	e280	3560	891	169	e265	262	164
25	510	632	e635	e455	e395	e340	3940	805	162	e235	245	152
26	964	e570	e630	e435	e390	e660	4280	1020	159	209	330	149
27	1290	e545	e620	e425	e385	e1000	4160	1450	164	193	582	135
28	1170	e520	e615	e420	e375	e1400	3900	1430	169	181	613	130
29	1190	e500	e610	e420	e370	e1750	3890	1190	169	191	515	124
30	1280	e570	e590	e425	---	e2170	4990	970	e180	228	470	120
31	1180	---	e530	e425	---	e2730	---	821	---	224	511	---
TOTAL	24648	21201	45725	12888	11960	17150	142960	64066	9020	14336	11947	6031
MEAN	795	707	1475	416	412	553	4765	2067	301	462	385	201
MAX	1720	1030	4730	470	470	2730	7100	5190	732	1010	1120	489
MIN	357	480	530	370	370	250	3150	805	159	181	144	120

CAL YR 1987 TOTAL 403775 MEAN 1106 MAX 18600 MIN 63
WTR YR 1988 TOTAL 381932 MEAN 1044 MAX 7100 MIN 120

e Estimated

ST. JOHN RIVER BASIN

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: Oct. 1 to Nov. 3, Nov. 27 to Dec. 2, and Dec. 6 to Apr. 5. Records, including period of no gage-height record, Oct. 1 to Nov. 3, good except for periods of ice effect, Nov. 27 to Dec. 2, and Dec. 6 to Apr. 5, which are fair. 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.--58 years, 2,646 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, 18,200 ft³/s, Apr. 5, gage-height, 8.86 ft; maximum gage height, 11.93 ft, Apr. 4 (backwater from ice); minimum daily discharge, 286 ft³/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e875	e2020	e2570	e900	e995	e860	e6200	9830	1490	473	405	927
2	e1130	e1770	e7550	e800	e1040	e840	e7500	9100	1360	1280	395	829
3	e1210	e1650	9250	e810	e1100	e835	e9200	8120	1250	2000	328	709
4	e1100	1480	7770	e1050	e1070	e835	e11400	7070	1160	2020	477	618
5	e1690	1700	6280	e1100	e1060	e740	e13600	6280	1070	1680	867	575
6	e2700	2000	e4700	e970	e1070	e580	15000	5670	1000	1370	816	654
7	e2590	2070	e4000	e920	e820	e585	13900	5130	897	1080	973	684
8	e2300	1850	e3380	e1000	e820	e630	13500	4650	804	881	1610	655
9	e2180	1720	e3050	e960	e1030	e665	12400	4160	736	739	1620	576
10	e2040	1690	e2750	e970	e1020	e700	11900	3710	676	675	1490	508
11	e1780	1510	e2480	e980	e980	e520	11700	3380	636	1050	1280	448
12	e1550	1370	e2300	e980	e895	e490	11500	3600	596	1720	1020	404
13	e1360	1130	e1950	e980	e835	e535	10300	4170	567	1900	822	387
14	e1210	1390	e1700	e960	e870	e475	9110	3860	544	1540	687	376
15	e800	1290	e1520	e1020	e950	e460	8090	3600	515	1260	718	373
16	e1020	1080	e1420	e950	e820	e490	7370	3210	484	1190	1390	365
17	e955	1130	e1300	e930	e820	e475	6820	2900	454	1180	2180	361
18	e905	1280	e1500	e920	e835	e500	7160	2790	440	1060	2180	364
19	e837	1420	e1470	e960	e810	e520	8330	2790	420	907	1760	388
20	e800	1520	e1430	e1020	e790	e540	9000	2710	397	914	1400	395
21	e685	1600	e1500	e1100	e830	e542	8210	2500	379	950	1100	406
22	e763	1390	e1730	e1080	e890	e540	7080	2220	373	861	904	396
23	e800	1040	e1680	e1070	e920	e536	6590	2020	363	713	769	381
24	e856	1180	e1630	e1120	e875	e519	6540	1840	345	600	676	376
25	e856	1290	e1580	e1080	e860	e650	7030	1680	331	520	624	367
26	e1340	1220	e1350	e1030	e850	e1400	7680	1760	333	485	691	345
27	e1700	e915	e1170	e990	e925	e2300	7670	2280	335	439	866	326
28	e1960	e790	e1180	e980	e960	e2950	7260	2450	348	398	1070	311
29	e2130	e750	e1220	e970	e1030	e3350	7020	2210	354	408	1040	293
30	e2240	e750	e1180	e970	---	e4000	9100	1930	359	406	955	286
31	e2230	---	e1200	e980	---	e5230	---	1660	---	405	939	---
TOTAL	44592	41995	83790	30550	26770	34292	278160	119280	19016	31104	32052	14083
MEAN	1438	1400	2703	985	923	1106	9272	3848	634	1003	1034	469
MAX	2700	2070	9250	1120	1100	5230	15000	9830	1490	2020	2180	927
MIN	685	750	1170	800	790	460	6200	1660	331	398	328	286

CAL YR 1987 TOTAL 737861 MEAN 2022 MAX 33500 MIN 125
WTR YR 1988 TOTAL 755684 MEAN 2065 MAX 15000 MIN 286

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. Records excellent. 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.--60 years, 718 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, 1,400 ft³/s, Jan. 15, gage height, 6.45 ft; minimum daily, 205 ft³/s, May 8-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	691	231	1010	974	849	211	227	337	597	525	541
2	436	690	219	1000	969	849	214	227	487	597	268	541
3	721	686	224	1000	969	849	219	227	710	597	227	538
4	630	683	225	997	961	843	222	225	776	548	225	537
5	285	681	225	995	965	840	223	215	773	295	379	537
6	231	684	225	987	956	836	227	207	508	247	800	539
7	229	681	225	981	947	831	228	207	336	235	871	536
8	229	676	227	977	942	828	230	205	334	231	611	537
9	609	673	229	975	937	829	234	205	334	233	276	627
10	746	673	229	970	932	824	236	205	606	234	236	683
11	744	615	229	965	932	823	236	205	756	234	541	684
12	716	640	230	961	919	821	220	205	753	234	729	678
13	296	656	231	959	924	815	213	205	513	231	725	676
14	250	643	231	950	921	912	216	206	356	231	721	674
15	451	583	231	1150	915	1010	216	207	329	231	719	672
16	721	633	231	1380	909	1000	216	208	281	230	718	668
17	718	638	232	1370	905	993	216	209	426	229	716	664
18	716	638	327	1360	897	985	216	208	589	229	716	665
19	711	638	394	1140	895	972	220	288	588	229	711	665
20	709	633	388	1010	652	961	220	507	384	229	710	660
21	707	635	316	1010	696	953	220	601	253	229	705	660
22	707	635	225	1010	881	942	220	601	253	339	704	663
23	704	631	220	1000	876	928	220	601	253	763	700	660
24	698	626	220	996	872	919	220	429	379	756	698	661
25	701	626	220	991	872	904	225	334	577	478	694	657
26	699	625	220	857	868	784	225	335	573	229	694	655
27	695	624	220	910	863	343	225	441	381	235	695	651
28	693	626	495	998	863	263	225	593	255	233	695	649
29	695	624	750	990	856	242	227	593	255	482	633	641
30	695	414	747	985	---	227	227	589	301	857	537	638
31	695	---	900	980	---	221	---	423	---	833	539	---
TOTAL	18075	19201	9516	31864	26068	24396	6667	10138	13656	11555	18718	18857
MEAN	583	640	307	1028	899	787	222	327	455	373	604	629
MAX	746	691	900	1380	974	1010	236	601	776	857	871	684
MIN	229	414	219	857	652	221	211	205	253	229	225	536

CAL YR 1987 TOTAL 151293 MEAN 415 MAX 965 MIN 213
WTR YR 1988 TOTAL 208711 MEAN 570 MAX 1380 MIN 205

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. 20-23. Records excellent including period of ice effect, Dec. 20-23. 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.--60 years, 392 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, 579 ft³/s, Sept. 25, gage height, 3.08 ft; maximum gage height, 3.12 ft³/s, Dec. 21 (backwater from ice); minimum daily discharge, 133 ft³/s, Mar. 30, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	182	175	326	344	450	134	147	216	235	244	326
2	381	181	189	327	346	448	134	147	216	235	248	279
3	379	181	193	326	344	445	135	147	232	235	246	216
4	381	181	189	326	346	441	137	145	241	235	245	215
5	379	181	186	326	348	439	137	144	241	236	245	216
6	378	181	186	326	346	435	137	144	241	235	245	216
7	377	181	186	326	345	432	137	144	238	235	245	215
8	381	178	186	326	344	429	139	144	239	235	244	213
9	378	178	186	326	344	425	139	144	238	235	253	281
10	378	178	186	325	343	427	139	144	238	235	259	319
11	377	178	186	324	341	423	139	144	238	235	308	318
12	339	178	186	323	342	420	139	191	238	235	333	315
13	279	178	188	323	346	418	139	215	238	237	334	313
14	214	178	189	335	344	417	139	216	238	238	333	312
15	183	176	189	356	388	414	139	214	238	239	335	311
16	183	178	189	355	469	412	141	213	238	241	334	308
17	183	175	187	354	468	410	143	215	238	240	334	305
18	183	175	189	352	464	406	142	216	238	238	333	305
19	183	175	189	354	462	402	143	216	238	241	330	333
20	183	175	e190	351	386	401	141	216	238	240	329	403
21	183	175	e190	352	388	398	139	216	238	241	327	508
22	183	178	e190	351	468	394	139	216	238	241	326	564
23	181	178	e190	349	466	391	139	216	238	241	326	559
24	181	175	189	348	466	358	140	216	237	241	323	558
25	181	175	189	347	464	282	143	217	235	241	325	511
26	181	175	189	351	462	284	143	217	235	241	326	491
27	181	175	189	351	459	225	144	216	235	241	325	432
28	181	175	189	348	457	146	144	216	235	241	323	408
29	183	175	189	348	454	135	148	216	235	241	323	404
30	183	175	215	348	---	133	147	216	235	243	329	401
31	182	---	289	346	---	133	---	216	---	245	326	---
TOTAL	8104	5324	5952	10526	11544	11373	4199	5884	7081	7392	9356	10555
MEAN	261	177	192	340	398	367	140	190	236	238	302	352
MAX	385	182	289	356	469	450	148	217	241	245	335	564
MIN	181	175	175	323	341	133	134	144	216	235	244	213

CAL YR 1987 TOTAL 84873 MEAN 233 MAX 525 MIN 103
WTR YR 1988 TOTAL 97290 MEAN 266 MAX 564 MIN 133

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: Oct. 1-14, Dec. 14 to Jan. 18, Jan. 21 to Feb. 15, and Feb. 22, 23. Records good except for periods of ice effect, Dec. 14 to Jan. 18 and Jan. 21 to Feb. 15, and period of once-a-day telemark readings, Oct. 1-14, and Feb. 22, 23, which are fair. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity about 25,000,000 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.--29 years (water years 1960-current year), 2,657 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,700 ft³/s, Mar. 29, gage height, 9.29 ft; minimum daily, 835 ft³/s, July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1670	1230	3560	e1760	e1670	2610	5770	3850	1540	916	933	2650
2	e1700	1350	5340	e1670	e1620	2740	5880	3700	1310	942	928	3070
3	e1660	1440	6320	e1650	e1670	2800	5810	3150	1550	891	910	3040
4	e1650	1680	5690	e1640	e1660	2730	5310	3150	1510	875	977	2770
5	e1670	1580	4170	e1580	e1630	2690	5370	2730	1090	865	960	1830
6	e1720	1390	3600	e1570	e1600	2660	5300	2750	861	865	1210	1310
7	e1770	1300	3200	e1540	e1570	2660	5030	2510	897	860	1100	1220
8	e1770	942	2710	e1500	e1540	2510	4430	2440	1120	854	1700	1610
9	e1970	1310	2720	e1450	e1510	2610	3460	2370	1030	854	1170	1540
10	e2090	1490	2850	e1480	e1490	2770	3370	2310	866	855	965	1610
11	e1870	1670	2700	e1490	e1450	2750	3320	2100	858	867	1200	2110
12	e1980	1710	3090	e1540	e1400	2680	3280	2380	847	841	1340	2620
13	e2030	1610	2190	e1770	e1670	2070	3250	2390	850	851	1030	2900
14	e1540	1430	e2040	e1580	e1670	2260	2910	1550	844	1060	1040	2490
15	1150	1210	e1750	e1450	e1920	2550	3020	1660	940	1150	1460	2110
16	1390	1390	e1750	e1360	2400	2460	2340	1780	864	855	1840	2040
17	1980	1550	e1790	e1310	2410	2570	1940	1660	869	835	1860	1390
18	1820	1540	e1730	e1450	2540	2530	2730	1760	836	884	1700	1410
19	1760	1530	e1690	e1630	2370	2390	2810	2230	848	974	1640	1430
20	1950	1670	e1670	e1600	2760	2390	2720	2030	1050	865	1630	1900
21	1650	1240	e1670	e1720	2600	2510	2680	1640	866	873	1500	1930
22	1860	1170	e1740	e1670	e2380	2380	2630	1810	856	902	1310	2040
23	1680	1380	e1730	e1610	e2400	2370	2670	1760	854	863	953	1800
24	1640	1370	e1910	e1630	2510	2390	2370	1550	854	914	996	1810
25	1540	1740	e1770	e1600	2680	2460	3080	1470	867	939	989	1440
26	1570	1220	e1710	e1600	2890	2650	3270	2010	845	947	1340	1420
27	1640	1190	e1700	e1590	2730	4350	3010	1750	840	953	1150	1420
28	1750	1200	e1720	e1580	2810	6440	3030	1620	839	908	1110	1740
29	1830	1030	e1740	e1570	2870	8290	3270	1550	848	888	951	1460
30	1480	1450	e1760	e1590	---	7340	3370	1650	837	868	2190	1960
31	1400	---	e1900	e1550	---	6400	---	1750	---	937	2440	---
TOTAL	53180	42012	79910	48730	60420	99010	107430	67060	29086	27951	40522	58070
MEAN	1715	1400	2578	1572	2083	3194	3581	2163	970	902	1307	1936
MAX	2090	1740	6320	1770	2890	8290	5880	3850	1550	1150	2440	3070
MIN	1150	942	1670	1310	1400	2070	1940	1470	836	835	910	1220

CAL YR 1987 TOTAL 648817 MEAN 1778 MAX 11900 MIN 775

WTR YR 1988 TOTAL 713381 MEAN 1949 MAX 8290 MIN 835

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 TEMPERATURE: 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 TEMPERATURE: 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, 172 microsiemens, June 27; minimum, 44 microsiemens, Apr. 2-4, 6.

pH: Maximum, 7.6 units, Oct. 1; minimum, 6.2 units Dec. 5.

WATER TEMPERATURE: Maximum, 27.5°C, Aug. 5-7, 12-14; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.1 mg/L, Dec. 7; minimum 5.6 mg/L, July 19, Aug. 4, 6, 7.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	
OCT													
14...	1500	1310	88	6.5	12.0	11.0	2.2	770	10.4	93	51	K 14	
FEB													
03...	0730	2090	92	6.8	-10.0	0.0	2.3	770	12.1	82	38	54	
APR													
12...	0800	3230	54	7.0	4.0	3.0	7.0	760	12.4	92	>600	K 1	
AUG													
22...	1900	959	95	7.1	12.0	20.0	1.5	760	7.6	84	K 19	100	
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)
OCT													
14...	18	5.6	0.96	9.9	1.0	15	0	12	13	14	17	10	
FEB													
03...	17	5.4	0.86	12	1.0	17	0	14	14	16	12	12	
APR													
12...	11	3.3	0.64	5.7	0.6	9	0	8	9	8	14	7.2	
AUG													
22...	18	5.7	0.85	11	0.8	16	0	13	14	13	16	11	

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 1987 TO SEPTEMBER 1988

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)	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)
OCT 14...	0.1	3.0	67	56	0.10	0.04	0.05	0.6	0.02	0.01	<0.01
FEB 03...	0.1	3.6	72	56	<0.10	0.06	0.08	0.8	0.02	0.02	<0.01
APR 12...	0.1	2.9	43	40	<0.10	0.04	0.05	0.3	0.03	0.01	<0.01
AUG 22...	0.1	2.1	68	57	0.10	0.04	0.05	0.5	0.03	0.03	0.01

DATE	ALUM- INIUM, 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)
OCT 14...	110	<1	13	<0.5	<1	<1	<3	1	190	<5	<4	59
FEB 03...	90	<1	13	<0.5	1	<1	<3	1	170	<5	<4	63
APR 12...	110	<1	9	<0.5	<1	<1	<3	5	91	5	<4	30
AUG 22...	70	1	13	<0.5	<1	<1	<3	2	180	<5	<4	63

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
OCT 14...	<0.1	<10	3	3	<1.0	27	<6	8	23	81	37
FEB 03...	<0.1	<10	2	<1	<1.0	24	<6	4	6	34	62
APR 12...	<0.1	<10	2	<1	1.0	16	<6	13	14	122	78
AUG 22...	<0.1	<10	2	<1	<1.0	27	<6	14	8	21	48

ST. CROIX RIVER BASIN

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	107	76	86	114	107	110	120	66	90	93	89	92
2	92	75	85	132	115	124	67	55	62	93	91	92
3	96	92	93	130	110	116	55	52	54	96	91	94
4	97	94	96	120	115	117	52	51	52	96	91	94
5	101	97	99	114	99	104	56	52	53	101	96	99
6	98	95	97	112	105	109	59	56	58	101	94	99
7	97	89	93	115	111	114	66	60	63	93	90	92
8	99	92	95	120	113	116	77	62	67	92	87	90
9	99	90	96	154	119	138	74	67	70	96	86	92
10	89	80	83	144	104	115	76	69	73	98	94	97
11	82	79	80	113	103	109	77	70	73	98	93	96
12	82	78	80	108	94	100	76	72	73	98	93	96
13	80	76	78	137	100	106	80	71	74	99	91	96
14	91	80	86	114	105	110	89	81	84	89	82	85
15	116	91	104	117	109	113	91	83	86	86	77	82
16	136	106	117	133	113	124	94	83	88	95	79	87
17	122	94	104	129	101	111	93	88	91	95	91	93
18	93	88	90	110	99	103	91	84	87	100	94	97
19	101	92	98	112	99	105	93	89	90	101	87	93
20	100	94	97	112	100	104	95	89	91	---	---	---
21	117	92	99	115	95	100	94	87	90	---	---	---
22	116	98	104	127	108	116	94	86	90	---	---	---
23	105	98	101	122	108	116	91	87	88	---	---	---
24	106	104	105	121	98	106	94	91	93	---	---	---
25	108	105	106	120	99	109	91	87	89	---	---	---
26	112	106	110	109	82	90	92	87	88	---	---	---
27	110	104	108	114	104	109	100	92	96	---	---	---
28	106	99	104	119	108	114	93	89	91	---	---	---
29	104	99	101	119	108	116	99	89	93	---	---	---
30	112	100	104	164	118	131	98	90	94	---	---	---
31	113	100	106	---	---	---	95	89	91	---	---	---
MONTH	136	75	97	164	82	112	120	51	80	101	77	93

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	73	71	71	---	---	---	60	53	58
2	---	---	---	76	68	72	44	44	44	59	52	53
3	95	88	92	69	66	68	45	44	44	60	59	60
4	95	89	92	69	67	68	47	44	45	61	60	60
5	92	87	89	69	66	68	48	45	46	69	60	62
6	92	85	90	71	67	70	47	44	46	68	64	66
7	92	86	89	71	67	69	50	47	48	70	65	67
8	89	87	88	73	64	68	53	49	50	70	67	68
9	91	85	89	64	63	64	60	53	57	74	70	72
10	89	86	88	66	62	64	62	60	61	74	70	72
11	95	87	91	71	66	68	63	57	62	78	69	71
12	90	84	86	80	66	74	57	54	55	81	70	75
13	99	85	93	82	67	74	58	55	56	71	65	69
14	99	89	96	87	75	80	61	56	57	83	65	71
15	99	90	93	82	70	74	64	57	61	95	86	91
16	91	87	88	---	---	---	61	57	58	90	83	86
17	91	86	88	---	---	---	72	61	68	87	81	84
18	89	82	87	---	---	---	73	60	69	93	85	90
19	89	80	85	---	---	---	67	56	60	87	74	83
20	88	83	85	---	---	---	67	57	60	72	65	68
21	82	78	80	---	---	---	66	56	60	95	72	84
22	85	80	82	---	---	---	67	56	60	93	84	87
23	81	76	79	---	---	---	70	57	62	87	83	85
24	78	76	77	---	---	---	70	58	63	93	85	89
25	81	77	78	---	---	---	69	63	66	---	---	---
26	78	69	72	---	---	---	63	59	61	---	---	---
27	76	70	73	---	---	---	66	59	61	---	---	---
28	76	70	74	---	---	---	66	60	63	---	---	---
29	76	70	73	---	---	---	63	59	61	---	---	---
30	---	---	---	---	---	---	62	59	60	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	99	69	85	87	62	70	73	44	57	95	52	74

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	162	153	159	153	148	150	82	79	80
2	---	---	---	156	142	150	155	149	152	78	72	73
3	---	---	---	147	142	144	152	146	149	75	72	73
4	105	97	102	152	147	149	156	148	152	74	72	74
5	110	103	105	153	147	151	154	149	152	88	70	78
6	133	110	122	155	149	152	158	131	147	84	74	80
7	141	131	137	155	148	152	141	130	134	73	58	65
8	147	119	137	159	152	156	141	107	124	58	46	52
9	132	117	126	161	154	157	116	105	109	52	46	49
10	138	125	129	160	154	157	133	117	128	59	51	55
11	151	138	145	166	156	162	132	123	128	74	60	67
12	155	146	151	---	---	---	123	115	119	70	65	68
13	157	150	153	---	---	---	121	108	113	71	68	70
14	157	150	154	---	---	---	125	123	130	79	70	73
15	156	149	154	---	---	---	136	131	133	84	80	83
16	148	142	145	148	110	134	128	97	106	86	83	85
17	157	146	151	160	148	155	97	90	95	105	83	86
18	159	151	153	164	157	162	96	88	91	107	99	102
19	161	152	157	154	146	150	101	95	97	115	99	106
20	161	153	158	148	129	136	100	95	97	108	91	99
21	154	127	135	146	132	141	100	94	96	89	78	83
22	160	143	154	139	135	137	108	97	102	87	84	86
23	163	154	159	148	136	142	130	97	114	87	81	83
24	169	154	162	151	142	148	138	131	135	89	84	87
25	170	164	167	154	143	149	138	124	130	87	84	85
26	169	162	166	155	151	154	137	123	132	115	87	100
27	172	162	168	155	150	152	123	102	111	118	92	98
28	171	167	169	157	147	152	117	113	116	117	86	96
29	167	159	164	161	149	155	126	118	122	99	84	90
30	164	160	161	165	150	158	134	89	124	110	86	95
31	---	---	---	162	152	158	87	78	81	---	---	---
MONTH	172	97	148	166	110	151	158	78	122	118	46	81
YEAR	MAXIMUM 172 MINIMUM 44 MEAN 99											

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.6	6.8	7.1	6.7	6.7	6.7	6.8	6.4	6.6	6.5	6.3	6.4
2	6.8	6.8	6.8	6.8	6.7	6.8	6.5	6.4	6.4	6.5	6.5	6.5
3	6.9	6.8	6.8	6.8	6.7	6.7	6.5	6.4	6.4	6.5	6.5	6.5
4	6.8	6.8	6.8	6.7	6.7	6.7	6.4	6.3	6.4	6.5	6.5	6.5
5	7.0	6.8	6.9	6.7	6.6	6.7	6.3	6.2	6.3	6.6	6.5	6.5
6	7.0	6.8	6.9	6.7	6.7	6.7	6.4	6.3	6.4	6.6	6.5	6.6
7	6.8	6.7	6.7	6.8	6.7	6.8	6.5	6.4	6.4	6.6	6.4	6.5
8	6.8	6.6	6.7	6.8	6.7	6.8	6.5	6.4	6.4	6.7	6.4	6.5
9	6.7	6.6	6.7	6.8	6.7	6.8	6.5	6.4	6.5	6.5	6.4	6.5
10	6.7	6.5	6.5	6.8	6.7	6.7	6.5	6.5	6.5	6.5	6.5	6.5
11	6.6	6.5	6.6	6.9	6.7	6.8	6.5	6.4	6.5	6.6	6.4	6.5
12	6.5	6.5	6.6	6.9	6.9	6.9	6.5	6.5	6.5	6.7	6.4	6.5
13	6.5	6.4	6.5	6.9	6.8	6.9	6.5	6.5	6.5	6.6	6.5	6.6
14	6.6	6.4	6.4	6.9	6.8	6.9	6.5	6.5	6.5	6.7	6.5	6.5
15	6.7	6.6	6.6	6.9	6.8	6.9	6.6	6.5	6.5	6.6	6.3	6.4
16	6.8	6.7	6.7	6.9	6.8	6.9	6.6	6.5	6.6	6.6	6.3	6.4
17	6.7	6.7	6.7	6.9	6.8	6.8	6.6	6.5	6.6	6.5	6.5	6.5
18	6.7	6.6	6.6	6.9	6.8	6.8	6.5	6.5	6.6	6.6	6.5	6.6
19	6.7	6.6	6.6	6.9	6.8	6.8	6.5	6.5	6.5	6.6	6.5	6.6
20	6.7	6.6	6.6	6.8	6.8	6.8	6.5	6.4	6.5	---	---	---
21	6.7	6.6	6.6	6.8	6.7	6.7	6.5	6.5	6.5	---	---	---
22	6.7	6.6	6.7	6.8	6.7	6.8	6.5	6.5	6.5	---	---	---
23	6.7	6.6	6.7	6.8	6.8	6.8	6.6	6.5	6.5	---	---	---
24	6.7	6.7	6.7	6.8	6.7	6.8	6.6	6.5	6.5	---	---	---
25	6.7	6.7	6.7	6.9	6.8	6.8	6.5	6.5	6.5	---	---	---
26	6.7	6.7	6.7	6.9	6.7	6.7	6.6	6.5	6.5	---	---	---
27	6.7	6.7	6.7	6.8	6.7	6.8	6.6	6.5	6.5	---	---	---
28	6.7	6.7	6.7	6.8	6.7	6.8	6.6	6.5	6.5	---	---	---
29	6.7	6.7	6.7	6.8	6.7	6.8	6.5	6.4	6.5	---	---	---
30	6.7	6.6	6.7	6.9	6.8	6.8	6.6	6.4	6.5	---	---	---
31	6.7	6.7	6.7	---	---	---	6.5	6.3	6.4	---	---	---
MONTH	7.6	6.4	6.7	6.9	6.6	6.8	6.8	6.2	6.5	6.7	6.3	6.5

ST. CROIX RIVER BASIN

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.3	7.1	7.2	7.1	7.0	7.1	7.1	6.9	7.0
2	---	---	---	7.2	7.1	7.1	7.1	7.0	7.1	7.0	6.9	7.0
3	---	---	---	7.2	7.1	7.1	7.1	7.0	7.1	7.0	6.9	6.9
4	7.1	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.1	7.0	6.8	6.9
5	7.1	7.0	7.1	7.2	7.1	7.2	7.1	7.0	7.1	7.0	6.8	6.9
6	7.2	7.1	7.1	7.2	7.1	7.1	7.0	7.0	7.0	7.0	6.9	6.9
7	7.2	7.1	7.2	7.1	7.1	7.1	7.0	6.9	7.0	6.9	6.9	6.9
8	7.2	7.1	7.1	7.2	7.0	7.1	6.9	6.8	6.9	7.0	6.8	6.9
9	7.2	7.1	7.1	7.1	7.0	7.0	6.9	6.8	6.9	7.0	6.9	6.9
10	7.1	7.1	7.1	7.0	7.0	7.0	6.9	6.9	6.9	7.0	6.9	7.0
11	7.2	7.1	7.2	7.0	7.0	7.0	7.0	6.9	6.9	7.1	7.0	7.0
12	7.3	7.2	7.2	---	---	---	7.0	6.9	7.0	7.0	6.9	7.0
13	7.4	7.2	7.3	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0
14	7.3	7.2	7.3	---	---	---	7.1	7.0	7.1	7.1	6.9	7.0
15	7.3	7.2	7.3	---	---	---	7.0	7.0	7.0	7.1	7.0	7.0
16	7.3	7.2	7.2	7.1	7.0	7.1	7.0	6.9	6.9	7.1	7.0	7.0
17	7.2	7.1	7.1	7.1	7.1	7.1	7.0	6.9	6.9	7.1	7.0	7.1
18	7.1	7.1	7.1	7.3	7.1	7.2	7.0	6.9	7.0	7.2	7.1	7.1
19	7.2	7.1	7.2	7.2	7.0	7.1	7.1	6.9	7.0	7.2	7.1	7.1
20	7.2	7.2	7.2	7.0	7.0	7.0	7.1	7.0	7.1	7.2	7.1	7.1
21	7.2	7.1	7.1	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.0	7.1
22	7.2	7.1	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.2	7.0	7.1
23	7.1	7.1	7.1	7.1	7.0	7.0	7.2	7.0	7.1	7.2	7.0	7.0
24	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.2	7.2	7.1	7.0	7.1
25	7.1	7.1	7.1	7.0	7.0	7.0	7.2	7.1	7.2	7.1	7.0	7.1
26	7.1	7.1	7.1	7.1	7.0	7.0	7.1	7.1	7.1	7.2	7.1	7.2
27	7.3	7.3	7.2	7.0	7.0	7.0	7.1	7.1	7.1	7.2	7.1	7.1
28	7.3	7.3	7.2	7.0	7.0	7.0	7.1	7.0	7.1	7.2	7.0	7.1
29	7.3	7.1	7.2	7.0	7.0	7.0	7.1	7.0	7.1	7.2	7.0	7.1
30	7.2	7.1	7.1	7.1	7.0	7.1	7.2	7.0	7.1	7.1	7.0	7.1
31	---	---	---	7.1	7.0	7.1	7.1	6.9	7.0	---	---	---
MONTH	7.4	7.0	7.2	7.3	7.0	7.1	7.2	6.8	7.0	7.2	6.8	7.0
YEAR	MAXIMUM	7.6	MINIMUM	6.2	MEAN	6.8						

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	1.0	.0	.5	---	---	---	10.0	9.0	9.5
2	---	---	---	1.0	.0	.5	---	---	---	9.5	9.0	9.0
3	.0	.0	.0	1.5	.5	1.0	4.5	2.0	3.0	9.5	9.0	9.0
4	.0	.0	.0	1.0	.5	.5	5.0	2.5	4.0	9.5	8.0	9.0
5	.0	.0	.0	1.0	.5	.5	4.5	4.0	4.0	10.5	8.5	9.5
							4.5	4.0	4.0	13.0	9.0	11.0
6	.0	.0	.0	1.0	.0	.5	5.5	3.5	4.5	13.5	10.5	12.0
7	.0	.0	.0	2.0	.5	1.0	5.0	4.0	4.5	13.5	11.5	12.5
8	.0	.0	.0	1.5	.5	1.0	4.5	4.0	4.5	14.5	11.5	13.0
9	.0	.0	.0	1.5	.5	1.0	4.5	4.0	4.0	15.0	12.5	14.0
10	.0	.0	.0	1.5	1.0	1.5	5.0	4.5	4.5	15.5	12.5	14.0
11	.0	.0	.0	1.0	.0	.5	4.5	4.0	4.0	15.0	13.5	13.5
12	.0	.0	.0	.5	.0	.5	5.0	3.0	4.0	16.5	13.5	13.5
13	.0	.0	.0	.5	.0	.5	6.0	3.5	5.0	17.0	14.5	15.0
14	.0	.0	.0	1.0	.5	1.5	7.5	4.0	5.5	17.0	14.5	16.0
15	.0	.0	.0	1.5	.5	1.0	7.5	5.0	6.5	16.5	15.5	16.0
16	.0	.0	.0	---	---	---	7.0	5.0	5.5	16.5	15.5	16.0
17	.0	.0	.0	---	---	---	6.5	5.0	5.5	16.5	15.5	16.0
18	.5	.0	.0	---	---	---	6.5	6.0	6.0	16.0	15.5	15.5
19	.5	.0	.0	---	---	---	8.5	6.0	7.0	17.0	15.0	16.0
20	.5	.0	.5	---	---	---	7.5	6.5	7.0	17.0	16.0	16.5
21	.5	.5	.5	---	---	---	8.0	5.5	6.5	18.5	16.5	17.5
22	.0	.0	.0	---	---	---	8.0	6.5	7.5	19.0	17.5	18.5
23	.5	.0	.5	---	---	---	9.5	6.5	8.0	20.0	18.0	19.0
24	.5	.5	.5	---	---	---	9.0	7.0	8.0	20.0	19.0	19.5
25	.5	.0	.5	---	---	---	7.0	6.0	6.5	---	---	---
26	.5	.5	.5	---	---	---	9.5	6.5	8.0	---	---	---
27	.5	.0	.5	---	---	---	10.0	8.0	9.0	---	---	---
28	.5	.0	.5	---	---	---	11.5	8.5	10.0	---	---	---
29	1.0	.0	.5	---	---	---	10.5	9.0	9.5	---	---	---
30	---	---	---	---	---	---	9.5	9.0	9.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1.0	.0	.5	2.0	.0	.5	11.5	2.0	6.0	20.0	8.0	14.5

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	20.5	19.0	20.0	24.5	23.0	23.5	21.5	19.5	20.5
2	---	---	---	20.0	18.5	19.5	26.0	24.5	25.0	21.5	20.0	21.0
3	---	---	---	21.5	20.0	21.0	26.0	25.0	25.5	21.0	20.0	20.5
4	18.0	16.5	17.5	22.5	21.0	22.0	26.0	24.5	25.0	20.5	19.0	19.5
5	18.0	17.0	17.5	23.0	21.5	22.5	27.5	26.0	26.5	20.0	18.5	19.0
6	17.5	16.5	17.0	24.0	22.5	23.0	27.5	27.0	27.5	19.5	17.5	18.5
7	17.5	16.0	16.5	24.0	22.5	23.5	27.5	25.0	26.5	18.0	17.5	17.5
8	17.0	16.0	16.5	25.0	23.5	24.0	26.5	25.0	25.5	19.0	17.5	18.0
9	16.5	16.0	16.5	25.0	24.0	24.5	26.0	25.5	26.0	19.0	18.0	18.5
10	17.0	16.0	16.5	25.5	24.0	25.0	27.0	26.0	26.5	19.5	18.5	19.0
11	19.0	16.5	17.5	25.5	24.0	25.0	27.0	26.0	26.5	19.5	18.0	18.5
12	20.0	18.5	19.0	---	---	---	27.5	27.0	27.5	18.5	17.0	18.0
13	22.5	19.5	21.0	---	---	---	27.5	27.0	27.5	18.0	16.5	17.0
14	22.0	20.5	21.5	---	---	---	27.5	25.5	27.0	17.5	16.0	17.0
15	23.0	21.5	21.5	---	---	---	25.5	23.5	24.5	17.5	16.0	16.5
16	24.5	22.5	23.5	24.5	23.0	24.0	23.5	23.5	23.5	16.5	15.0	16.0
17	23.0	20.0	22.0	24.0	22.5	23.5	23.5	22.5	23.0	16.5	15.0	16.0
18	21.0	19.5	20.0	26.0	23.5	25.0	23.0	22.5	22.5	16.5	15.5	16.0
19	22.5	20.5	21.5	26.0	24.0	25.5	22.5	21.0	22.0	17.0	15.5	16.0
20	23.0	22.0	22.5	24.5	23.5	24.0	22.5	21.5	22.0	17.5	16.5	17.0
21	24.0	22.5	23.0	25.0	23.5	24.5	22.5	19.5	21.0	17.5	16.0	16.0
22	24.5	23.0	24.0	23.5	23.0	23.0	20.0	19.0	19.5	16.0	15.5	16.0
23	25.0	22.5	24.0	24.5	23.0	24.0	20.5	19.5	20.0	15.5	14.5	15.0
24	22.5	21.0	21.5	25.0	22.5	24.0	20.5	20.0	20.0	16.0	15.0	15.5
25	22.5	20.5	21.5	22.0	21.5	22.0	20.5	18.5	19.5	15.5	14.5	15.0
26	20.5	19.5	20.0	22.5	22.0	22.5	20.5	18.5	19.0	15.5	15.5	15.5
27	21.5	20.0	20.5	22.5	21.5	22.0	21.5	20.5	21.0	15.5	15.0	15.5
28	21.0	20.5	20.5	22.0	21.0	21.5	21.5	20.0	21.0	15.0	15.0	15.0
29	21.5	18.5	20.0	24.0	22.0	23.0	20.5	20.0	20.5	14.0	13.5	14.0
30	20.5	18.0	19.5	24.5	23.5	24.0	20.5	20.0	20.0	14.5	13.5	14.0
31	---	---	---	24.0	23.0	23.5	21.5	19.0	20.0	---	---	---
MONTH	25.0	16.0	20.0	26.0	18.5	23.0	27.5	18.5	23.5	21.5	13.5	17.0
YEAR	MAXIMUM	27.5	MINIMUM	.0	MEAN	10.5						

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
OCTOBER				NOVEMBER				DECEMBER				JANUARY	
1	9.2	8.3	8.7	10.8	10.6	10.7	12.7	12.2	12.5	12.1	11.5	11.9	
2	9.1	8.7	8.8	10.8	10.6	10.7	12.8	12.1	12.4	12.2	12.1	12.1	
3	9.1	8.8	9.0	10.7	10.5	10.6	12.9	12.7	12.8	12.1	11.9	12.0	
4	9.1	8.9	9.0	10.7	10.5	10.6	13.0	12.7	12.8	12.1	11.8	11.9	
5	8.9	8.7	8.8	10.8	10.6	10.7	12.7	12.4	12.6	12.1	11.8	11.9	
6	9.1	8.7	8.9	11.0	10.5	10.7	12.8	12.5	12.7	11.8	11.3	11.6	
7	9.1	8.8	8.9	11.0	10.9	11.0	13.1	12.8	13.0	11.4	10.8	11.5	
8	9.1	8.8	8.9	11.2	10.9	11.1	13.0	12.6	12.8	11.3	11.2	11.2	
9	9.5	8.9	9.2	11.2	11.1	11.2	13.0	12.8	12.9	11.5	11.2	11.4	
10	9.7	9.2	9.4	11.4	11.2	11.3	13.0	12.8	12.9	11.4	11.0	11.2	
11	9.6	9.3	9.5	11.7	11.4	11.6	12.8	12.6	12.7	11.1	10.5	10.9	
12	9.8	9.4	9.6	11.8	11.7	11.8	12.8	12.7	12.7	11.5	10.9	11.2	
13	9.8	9.5	9.7	12.1	11.6	11.8	12.6	12.3	12.5	12.2	11.6	11.9	
14	10.0	9.7	9.8	12.1	11.9	12.0	12.7	12.4	12.5	12.1	10.2	11.3	
15	10.0	9.8	9.8	12.4	12.0	12.2	12.4	12.2	12.3	10.9	9.4	10.4	
16	10.0	9.7	9.8	12.2	12.1	12.2	12.3	11.9	12.2	11.3	10.2	10.8	
17	10.1	9.7	9.9	12.4	12.0	12.3	12.2	12.0	12.1	11.9	11.2	11.5	
18	10.1	9.9	10.0	12.4	12.3	12.4	12.2	11.9	12.0	12.0	11.9	12.0	
19	10.3	10.0	10.1	12.3	12.1	12.2	11.9	11.7	11.8	12.1	11.8	11.9	
20	10.3	10.0	10.1	12.1	11.9	12.0	11.9	11.6	11.8	---	---	---	
21	10.2	9.9	10.0	12.1	11.7	11.9	12.3	11.8	12.0	---	---	---	
22	10.5	10.0	10.2	12.1	11.6	11.9	12.4	12.1	12.2	---	---	---	
23	10.4	10.1	10.3	12.2	12.0	12.1	12.3	12.1	12.2	---	---	---	
24	10.5	10.2	10.4	12.5	12.1	12.3	12.5	12.2	12.3	---	---	---	
25	10.6	10.4	10.5	13.0	12.3	12.5	12.5	12.3	12.4	---	---	---	
26	10.6	10.2	10.4	12.9	12.7	12.8	12.5	12.3	12.4	---	---	---	
27	10.6	10.2	10.4	12.8	12.5	12.7	12.3	12.1	12.2	---	---	---	
28	10.7	10.4	10.6	12.6	12.4	12.5	12.2	12.1	12.1	---	---	---	
29	10.7	10.4	10.5	12.5	12.3	12.4	12.1	11.8	11.9	---	---	---	
30	10.7	10.4	10.5	12.8	12.5	12.6	11.8	11.6	11.8	---	---	---	
31	10.7	10.5	10.6	---	---	---	11.8	11.5	11.7	---	---	---	
MONTH	10.7	8.3	9.8	13.0	10.5	11.8	13.1	11.5	12.4	12.2	9.4	11.5	

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.5	7.3	7.3	6.8	6.3	6.6	7.7	7.3	7.5
2	---	---	---	7.6	7.4	7.5	6.8	6.3	6.6	7.9	7.3	7.5
3	---	---	---	7.7	7.5	7.6	6.8	6.1	6.7	7.7	7.0	7.5
4	7.3	6.9	7.1	7.5	7.2	7.3	6.8	6.6	6.3	7.6	7.3	7.5
5	7.1	6.9	7.0	7.5	7.1	7.3	6.2	5.7	6.0	8.0	7.4	7.6
6	7.4	6.9	7.1	7.3	6.8	7.0	6.3	5.6	5.9	8.4	7.6	7.9
7	7.4	7.1	7.3	7.1	6.5	6.8	6.4	5.6	5.9	8.5	8.2	8.3
8	7.6	7.1	7.3	6.9	6.3	6.7	6.4	5.9	6.1	8.6	8.4	8.5
9	7.6	7.2	7.4	6.7	6.1	6.4	6.4	6.1	6.2	8.5	8.3	8.4
10	7.8	6.7	7.5	6.4	5.8	6.2	6.5	6.4	6.5	8.4	8.1	8.2
11	6.9	6.4	6.7	6.4	5.7	6.1	6.6	5.8	6.2	8.5	7.8	8.2
12	7.0	6.6	6.8	---	---	---	6.8	5.8	6.1	8.5	8.1	8.3
13	7.0	6.9	7.0	---	---	---	6.8	6.0	6.3	8.4	8.3	8.4
14	7.0	6.8	6.9	---	---	---	6.7	6.1	6.4	8.6	8.2	8.4
15	7.1	6.8	6.9	---	---	---	6.9	6.6	6.7	8.8	8.4	8.6
16	7.1	6.9	7.0	6.6	5.9	6.3	7.1	6.6	6.8	9.1	8.8	8.9
17	7.1	6.6	6.8	6.5	6.0	6.2	7.4	6.9	7.1	9.0	8.7	8.8
18	7.0	6.6	6.8	6.5	6.1	6.3	7.3	6.7	7.0	8.9	8.5	8.6
19	7.2	6.9	7.1	6.4	5.6	6.0	7.4	6.8	7.1	8.6	8.4	8.5
20	7.3	7.0	7.1	6.5	5.9	6.2	7.4	6.9	7.2	8.7	8.5	8.6
21	7.4	7.1	7.3	6.4	5.7	6.1	7.4	6.8	7.0	8.6	8.4	8.5
22	7.3	7.1	7.3	6.4	6.0	6.2	7.5	7.0	7.3	9.4	8.4	8.7
23	7.3	7.1	7.2	6.4	6.0	6.2	7.5	7.3	7.4	9.4	9.2	9.3
24	7.3	7.0	7.1	6.3	5.7	6.0	7.6	7.4	7.5	9.5	9.1	9.3
25	7.4	7.2	7.3	6.1	5.9	6.0	7.7	7.5	7.6	9.5	9.3	9.4
26	7.5	7.2	7.3	6.4	6.0	6.1	7.6	7.4	7.5	9.5	9.2	9.4
27	7.6	7.4	7.5	6.2	6.0	6.1	7.8	7.4	7.6	9.5	9.3	9.4
28	7.8	7.3	7.6	6.3	6.1	6.2	7.8	7.1	7.3	9.6	9.3	9.4
29	7.3	6.7	7.0	6.4	6.1	6.2	7.4	7.1	7.3	9.7	9.3	9.6
30	7.2	7.0	7.1	6.4	6.0	6.2	7.5	7.2	7.4	9.7	9.5	9.7
31	---	---	---	6.4	6.0	6.2	7.7	7.3	7.5	---	---	---
MONTH	7.8	6.4	7.1	7.7	5.6	6.5	7.8	5.6	6.8	9.8	7.0	8.6
YEAR	MAXIMUM	13.1	MINIMUM	5.6	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: Dec. 7, 8, Dec. 13 to Jan. 21, Jan. 29, 30, Feb. 6-8, and Aug. 8-23.
Records good except for periods of ice effect, Dec. 7, 8, Dec. 13 to Jan. 21, and for periods of no gage-height record, Jan. 29, 30, Feb. 6-8, and Aug. 8-23, which are fair.

AVERAGE DISCHARGE.--33 years, 192 ft³/s, 28.06 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. 1	1500	*2,150	6.72	Mar. 27	2400	2040	6.53

Minimum discharge, 51 ft³/s, Sep. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	83	1680	e81	111	160	412	339	157	104	80	150
2	129	73	1440	e81	140	149	389	270	143	122	76	112
3	101	66	801	e80	181	142	358	237	134	113	73	94
4	90	64	398	e80	167	137	341	217	127	104	71	83
5	97	64	246	e79	154	132	347	198	123	96	69	205
6	90	62	186	e79	e140	124	422	183	119	90	68	225
7	79	59	e160	e78	e130	127	367	173	115	89	66	156
8	97	56	e145	e78	e115	128	383	161	111	87	e72	116
9	137	56	129	e77	106	124	357	152	107	76	e74	95
10	119	58	126	e77	106	140	336	138	105	73	e76	92
11	97	57	138	e76	105	164	316	131	102	72	e75	83
12	84	59	165	e76	102	139	287	170	99	72	e72	67
13	75	58	e140	e76	162	148	258	168	98	72	e63	62
14	69	63	e130	e75	263	129	213	151	101	70	e58	61
15	64	68	e115	e75	262	123	184	136	104	69	e76	58
16	61	70	e110	e74	272	120	207	134	105	68	e86	55
17	59	66	e105	e74	284	120	304	261	103	68	e80	53
18	59	106	e98	e88	255	126	274	622	103	68	e74	52
19	59	176	e94	e125	219	137	245	388	98	68	e70	56
20	58	150	e93	159	283	150	220	265	95	68	e63	55
21	57	236	e94	164	499	135	199	225	94	68	e56	54
22	57	186	e95	157	465	121	181	201	92	77	e54	64
23	55	141	e95	143	411	118	170	180	92	78	e52	65
24	55	109	e94	130	400	124	171	166	92	86	58	62
25	56	97	e93	119	365	180	386	213	92	122	71	73
26	66	93	e91	142	303	339	457	462	95	116	137	110
27	65	88	e89	189	250	1400	338	368	95	102	128	113
28	66	81	e87	163	209	1720	249	255	92	98	101	114
29	107	79	e86	e135	180	1050	308	205	90	98	86	112
30	109	160	e84	e115	---	615	419	172	94	89	180	109
31	95	---	e83	110	---	437	---	160	---	82	213	---
TOTAL	2537	2784	7490	3255	6639	8958	9098	7101	3177	2665	2578	2806
MEAN	81.8	92.8	242	105	229	289	303	229	106	86.0	83.2	93.5
MAX	137	236	1680	189	499	1720	457	622	157	122	213	225
MIN	55	56	83	74	102	118	170	131	90	68	52	52

CAL YR 1987 TOTAL 53970 MEAN 148 MAX 1680 MIN 35
WTR YR 1988 TOTAL 59088 MEAN 161 MAX 1720 MIN 52

e Estimated

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. 17 to Mar. 24. Records good below 200 ft³/s and fair above, except for period of ice-effect, Dec. 17 to Mar. 24, which is fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--8 years, 139 ft³/s, 31.15 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. 3	0715	641	8.72	Mar. 28	1815	*1010	*10.04

Minimum discharge 28 ft³/s, Aug. 24, 25, gage height 5.22 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	125	297	e69	e92	e180	476	208	88	46	77	184
2	91	105	413	e68	e115	e160	427	200	81	84	70	144
3	82	89	621	e67	e145	e135	389	183	75	75	56	94
4	98	84	523	e67	e170	e130	359	168	66	61	49	71
5	116	81	424	e66	e150	e130	334	152	63	50	47	95
6	103	76	359	e66	e130	e125	323	137	61	45	43	133
7	88	71	305	e66	e120	e110	316	126	60	41	39	116
8	135	67	252	e65	e110	e115	312	117	57	38	42	89
9	187	64	208	e65	e100	e120	296	111	53	36	45	72
10	189	64	177	e64	e93	e130	275	99	51	35	46	64
11	150	64	163	e64	e90	e135	251	93	49	33	46	58
12	117	64	165	e64	e89	e125	229	118	48	34	42	51
13	100	63	164	e63	e120	e120	210	127	47	47	38	47
14	88	76	152	e63	e185	e110	189	110	48	49	36	47
15	81	75	130	e62	e183	e105	170	99	45	43	42	44
16	74	74	117	e62	e195	e100	160	93	43	38	49	40
17	69	71	e110	e61	e202	e105	175	101	41	36	47	38
18	66	99	e100	e61	e189	e110	195	126	41	36	45	37
19	64	151	e91	e70	e187	e120	201	121	42	36	40	41
20	62	155	e87	e89	e168	e125	190	112	41	34	35	43
21	60	165	e84	e110	e275	e110	173	117	38	32	32	47
22	59	166	e81	e130	e420	e105	157	112	36	45	31	116
23	59	132	e79	e120	e360	e105	146	101	35	66	30	150
24	58	119	e77	e110	e375	e100	138	92	36	60	29	115
25	59	106	e75	e98	e385	137	170	101	34	88	33	80
26	68	101	e74	e120	e360	181	206	161	37	92	79	65
27	68	95	e72	e155	e280	320	211	192	45	77	91	55
28	79	99	e72	e140	e250	774	188	174	39	74	69	52
29	163	103	e71	e115	e215	851	175	135	36	77	55	51
30	187	123	e70	e96	---	640	195	110	37	69	95	48
31	159	---	e69	e89	---	542	---	98	---	67	168	---
TOTAL	3069	2927	5682	2605	5753	6355	7236	3994	1473	1644	1646	2287
MEAN	99.0	97.6	183	84.0	198	205	241	129	49.1	53.0	53.1	76.2
MAX	189	166	621	155	420	851	476	208	88	92	168	184
MIN	58	63	69	61	89	100	138	92	34	32	29	37
CFSM	1.63	1.61	3.02	1.39	3.27	3.38	3.98	2.13	.81	.88	.88	1.26
IN.	1.88	1.80	3.49	1.60	3.53	3.90	4.44	2.45	.90	1.01	1.01	1.40

CAL YR 1987 TOTAL 44223 MEAN 121 MAX 918 MIN 18 CFSM 2.00 IN. 27.15
WTR YR 1988 TOTAL 44671 MEAN 122 MAX 851 MIN 29 CFSM 2.01 IN. 27.42

e Estimated

01022340 EAST BRANCH BEAR BROOK NEAR BEDDINGTON, ME

LOCATION.--Lat 44°51'35", long 68°06'20", Hancock County, Hydrologic Unit 01050002, on left bank 600 ft upstream from confluence with the West Branch Bear Brook and 0.7 mi upstream from the mouth of Bear Brook at Bear Pond.

DRAINAGE AREA.--0.038 mi².

PERIOD OF RECORD.--March to September 1988.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 906.55 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Mar. 24, June 10 to Aug. 29, Sept. 1-4 and 7-30. Records excellent except for periods of missing gage-height record, Mar. 24 and Sept. 13-30, and periods of doubtful stage-discharge relationship, June 10 to Aug. 29, Sept. 1-4 and 7-12, which are poor. The University of Maine at Orono operates a mini-monitor and raingage at the station.

EXTREMES FOR CURRENT YEAR.--During period Mar. to Sept., maximum discharge, 9.91 ft³/s, Mar. 27, gage height, 6.39 ft. No flow for several days in June, July, August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.29	.24	.045	e.006	e.001	e.006
2	---	---	---	---	---	---	.25	.21	.043	e.002	e.00	e.005
3	---	---	---	---	---	---	.21	.16	.034	e.001	e.00	e.004
4	---	---	---	---	---	---	.18	.13	.025	e.004	e.002	e.003
5	---	---	---	---	---	---	.18	.10	.023	e.002	e.001	.045
6	---	---	---	---	---	---	.22	.092	.021	e.001	e.00	.019
7	---	---	---	---	---	---	.16	.081	.016	e.00	e.00	e.007
8	---	---	---	---	---	---	.14	.069	.013	e.00	e.001	e.004
9	---	---	---	---	---	---	.11	.061	.011	e.00	e.00	e.002
10	---	---	---	---	---	---	.10	.059	e.008	e.00	e.00	e.002
11	---	---	---	---	---	---	.093	.069	e.007	e.00	e.00	e.001
12	---	---	---	---	---	---	.079	.12	e.006	e.001	e.00	e.001
13	---	---	---	---	---	---	.070	.083	e.010	e.00	e.00	e.00
14	---	---	---	---	---	---	.065	.069	e.005	e.00	e.004	e.00
15	---	---	---	---	---	---	.060	.059	e.003	e.00	e.004	e.00
16	---	---	---	---	---	---	.065	.052	e.002	e.00	e.002	e.00
17	---	---	---	---	---	---	.075	.079	e.003	e.00	e.001	e.00
18	---	---	---	---	---	---	.14	.076	e.003	e.00	e.00	e.003
19	---	---	---	---	---	---	.23	.067	e.001	e.00	e.00	e.001
20	---	---	---	---	---	---	.16	.063	e.00	e.00	e.00	e.00
21	---	---	---	---	---	---	.11	.067	e.00	e.002	e.001	e.022
22	---	---	---	---	---	---	.092	.060	e.00	e.008	e.00	e.009
23	---	---	---	---	---	---	.078	.056	e.001	e.003	e.00	e.004
24	---	---	---	---	---	.10	.094	.052	e.00	e.014	e.001	e.002
25	---	---	---	---	---	.14	.16	.22	e.00	e.009	e.006	e.001
26	---	---	---	---	---	.93	.27	.39	e.002	e.005	e.002	e.001
27	---	---	---	---	---	4.95	.22	.18	e.001	e.004	e.002	e.001
28	---	---	---	---	---	.74	.14	.11	e.00	e.003	e.001	e.002
29	---	---	---	---	---	.33	.40	.079	e.00	e.003	e.002	e.001
30	---	---	---	---	---	.27	.31	.062	e.00	e.001	.11	e.001
31	---	---	---	---	---	.31	---	.058	---	e.002	.020	---
TOTAL	---	---	---	---	---	---	4.751	3.273	0.283	0.071	0.161	0.147
MEAN	---	---	---	---	---	---	.16	.11	.009	.002	.005	.005
MAX	---	---	---	---	---	---	.40	.39	.045	.014	.11	.045
MIN	---	---	---	---	---	---	.060	.052	.00	.00	.00	.00

e Estimated

01022350 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME

LOCATION.--Lat 44°51'34", long 68°06'23", Hancock County, Hydrologic Unit 01050002, on left bank 600 ft upstream from confluence with the East Branch Bear Brook and 0.7 mi upstream from the mouth of Bear Brook at Bear Pond.

DRAINAGE AREA.--0.031 mi².

PERIOD OF RECORD.--March to September 1988.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 912.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Sept. 13-30. Records excellent except for period of no gage-height record, Sept. 13-30, which is poor. The University of Maine at Orono operates a mini-monitor at the station.

EXTREMES FOR CURRENT YEAR.--During period Mar. to Sept., maximum discharge, 8.71 ft³/s, Mar. 27, gage height, 6.47 ft, (backwater from log on control); minimum discharge, 0.002 ft³/s, Jul. 20, Aug. 11-13, 20-21, 23-24, gage height, 5.05 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.33	.23	.044	.020	.009	.019
2	---	---	---	---	---	---	.28	.21	.043	.013	.007	.012
3	---	---	---	---	---	---	.25	.17	.032	.010	.006	.010
4	---	---	---	---	---	---	.21	.14	.030	.014	.011	.012
5	---	---	---	---	---	---	.24	.12	.027	.012	.007	.061
6	---	---	---	---	---	---	.25	.11	.027	.009	.005	.027
7	---	---	---	---	---	---	.18	.098	.025	.007	.007	.018
8	---	---	---	---	---	---	.16	.081	.020	.007	.008	.012
9	---	---	---	---	---	---	.13	.073	.018	.006	.007	.010
10	---	---	---	---	---	---	.12	.069	.018	.007	.005	.010
11	---	---	---	---	---	---	.11	.080	.018	.006	.005	.007
12	---	---	---	---	---	---	.098	.12	.017	.008	.004	.007
13	---	---	---	---	---	---	.089	.085	.019	.007	.004	e.005
14	---	---	---	---	---	.032	.082	.074	.016	.006	.009	e.004
15	---	---	---	---	---	.038	.079	.064	.013	.006	.010	e.004
16	---	---	---	---	---	.037	.080	.052	.013	.005	.009	e.004
17	---	---	---	---	---	.044	.090	.070	.014	.006	.007	e.004
18	---	---	---	---	---	.054	.13	.069	.013	.006	.006	e.008
19	---	---	---	---	---	.069	.20	.060	.011	.005	.005	e.005
20	---	---	---	---	---	.076	.15	.060	.009	.004	.004	e.004
21	---	---	---	---	---	.067	.11	.060	.011	.006	.006	e.032
22	---	---	---	---	---	.064	.099	.057	.008	.024	.005	e.014
23	---	---	---	---	---	.060	.089	.050	.011	.009	.003	e.007
24	---	---	---	---	---	.060	.11	.047	.007	.035	.004	e.005
25	---	---	---	---	---	.11	.15	.18	.008	.024	.026	e.004
26	---	---	---	---	---	.71	.26	.26	.012	.016	.017	e.004
27	---	---	---	---	---	4.25	.21	.14	.008	.014	.010	e.004
28	---	---	---	---	---	.71	.14	.092	.007	.014	.008	e.006
29	---	---	---	---	---	.30	.36	.069	.009	.011	.010	e.005
30	---	---	---	---	---	.25	.30	.057	.009	.009	.14	e.004
31	---	---	---	---	---	.32	---	.054	---	.011	.038	---
TOTAL	---	---	---	---	---	---	5.086	3.101	0.517	0.337	0.402	0.328
MEAN	---	---	---	---	---	---	.17	.10	.017	.011	.013	.011
MAX	---	---	---	---	---	---	.36	.26	.044	.035	.14	.061
MIN	---	---	---	---	---	---	.079	.047	.007	.004	.003	.004

e Estimated

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME

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

DRAINAGE AREA.--227 mi².

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: Oct. 24 to Nov. 2, Dec. 17 to Jan. 19, Feb. 5-12, and Mar. 5, 6. Records good except for periods of ice effect, Dec. 17 to Jan. 19, Feb. 5-12 and Mar. 5, 6, and period of no gage-height record, Oct. 24 to Nov. 2, which are fair.

AVERAGE DISCHARGE.--40 years, 497 ft³/s, 29.73 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. 1	2200	2,990	12.59	Mar. 28	0500	*5050	*14.31

Minimum discharge, 65 ft³/s, Aug. 24, gage height, 7.39 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	e360	2440	e220	279	454	1670	866	283	123	161	361
2	289	e300	2770	e215	411	413	1470	782	253	147	139	268
3	284	270	2280	e215	538	392	1330	705	227	141	118	208
4	293	257	1580	e210	478	374	1220	622	210	128	106	167
5	311	249	1080	e210	e440	e355	1150	546	199	113	99	267
6	290	241	834	e210	e400	e335	1160	486	191	112	96	325
7	264	222	688	e210	e355	334	1140	440	179	108	94	248
8	635	209	585	e205	e315	343	1050	400	168	99	98	194
9	722	206	526	e205	e300	329	940	366	158	92	128	160
10	564	208	500	e200	e285	387	845	340	151	86	122	141
11	443	203	508	e200	e265	435	779	328	145	83	104	122
12	369	214	565	e200	e260	387	707	407	138	86	93	103
13	318	218	529	e200	449	399	633	421	137	131	83	92
14	280	219	472	e195	581	354	572	398	134	130	83	92
15	254	228	406	e195	507	333	524	358	127	110	114	86
16	236	228	361	e195	612	323	531	324	121	95	116	79
17	220	225	e330	e190	675	342	648	338	115	89	117	73
18	210	371	e290	e230	581	374	743	385	114	92	111	75
19	204	501	e275	e375	498	400	736	367	112	89	97	84
20	194	464	e265	388	813	428	689	349	108	87	85	82
21	191	587	e260	405	1300	388	602	362	105	85	79	176
22	201	497	e250	401	1050	350	535	338	102	127	76	389
23	197	403	e240	351	977	321	487	310	104	147	72	254
24	e195	350	e235	306	1030	330	472	287	101	160	67	188
25	e210	319	e230	284	937	461	770	338	95	243	87	148
26	e235	323	e230	382	801	696	832	691	114	239	135	125
27	e230	313	e225	458	675	2970	755	684	115	214	132	109
28	e230	283	e225	374	572	4990	643	563	102	216	120	103
29	e570	278	e220	314	502	4240	731	453	95	202	110	102
30	e480	493	e220	268	---	2890	928	366	99	170	348	91
31	e410	---	e220	262	---	2070	---	314	---	155	499	---
TOTAL	9792	9239	19839	8273	16886	27197	25292	13934	4302	4099	3889	4912
MEAN	316	308	640	267	582	877	843	449	143	132	125	164
MAX	722	587	2770	458	1300	4990	1670	866	283	243	499	389
MIN	191	203	220	190	260	321	472	287	95	83	67	73
CFSM	1.39	1.36	2.82	1.18	2.57	3.86	3.71	1.98	.63	.58	.55	.72
IN.	1.60	1.51	3.25	1.36	2.77	4.46	4.14	2.28	.70	.67	.64	.80

CAL YR 1987 TOTAL 153258 MEAN 420 MAX 4460 MIN 45 CFSM 1.85 IN. 25.12
WTR YR 1988 TOTAL 147654 MEAN 403 MAX 4990 MIN 67 CFSM 1.78 IN. 24.20

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: Dec. 15 to Mar. 21. Records fair, including period of ice effect, Dec. 15 to Mar. 21. 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.--48 years, 5770 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, 13,700 ft³/s, Apr. 7, gage height, 6.59 ft.; minimum daily, 2,380 ft³/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3800	3820	8720	e4420	e4560	e3990	6540	7390	3630	3010	2870	3960
2	3470	3560	12100	e4590	e4200	e3900	7070	6810	2910	3830	2750	3880
3	3660	3380	8180	e4420	e3580	e3800	8210	7010	3700	3370	2870	4170
4	4070	3750	6290	e4410	e4320	e4050	8730	6120	3030	3160	2870	3420
5	4610	3220	5490	e3540	e3360	e3880	11000	5910	3370	3220	3410	4090
6	4740	3530	5650	e2800	e3360	e4110	10000	5880	3300	2610	3740	4300
7	4420	3260	4670	e2920	e3720	e4350	9350	5420	3110	2470	4540	4410
8	3970	3330	4850	e4020	e3800	e3620	9230	5030	3250	2720	4170	4430
9	4500	3700	4890	e4280	e3090	e3770	8470	4870	3430	3330	4200	4780
10	4360	3000	5130	e4350	e3950	e3870	8050	4590	2710	4070	4460	5040
11	4070	3350	5150	e3910	e3430	e3520	7540	4510	3190	4450	2860	4350
12	3620	3450	5140	e4200	e3840	e3210	7210	4370	3060	4020	2970	4820
13	4140	3290	4650	e4160	e3500	e3330	6750	4630	3570	3820	3050	4690
14	3910	3320	4550	e3720	e3730	e3450	6340	4670	2700	3310	3780	4330
15	3410	3490	e4260	e4140	e3760	e3510	6410	4420	2780	3400	4930	3690
16	3250	3430	e4180	e4220	e3780	e3340	5330	4320	3100	3220	5760	3780
17	3100	3540	e4060	e4350	e4120	e3350	5560	4660	2820	3810	5340	3290
18	3110	3730	e4320	e4110	e3670	e3500	5770	4920	3050	3490	4600	3300
19	3460	4150	e4440	e4090	e4210	e3180	7130	4690	2940	3330	4190	3290
20	3290	3890	e4240	e4560	e4650	e3180	7540	4630	2810	3410	3800	3310
21	3300	3680	e4310	e4540	e3920	e2980	7120	4400	3960	3660	4120	3320
22	3280	3580	e4520	e4210	e4440	3010	3780	4340	2700	3450	3550	3460
23	3700	3490	e4730	e4240	e4370	3470	4370	4370	2640	3560	3610	3220
24	3280	3610	e2740	e4180	e4290	3170	5430	4370	2400	3480	3570	3360
25	3380	3890	e4630	e3410	e4110	3300	5940	4100	2390	4510	3540	3070
26	3910	3870	e4160	e4310	e4470	3640	7210	4380	2420	4110	4290	4350
27	3760	3800	e4380	e3220	e3810	4900	7480	3980	2480	3140	3960	3030
28	3930	3500	e4300	e3830	e4150	6720	6850	4210	2550	2810	4220	2380
29	3870	3730	e4320	e3600	e4240	6510	6980	3830	2730	2840	4070	2850
30	4320	4540	e3410	e3570	---	6410	7680	3440	2770	3180	4030	2880
31	3860	---	e3460	e3780	---	6280	---	3180	---	2840	4050	---
TOTAL	117550	107880	155920	124100	114430	123300	215070	149450	89500	105630	120170	113250
MEAN	3792	3596	5030	4003	3946	3977	7169	4821	2983	3407	3876	3775
MAX	4740	4540	12100	4590	4650	6720	11000	7390	3960	4510	5760	5040
MIN	3100	3000	2740	2800	3090	2980	3780	3180	2390	2470	2750	2380

CAL YR 1987 TOTAL 1838280 MEAN 5036 MAX 52300 MIN 2280
WTR YR 1988 TOTAL 1536250 MEAN 4197 MAX 12100 MIN 2380

e Estimated

PENOBSCOT RIVER BASIN

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, Hydrologic Unit 01020003, on right bank at Gordon Lower Falls, 1.0 mi 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: Dec. 18 to Mar. 2, Mar. 5, 6, 11, 12, 20-23, 27-30, Jun. 18-22. Records fair, including periods of ice effect, Dec. 18 to Mar. 2, and Mar. 5, 6, 11, 12, 20-23, 27-30, and period of no gage-height record, June 18-22. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--54 years, 2,492 ft³/s, 23.86 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, 12,200 ft³/s, Apr. 6, gage height, 8.74 ft; minimum daily, 151 ft³/s, June 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1840	3450	e750	e650	e1030	10100	5740	1030	194	425	1730
2	1310	1700	8060	e710	e650	e980	10800	5680	920	307	362	1490
3	1310	1550	e9920	e690	e720	942	11500	5380	831	586	313	1250
4	1300	1440	e9890	e660	e875	905	11800	4920	753	719	295	1040
5	1630	1360	8890	e640	e990	e875	12100	4360	680	635	365	930
6	2110	1300	7510	e620	e1040	e835	12100	3860	616	489	423	963
7	2280	1240	6140	e600	e1060	804	12000	3440	547	384	393	1010
8	2400	1170	4870	e590	e1030	787	11500	2990	486	322	716	934
9	2780	1110	4080	e570	e960	760	10800	2650	441	345	1600	823
10	2920	1090	3650	e560	e900	756	9890	2350	412	522	1740	717
11	2740	1070	3420	e550	e870	e765	8980	2100	379	883	1410	627
12	2410	1030	3230	e540	e815	e775	8230	2100	355	1020	1080	537
13	2080	899	2940	e530	e780	786	7570	2210	343	959	848	460
14	1810	923	2680	e520	e740	783	6810	2130	320	863	699	419
15	1630	932	2210	e510	e730	767	5960	1880	303	841	793	396
16	1470	858	1970	e495	e710	751	5190	1690	287	814	1380	378
17	1320	820	1680	e490	e690	741	4800	1550	276	768	1760	354
18	1240	816	e1560	e480	e675	734	4960	1460	e280	690	1770	345
19	1150	879	e1480	e470	e660	747	5370	1410	e300	647	1510	427
20	1060	953	e1380	e460	e680	e775	5670	1350	e330	653	1220	541
21	1000	1050	e1300	e600	e850	e805	5680	1290	e360	688	995	573
22	982	1060	e1240	e750	e980	e790	5420	1230	e310	634	855	557
23	982	949	e1180	e850	e1080	e760	4930	1160	270	543	741	521
24	977	984	e1100	e910	e1180	746	4520	1130	247	492	643	486
25	995	978	e1050	e900	e1250	782	4570	1120	210	472	580	456
26	1190	968	e1000	e880	e1220	1010	5360	1220	198	443	648	425
27	1510	873	e950	e840	e1170	e2180	6060	1500	194	406	1110	396
28	1690	912	e900	e800	e1120	e4630	6140	1620	173	378	1380	364
29	1770	907	e860	e750	e1090	e7260	5800	1500	163	391	1280	343
30	1890	1030	e820	e700	---	e8740	5660	1300	151	439	1300	319
31	1940	---	e780	e670	---	9380	---	1150	---	470	1660	---
TOTAL	51016	32691	100190	20085	26165	53381	230270	73470	12165	17997	30294	19811
MEAN	1646	1090	3232	648	902	1722	7676	2370	405	581	977	660
MAX	2920	1840	9920	910	1250	9380	12100	5740	1030	1020	1770	1730
MIN	977	816	780	460	650	734	4520	1120	151	194	295	319
CFSM	1.16	.77	2.28	.46	.64	1.21	5.41	1.67	.29	.41	.69	.47
IN.	1.34	.86	2.63	.53	.69	1.40	6.04	1.93	.32	.47	.79	.52

CAL YR 1987 TOTAL 708968 MEAN 1942 MAX 23000 MIN 39 CFSM 1.37 IN. 18.60
WTR YR 1988 TOTAL 667535 MEAN 1824 MAX 12100 MIN 151 CFSM 1.29 IN. 17.51

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. 19-21, 28-30, Dec. 2-9, and Dec. 15 to Mar. 28. Records good except for periods of ice effect, Dec. 4-9 and Dec. 15 to Mar. 28, period of no gage-height record, Dec. 2-3, and periods of doubtful gage-height record, Nov. 19-21, and 28-30, 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.--86 years, 603 ft³/s, 27.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,300 ft³/s, Apr. 1, 1987, gage height, 22.62 ft, from rating curve extended above 20,000 ft³/s on basis of slope-area measurement; 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)
Dec. 1	1030	4,540	7.20	Mar. 28	2115	*7,010	8.76
Mar. 28	1600	ice jam	*9.35	Apr. 6	0400	4,100	6.71

Minimum discharge, 69 ft³/s, June 29, gage height, 1.86 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	485	3810	e215	e190	e205	1960	1100	187	86	188	601
2	214	400	e3100	e210	e245	e195	2320	1020	160	440	137	406
3	185	350	e2000	e200	e315	e190	2460	942	145	418	105	305
4	221	322	e1260	e190	e350	e180	2710	798	129	264	93	254
5	1080	304	e930	e185	e330	e175	3320	671	121	187	89	296
6	771	284	e725	e185	e300	e165	3800	573	189	140	82	331
7	516	256	e615	e180	e275	e160	3290	497	210	111	76	260
8	658	228	e500	e175	e255	e215	2610	434	158	96	158	216
9	630	222	e480	e170	e235	e235	2090	378	129	85	200	186
10	460	214	511	e170	e220	e215	2010	335	112	254	153	161
11	362	201	600	e165	e210	e200	2080	321	102	279	110	137
12	305	188	739	e160	e205	e190	1740	370	94	217	88	115
13	268	163	645	e160	e260	e185	1380	370	95	155	75	107
14	240	174	530	e155	e330	e175	1140	338	101	126	92	112
15	219	166	e445	e155	e315	e170	997	311	92	150	508	109
16	205	155	e345	e150	e290	e165	948	274	82	139	748	104
17	190	143	e330	e150	e265	e155	987	255	79	113	744	95
18	179	171	e320	e150	e245	e150	1230	242	97	126	495	100
19	168	e205	e345	e200	e235	e145	1460	243	94	137	323	137
20	157	e230	e390	e310	e305	e145	1340	248	79	124	229	132
21	154	e205	e405	e280	e350	e140	1070	288	79	116	193	134
22	206	179	e380	e235	e370	e135	906	285	89	120	200	194
23	239	174	e350	e210	e330	e130	839	251	103	131	175	165
24	228	178	e325	e200	e305	e125	837	244	116	109	144	142
25	249	171	e300	e185	e280	e145	1140	258	90	105	279	120
26	371	159	e280	e175	e255	e185	1110	570	84	100	670	105
27	328	185	e270	e170	e235	e635	950	531	85	97	460	94
28	348	e210	e255	e165	e225	e2890	822	399	77	119	324	87
29	1260	e260	e245	e155	e220	4300	979	305	73	123	277	80
30	872	e350	e235	e155	---	1610	1320	251	71	128	1000	76
31	631	---	e225	e155	---	1580	---	219	---	147	978	---
TOTAL	12064	6932	21890	5720	7945	15490	49845	13321	3322	4942	9393	5361
MEAN	389	231	706	185	274	500	1661	430	111	159	303	179
MAX	1260	485	3810	310	370	4300	3800	1100	210	440	1000	601
MIN	150	143	225	150	190	125	822	219	71	85	75	76
CFSM	1.31	.78	2.37	.62	.92	1.68	5.58	1.44	.37	.53	1.02	.60
IN.	1.51	.87	2.73	.71	.99	1.93	6.22	1.66	.41	.62	1.17	.67

CAL YR 1987 TOTAL 210725.2 MEAN 577 MAX 31700 MIN 6.5 CFSM 1.94 IN. 26.31
WTR YR 1988 TOTAL 156225 MEAN 427 MAX 4300 MIN 71 CFSM 1.43 IN. 19.50

e Estimated

WATER-QUALITY RECORDS

WATER TEMPERATURE: Maximum, 31.0°C, Aug. 6, 1988; minimum, 10.0°C, May 9, 1987, Sept. 10, 1988.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	19.5	18.0	18.5	27.5	23.0	25.0	18.5	16.0	17.0
2	---	---	---	19.0	15.5	18.0	29.0	24.0	26.5	20.0	16.0	18.0
3	---	---	---	19.5	15.5	17.5	27.0	24.0	25.5	19.5	16.5	18.0
4	---	---	---	22.5	15.5	19.0	29.5	24.5	27.0	18.0	17.5	17.5
5	---	---	---	24.5	18.0	21.0	29.5	26.5	28.0	19.0	16.0	17.5
6	---	---	---	24.5	20.5	22.5	31.0	26.5	28.5	17.5	15.0	16.0
7	---	---	---	27.0	22.0	24.5	28.0	25.5	26.5	17.0	14.0	15.5
8	---	---	---	28.5	23.5	26.0	28.5	24.5	26.5	17.5	13.0	15.0
9	---	---	---	30.5	26.0	27.5	26.5	24.0	25.5	17.5	13.5	15.5
10	---	---	---	27.5	24.5	26.0	26.5	23.5	25.5	19.0	16.0	17.5
11	---	---	---	26.5	23.0	25.0	27.5	23.0	25.5	17.0	15.0	16.0
12	---	---	---	27.0	23.0	25.0	28.5	24.5	26.5	18.5	14.5	16.5
13	---	---	---	27.5	23.0	25.5	26.5	24.5	25.5	17.0	15.0	16.0
14	26.0	20.0	23.0	25.0	22.5	24.0	26.0	22.5	24.0	16.0	14.0	15.5
15	28.5	22.5	25.5	26.5	21.5	24.0	23.0	20.0	22.0	15.5	13.5	14.5
16	28.0	24.0	26.0	23.0	21.0	22.0	20.0	19.5	20.0	17.0	12.0	14.5
17	24.5	21.5	22.5	23.0	21.0	22.0	21.0	19.0	20.0	15.5	12.5	14.0
18	26.0	20.5	23.0	26.5	21.0	23.5	23.0	19.5	21.0	15.0	14.0	14.0
19	26.0	21.0	23.5	24.0	22.0	23.0	23.0	19.0	20.5	16.5	13.5	15.0
20	26.0	21.0	24.0	26.5	21.0	24.0	21.5	18.0	20.0	17.0	14.0	15.5
21	26.5	23.0	24.5	24.0	22.0	23.0	20.0	18.0	19.0	17.5	15.5	16.5
22	24.5	21.5	23.5	26.5	21.0	23.5	21.0	16.5	18.5	17.5	15.0	16.5
23	25.0	21.5	23.5	27.0	21.5	24.5	19.5	15.5	17.5	15.0	14.0	14.5
24	24.0	19.0	21.5	24.5	22.0	23.0	18.5	15.5	17.0	17.0	13.0	15.0
25	21.5	17.5	19.5	23.5	21.5	22.5	17.0	15.5	16.0	15.5	11.5	13.5
26	21.0	17.0	19.0	24.0	21.5	23.0	16.0	15.0	15.5	15.5	11.5	13.5
27	23.5	17.5	20.5	23.5	21.5	22.5	19.5	15.5	17.0	14.0	11.5	13.0
28	24.0	19.0	21.5	24.5	21.5	23.0	20.0	17.0	18.5	14.0	12.0	13.0
29	24.0	20.0	22.0	26.5	21.0	24.0	19.0	18.0	19.0	14.0	10.0	12.0
30	21.5	19.5	20.5	27.5	22.0	25.0	19.0	17.0	18.0	12.5	11.0	12.0
31	---	---	---	26.5	23.0	25.0	17.5	16.5	17.0	---	---	---
MONTH	28.5	17.0	22.5	30.5	15.5	23.0	31.0	15.0	22.0	20.0	10.0	15.5
PERIOD	MAXIMUM	31.0	MINIMUM	10.0	MEAN	20.5						

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 downstream from highway bridge and dam at outlet of Sebec Lake at Sebec.

DRAINAGE AREA.--326 mi².

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: Aug. 15 to Sept. 21. Records good except for period of no gage-height record Aug. 15 to Sept. 21, which is fair. Considerable regulation by Sebec Lake on Sebec River, 1,000 feet upstream, capacity 2,511,000,000 ft³/s. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--62 years, 627 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, 1,960 ft³/s, Apr. 9, gage height, 5.19 ft, minimum daily, 27 ft³/s, Nov. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	673	782	768	139	239	338	1020	310	195	60	101	e840
2	736	619	1030	141	147	335	1060	272	117	82	66	e700
3	512	506	1080	141	147	335	1080	440	116	168	132	e740
4	419	414	1080	141	147	334	1110	782	116	92	175	e560
5	422	412	1100	141	147	336	1250	562	172	62	204	e165
6	420	409	1090	141	147	355	1660	440	520	64	108	e125
7	419	406	1070	141	156	352	1840	350	185	65	129	e210
8	684	403	1070	141	227	350	1920	313	120	71	122	e250
9	786	402	1060	141	227	348	1930	309	71	75	69	e265
10	726	399	987	141	227	342	1880	306	51	99	70	e625
11	500	397	940	144	227	355	1830	306	51	250	69	e770
12	417	394	989	161	300	351	1750	575	51	421	66	e770
13	623	391	943	141	330	351	1670	475	51	62	65	e770
14	672	148	926	140	359	350	1560	368	53	89	145	e755
15	442	283	897	140	386	192	1470	366	53	201	e400	e755
16	378	412	834	141	389	185	1420	362	53	120	e120	e995
17	153	409	863	141	389	172	1380	303	123	148	e475	e1020
18	37	290	640	141	389	95	1340	204	81	185	e475	e995
19	245	29	389	142	396	95	1210	131	54	189	e475	e960
20	322	304	388	243	395	231	1070	188	55	172	e185	e940
21	322	381	385	298	433	311	1060	494	227	216	e160	e850
22	269	397	383	278	545	228	817	471	87	178	e130	846
23	408	198	380	240	576	141	788	332	151	121	e66	775
24	401	27	379	222	405	141	1070	333	103	124	e165	664
25	405	28	376	219	330	141	1050	364	58	68	e470	574
26	416	30	284	246	333	187	1080	622	59	68	e490	394
27	410	297	249	311	342	255	1040	828	58	68	e475	494
28	411	452	166	287	340	304	1050	373	58	68	e475	530
29	417	471	144	287	339	467	923	203	58	69	e475	525
30	419	475	144	287	---	721	347	299	58	170	e920	412
31	680	---	143	287	---	905	---	368	---	258	e910	---
TOTAL	14144	10565	21177	5904	9014	9603	38675	12049	3205	4083	8387	19274
MEAN	456	352	683	190	311	310	1289	389	107	132	271	642
MAX	786	782	1100	311	576	905	1930	828	520	421	920	1020
MIN	37	27	143	139	147	95	347	131	51	60	65	125

CAL YR 1987 TOTAL 218603 MEAN 599 MAX 13100 MIN 27
WTR YR 1988 TOTAL 156080 MEAN 426 MAX 1930 MIN 27

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: Dec. 17 to Mar. 31. Records good except for period of ice effect, Dec. 17 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.--86 years (water years 1903 to current year), 11,887 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, 36,600 ft³/s, Apr. 6, gage height, 10.34 ft; maximum gage height, 14.95 ft, Mar. 29, (backwater from ice); minimum daily discharge, 3,060 ft³/s, June 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6510	8970	20200	e6400	e5520	e6280	29200	19900	5740	3490	4570	9320
2	7300	8680	39600	e6520	e6240	e6100	29600	18500	5570	4120	4160	8210
3	7080	7880	34900	e6270	e6230	e5930	31000	17900	4910	5190	3840	7260
4	7340	7000	27500	e6190	e6100	e6100	31800	17200	4870	5090	4000	6970
5	9160	6730	23800	e5280	e7080	e5880	34200	15800	4770	4740	4230	6080
6	11300	6570	20600	e4510	e6060	e6030	35800	13800	4970	4580	4880	6480
7	10900	6600	18000	e4590	e5980	e6290	34800	12900	4690	3470	4850	6620
8	10200	6250	15400	e5650	e6210	e5780	32800	11800	4630	3530	6540	6880
9	11400	6050	14300	e5880	e6110	e5960	30800	10900	4520	3740	7010	6480
10	11600	6200	13600	e5940	e5240	e6060	28200	9630	4260	4420	7010	6670
11	10600	5590	13200	e5480	e6000	e5640	26500	9290	4100	5400	6520	6690
12	9180	5800	13200	e5710	e5450	e5290	25100	9000	3940	6200	4860	6080
13	8560	5750	12800	e5660	e5700	e5380	22900	9490	4210	5890	4640	6610
14	8220	5540	11500	e5190	e5640	e5280	20900	9680	4090	5270	4760	5990
15	8120	5480	10600	e5590	e6170	e5290	18800	8930	3630	5000	6400	5970
16	6900	5500	9640	e5640	e6090	e5050	17200	8400	3610	5210	8770	5600
17	6510	5580	e8530	e5760	e5960	e4940	17900	8020	3960	4870	9780	5610
18	6130	5740	e7990	e5560	e6160	e5090	16100	8330	3710	5370	9040	5210
19	5710	6040	e7900	e5600	e5610	e4900	18600	8040	4310	4890	7870	5460
20	5850	6350	e8070	e5960	e6190	e5010	20000	7760	3300	4810	7100	5290
21	5750	6640	e8000	e7060	e7190	e4680	19700	7480	3910	5200	6120	5700
22	5830	6380	e8040	e7000	e6910	e4620	17500	7720	4740	5200	5870	5710
23	5910	6110	e8050	e6510	e7610	e4500	13700	7170	3390	5050	5410	5720
24	6240	5610	e8030	e6370	e7270	e5030	14100	7060	3320	4870	5100	5450
25	6240	5530	e5850	e6180	e7050	e5300	15600	7110	3260	4950	5090	5160
26	7030	6040	e7480	e5200	e6950	e7500	18400	7330	3170	5500	5590	4980
27	8240	6040	e6830	e5750	e7210	e15400	20000	8590	3060	5000	6630	5660
28	8160	6120	e6850	e5300	e6400	e31100	19100	8590	3140	3860	6930	4360
29	8930	6050	e6640	e5510	e6660	e36000	18400	8000	3230	3830	7270	4090
30	10500	7130	e5560	e5580	---	e25200	19200	6930	3370	4510	7290	4450
31	9880	---	e5530	e5580	---	e26100	---	5830	---	4470	9260	---
TOTAL	251280	189950	408190	179420	182990	277710	697900	317080	122380	147720	191390	180760
MEAN	8106	6332	13170	5788	6310	8958	23260	10230	4079	4765	6174	6025
MAX	11600	8970	39600	7060	7610	36000	35800	19900	5740	6200	9780	9320
MIN	5710	5480	5530	4510	5240	4500	13700	5830	3060	3470	3840	4090
CFSM	1.22	.95	1.97	.87	.95	1.34	3.49	1.53	.61	.71	.93	.90
IN.	1.40	1.06	2.28	1.00	1.02	1.55	3.89	1.77	.68	.82	1.07	1.01

CAL YR 1987 TOTAL 3858100 MEAN 10570 MAX 141000 MIN 2780 CFSM 1.58 IN. 21.51
WTR YR 1988 TOTAL 3146770 MEAN 8598 MAX 39600 MIN 3060 CFSM 1.29 IN. 17.55

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: Dec. 19 to Mar. 29, May 28-31, July 13-17, and Aug. 2-5. Records fair including period of ice effect, Dec. 19 to Mar. 29, periods of doubtful gage-height record, May 28-31, July 13-17, Aug. 2-5, and period of no gage-height record, Mar. 12-21. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin).

AVERAGE DISCHARGE.--9 years, 13,901 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, 40,200 ft³/s, Dec. 2, gage height, 11.54 ft; minimum daily discharge, 3,650 ft³/s, June 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7710	10700	16000	e6360	e5910	e7470	34400	22100	6610	3930	5130	10800
2	7690	10000	35500	e7190	e6220	e7030	33900	21400	6980	5160	e4660	10400
3	8380	9430	38400	e7290	e7140	e6820	34700	20400	6110	5480	e4230	9290
4	8660	8870	32600	e7000	e7390	e6630	35700	20100	5980	6130	e4340	8240
5	9540	8560	28300	e6890	e7380	e6760	37000	18600	5480	6110	e4560	7740
6	11400	8260	25100	e5960	e8290	e6520	39000	17000	5780	5760	5240	6810
7	12700	7690	22500	e5190	e7160	e6640	38800	15600	6140	5510	5520	7720
8	12300	7580	19400	e5250	e6990	e6880	36900	14200	5040	4210	5760	7380
9	12300	7090	17500	e6290	e7150	e6570	34800	12600	6160	4230	7900	7480
10	13100	7360	16700	e6500	e6970	e6820	31700	11400	5040	4490	7970	7160
11	12500	7050	15900	e6560	e6050	e6850	29900	11100	4360	5490	7690	7420
12	11300	6680	15600	e6090	e6770	e6370	28300	11100	4900	6640	6410	7350
13	10200	6790	15300	e6300	e6200	e5990	26900	11000	4860	e6460	4910	6420
14	9720	6550	14000	e6250	e6650	e6060	24000	11700	4970	e5730	4990	7090
15	9400	6540	12900	e5760	e6850	e5920	21800	11200	4540	e5550	5690	6320
16	8910	6340	10700	e6160	e7330	e5910	20400	10900	4110	e5720	8450	6270
17	8060	6440	7830	e6190	e7150	e5660	19500	10200	4300	e5280	10200	5990
18	7630	6640	9160	e6310	e6930	e5510	19400	9850	5380	5960	10500	6010
19	6760	6870	e9160	e6110	e7060	e5640	21400	10100	4570	6570	9520	5750
20	6290	7410	e9170	e6730	e6470	e5430	23000	9240	5370	5420	8500	5970
21	6740	7630	e9500	e7100	e7310	e5540	22600	9160	3860	5290	7640	5690
22	6730	7930	e9490	e8090	e8470	e5190	20600	9020	4990	6110	6300	6200
23	6680	7170	e9430	e7860	e8270	e5120	16900	8660	5590	5200	6550	6130
24	7010	7170	e9330	e7280	e8820	e5520	15900	7790	4200	5700	5430	6070
25	7150	6530	e9220	e7200	e8390	e5230	17200	8390	4400	5410	5390	5650
26	7380	6950	e6950	e7020	e8080	e5830	20100	8670	4130	5830	5420	5190
27	8580	6470	e8510	e6100	e7890	e8180	22300	9400	3680	5850	6340	5770
28	9390	6210	e7820	e6860	e8070	e17900	21400	e10100	3650	5350	6990	5570
29	9560	6440	e7790	e5810	e7230	e28300	20800	e9120	3910	4350	7640	4340
30	10800	7830	e7540	e6300	---	33800	20900	e7850	3730	4600	8140	4530
31	11500	---	e6420	e5970	---	34700	---	e6630	---	6230	9230	---
TOTAL	286070	223180	463720	201970	210590	282790	790200	374580	148820	169750	207240	202750
MEAN	9228	7439	14960	6515	7262	9122	26340	12080	4961	5476	6685	6758
MAX	13100	10700	38400	8090	8820	34700	39000	22100	6980	6640	10500	10800
MIN	6290	6210	6420	5190	5910	5120	15900	6630	3650	3930	4230	4340

CAL YR 1987 TOTAL 4420720 MEAN 12110 MAX 155000 MIN 2780
WTR YR 1988 TOTAL 3561660 MEAN 9731 MAX 39000 MIN 3650

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 TEMPERATURE: 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 periods. 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 TEMPERATURE: Maximum, 28.0°C, July 30, 1979, Aug. 6, 7, 1988; minimum, 0.0°C, on many days during winter periods.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)
OCT 23...	5930	62	7.3	--	9.0	1.2	780	11.8	100	>300	100
FEB 02...	E 6220	62	7.1	10.0	0.5	1.5	760	14.0	97	79	28
APR 18...	18300	49	7.0	12.0	5.0	0.7	750	13.0	103	200	K 20
AUG 29...	E 7640	61	7.3	23.0	21.0	2.0	760	8.6	97	32	K 35

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)
OCT 23...	20	6.1	1.2	3.9	0.7	14	0	11	13	13	13	4.2
FEB 02...	21	6.1	1.3	3.3	0.7	16	0	13	14	13	14	4.0
APR 18...	15	4.6	0.96	2.8	0.5	12	0	10	11	10	11	3.7
AUG 29...	22	6.4	1.4	4.5	0.7	17	0	14	16	15	14	5.3

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 1987 TO SEPTEMBER 1988

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)	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)	
OCT 23...	0.1	3.4	48	41	<0.10	0.03	0.04	0.2	0.02	0.01	<0.01	
FEB 02...	0.3	4.7	51	44	0.17	0.05	0.06	0.5	0.02	0.01	<0.01	
APR 18...	0.1	3.8	40	34	<0.10	0.06	0.08	0.3	0.02	0.01	0.01	
AUG 29...	0.1	1.4	44	44	<0.10	0.04	0.05	0.8	0.03	0.02	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)
OCT 23...	60	<1	8	<0.5	<1	<1	<3	3	98	<5	<4	15
FEB 02...	50	1	8	<0.5	<1	<1	<3	2	92	<5	<4	13
APR 18...	80	<1	8	<0.5	<1	<1	<3	9	80	<5	<4	16
AUG 29...	30	<1	9	1	<1	<1	<3	<1	94	<5	<4	12
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, DIS- SUSPENDED (MG/L)	SEDIMENT, DIS- CHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
OCT 23...	<0.1	<10	4	<1	<1.0	30	<6	8	6	96	48	
FEB 02...	<0.1	<10	<1	<1	<1.0	29	<6	9	10	168	68	
APR 18...	<0.1	<10	2	<1	<1.0	22	<6	31	18	889	60	
AUG 29...	--	<10	1	<1	1.0	31	<6	11	8	165	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)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRACTION (UG/L)			
OCT 23...	--	--	--	--	--	--	--	--	--			
FEB 02...	--	--	--	--	--	--	--	--	--			
APR 18...	<0.4	<0.4	1.0	0.5	0.9	0.5	0.05	--	--			
AUG 29...	<0.4	<0.4	1.3	<0.4	1.1	<0.4	0.04	--	--			

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

[illegible]

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	65	60	63	80	77	79	77	74	76	56	52	53
2	69	62	66	77	75	76	76	73	75	57	51	54
3	71	65	68	75	70	73	80	73	76	58	55	56
4	73	68	71	72	70	71	80	74	77	58	55	56
5	75	66	70	72	70	72	79	75	77	59	55	56
6	78	72	76	73	70	72	78	73	75	63	58	60
7	82	71	78	73	71	72	77	74	76	62	59	61
8	79	72	77	77	71	73	78	74	76	61	60	60
9	76	67	72	85	75	79	76	70	72	64	60	62
10	73	66	68	81	78	79	72	66	69	65	63	63
11	76	66	70	78	66	75	71	68	70	65	63	64
12	76	71	74	65	60	52	72	68	70	64	63	63
13	78	71	73	73	66	71	73	70	71	65	61	63
14	80	76	78	77	71	74	72	71	71	62	60	61
15	81	75	77	76	73	74	73	70	72	63	61	62
16	---	---	---	72	68	70	73	62	67	63	59	61
17	---	---	---	70	67	68	62	59	61	69	64	66
18	---	---	---	69	66	68	60	57	58	66	63	65
19	---	---	---	73	67	69	60	57	59	66	63	64
20	---	---	---	73	69	71	61	57	59	68	60	63
21	---	---	---	73	67	70	61	57	59	66	62	63
22	---	---	---	76	72	74	67	58	63	66	63	64
23	---	---	---	86	74	78	66	62	64	63	60	62
24	---	---	---	79	75	77	63	62	63	63	61	62
25	79	74	76	77	75	76	65	63	64	65	61	63
26	78	74	76	77	72	74	64	62	63	67	64	65
27	76	72	74	74	72	73	65	62	64	67	64	65
28	81	72	74	75	71	73	65	63	64	67	63	65
29	83	76	79	79	75	76	64	62	62	69	66	68
30	84	77	81	81	76	79	62	57	59	72	67	69
31	---	---	---	77	75	76	59	55	57	---	---	---
MONTH	84	60	73	86	60	73	80	55	67	72	51	62
PERIOD	MAXIMUM 86	MINIMUM 42	MEAN 62									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.4	7.5	7.1	7.0	7.0	6.9	6.9	6.9	7.0	6.8	6.9
2	7.5	7.4	7.4	7.0	7.0	7.0	7.0	6.9	6.9	7.0	6.8	6.9
3	7.5	7.4	7.4	7.1	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.9
4	7.5	7.4	7.4	7.1	6.9	7.0	6.9	6.9	6.9	6.9	6.8	6.8
5	7.4	7.4	7.4	7.1	6.9	7.0	7.0	6.9	6.9	6.9	6.8	6.9
6	7.5	7.4	7.4	7.1	6.9	7.0	9.1	6.8	7.2	6.9	6.8	6.8
7	7.4	7.3	7.4	7.1	6.9	7.0	9.0	6.8	7.5	6.8	6.7	6.8
8	7.4	7.3	7.4	7.1	7.0	7.0	6.8	6.8	6.8	6.8	6.8	6.8
9	7.4	7.3	7.3	7.1	6.9	7.0	6.9	6.8	6.8	6.8	6.7	6.8
10	7.4	7.3	7.3	7.0	6.9	6.9	6.9	6.8	6.9	6.8	6.7	6.8
11	7.3	7.2	7.3	7.0	6.9	7.0	6.9	6.8	6.8	6.9	6.7	6.8
12	7.3	7.2	7.3	7.0	6.8	6.9	6.8	6.7	6.8	6.9	6.8	6.9
13	7.2	7.1	7.1	7.1	6.8	7.0	6.8	6.7	6.8	6.9	6.9	6.9
14	7.2	7.1	7.1	7.0	6.9	7.0	6.8	6.7	6.8	6.9	6.8	6.9
15	7.3	7.0	7.2	7.1	6.9	7.0	6.9	6.8	6.8	6.9	6.8	6.9
16	---	---	---	7.0	6.9	6.9	6.9	6.8	6.9	7.1	6.9	7.0
17	---	---	---	6.9	6.8	6.9	7.0	6.9	6.9	7.1	7.0	7.1
18	---	---	---	6.9	6.8	6.8	7.0	6.9	6.9	7.1	6.9	7.0
19	---	---	---	6.9	6.8	6.8	7.0	6.9	7.0	7.0	6.9	6.9
20	---	---	---	6.9	6.8	6.9	7.0	6.9	6.9	7.0	6.8	6.9
21	---	---	---	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.8	6.8
22	---	---	---	6.9	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.9
23	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9	6.9	6.8	6.9
24	---	---	---	6.9	6.8	6.9	7.0	6.8	6.9	7.0	6.8	6.9
25	7.3	7.1	7.2	6.8	6.8	6.8	6.9	6.9	6.9	7.0	6.9	7.0
26	7.3	7.1	7.2	6.8	6.8	6.8	6.9	6.8	6.9	7.0	6.9	7.0
27	7.3	7.1	7.2	6.8	6.8	6.8	7.2	6.9	7.0	7.1	6.9	7.0
28	7.2	7.1	7.2	6.8	6.8	6.8	7.1	6.9	7.0	7.1	6.9	7.0
29	7.2	7.1	7.1	6.9	6.8	6.9	7.1	6.8	6.9	7.1	7.0	7.0
30	7.2	7.1	7.1	6.9	6.8	6.9	7.1	6.8	6.9	7.1	7.0	7.0
31	---	---	---	6.9	6.8	6.9	7.1	6.8	7.0	---	---	---
MONTH	7.5	7.0	7.3	7.1	6.8	6.9	9.1	6.7	6.9	7.1	6.7	6.9

PERIOD MAXIMUM 9.1 MINIMUM 6.6 MEAN 7.0

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
2	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
3	---	---	---	---	---	---	---	---	---	7.5	7.5	7.5
4	---	---	---	---	---	---	---	---	---	8.0	8.0	8.0
5	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
6	---	---	---	---	---	---	---	---	---	10.5	10.5	10.5
7	---	---	---	---	---	---	---	---	---	12.0	12.0	12.0
8	---	---	---	---	---	---	---	---	---	12.0	12.0	12.0
9	---	---	---	---	---	---	---	---	---	13.0	13.0	13.0
10	---	---	---	---	---	---	---	---	---	13.0	13.0	13.0
11	---	---	---	---	---	---	---	---	---	13.0	13.0	13.0
12	---	---	---	---	---	---	---	---	---	13.0	13.0	13.0
13	---	---	---	---	---	---	---	---	---	14.0	14.0	14.0
14	---	---	---	---	---	---	---	---	---	15.0	15.0	15.0
15	---	---	---	---	---	---	---	---	---	15.0	15.0	15.0
16	---	---	---	---	---	---	---	---	---	15.0	15.0	15.0
17	---	---	---	---	---	---	---	---	---	15.5	15.5	15.5
18	---	---	---	---	---	---	---	---	---	16.0	16.0	16.0
19	---	---	---	---	---	---	---	---	---	15.5	15.5	15.5
20	---	---	---	---	---	---	---	---	---	16.0	16.0	16.0
21	---	---	---	---	---	---	---	---	---	16.0	16.0	16.0
22	---	---	---	---	---	---	---	---	---	17.0	17.0	17.0
23	---	---	---	---	---	---	---	---	---	17.5	17.5	17.5
24	---	---	---	---	---	---	---	---	---	19.0	19.0	19.0
25	---	---	---	---	---	---	---	---	---	17.5	17.5	17.5
26	---	---	---	---	---	---	---	---	---	15.5	15.5	15.5
27	---	---	---	---	---	---	---	---	---	15.0	15.0	15.0
28	---	---	---	---	---	---	---	---	---	15.5	15.5	15.5
29	---	---	---	---	---	---	---	---	---	17.5	17.5	17.5
30	---	---	---	---	---	---	---	---	---	18.5	18.5	18.5
31	---	---	---	---	---	---	---	---	---	18.5	18.5	18.5
MONTH	---	---	---	---	---	---	---	---	---	19.0	7.5	14.0

PENOBSCOT RIVER BASIN

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	18.5	18.5	20.5	20.5	20.5	26.0	26.0	26.0	20.0	20.0	20.0
2	17.5	17.5	17.5	20.5	20.5	20.5	26.0	26.0	26.0	20.0	20.0	20.0
3	17.0	17.0	17.0	20.0	20.0	20.0	26.5	26.5	26.5	20.5	20.5	20.5
4	17.5	17.5	17.5	20.5	20.5	20.5	26.5	26.5	26.5	20.5	20.5	20.5
5	17.5	17.5	17.5	21.5	21.5	21.5	27.5	27.5	27.5	19.5	19.5	19.5
6	17.5	17.5	17.5	23.0	23.0	23.0	28.0	28.0	28.0	19.0	19.0	19.0
7	18.0	18.0	18.0	24.5	24.5	24.5	28.0	28.0	28.0	18.0	18.0	18.0
8	17.5	17.5	17.5	25.5	25.5	25.5	27.5	27.5	27.5	17.5	17.5	17.5
9	17.0	17.0	17.0	26.5	26.5	26.5	27.0	27.0	27.0	18.0	18.0	18.0
10	17.0	17.0	17.0	27.0	27.0	27.0	27.0	27.0	27.0	19.0	19.0	19.0
11	17.0	17.0	17.0	27.0	27.0	27.0	27.0	27.0	27.0	19.0	19.0	19.0
12	18.0	18.0	18.0	27.0	27.0	27.0	27.0	27.0	27.0	18.5	18.5	18.5
13	19.5	19.5	19.5	27.0	27.0	27.0	27.5	27.5	27.5	18.0	18.0	18.0
14	21.5	21.5	21.5	26.5	26.5	26.5	27.0	27.0	27.0	17.5	17.5	17.5
15	22.5	22.5	22.5	25.5	25.5	25.5	25.5	25.5	25.5	17.0	17.0	17.0
16	---	---	---	24.5	24.5	24.5	23.5	23.5	23.5	16.0	16.0	16.0
17	---	---	---	24.0	24.0	24.0	23.0	23.0	23.0	16.0	16.0	16.0
18	---	---	---	24.0	24.0	24.0	23.0	23.0	23.0	16.0	16.0	16.0
19	---	---	---	25.0	25.0	25.0	22.0	22.0	22.0	16.0	16.0	16.0
20	---	---	---	24.5	24.5	24.5	21.5	21.5	21.5	16.5	16.5	16.5
21	---	---	---	24.5	24.5	24.5	21.5	21.5	21.5	17.0	17.0	17.0
22	---	---	---	24.0	24.0	24.0	20.5	20.5	20.5	17.5	17.5	17.5
23	---	---	---	24.0	24.0	24.0	20.0	20.0	20.0	16.5	16.5	16.5
24	---	---	---	24.5	24.5	24.5	20.0	20.0	20.0	16.0	16.0	16.0
25	21.0	21.0	21.0	24.5	24.5	24.5	19.5	19.5	19.5	15.5	15.5	15.5
26	20.5	20.5	20.5	24.0	24.0	24.0	19.5	19.5	19.5	15.5	15.5	15.5
27	20.5	20.5	20.5	23.5	23.5	23.5	20.0	20.0	20.0	15.5	15.5	15.5
28	21.0	21.0	21.0	23.5	23.5	23.5	20.5	20.5	20.5	15.5	15.5	15.5
29	21.0	21.0	21.0	23.5	23.5	23.5	21.5	21.5	21.5	15.0	15.0	15.0
30	21.0	21.0	21.0	24.5	24.5	24.5	21.0	21.0	21.0	14.5	14.5	14.5
31	---	---	---	25.5	25.5	25.5	20.0	20.0	20.0	---	---	---
MONTH	22.5	17.0	19.0	27.0	20.0	24.0	28.0	19.5	24.0	20.5	14.5	17.5
PERIOD	MAXIMUM 28.0 MINIMUM 1.5 MEAN 17.0											

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.6	10.5	10.5	11.5	11.4	11.4	---	---	---	---	---	---
2	11.0	10.5	10.8	11.7	11.5	11.6	---	---	---	---	---	---
3	11.1	10.9	11.0	11.6	11.4	11.5	---	---	---	---	---	---
4	11.1	10.9	11.0	11.6	11.4	11.5	---	---	---	---	---	---
5	11.5	11.1	11.3	11.5	11.4	11.5	---	---	---	---	---	---
6	11.6	11.3	11.5	11.9	11.5	11.7	---	---	---	---	---	---
7	11.6	11.4	11.5	12.0	11.7	11.9	---	---	---	---	---	---
8	11.5	11.2	11.4	12.3	12.0	12.2	---	---	---	---	---	---
9	11.9	11.4	11.7	12.6	12.3	12.4	---	---	---	---	---	---
10	12.2	11.9	12.1	12.8	12.5	12.6	---	---	---	---	---	---
11	12.5	12.3	12.4	12.8	12.6	12.7	---	---	---	---	---	---
12	12.6	12.4	12.5	12.8	12.7	12.7	---	---	---	---	---	---
13	12.9	12.5	12.7	13.1	12.8	13.0	---	---	---	---	---	---
14	13.1	12.7	12.9	13.2	13.1	13.2	---	---	---	---	---	---
15	13.0	12.6	12.8	13.5	13.2	13.4	---	---	---	---	---	---
16	13.0	12.6	12.8	13.7	13.5	13.6	---	---	---	---	---	---
17	12.7	9.8	11.1	---	---	---	---	---	---	---	---	---
18	9.8	9.5	9.6	---	---	---	---	---	---	---	---	---
19	9.7	9.5	9.5	---	---	---	---	---	---	---	---	---
20	9.6	9.5	9.5	---	---	---	---	---	---	---	---	---
21	9.5	9.3	9.4	---	---	---	---	---	---	---	---	---
22	9.5	9.4	9.5	---	---	---	---	---	---	---	---	---
23	9.8	9.6	9.7	---	---	---	---	---	---	---	---	---
24	10.0	9.6	9.9	---	---	---	---	---	---	---	---	---
25	10.1	9.9	10.0	---	---	---	---	---	---	---	---	---
26	10.4	10.0	10.2	---	---	---	---	---	---	---	---	---
27	10.7	10.3	10.5	---	---	---	---	---	---	---	---	---
28	10.6	10.5	10.6	---	---	---	---	---	---	---	---	---
29	10.8	10.5	10.6	---	---	---	---	---	---	---	---	---
30	11.1	10.7	10.9	---	---	---	---	---	---	---	---	---
31	11.4	11.0	11.2	---	---	---	---	---	---	---	---	---
MONTH	13.1	9.3	11.0	13.7	11.4	12.3	---	---	---	---	---	---

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.4	9.1	9.2	8.1	8.0	8.1	7.8	7.5	7.6	9.3	8.9	9.1
2	9.2	8.9	9.1	8.1	8.0	8.1	7.8	7.4	7.6	9.3	8.9	9.1
3	9.2	8.9	9.1	8.4	8.1	8.2	7.7	7.1	7.4	9.1	8.8	9.0
4	9.2	9.0	9.1	8.5	8.1	8.3	7.3	7.0	7.1	9.0	8.8	9.0
5	9.0	8.7	8.9	8.3	8.0	8.1	7.1	7.0	7.1	9.1	8.9	9.0
6	8.7	8.4	8.5	8.1	7.8	8.0	7.1	6.8	7.0	9.2	8.8	8.9
7	8.6	8.2	8.4	7.8	7.6	7.7	6.9	6.7	6.8	9.2	8.8	9.0
8	8.6	8.2	8.4	7.7	7.4	7.6	7.0	6.7	6.8	9.2	9.0	9.2
9	8.7	8.3	8.5	7.4	7.0	7.2	7.2	6.9	7.1	9.4	9.1	9.2
10	8.7	8.4	8.6	7.2	6.9	7.0	7.5	6.9	7.2	9.2	8.9	9.1
11	8.8	8.4	8.6	7.4	6.9	7.1	7.3	7.0	7.2	9.2	8.9	9.0
12	8.6	8.4	8.5	7.6	7.0	7.2	7.3	6.9	7.1	9.2	9.0	9.2
13	8.4	8.2	8.3	7.6	6.9	7.3	7.2	6.9	7.1	9.3	9.1	9.2
14	8.3	8.1	8.2	7.5	7.0	7.3	7.2	7.0	7.1	9.5	9.3	9.3
15	8.3	7.8	8.0	7.8	7.1	7.4	7.5	7.0	7.1	9.7	9.3	9.5
16	---	---	---	7.5	7.4	7.5	8.3	7.2	7.8	10.2	9.6	9.9
17	---	---	---	7.5	7.3	7.4	8.3	8.1	8.3	10.0	9.8	10.0
18	---	---	---	7.6	7.3	7.5	8.3	8.1	8.2	9.9	9.7	9.8
19	---	---	---	7.5	7.2	7.3	8.5	8.3	8.5	9.7	9.5	9.7
20	---	---	---	7.6	7.3	7.4	8.5	8.2	8.3	9.8	9.5	9.6
21	---	---	---	7.4	7.1	7.3	8.6	8.2	8.4	9.6	9.3	9.4
22	---	---	---	7.4	7.1	7.3	8.7	8.2	8.4	9.5	9.3	9.4
23	---	---	---	7.5	7.2	7.3	8.5	8.2	8.4	9.5	9.3	9.4
24	---	---	---	7.2	7.0	7.1	8.7	8.3	8.5	9.8	9.4	9.6
25	8.3	8.0	8.1	7.2	6.9	7.0	8.6	7.5	8.0	9.9	9.7	9.8
26	8.5	8.1	8.3	7.3	7.1	7.2	8.8	8.5	8.7	10.0	9.7	9.9
27	8.6	8.1	8.4	7.4	7.2	7.3	9.2	8.7	8.9	10.2	9.9	10.0
28	8.6	8.4	8.5	7.6	7.3	7.4	9.0	8.6	8.8	10.1	9.8	10.0
29	8.3	8.1	8.2	7.6	7.4	7.5	8.8	8.5	8.6	10.3	9.9	10.1
30	8.3	8.1	8.2	7.5	7.3	7.4	9.0	8.4	8.8	10.3	10.0	10.2
31	---	---	---	7.7	7.2	7.4	9.1	8.8	9.0	---	---	---
MONTH	9.4	7.8	8.5	8.5	6.9	7.5	9.2	6.7	7.8	10.3	8.8	9.5
PERIOD	MAXIMUM	13.7	MINIMUM	6.7	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 1987 TO SEPTEMBER 1988

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, 1987.....	29,622	2,015	1,121
Oct. 31.....	27,659	1,762	1,093
Nov. 30.....	24,598	2,145	876
Dec. 31.....	25,396	3,352	1,284
Jan. 31, 1988.....	19,854	2,547	1,393
Feb. 29.....	13,527	2,044	1,093
Mar. 31.....	8,721	1,380	1,202
Apr. 30.....	30,508	5,276	1,720
May 31.....	35,452	5,867	1,984
June 30.....	31,057	5,153	1,984
July 31.....	27,659	5,007	1,984
Aug. 31.....	29,865	4,356	2,042
Sept. 30.....	25,879	2,223	1,039

* 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 SHEEPSHOT 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. 30, 31, Jan. 3, 6-19, 23, 24, 27-30, and Feb. 3-19, 21, 22. Records good except for periods of ice effect, Dec. 30, 31, Jan. 3, 6-19, 23, 24, 27-30, and Feb. 3-19, 21, 22, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--50 years, 248 ft³/s, 23.19 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. 1	1000	*1,260	*5.35	No other peak greater than base discharge.			

Minimum discharge, 16 ft³/s, Sept. 30, gage height, 1.81 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	102	1190	175	96	230	789	464	190	38	35	66
2	54	100	1020	169	129	213	717	465	168	38	33	53
3	50	97	951	e155	e170	199	657	445	149	37	31	47
4	56	99	888	148	e160	190	610	410	133	36	28	45
5	72	100	794	145	e150	178	616	378	121	33	26	68
6	68	100	649	e135	e145	167	627	335	114	30	25	70
7	59	94	526	e125	e135	164	585	296	103	30	25	50
8	96	89	438	e120	e130	166	549	261	88	30	27	41
9	91	88	395	e115	e125	166	510	230	85	29	29	37
10	72	87	360	e110	e120	206	472	208	78	29	30	34
11	65	84	353	e105	e115	224	459	203	72	33	27	32
12	62	83	375	e99	e115	191	424	251	67	32	25	30
13	60	81	327	e94	e110	181	379	226	62	28	24	28
14	56	82	299	e91	e110	169	343	200	58	26	25	27
15	53	88	277	e86	e105	166	302	184	55	25	27	25
16	50	88	270	e83	e105	174	305	169	51	25	27	24
17	48	85	264	e81	e105	199	364	162	64	26	31	22
18	46	92	243	e80	e105	216	433	159	109	29	29	22
19	44	96	228	e98	e100	215	441	151	84	28	26	23
20	42	95	215	112	230	217	389	145	67	26	24	23
21	41	105	209	112	e340	180	369	141	60	27	24	23
22	48	100	200	111	e325	167	363	135	55	47	25	23
23	49	93	190	e110	304	160	353	125	54	51	23	22
24	47	90	181	e99	317	167	351	122	53	47	22	21
25	51	89	219	95	319	198	396	234	51	44	29	20
26	59	100	303	107	306	268	355	417	53	41	31	19
27	54	105	268	e110	291	850	322	316	53	44	34	18
28	86	109	243	e105	271	963	305	271	47	55	32	17
29	139	100	222	e99	249	871	545	253	44	54	32	17
30	113	349	e200	e98	---	873	525	232	41	45	84	16
31	104	---	e180	93	---	838	---	210	---	39	100	---
TOTAL	1989	3070	12477	3465	5282	9366	13855	7798	2429	1102	990	963
MEAN	64.2	102	402	112	182	302	462	252	81.0	35.5	31.9	32.1
MAX	139	349	1190	175	340	963	789	465	190	55	100	70
MIN	41	81	180	80	96	160	302	122	41	25	22	16
CFSM	.44	.71	2.78	.77	1.26	2.08	3.19	1.73	.56	.25	.22	.22
IN.	.51	.79	3.20	.89	1.36	2.40	3.55	2.00	.62	.28	.25	.25

CAL YR 1987 TOTAL 85924 MEAN 235 MAX 6690 MIN 18 CFSM 1.62 IN. 22.04
WTR YR 1988 TOTAL 62786 MEAN 172 MAX 1190 MIN 16 CFSM 1.18 IN. 16.11

e Estimated

KENNEBEC RIVER BASIN

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, Hydrologic Unit 01030001, on 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, 17.11 ft, Sept. 23; minimum observed, 12.84 ft, Mar. 26.

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, IN FEET, AT 0700, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.10	15.46	15.67	16.50	15.67	14.32	13.10	15.26	16.45	16.80	16.85	17.10
2	15.10	15.47	15.75	16.52	15.66	14.26	13.16	15.34	16.45	16.80	16.83	17.11
3	15.07	15.44	15.81	16.52	15.60	14.20	13.23	15.40	16.43	16.80	16.82	17.11
4	15.10	15.48	15.86	16.52	15.57	14.18	13.32	15.44	16.43	16.83	16.85	17.10
5	15.25	15.48	15.88	16.52	15.50	14.14	13.46	15.46	16.44	16.84	16.81	17.09
6	15.23	15.50	15.91	16.49	15.48	14.06	13.60	15.48	16.48	16.86	16.81	17.05
7	15.23	15.48	15.93	16.46	15.44	14.01	13.74	15.50	16.47	16.87	16.87	17.02
8	15.27	15.45	15.96	16.44	15.36	13.91	13.78	15.51	16.45	16.88	16.84	16.96
9	15.30	15.46	15.98	16.39	15.28	13.86	13.85	15.54	16.43	16.88	16.85	16.90
10	15.32	15.47	16.06	16.40	15.26	13.78	13.92	15.54	16.41	16.92	16.82	16.86
11	15.30	15.47	16.06	16.38	15.21	13.72	14.00	15.58	16.42	16.94	16.80	16.80
12	15.31	15.47	16.11	16.32	15.15	13.67	14.10	15.66	16.40	16.97	16.77	16.73
13	15.34	15.43	16.16	16.30	15.11	13.62	14.16	15.71	16.43	16.98	16.73	16.64
14	15.31	15.45	16.16	16.28	15.11	13.60	14.20	15.76	16.45	16.97	16.70	16.60
15	15.32	15.45	16.21	16.22	15.04	13.57	14.24	15.80	16.50	17.01	16.82	16.60
16	15.33	15.38	16.32	16.20	15.04	13.50	14.31	15.85	16.49	17.01	16.92	16.58
17	15.31	15.38	16.34	16.20	14.98	13.44	14.39	15.85	16.49	17.03	16.98	16.58
18	15.31	15.37	16.34	16.20	14.93	13.36	14.44	15.86	16.52	17.03	17.00	16.59
19	15.32	15.41	16.34	16.12	14.85	13.31	14.53	15.92	16.53	17.03	17.01	16.62
20	15.33	15.38	16.40	16.11	14.83	13.24	14.60	16.00	16.53	17.06	17.03	16.64
21	15.34	15.41	16.47	16.01	14.84	13.18	14.63	16.07	16.53	17.05	17.02	16.64
22	15.36	15.40	16.43	16.02	14.74	13.10	14.68	16.12	16.54	17.04	17.07	16.66
23	15.35	15.40	16.46	15.97	14.67	13.00	14.76	16.18	16.57	17.03	17.07	16.70
24	15.34	15.35	16.48	15.94	14.62	12.97	14.78	16.21	16.60	17.02	17.05	16.70
25	15.35	15.36	16.49	15.90	14.62	12.88	14.89	16.20	16.57	17.00	17.03	16.70
26	15.40	15.44	16.49	15.91	14.55	12.84	14.96	16.27	16.57	16.96	17.02	16.72
27	15.36	15.45	16.54	15.91	14.49	12.89	15.01	16.32	16.57	16.93	17.04	16.75
28	15.35	15.48	16.52	15.86	14.42	12.94	15.07	16.36	16.59	16.92	17.04	16.76
29	15.41	15.44	16.54	15.80	14.38	12.97	15.18	16.40	16.65	16.90	17.06	16.78
30	15.43	15.46	16.50	15.76	---	13.00	15.20	16.40	16.67	16.90	17.08	16.80
31	15.45	---	16.51	15.70	---	13.05	---	16.43	---	16.87	17.07	---
MAX	15.45	15.50	16.54	16.52	15.67	14.32	15.20	16.43	16.67	17.06	17.08	17.11
MIN	15.07	15.35	15.67	15.70	14.38	12.84	13.10	15.26	16.40	16.80	16.70	16.58
*	17,172	17,844	20,500	17,844	13,544	9,690	16,532	20,340	21,470	21,630	22,430	21,406
#	+1,312	+ 672	+2,656	-2,656	-4,300	-3,854	+6,842	+3,803	+1,130	+160	+800	-1,024
+	70	70	75	75	70	60	60	70	75	75	80	75

CAL YR 1986 # +1,280

WTR YR 1987 # +5,546

* 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.

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.--87 years, 2,608 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,950 ft³/s, Dec. 3, gage height, 6.72 ft; minimum daily, 239 ft³/s, June 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	648	1900	1210	2610	3420	1490	951	804	855	1120	1220
2	1080	1450	2180	489	2980	2710	1700	1360	930	1040	1110	1650
3	981	1540	2410	450	2780	2890	1790	1310	975	636	1080	1780
4	1540	1640	1980	2000	2700	2190	2400	1240	605	808	1220	1850
5	1990	1630	1600	2240	2790	1420	2830	1190	297	814	1230	2120
6	1490	1260	853	2480	2700	921	3150	1120	833	1060	1200	3170
7	1500	704	1180	2420	1660	3150	2810	1070	798	733	289	3250
8	1600	474	1380	2250	3240	3710	2710	621	776	656	1350	3880
9	1530	1370	1540	939	3610	3570	1850	943	601	605	1350	3710
10	1170	1220	868	945	3280	3650	1500	789	591	346	1660	2640
11	698	1170	881	2340	3070	2900	2110	874	593	823	1710	1280
12	1070	1230	1020	2290	2750	1120	1740	817	275	791	1530	3980
13	1520	996	1020	2060	1640	1380	1680	800	820	755	1720	4420
14	1540	431	1010	2470	1250	3200	1210	766	839	741	711	4320
15	1840	417	1060	2350	2930	3140	1180	460	1180	725	2370	3860
16	1470	1500	1390	977	3390	2660	1060	734	1110	559	2280	3600
17	1350	1900	1340	452	3040	2710	628	699	698	268	947	3630
18	913	1870	1000	2580	2890	3170	1320	690	551	913	1390	2690
19	1420	975	490	2780	3130	1410	1460	678	239	753	913	4130
20	1500	794	573	3010	1420	1350	1420	675	666	718	801	3500
21	1490	415	1370	2710	1590	3790	1240	666	553	902	1290	3410
22	1390	442	1870	1950	3230	3720	1240	548	541	975	2290	3030
23	1540	1610	1820	1230	3070	3820	938	668	548	560	2850	3570
24	1000	1600	1530	1390	3160	3960	580	655	528	252	2970	2600
25	615	907	1690	2640	3020	2170	1200	673	528	948	2790	1190
26	1270	745	977	2680	3200	383	1510	924	341	1100	2310	3290
27	1670	905	434	2850	1610	377	1160	955	524	1080	2250	4400
28	1680	369	1740	1970	1190	1030	1060	772	640	1120	2300	4300
29	1860	746	1900	3210	2770	1200	1190	740	775	1380	2900	3990
30	1880	1670	1940	905	---	1080	1370	559	749	841	1740	4110
31	732	---	1540	922	---	1360	---	687	---	273	1540	---
TOTAL	42899	32628	42486	59189	76700	73561	47526	25634	19908	24030	51211	94570
MEAN	1384	1088	1371	1909	2645	2373	1584	827	664	775	1652	3152
MAX	1990	1900	2410	3210	3610	3960	3150	1360	1180	1380	2970	4420
MIN	615	369	434	450	1190	377	580	460	239	252	289	1190

CAL YR 1987 TOTAL 832895 MEAN 2282 MAX 15700 MIN 161
WTR YR 1988 TOTAL 590342 MEAN 1613 MAX 4420 MIN 239

KENNEBEC RIVER BASIN

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: Oct. 3 to Nov. 24. Records good except for periods of no gage-height record, Oct. 3 to Nov. 23, and period of doubtful gage height record, Nov. 24, which are fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Considerable diurnal fluctuation caused by powerplant above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--60 years (water years 1908-09, 1931 to current year), 4,435 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, 10,800 ft³/s, Aug. 16, gage height, 9.63 ft; minimum daily, 1,190 ft³/s, June 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1790	e1840	6000	2580	3280	4080	2890	2960	1480	1870	1730	3900
2	1830	e1980	5890	2510	3370	5180	3020	3540	1510	1700	1660	3250
3	e1750	e2130	5100	2460	4110	4180	4260	3700	1470	2920	2270	3390
4	e2030	e2120	3790	2580	3690	4330	6020	3740	1440	2370	2090	3440
5	e4150	e2110	2850	2540	3920	4590	8590	3470	1470	1630	2190	3440
6	e3850	e2120	2490	2800	3800	4420	9490	3060	1190	1720	2370	3560
7	e2850	e2230	2200	3110	3780	4200	9220	2980	1300	2110	2320	3470
8	e2550	e2150	2210	2970	3710	4930	7840	3000	1530	2080	2010	3410
9	e2300	e2180	2200	2830	3700	4190	6080	2740	1630	1660	2480	3600
10	e2000	e2190	2500	2630	3870	4330	4630	2520	1380	1620	2370	3160
11	e2050	e2200	2760	2540	3910	4920	4760	2290	1550	1830	2630	3040
12	e1700	e2260	2690	2670	3940	5200	5120	1560	1240	1820	2210	3420
13	e1600	e2330	2510	2540	3800	3990	4570	1720	1740	1650	2140	3890
14	e1950	e2380	2100	3390	3970	3760	4300	1600	2130	1880	2520	3840
15	e2250	e2370	2370	3240	3760	3670	3740	1980	2120	1840	3290	3790
16	e2500	e2350	2180	3330	3740	3700	3140	1470	1900	2060	5440	3780
17	e2370	e2300	2140	3330	3790	3950	3040	2000	1780	2070	3710	3770
18	e2300	e2320	2210	3150	3750	3650	2950	2160	1550	2000	3620	3810
19	e2530	e2240	2520	3010	3920	3580	3010	2080	1900	2060	3210	3740
20	e2550	e2200	2340	3010	3800	4390	3220	2080	1490	2080	2890	3720
21	e2580	e2300	2350	3190	3650	4590	3610	2100	1700	2680	2830	3770
22	e2450	e2500	2470	3180	3870	4020	3190	1800	1670	1930	2730	3840
23	e2260	e2620	2310	3300	4070	3670	2880	1780	1730	2200	2870	3960
24	e2330	e2610	2180	3400	4260	2970	2490	1680	1800	1600	3010	3920
25	e2400	2660	2500	3170	4510	3160	2240	1720	1600	1930	2800	4010
26	e2300	2580	2260	3180	4460	2950	2640	1770	1530	1720	3030	4010
27	e2320	2620	2350	3260	4450	2950	3160	2040	2000	2010	3430	3940
28	e2100	2730	2260	3620	4280	2930	3410	2050	1870	2040	3220	3970
29	e1800	2600	2300	3520	4510	2670	4410	1990	1810	1850	3650	3910
30	e1800	2590	3160	3230	---	2580	3450	1770	1640	1870	4020	4100
31	e1810	---	2850	3050	---	2450	---	1610	---	1770	3970	---
TOTAL	71050	69810	86040	93320	113670	120180	131370	70960	49150	60570	88710	110850
MEAN	2292	2327	2775	3010	3920	3877	4379	2289	1638	1954	2862	3695
MAX	4150	2730	6000	3620	4510	5200	9490	3740	2130	2920	5440	4100
MIN	1600	1840	2100	2460	3280	2450	2240	1470	1190	1600	1660	3040

CAL YR 1987 TOTAL 1505620 MEAN 4125 MAX 56700 MIN 1080
WTR YR 1988 TOTAL 1065680 MEAN 2912 MAX 9490 MIN 1190

e Estimated

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

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

DRAINAGE AREA.--353 mi².

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

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

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

REMARKS.--Estimated daily discharges: Dec. 4-9, and Dec. 15 to Apr. 3. Records good except for periods of ice effect, Dec. 4-9, and Dec. 15 to Apr. 3, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--67 years (water years 1903-06, 1926-current year), 719 ft³/s, 27.66 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. 1	0745	*5,560	8.57	Apr. 3	0145	ice jam	*11.35
Minimum discharge, 79 ft ³ /s, Aug. 13, 14, gage height, 2.71 ft.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	651	4620	e290	e230	e270	e2010	1640	354	137	402	793
2	260	431	2720	e280	e290	e260	e2690	1560	322	585	235	457
3	196	304	1780	e275	e375	e250	e3250	1520	317	391	194	326
4	817	293	e1190	e265	e360	e240	2640	1150	297	270	181	323
5	2020	303	e685	e260	e340	e230	3400	950	280	205	169	475
6	1160	343	e530	e250	e320	e220	3500	983	301	194	158	485
7	705	323	e455	e245	e310	e210	3120	974	287	176	152	357
8	1070	292	e395	e240	e295	e225	2450	824	246	167	210	302
9	907	294	e440	e235	e280	e240	2020	668	238	151	193	269
10	643	289	506	e230	e270	e260	2080	676	227	129	171	250
11	516	276	662	e225	e260	e270	1990	642	218	132	141	229
12	376	261	934	e220	e255	e250	1590	750	206	111	92	207
13	265	250	847	e215	e295	e240	1300	672	147	90	82	196
14	245	265	516	e210	e325	e225	1050	727	132	85	90	197
15	230	255	e470	e210	e340	e210	906	605	124	107	736	190
16	221	246	e380	e205	e305	e205	864	508	117	120	1200	178
17	211	239	e360	e205	e295	e195	863	474	120	101	945	171
18	205	252	e350	e215	e280	e190	981	1050	140	99	621	177
19	199	305	e380	e230	e275	e185	1390	891	133	99	401	170
20	192	289	e420	e280	e270	e180	1520	958	117	88	251	140
21	198	274	e470	e320	e330	e170	1120	1320	117	98	236	156
22	290	260	e500	e285	e375	e165	851	917	118	184	259	211
23	303	245	e445	e265	e355	e160	877	725	117	222	239	167
24	268	247	e410	e250	e335	e155	973	631	141	189	216	148
25	266	246	e375	e235	e315	e175	1160	643	157	171	1010	139
26	363	207	e355	e225	e305	e220	986	1450	149	125	1230	128
27	311	223	e345	e220	e290	e750	923	1210	183	536	954	121
28	585	241	e330	e210	e280	e2910	962	782	140	416	554	116
29	1840	244	e320	e205	e275	e2500	1770	535	128	415	451	114
30	1260	508	e310	e200	---	e1910	2290	450	141	306	1620	112
31	883	---	e300	e195	---	e2000	---	403	---	356	1310	---
TOTAL	17245	8856	22800	7395	8830	15670	51526	27288	5714	6455	14703	7304
MEAN	556	295	735	239	304	505	1718	880	190	208	474	243
MAX	2020	651	4620	320	375	2910	3500	1640	354	585	1620	793
MIN	192	207	300	195	230	155	851	403	117	85	82	112
CFSM	1.58	.84	2.08	.68	.86	1.43	4.87	2.49	.54	.59	1.34	.69
IN.	1.82	.93	2.40	.78	.93	1.65	5.43	2.88	.60	.68	1.55	.77

CAL YR 1987 TOTAL 278563 MEAN 763 MAX 36000 MIN 47 CFSM 2.16 IN. 29.36
WTR YR 1988 TOTAL 193786 MEAN 529 MAX 4620 MIN 82 CFSM 1.50 IN. 20.42

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.--Estimated daily discharges: Dec. 1, 4-11, and Dec. 15 to Apr. 5. Records good except for periods of ice effect, Dec. 1, 4-11, and Dec. 15 to Apr. 5, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--52 years, 970 ft³/s 25.63 in/yr (water years 1929-1979, 1988).

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, Carrabassett 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, from rating curve extended above 15,000 ft³/s on the basis of slope-area measurement.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 1	0900	ice jam	*8.42	Dec. 1	1400	(a)*7,590	8.21
(a) estimated							
Minimum discharge 111 ft ³ /sec, Aug. 14, gage height, 2.88 ft.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	764	e5900	e435	e420	e485	e2490	2720	467	154	540	915
2	336	634	4090	e425	e540	e460	e2340	2300	405	560	377	630
3	283	554	2170	e420	e640	e440	e2380	2250	363	579	266	484
4	475	506	e1520	e410	e610	e420	e2640	1810	343	346	215	429
5	1620	476	e1170	e400	e585	e400	e3870	1500	323	252	186	544
6	942	438	e955	e395	e555	e390	4200	1350	316	203	167	849
7	608	401	e745	e390	e535	e380	3710	1220	315	172	167	568
8	565	363	e580	e380	e510	e370	2900	1080	280	150	160	429
9	844	343	e545	e375	e490	e405	2470	934	249	136	188	351
10	577	347	e575	e370	e470	e445	2420	824	231	129	183	301
11	450	337	e985	e365	e455	e475	2480	802	217	222	154	264
12	388	320	1340	e360	e445	e450	2190	886	206	176	136	228
13	349	308	1120	e355	e440	e430	1730	876	194	141	123	202
14	316	300	946	e350	e500	e410	1430	811	180	128	119	187
15	280	301	e815	e345	e560	e390	1250	822	165	147	525	181
16	252	287	e730	e340	e535	e380	1280	680	153	198	1330	170
17	238	262	e640	e350	e510	e370	1410	615	146	168	886	160
18	227	305	e535	e360	e490	e355	1810	707	151	144	563	163
19	219	390	e510	e425	e475	e340	2000	981	165	132	380	178
20	214	387	e580	e490	e460	e330	1850	912	154	125	285	199
21	219	351	e665	e555	e580	e315	1450	1240	137	122	235	198
22	290	252	e720	e535	e730	e310	1220	1080	125	174	225	264
23	386	287	e680	e500	e685	e300	1100	846	125	317	234	269
24	336	266	e625	e470	e650	e310	1050	701	118	240	205	213
25	319	282	e580	e445	e610	e445	1470	633	138	222	535	189
26	379	316	e545	e420	e570	e835	1360	1280	165	354	1450	175
27	402	338	e520	e400	e550	e1860	1190	1230	296	306	786	160
28	732	331	e510	e385	e530	e3900	1130	895	233	409	524	149
29	2610	321	e480	e370	e505	e3500	2380	692	180	350	449	139
30	1410	622	e470	e360	---	e2810	3960	563	159	295	1810	132
31	967	---	e445	e350	---	e2620	---	496	---	237	1750	---
TOTAL	17477	11389	32691	12530	15635	25330	63160	33736	6699	7288	15153	9320
MEAN	564	380	1055	404	539	817	2105	1088	223	235	489	311
MAX	2610	764	5900	555	730	3900	4200	2720	467	579	1810	915
MIN	214	252	445	340	420	300	1050	496	118	122	119	132
CFSM	1.10	.74	2.05	.79	1.05	1.59	4.10	2.12	.43	.46	.95	.60
IN.	1.26	.82	2.37	.91	1.13	1.83	4.57	2.44	.48	.53	1.10	.67

WTR YR 1988 TOTAL 250408 MEAN 684 MAX 5900 MIN 118 CFSM 1.33 IN. 18.12

e Estimated

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. 6-10, 20-24, Jan. 27 to Feb. 9, and Feb. 22, 23. Records good except for periods of ice effect, Jan. 6-10, 20-24, and Jan. 27 to Feb. 9, and Feb. 22, 23, 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.--59 years (water years 1930 to current year), 954 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, 3,650 ft³/s, Mar. 31, gage-height, 6.22 ft, minimum daily, 14 ft³/s, June 11, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	997	579	621	405	e350	481	2680	1220	97	251	244	795
2	773	610	1610	462	e350	498	2580	1270	109	190	106	792
3	802	609	2050	443	e560	496	2510	1260	246	45	123	761
4	929	509	2320	408	e190	359	2530	1210	243	275	255	714
5	884	453	2320	382	e520	344	2600	1140	241	20	106	683
6	854	449	2070	e365	e600	460	2680	1050	241	22	21	688
7	813	445	1820	e295	e695	324	2850	982	243	24	179	554
8	787	413	1540	e240	e140	289	3050	906	240	25	356	288
9	803	372	1290	e240	e330	327	3100	787	237	26	412	342
10	828	337	1100	e390	446	419	3060	697	135	27	440	513
11	773	337	1050	445	507	401	2930	695	14	51	306	591
12	726	512	1050	349	473	415	2710	728	15	80	234	702
13	722	598	1030	336	463	419	2470	714	171	195	250	327
14	716	191	1000	338	470	418	2220	576	246	269	516	416
15	706	337	982	335	464	412	2000	507	242	260	776	273
16	687	347	906	317	469	399	1870	456	124	248	856	194
17	474	372	853	293	437	397	1820	361	16	100	1100	288
18	337	143	793	277	372	453	1850	341	88	18	1210	294
19	695	43	684	298	373	567	1880	376	263	20	1210	296
20	642	153	656	e315	401	587	1840	597	260	20	1160	410
21	389	421	657	e310	414	570	1720	652	256	21	1060	322
22	506	441	657	e310	e440	566	1610	528	254	22	1060	242
23	343	407	634	e310	e580	483	1500	389	251	112	931	243
24	239	531	590	e305	730	479	1340	390	135	266	905	241
25	334	216	545	396	578	612	1220	372	14	356	837	236
26	433	170	551	442	581	678	1150	242	16	130	797	208
27	542	165	543	e415	570	1290	1100	198	17	18	765	161
28	561	175	535	e385	492	2150	1030	193	121	19	733	156
29	670	208	537	e380	483	2500	1040	190	265	20	720	175
30	553	193	462	e365	---	2600	1130	193	258	22	747	169
31	506	---	381	e355	---	2780	---	196	---	128	776	---
TOTAL	20024	10736	31837	10906	13478	23173	62070	19416	5058	3280	19191	12074
MEAN	646	358	1027	352	465	748	2069	626	169	106	619	402
MAX	997	610	2320	462	730	2780	3100	1270	265	356	1210	795
MIN	239	43	381	240	140	289	1030	190	14	18	21	156

CAL YR 1987 TOTAL 322250 MEAN 883 MAX 17200 MIN 23
WTR YR 1988 TOTAL 231243 MEAN 632 MAX 3100 MIN 14

e Estimated

KENNEBEC RIVER BASIN

01049130 JOHNSON BROOK AT SOUTH ALBION, ME

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

DRAINAGE AREA.--2.92 mi².

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

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

REMARKS.--Estimated daily discharges: Dec. 18-23, Dec. 29 to Jan. 1, Jan. 4-19, 23-25, Jan. 27 to Mar. 26, and May 25 to July 12. Records are good except for periods of ice effect, Dec. 18-23, Dec. 29 to Jan. 1, Jan. 4-19, 23-25 and Jan. 27 to Mar. 26, and for flows below 1.5 ft³/s, which are fair, and period of no gage-height record, May 25 to July 12, which is poor.

AVERAGE DISCHARGE.--8 years, 4.55 ft³/s, 21.16 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)
Dec. 01	0500	*35	9.91	Mar. 27	1600	35	9.91
Feb. 20	2015	ice jam	*10.01				

Minimum daily, .05 ft³/s, June 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	1.9	31	e3.0	e1.7	e2.1	10	9.4	e.70	e2.8	2.0	3.4
2	.53	1.5	29	2.4	e4.4	e2.0	9.2	7.9	e.45	e3.2	1.5	2.0
3	.47	1.3	24	1.8	e4.8	e1.9	7.8	6.4	e.29	e2.4	1.2	1.2
4	.95	1.3	19	e1.8	e3.6	e1.8	7.8	4.9	e.26	e2.0	.91	.96
5	1.3	1.2	13	e1.7	e2.5	e1.8	8.9	4.0	e.22	e1.8	.72	1.3
6	1.2	1.2	8.2	e1.5	e1.8	e1.8	11	3.7	e.25	e1.6	.60	1.0
7	1.2	1.1	4.8	e1.4	e1.6	e1.8	9.5	3.0	e.20	e1.5	.96	.89
8	1.8	1.1	3.8	e1.3	e1.4	e1.8	8.5	2.5	e.16	e1.4	2.1	.77
9	1.5	1.3	3.8	e1.3	e1.3	e2.0	7.0	2.2	e.13	e1.3	1.8	.82
10	1.3	1.4	3.7	e1.3	e1.2	e4.6	5.4	2.1	e.11	e1.3	1.4	.86
11	1.1	1.2	5.0	e1.2	e1.1	e4.6	5.1	2.3	e.10	e2.2	.97	.74
12	1.0	1.2	6.8	e1.2	e1.0	e3.6	4.8	3.3	e.08	e1.9	.71	.66
13	.91	1.2	5.9	e1.1	e.89	e2.7	4.3	3.3	e.08	1.6	.55	.63
14	.81	1.3	4.5	e1.0	e.83	e2.4	4.0	2.7	e.07	1.6	.58	.58
15	.72	1.3	3.9	e.89	e.78	e1.9	3.9	2.1	e.06	1.9	1.0	.52
16	.66	1.2	4.1	e.78	e.78	e1.9	5.4	1.8	e.06	1.2	1.2	.48
17	.61	1.4	4.3	e.73	e.73	e2.6	8.1	1.7	e.05	.99	.92	.46
18	.60	2.5	e3.9	e.95	e.73	e3.5	10	1.5	e3.5	1.0	.81	.57
19	.57	2.5	e3.4	e1.8	e.68	e3.8	12	1.4	e3.0	.77	.66	.66
20	.52	2.1	e3.1	1.9	e12	e3.9	9.4	1.3	e2.6	.61	.52	.56
21	.63	2.0	e3.0	2.1	e13	e3.1	7.0	1.3	e2.2	.76	.56	.57
22	.86	1.7	e2.8	2.1	e5.2	e2.2	4.7	1.3	e1.9	3.1	.61	.54
23	.70	1.3	e2.7	e2.0	e5.7	e1.7	4.2	1.3	e2.8	2.6	.51	.49
24	.68	1.1	2.5	e1.9	e7.6	e2.0	5.3	1.2	e2.5	2.2	.48	.46
25	.86	1.0	8.7	e1.8	e6.2	e3.0	7.7	e4.1	e3.9	2.0	1.0	.41
26	.88	1.3	9.9	2.4	e4.6	e9.0	6.7	e12	e3.3	1.5	.96	.39
27	.83	1.9	8.5	e2.2	e3.6	31	4.7	e9.2	e2.8	1.6	.93	.36
28	2.0	2.4	6.1	e1.8	e3.0	30	3.7	e5.2	e2.5	2.6	.74	.40
29	3.3	2.4	e4.8	e1.3	e2.5	25	11	e3.0	e2.3	4.1	.94	.36
30	3.2	12	e4.1	e1.3	---	18	13	e1.6	e2.0	3.4	5.1	.36
31	2.5	---	e3.6	e1.5	---	13	---	e1.0	---	2.5	5.0	---
TOTAL	34.86	56.3	241.9	49.45	95.22	190.5	220.1	108.7	38.57	59.43	37.94	23.40
MEAN	1.12	1.88	7.80	1.60	3.28	6.15	7.34	3.51	1.29	1.92	1.22	.78
MAX	3.3	12	31	3.0	13	31	13	12	3.9	4.1	5.1	3.4
MIN	.47	1.0	2.5	.73	.68	1.7	3.7	1.0	.05	.61	.48	.36
CFSM	.39	.64	2.67	.55	1.12	2.10	2.51	1.20	.44	.66	.42	.27
IN.	.44	.72	3.08	.63	1.21	2.43	2.80	1.38	.49	.76	.48	.30

CAL YR 1987 TOTAL 1620.91 MEAN 4.44 MAX 130 MIN .00 CFSM 1.52 IN. 20.65
WTR YR 1988 TOTAL 1156.37 MEAN 3.16 MAX 31 MIN .05 CFSM 1.08 IN. 14.73

e Estimated

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, WDR ME-88-1: Gage datum.

GAGE.--Water-stage recorder. Datum of gage is 15.12 ft above National Geodetic Vertical Datum of 1929. Prior to Oct 1, 1979, at datum 21.90 ft higher. Since July 10, 1980, auxiliary water-stage recorder 11.5 mi downstream from base gage.

REMARKS.--Estimated daily discharges: Nov. 26, Dec. 16 to Mar. 25, and May 20 to Aug. 26. Records good except for period of ice effect Dec. 16 to Mar. 25, and periods of doubtful gage-height record, Dec. 29 to Jan. 28, May 12-19 and July 26 to Aug. 26, and periods of undetermined backwater condition, Nov. 26 and May 30 to Aug. 26, which are fair. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin).

AVERAGE DISCHARGE.--10 years, 8,834 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 232,000 ft³/s, Apr. 2, 1987, gage height, 39.31 ft; minimum daily, 1,160 ft³/s, July 7, 1988, caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,300 ft³/s, Dec. 1, gage height, 14.65 ft; minimum daily, 1,160 ft³/s, July 7, caused by unusual regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3690	5480	22600	e4930	e5770	e5950	16700	12300	e3810	e3270	e4410	8200
2	4090	5260	26500	e5080	e6210	e6080	17400	12000	e3650	e4260	e3830	7390
3	3550	4870	16900	e4770	e6580	e6170	18100	12100	e3520	e4950	e3730	5820
4	3360	5100	14900	e4570	e6540	e5960	18100	11500	e3530	e4630	e3870	6140
5	10400	4200	12700	e4630	e6400	e5680	21800	10400	e3490	e3490	e3440	6230
6	10100	4870	10900	e4580	e6280	e5780	25500	9710	e3500	e2440	e3350	6750
7	7660	4700	9260	e4540	e6390	e5640	23900	8710	e3510	e1160	e3830	5880
8	6540	4420	7730	e4610	e5990	e5810	21600	7670	e3360	e2860	e4050	5520
9	7830	3760	5840	e4660	e5810	e6200	18800	7850	e3390	e2910	e3980	5200
10	6210	3620	6260	e4500	e5960	e6320	16500	6830	e3220	e3170	e4020	5270
11	5280	4150	7490	e4480	e6000	e6410	15200	5600	e2880	e3290	e3960	4550
12	4500	3100	9680	e4660	e5860	e6330	15500	5740	e2960	e3020	e3660	4710
13	4500	4400	8740	e4360	e5780	e6220	13800	6690	e3280	e3150	e3490	5500
14	4390	3930	7080	e4390	e5960	e5840	12600	5870	e3070	e3180	e3850	5300
15	4640	3320	6880	e4900	e6000	e5450	11500	6810	e3530	e3170	e5990	5080
16	4480	3830	e6390	e5260	e5990	e5490	10600	5500	e3150	e3580	e10700	4990
17	4080	4590	e5940	e5270	e5900	e5450	10800	4660	e2970	e3480	e9750	4450
18	4230	3590	e5150	e5370	e5790	e5530	11900	4450	e3080	e3170	e7540	4930
19	4480	4100	e5300	e5380	e5790	e5590	13300	5770	e3250	e3140	e6540	5380
20	4800	3780	e5360	e5640	e5870	e5590	13100	5180	e3190	e2980	e5650	4860
21	4250	3680	e5730	e5910	e6030	e5560	12000	6060	e3100	e3490	e5250	5490
22	4220	4410	e5970	e5930	e6420	e5540	10900	6260	e2910	e3220	e5140	5190
23	4710	3480	e5790	e5760	e6800	e5110	9410	5100	e3050	e2860	e4950	5690
24	4320	3790	e5610	e5850	e7000	e5150	8520	4540	e3010	e3840	e5160	5790
25	3890	4560	e5430	e5830	e6590	e5660	9160	3880	e2860	e3760	e6290	5330
26	4910	e4300	e5340	e5820	e6390	7020	9380	5850	e2880	e3740	e9640	5280
27	4730	3850	e5180	e5720	e6340	12700	9040	6360	e3520	e3780	7130	4820
28	5350	3990	e5240	e5690	e6250	17700	8420	5150	e3310	e4030	6280	4980
29	9930	3810	e4980	e5700	e5910	16500	10400	4560	e3370	e3830	5850	4820
30	7680	6180	e4910	e5790	---	15000	15400	e4300	e3210	e3630	9520	5160
31	5830	---	e4730	e5600	---	15000	---	e4080	---	e3570	11000	---
TOTAL	168630	127120	260510	160180	178600	228430	429330	211480	97560	105050	175850	164700
MEAN	5440	4237	8404	5167	6159	7369	14310	6822	3252	3389	5673	5490
MAX	10400	6180	26500	5930	7000	17700	25500	12300	3810	4950	11000	8200
MIN	3360	3100	4730	4360	5770	5110	8420	3880	2860	1160	3350	4450

CAL YR 1987 TOTAL 3190510 MEAN 8741 MAX 186000 MIN 2070
WTR YR 1988 TOTAL 2307440 MEAN 6304 MAX 26500 MIN 1160

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 TEMPERATURE: 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 periods. Other interruptions in the record were due to malfunctions of the monitor or pumping system.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

pH: Maximum, 7.6 units, May 9, June 14, 15, 1988; minimum, 6.1 units, Mar. 26, July 27, 1979, June 29, 1981.

WATER TEMPERATURE: Maximum, 28.5°C, Aug. 6, 13, 1988; 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 1987 TO SEPTEMBER 1988

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)
OCT												
16...	1100	4870	57	7.0	19.0	12.5	1.4	770	10.9	101	150	60
DEC												
15...	1200	6840	75	6.8	2.0	2.0	2.2	770	13.9	99	48	52
FEB												
01...	1300	8950	84	6.7	10.0	0.5	1.4	760	13.7	95	--	60
APR												
20...	1000	13300	69	7.4	9.0	5.0	13	750	13.0	103	48	K 12
JUN												
14...	0800	E 3070	100	7.5	25.0	22.0	2.4	770	9.1	103	200	K 33
AUG												
01...	1100	E 4410	98	7.4	30.0	24.5	1.4	760	7.5	90	330	K 32

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)
OCT												
16...	19	5.6	1.2	3.5	0.9	14	0	12	12	14	12	3.1
DEC												
15...	24	7.2	1.5	4.5	1.0	19	0	16	17	17	14	6.8
FEB												
01...	19	5.8	1.2	7.8	0.8	19	0	15	16	15	14	9.8
APR												
20...	23	6.8	1.4	4.0	0.8	17	0	14	16	15	12	6.2
JUN												
14...	23	7.0	1.3	10	0.9	20	0	16	18	18	15	12
AUG												
01...	24	7.6	1.3	9.4	0.9	23	0	19	20	19	12	10

E Estimated discharge.

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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)	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)
OCT 16...	0.1	4.4	42	38	<0.10	0.01	0.01	0.8	0.02	0.01	<0.01
DEC 15...	0.1	4.7	60	51	0.17	0.04	0.05	0.2	0.02	0.01	<0.01
FEB 01...	0.1	4.6	59	55	0.21	0.04	0.05	0.4	0.03	0.01	<0.01
APR 20...	0.1	4.0	53	46	0.19	0.06	0.08	0.3	0.02	0.01	<0.01
JUN 14...	0.1	3.3	65	63	0.50	0.07	0.09	0.4	0.03	0.01	<0.01
AUG 01...	0.1	3.4	71	57	<0.10	0.08	0.10	0.4	0.06	0.05	0.04

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)
OCT 16...	60	<1	8	<0.5	<1	<1	<3	1	110	<5	<4	17
DEC 15...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 01...	50	11	9	<0.5	<1	<1	<3	2	79	<5	<4	26
APR 20...	50	<1	8	<0.5	<1	<1	<3	6	69	<5	<4	16
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 01...	40	1	10	<0.5	<1	<1	20	3	75	<5	<4	19

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
OCT 16...	<0.1	<10	3	<1	<1.0	27	<6	7	7	92	50
DEC 15...	--	--	--	--	--	--	--	--	2	37	87
FEB 01...	<0.1	<10	1	<1	<1.0	26	<6	8	3	72	100
APR 20...	<0.1	<10	1	<1	<1.0	32	<6	19	9	323	50
JUN 14...	--	--	--	--	--	--	--	--	3	25	91
AUG 01...	0.2	<10	2	<1	<1.0	31	<6	40	3	36	92

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	84	75	78	99	93	95	95	86	92	---	---	---
2	86	81	83	97	94	96	94	88	92	---	---	---
3	92	84	88	93	81	89	91	84	88	69	64	66
4	97	85	91	81	75	78	90	85	87	80	66	72
5	87	85	86	78	65	70	89	85	87	77	66	69
6										73	70	71
7	91	87	89	84	72	76	85	82	83	71	66	68
8	89	86	87	112	77	93	92	80	83	71	66	69
9	95	89	92	96	74	80	89	83	86	70	65	67
10	98	95	96	98	91	95	95	82	87	71	66	68
11	100	96	98	97	92	95	99	77	88	71	66	69
12	99	97	98	104	92	95	80	74	76	74	72	73
13	101	98	99	105	92	100	80	73	77	74	71	72
14	106	98	101	92	86	90	88	75	81	74	71	72
15	112	104	107	93	84	87	90	83	85	72	68	70
16	107	96	101	96	92	94	91	83	88	69	65	67
17	101	97	99	100	95	97	83	63	76	68	66	67
18	99	93	96	97	92	94	64	61	62	67	62	65
19	97	92	95	92	86	88	64	60	61	66	63	65
20	101	92	96	90	82	85	73	65	69	67	63	65
21	104	101	102	93	89	92	72	70	71	68	63	66
22	109	100	104	94	88	90	72	69	70	68	65	66
23	106	103	104	94	88	92	75	70	73	81	67	71
24	106	96	100	95	81	89	76	71	74	81	68	73
25	98	93	96	83	72	77	77	72	74	69	63	65
26	97	93	95	97	82	88	---	---	---	64	61	62
27	97	89	90	98	87	93	---	---	---	65	63	64
28	92	88	90	93	83	88	---	---	---	67	62	64
29	105	93	96	91	87	89	---	---	---	69	66	68
30	100	98	99	94	88	92	---	---	---	72	68	70
31	98	92	95	89	85	87	---	---	---	72	64	69
---	---	---	---	91	84	86	---	---	---	---	---	---
MONTH	112	75	95	112	65	89	99	60	80	81	61	68
PERIOD	MAXIMUM 112	MINIMUM 52	MEAN 75									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

KENNEBEC RIVER BASIN

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01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

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

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.0	18.5	18.5	21.5	20.5	20.5	25.5	24.5	24.5	---	---	---
2	19.0	18.0	18.0	21.0	20.0	20.0	26.5	25.0	25.0	20.5	20.0	20.0
3	19.5	18.5	18.5	21.0	20.0	20.0	26.5	25.5	25.5	21.0	20.0	20.0
4	20.5	19.0	19.0	23.0	21.0	21.0	27.5	26.0	26.0	20.5	20.0	20.0
5	20.0	19.0	19.0	23.0	21.5	21.5	28.0	26.5	26.5	20.0	19.5	19.5
6	21.0	19.5	19.5	23.5	22.5	22.5	28.5	27.0	27.0	19.5	19.0	19.0
7	20.5	19.5	19.5	25.5	24.0	24.0	27.0	26.5	26.5	19.5	19.0	19.0
8	21.0	19.5	19.5	25.5	24.0	24.0	27.5	26.5	26.5	19.5	19.0	19.0
9	20.0	19.0	19.0	25.5	24.0	24.0	28.0	27.0	27.0	19.5	19.0	19.0
10	20.5	19.0	19.0	25.5	24.5	24.5	28.0	26.5	26.5	20.0	19.0	19.0
11	21.5	20.0	20.0	26.0	24.5	24.5	28.0	27.0	27.0	19.0	18.5	18.5
12	22.5	20.5	20.5	26.5	25.5	25.5	28.0	27.0	27.0	19.0	18.0	18.0
13	24.0	21.5	21.5	28.0	26.0	26.0	28.5	27.0	27.0	19.0	18.5	18.5
14	25.5	23.0	23.0	26.0	25.5	25.5	26.5	26.0	26.0	19.0	18.5	18.5
15	24.5	23.0	23.0	26.0	25.0	25.0	25.0	25.0	25.0	18.5	18.0	18.0
16	24.0	22.5	22.5	25.5	24.5	24.5	24.5	24.5	24.5	18.0	17.5	17.5
17	22.0	21.5	21.5	25.0	24.5	24.5	24.5	24.0	24.0	17.5	17.0	17.0
18	24.0	22.5	22.5	26.5	25.0	25.0	23.5	23.0	23.0	17.0	17.0	17.0
19	24.5	23.0	23.0	25.5	25.0	25.0	22.5	22.5	22.5	18.5	17.5	17.5
20	25.0	23.0	23.0	26.5	25.0	25.0	23.0	22.5	22.5	18.0	17.5	17.5
21	25.5	23.5	23.5	25.0	24.5	24.5	24.5	22.0	22.0	18.0	17.5	17.5
22	25.5	24.0	24.0	25.0	24.0	24.0	22.5	21.5	21.5	18.5	18.0	18.0
23	26.0	24.0	24.0	26.0	24.5	24.5	23.0	21.5	21.5	17.0	17.0	17.0
24	25.0	23.0	23.0	24.5	23.5	23.5	21.0	21.0	21.0	18.0	17.5	17.5
25	22.5	22.0	22.0	24.0	23.0	23.0	---	---	---	18.0	17.0	17.0
26	22.5	21.0	21.0	25.0	24.0	24.0	---	---	---	17.5	17.0	17.0
27	23.5	21.5	21.5	24.0	23.5	23.5	---	---	---	17.0	16.5	16.5
28	23.5	22.0	22.0	23.5	23.0	23.0	---	---	---	17.0	16.0	16.0
29	22.5	21.5	21.5	25.0	23.5	23.5	---	---	---	16.5	15.5	15.5
30	22.0	21.0	21.0	26.5	24.5	24.5	---	---	---	15.5	15.5	15.5
31	---	---	---	25.0	24.5	24.5	---	---	---	---	---	---
MONTH	26.0	18.0	21.0	28.0	20.0	23.5	28.5	21.0	25.0	21.0	15.5	18.0
PERIOD MAXIMUM 28.5 MINIMUM 4.5 MEAN 18.0												

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.7	9.0	9.3	10.9	10.6	10.7	---	---	---	---	---	---
2	10.1	9.4	9.7	10.9	10.6	10.7	---	---	---	---	---	---
3	9.8	9.4	9.6	10.6	10.4	10.5	---	---	---	---	---	---
4	9.8	9.5	9.6	10.6	10.2	10.4	---	---	---	---	---	---
5	10.7	9.7	10.3	10.4	10.1	10.2	---	---	---	---	---	---
6	10.7	10.3	10.5	10.8	10.3	10.5	---	---	---	---	---	---
7	10.5	10.2	10.4	11.2	10.7	10.9	---	---	---	---	---	---
8	10.5	10.2	10.3	11.3	11.0	11.1	---	---	---	---	---	---
9	10.8	10.3	10.6	11.4	11.0	11.2	---	---	---	---	---	---
10	10.6	10.2	10.4	11.6	11.1	11.3	---	---	---	---	---	---
11	10.6	10.3	10.4	12.1	11.4	11.7	---	---	---	---	---	---
12	10.7	10.3	10.4	11.9	11.7	11.8	---	---	---	---	---	---
13	10.7	10.3	10.5	12.8	11.6	12.1	---	---	---	---	---	---
14	10.9	10.4	10.6	12.9	12.5	12.7	---	---	---	---	---	---
15	10.9	10.6	10.7	12.7	12.4	12.5	---	---	---	---	---	---
16	11.0	10.4	10.7	---	---	---	---	---	---	---	---	---
17	11.0	10.5	10.7	---	---	---	---	---	---	---	---	---
18	10.8	10.4	10.6	---	---	---	---	---	---	---	---	---
19	10.9	10.3	10.6	---	---	---	---	---	---	---	---	---
20	11.0	10.5	10.7	---	---	---	---	---	---	---	---	---
21	10.6	10.4	10.5	---	---	---	---	---	---	---	---	---
22	10.9	10.4	10.6	---	---	---	---	---	---	---	---	---
23	11.1	10.6	10.8	---	---	---	---	---	---	---	---	---
24	11.2	10.8	11.0	---	---	---	---	---	---	---	---	---
25	11.0	10.5	10.7	---	---	---	---	---	---	---	---	---
26	11.3	10.7	11.0	---	---	---	---	---	---	---	---	---
27	11.4	10.8	11.0	---	---	---	---	---	---	---	---	---
28	11.1	10.7	10.8	---	---	---	---	---	---	---	---	---
29	11.2	10.6	10.9	---	---	---	---	---	---	---	---	---
30	11.0	10.5	10.8	---	---	---	---	---	---	---	---	---
31	10.7	10.4	10.6	---	---	---	---	---	---	---	---	---
MONTH	11.4	9.0	10.5	12.9	10.1	11.2	---	---	---	---	---	---

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	13.6	13.0	13.3
2	---	---	---	---	---	---	---	---	---	13.7	13.4	13.6
3	---	---	---	---	---	---	---	---	---	13.9	13.6	13.8
4	---	---	---	---	---	---	---	---	---	13.8	13.5	13.7
5	---	---	---	---	---	---	---	---	---	13.8	13.2	13.5
6	---	---	---	---	---	---	---	---	---	13.5	13.0	13.3
7	---	---	---	---	---	---	---	---	---	13.4	12.7	13.1
8	---	---	---	---	---	---	---	---	---	13.3	12.5	12.9
9	---	---	---	---	---	---	---	---	---	13.1	12.3	12.8
10	---	---	---	---	---	---	---	---	---	12.8	12.2	12.5
11	---	---	---	---	---	---	---	---	---	12.7	11.9	12.3
12	---	---	---	---	---	---	---	---	---	12.8	12.0	12.4
13	---	---	---	---	---	---	---	---	---	12.7	11.9	12.3
14	---	---	---	---	---	---	---	---	---	12.7	11.6	12.1
15	---	---	---	---	---	---	---	---	---	12.3	11.5	11.9
16	---	---	---	---	---	---	---	---	---	12.3	11.2	11.7
17	---	---	---	---	---	---	---	---	---	11.8	10.8	11.3
18	---	---	---	---	---	---	---	---	---	11.2	10.5	10.8
19	---	---	---	---	---	---	---	---	---	11.0	10.3	10.6
20	---	---	---	---	---	---	---	---	---	10.4	9.7	10.2
21	---	---	---	---	---	---	---	---	---	10.5	9.7	10.1
22	---	---	---	---	---	---	---	---	---	10.3	9.6	10.0
23	---	---	---	---	---	---	---	---	---	10.9	10.1	10.5
24	---	---	---	---	---	---	---	---	---	10.6	9.8	10.2
25	---	---	---	---	---	---	---	---	---	11.0	10.0	10.5
26	---	---	---	---	---	---	---	---	---	11.3	10.7	11.1
27	---	---	---	---	---	---	---	---	---	11.7	10.9	11.4
28	---	---	---	---	---	---	---	---	---	11.2	10.5	10.9
29	---	---	---	---	---	---	---	---	---	11.0	10.3	10.6
30	---	---	---	---	---	---	---	---	---	10.9	10.0	10.6
31	---	---	---	---	---	---	---	---	---	11.1	10.3	10.7
MONTH	---	---	---	---	---	---	---	---	---	13.9	9.6	11.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.9	10.2	10.5	8.3	7.8	8.0	8.2	7.5	7.8	---	---	---
2	10.8	9.8	10.3	8.5	7.8	8.2	8.2	7.3	7.6	9.1	8.7	8.9
3	10.8	9.8	10.3	8.8	8.2	8.5	8.2	7.2	7.6	9.3	8.6	8.9
4	10.8	9.5	10.2	9.2	8.6	8.9	8.1	7.1	7.6	8.7	8.5	8.6
5	10.4	9.6	10.0	9.3	8.8	9.1	7.9	6.9	7.3	8.9	8.5	8.6
6	10.6	9.2	9.9	9.3	8.4	8.9	7.9	6.8	7.3	9.2	8.6	8.9
7	10.5	9.6	10.0	9.4	8.4	8.8	7.6	6.8	7.1	9.2	8.8	9.0
8	10.6	9.2	9.9	8.9	8.1	8.5	7.7	7.0	7.3	9.3	8.8	9.1
9	10.3	9.3	9.8	8.8	7.9	8.4	7.6	6.8	7.1	9.3	8.9	9.2
10	10.2	9.2	9.7	8.9	7.9	8.3	7.6	6.6	7.1	9.4	9.0	9.2
11	10.4	9.0	9.7	8.7	7.7	8.2	7.9	6.9	7.3	9.7	9.0	9.3
12	9.8	8.8	9.3	8.8	7.7	8.2	7.9	6.8	7.2	9.9	9.2	9.5
13	9.5	8.2	8.8	8.9	7.4	8.1	7.9	6.7	7.2	9.7	9.2	9.4
14	8.8	8.0	8.3	8.5	7.4	7.9	7.4	6.6	6.9	10.1	9.3	9.6
15	8.9	7.4	8.1	8.6	7.2	7.9	7.3	6.5	6.9	10.1	9.5	9.7
16	8.8	7.8	8.1	8.5	7.6	8.0	7.8	7.3	7.5	10.9	9.7	10.2
17	8.1	7.7	7.9	8.5	7.5	7.9	8.1	7.7	7.9	11.1	10.6	10.8
18	8.8	7.8	8.2	8.6	7.5	8.0	8.6	7.6	8.0	10.9	10.5	10.8
19	8.9	8.1	8.4	8.2	7.6	8.0	8.2	7.8	8.0	11.0	10.5	10.7
20	8.9	8.0	8.4	8.7	7.4	8.0	7.8	7.5	7.6	11.0	10.5	10.8
21	9.0	7.9	8.4	8.0	7.5	7.8	7.6	7.2	7.4	11.1	10.6	10.9
22	9.0	7.8	8.3	8.4	7.8	8.2	8.0	7.1	7.5	11.1	10.5	10.8
23	9.0	7.6	8.3	8.4	7.7	8.0	8.1	7.4	7.8	10.9	10.6	10.7
24	9.2	7.9	8.6	8.1	7.6	7.9	7.9	7.3	7.6	11.1	10.6	10.9
25	8.9	8.1	8.5	8.1	7.6	7.8	---	---	---	11.5	10.8	11.1
26	9.5	8.5	9.0	7.9	7.4	7.6	---	---	---	11.5	10.9	11.1
27	9.6	8.7	9.1	7.4	6.9	7.2	---	---	---	11.3	10.5	11.0
28	9.1	8.5	8.8	7.4	6.9	7.2	---	---	---	10.9	10.2	10.6
29	8.8	8.3	8.5	7.8	6.9	7.2	---	---	---	10.7	10.0	10.3
30	8.6	8.1	8.3	8.5	7.8	8.1	---	---	---	10.2	9.7	9.9
31	---	---	---	8.2	7.6	7.8	---	---	---	---	---	---
MONTH	10.9	7.4	9.1	9.4	6.9	8.1	8.6	6.5	7.4	11.5	8.5	9.9
PERIOD MAXIMUM	13.9	MINIMUM	6.5	MEAN	9.7							

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.--No estimated daily discharges: Records excellent. 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.--11 years, 53.3 ft³/s, 22.13 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, 155 ft³/s, June 29, gage height, 3.00 ft, caused by unusual regulation; minimum, 3.4 ft³/s, Oct. 8, gage height, 1.25 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	7.9	10	44	32	41	124	108	40	20	23	16
2	6.7	6.5	10	43	32	40	120	107	28	19	25	17
3	7.1	7.4	20	41	32	39	118	103	28	18	24	17
4	6.4	8.4	28	40	34	38	114	100	29	16	23	16
5	4.7	8.0	24	39	35	38	117	94	28	15	23	15
6	5.0	6.9	25	39	36	37	117	89	25	15	22	14
7	5.1	6.2	25	37	35	36	111	88	23	15	23	16
8	5.0	7.4	25	37	34	35	111	82	22	15	23	18
9	4.7	6.7	25	37	33	35	76	75	23	15	25	17
10	4.9	6.4	27	36	32	35	63	71	25	15	25	17
11	4.6	5.0	30	34	31	35	57	71	25	20	25	16
12	4.1	4.3	32	33	34	35	50	71	23	23	25	16
13	4.0	4.0	34	33	39	36	49	68	21	23	25	16
14	3.9	5.0	35	31	38	35	51	67	24	23	24	16
15	4.3	5.5	36	30	36	34	54	61	27	22	24	16
16	4.4	4.3	39	31	36	34	58	95	28	24	24	15
17	4.9	4.0	35	30	35	34	62	102	26	21	22	16
18	5.0	5.4	33	30	36	35	67	89	25	21	18	16
19	4.2	6.9	33	31	35	37	74	81	23	22	19	16
20	4.8	7.0	34	30	41	39	75	77	26	21	24	16
21	4.6	7.6	35	32	45	38	73	74	26	21	21	16
22	4.3	7.7	35	32	46	37	71	70	26	21	22	15
23	4.0	6.2	36	31	46	36	67	66	26	19	23	15
24	4.5	5.9	36	31	47	36	67	64	26	19	23	15
25	5.0	6.3	40	30	46	37	68	59	26	16	22	14
26	4.1	7.3	44	35	46	42	68	55	24	16	22	14
27	4.2	6.3	45	34	45	70	68	57	21	23	22	13
28	5.1	6.0	45	33	44	103	69	58	20	25	21	12
29	5.0	6.0	44	33	42	116	100	51	21	25	20	9.7
30	5.1	7.8	44	33	---	119	107	47	21	25	18	9.2
31	6.6	---	45	33	---	122	---	45	---	23	16	---
TOTAL	153.8	190.3	1009	1063	1103	1484	2426	2345	756	616	696	454.9
MEAN	4.96	6.34	32.5	34.3	38.0	47.9	80.9	75.6	25.2	19.9	22.5	15.2
MAX	7.5	8.4	45	44	47	122	124	108	40	25	25	18
MIN	3.9	4.0	10	30	31	34	49	45	20	15	16	9.2
CFSM	.15	.19	1.00	1.05	1.16	1.46	2.47	2.31	.77	.61	.69	.46
IN.	.17	.22	1.15	1.21	1.25	1.69	2.76	2.67	.86	.70	.79	.52

CAL YR 1987 TOTAL 20085.8 MEAN 55.0 MAX 1280 MIN 3.9 CFSM 1.68 IN. 22.85
WTR YR 1988 TOTAL 12297.0 MEAN 33.6 MAX 124 MIN 3.9 CFSM 1.03 IN. 13.99

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 167.53 ft Aug. 17; minimum daily elevation, 164.07 ft Dec. 28.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166.56	164.44	164.56	164.14	164.73	164.90	165.42	167.05	167.13	166.94	167.35	167.35
2	166.46	164.41	164.65	164.18	164.75	164.88	165.48	167.05	167.10	166.95	167.35	167.34
3	166.34	164.37	164.65	164.20	164.78	164.87	165.55	167.06	167.10	166.95	167.35	167.31
4	166.27	164.33	164.62	164.23	164.83	164.86	165.61	167.07	167.09	166.95	167.35	167.26
5	166.21	164.31	164.60	164.27	164.87	164.85	165.71	167.05	167.09	166.95	167.35	167.26
6	166.10	164.28	164.57	164.28	164.89	164.83	165.87	167.04	167.09	166.94	167.35	167.21
7	166.00	164.23	164.53	164.29	164.90	164.82	165.98	167.00	167.07	166.94	167.34	167.18
8	165.95	164.19	164.49	164.30	164.91	164.82	166.07	166.99	167.04	166.93	167.37	167.14
9	165.84	164.17	164.46	164.33	164.92	164.79	166.14	166.97	167.00	166.93	167.39	167.11
10	165.73	164.16	164.43	164.35	164.90	164.79	166.20	166.96	166.97	166.98	167.39	167.06
11	165.62	164.12	164.41	164.35	164.87	164.79	166.26	166.98	166.94	166.98	167.39	167.02
12	165.52	164.12	164.40	164.38	164.87	164.78	166.32	167.02	166.90	166.97	167.40	166.97
13	165.41	164.12	164.38	164.39	164.94	164.77	166.35	167.03	166.87	166.96	167.40	166.94
14	165.33	164.12	164.35	164.41	164.93	164.76	166.37	167.01	166.85	166.96	167.43	166.88
15	165.25	164.11	164.32	164.42	164.89	164.75	166.39	167.02	166.84	166.96	167.48	166.83
16	165.17	164.11	164.33	164.43	164.87	164.74	166.46	166.98	166.84	166.95	167.52	166.78
17	165.09	164.11	164.31	164.43	164.85	164.73	166.53	166.96	166.91	166.95	167.53	166.73
18	165.02	164.13	164.29	164.45	164.83	164.73	166.58	166.94	166.97	166.98	167.47	166.70
19	164.94	164.12	164.26	164.49	164.81	164.74	166.64	166.95	166.97	166.98	167.41	166.66
20	164.86	164.13	164.23	164.50	164.87	164.74	166.67	166.97	166.97	166.97	167.36	166.62
21	164.78	164.14	164.22	164.52	164.91	164.74	166.70	167.00	166.96	166.99	167.28	166.59
22	164.72	164.13	164.19	164.54	164.93	164.72	166.71	167.00	166.95	167.10	167.23	166.52
23	164.63	164.11	164.15	164.55	164.93	164.71	166.74	167.01	166.96	167.13	167.17	166.44
24	164.56	164.11	164.11	164.56	164.94	164.69	166.77	167.01	166.95	167.15	167.15	166.36
25	164.56	164.10	164.11	164.57	164.94	164.70	166.82	167.04	166.95	167.18	167.20	166.28
26	164.52	164.16	164.10	164.68	164.93	164.73	166.85	167.11	166.97	167.19	167.21	166.20
27	164.48	164.19	164.09	164.69	164.93	164.93	166.86	167.12	166.95	167.22	167.21	166.11
28	164.50	164.20	164.07	164.70	164.92	165.13	166.86	167.12	166.95	167.27	167.21	166.02
29	164.53	164.19	164.09	164.71	164.91	165.22	166.97	167.13	166.95	167.31	167.22	165.93
30	164.50	164.28	164.12	164.71	---	165.29	167.02	167.13	166.95	167.32	167.32	165.85
31	164.47	---	164.13	164.72	---	165.35	---	167.14	---	167.34	167.34	---
MAX	166.56	164.44	164.65	164.72	164.94	165.35	167.02	167.14	167.13	167.34	167.53	167.35
MIN	164.47	164.10	164.07	164.14	164.73	164.69	165.42	166.94	166.84	166.93	167.15	165.85
CAL YR 1987 MAX 168.88 MIN 163.86												
WTR YR 1988 MAX 167.53 MIN 164.07												

01049500 COBBOSSECONTEE STREAM AT GARDINER, ME

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

DRAINAGE AREA.--217 mi².

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

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

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

REMARKS.--Estimated daily discharges: Apr. 6 to May 31. Records good except for period of doubtful gage-height record, Apr. 6 to May 31, which is poor. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

COOPERATION.--Prior to 1961 records furnished by S.D. Warren Co. 1961 to 1964 records furnished by Gardiner Water District.

AVERAGE DISCHARGE.--86 years (water years 1891-64, 1977 to current year), 344 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, 1,840 ft³/s, Mar. 28, gage height, 7.18 ft; minimum daily, 18 ft³/s, June 25, July 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	307	679	189	128	206	606	e610	221	25	101	241
2	276	290	1000	138	130	208	713	e580	222	21	101	238
3	295	281	906	137	82	306	681	e530	160	21	101	237
4	368	196	808	137	69	149	653	e450	125	20	73	238
5	517	149	745	136	65	160	500	e410	58	20	41	240
6	520	155	679	133	66	183	e440	e375	27	21	19	243
7	505	157	556	133	63	160	e400	e340	27	21	19	273
8	510	160	386	129	82	178	e360	e322	27	20	36	341
9	503	161	298	127	83	200	e325	e285	27	20	36	397
10	475	149	310	128	91	208	e300	e260	40	22	38	397
11	462	116	322	128	83	154	e270	e233	48	21	42	389
12	447	118	345	128	75	165	e240	e211	51	21	28	385
13	433	121	355	129	83	221	e227	e165	121	21	20	379
14	419	122	358	128	101	199	e216	e140	131	22	21	368
15	410	124	355	126	138	214	e205	e131	129	22	66	360
16	403	123	368	127	194	208	e100	e125	190	22	108	346
17	402	124	370	128	154	207	e99	e120	161	19	130	328
18	395	124	367	128	166	266	e98	e120	127	46	175	328
19	401	123	358	124	160	275	e110	e120	127	19	197	287
20	485	122	353	125	260	174	e162	e119	128	18	162	257
21	470	121	355	130	147	94	e161	e119	127	19	122	263
22	456	120	352	109	220	221	e160	e119	56	22	196	265
23	441	120	346	96	511	217	e159	e120	21	22	244	275
24	363	121	338	100	311	287	e158	e140	19	23	169	287
25	327	122	352	128	224	325	e166	e245	18	22	205	275
26	304	122	383	122	216	444	e163	e270	19	34	247	280
27	281	122	393	67	197	956	e162	e259	22	36	242	287
28	294	121	388	57	207	1390	e161	e253	22	44	230	286
29	324	120	358	61	217	765	e280	e245	22	77	172	291
30	313	127	323	99	---	622	e630	e239	22	103	136	262
31	315	---	292	128	---	606	---	e230	---	101	199	---
TOTAL	12340	4438	13798	3755	4523	9968	8905	7885	2495	945	3676	9043
MEAN	398	148	445	121	156	322	297	254	83.2	30.5	119	301
MAX	520	307	1000	189	511	1390	713	610	222	103	247	397
MIN	226	116	292	57	63	94	98	119	18	18	19	237

CAL YR 1987 TOTAL 125630.6 MEAN 344 MAX 3940 MIN 8.0
WTR YR 1988 TOTAL 81771 MEAN 223 MAX 1390 MIN 18

e Estimated

KENNEBEC RIVER BASIN

97

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. 6, 7, 11, 14-17, 28, 29, and Feb. 4-19. Records good except for periods of ice effect, Jan. 6, 7, 11, 14-17, 28, 29, and Feb. 4-19, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--7 years, 41.2 ft³/s, 23.6 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)
Dec. 1	0600	*281	*4.83	No other peak greater than base discharge.			

Minimum discharge, 3.0 ft³/s, Oct. 19, 24, gage height 2.97 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	8.7	249	32	20	34	111	61	23	6.9	8.0	7.7
2	4.8	12	178	30	29	32	104	59	21	6.9	8.0	7.5
3	5.1	14	135	28	27	30	98	57	18	6.4	7.7	6.8
4	8.3	18	115	28	e25	30	92	53	17	6.4	7.3	6.9
5	9.0	16	102	28	e24	29	94	50	16	6.3	7.1	8.0
6	7.9	14	90	27	e23	27	98	45	17	6.4	6.6	6.7
7	7.0	13	79	e26	e23	25	88	46	15	6.6	6.5	6.5
8	10	12	70	e25	e22	27	81	39	13	6.4	7.2	5.8
9	7.5	13	65	25	e21	28	74	36	11	6.4	6.9	5.6
10	5.7	15	64	23	e21	35	68	35	10	6.8	6.9	5.5
11	4.8	16	67	e22	e20	34	68	39	8.8	6.7	6.8	5.5
12	4.7	15	69	22	e20	32	61	43	7.2	6.6	6.6	5.6
13	4.5	13	64	21	e20	30	55	36	6.8	6.5	6.4	5.5
14	3.8	13	60	e20	e19	29	51	35	6.4	6.5	7.3	5.2
15	3.6	12	56	e17	e19	28	50	31	6.2	6.5	7.4	5.1
16	3.4	12	59	e16	e19	30	56	28	7.1	6.0	10	5.1
17	3.3	12	56	e15	e18	34	50	28	15	6.4	8.3	4.9
18	3.3	11	52	17	e18	36	44	28	15	6.6	7.3	5.1
19	3.1	13	48	21	e18	38	48	26	12	6.0	6.5	4.9
20	3.8	14	46	21	46	38	43	26	10	5.9	6.2	4.8
21	4.5	18	46	22	48	34	40	24	9.5	7.0	6.2	4.9
22	5.4	18	43	21	47	30	38	23	8.5	9.2	6.4	4.7
23	4.2	14	40	20	45	29	36	21	9.7	6.7	6.2	4.5
24	3.3	14	38	19	47	31	42	22	8.4	7.3	6.2	4.4
25	4.3	13	49	18	45	35	48	47	7.7	6.9	8.2	4.1
26	4.4	18	54	24	42	54	45	52	8.8	6.6	6.5	4.4
27	3.9	20	51	22	40	171	41	39	8.5	9.5	6.1	4.5
28	13	19	47	e22	38	163	40	34	7.6	8.9	5.6	4.6
29	15	18	43	e21	36	131	71	30	7.7	8.9	6.4	4.5
30	12	74	37	19	---	117	68	27	7.2	7.9	13	4.5
31	11	---	34	19	---	116	---	25	---	8.1	8.1	---
TOTAL	190.2	492.7	2206	691	840	1537	1903	1145	339.1	216.2	223.9	163.8
MEAN	6.14	16.4	71.2	22.3	29.0	49.6	63.4	36.9	11.3	6.97	7.22	5.46
MAX	15	74	249	32	48	171	111	61	23	9.5	13	8.0
MIN	3.1	8.7	34	15	18	25	36	21	6.2	5.9	5.6	4.1
CFSM	.26	.69	3.00	.94	1.22	2.09	2.68	1.56	.48	.29	.30	.23
IN.	.30	.77	3.46	1.08	1.32	2.41	2.99	1.80	.53	.34	.35	.26

CAL YR 1987 TOTAL 13280.3 MEAN 36.4 MAX 940 MIN 2.4 CFSM 1.54 IN. 20.85
WTR YR 1988 TOTAL 9947.9 MEAN 27.2 MAX 249 MIN 3.1 CFSM 1.15 IN. 15.61

e Estimated

KENNEBEC RIVER BASIN

Reservoirs in Kennebec River Basin

- 01038500 BRASSUA LAKE on Moose River, 4 mi southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ between elevations 1,043.0 ft and 1,073.0 ft. Elevation record furnished by Kennebec Water Power Co.
- 01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft³ between gage heights 1.0 ft and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p. 78).
- 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 1987 TO SEPTEMBER 1988

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
Sept. 30, 1987.....	352	356	815	550	6,328	2,888
Oct. 31.....	453	0	685	0	6,652	2,886
Nov. 30.....	105	0	675	0	5,123	2,950
Dec. 31.....	177	0	526	0	5,934	2,872
Jan. 31, 1988.....	0	0	696	0	4,734	2,625
Feb. 29.....	0	0	606	0	3,043	2,824
Mar. 31.....	182	131	621	0	2,154	2,655
Apr. 30.....	6,415	760	634	640	8,588	2,933
May 31.....	8,464	883	856	613	11,649	2,812
June 30.....	7,906	828	824	586	10,204	2,866
July 31.....	7,550	787	837	595	9,017	2,843
Aug. 31.....	8,626	801	847	604	9,871	2,932
Sept. 30.....	4,166	557	639	162	9,827	2,826

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

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

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

DRAINAGE AREA.--152 mi².

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

Water-quality records: Water year 1954.

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

GAGE.--Water-stage recorder. Elevation of gage is 1,259.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 27-29, Dec. 3-8, 17-25, Dec. 27 to Mar. 27, Mar. 29 to Apr. 4, May 3-7, and May 31 to June 30. Records good except for periods of ice effect, Nov. 27-29, Dec. 3-8, 17-25, Dec. 27 to Mar. 27 and Mar. 29 to Apr. 4 and period of doubtful gage-height record, May 3-7, which are fair, and period of no gage-height record, May 31 to June 30, which is poor. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--47 years, 347 ft³/s, 31.00 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, 6.8ft³/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. 5	1900	*4,020	*7.72	No other peak greater than base-discharge.			

Minimum discharge, 53 ft³/s, July 14, gage height, 1.63 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	245	1430	e120	e115	e76	e820	1070	e185	732	278	476
2	209	210	752	e120	e550	e74	e1030	985	e170	1510	128	337
3	154	189	e415	e115	e400	e73	e1260	e820	e160	556	90	266
4	507	200	e285	e115	e310	e72	e1640	e680	e150	284	202	229
5	873	262	e260	e115	e240	e69	3080	e640	e190	199	142	305
6	479	418	e225	e110	e190	e68	3470	e700	e165	151	95	295
7	321	267	e185	e110	e160	e67	2550	e670	e145	126	662	224
8	260	218	e140	e110	e140	e66	1750	644	e135	108	583	178
9	223	267	213	e110	e130	e66	1430	543	e130	91	529	150
10	209	337	306	e110	e115	e66	1520	506	e125	81	242	131
11	186	234	385	e110	e105	e73	1280	471	e120	74	173	113
12	177	194	320	e105	e96	e83	1150	601	e115	66	130	103
13	161	175	270	e105	e91	e83	1000	478	e105	60	106	103
14	146	172	234	e105	e88	e77	848	603	e100	62	157	139
15	136	163	212	e105	e85	e73	807	482	e100	83	1560	118
16	127	142	169	e105	e83	e71	686	385	e150	63	1450	107
17	120	139	e180	e105	e82	e69	594	345	e130	60	781	93
18	115	303	e150	e104	e81	e67	613	325	e115	78	479	178
19	109	327	e135	e102	e81	e66	932	303	e100	65	324	342
20	103	226	e130	e450	e87	e65	724	286	e90	105	235	211
21	117	172	e130	e240	e98	e64	562	271	e82	88	245	263
22	220	115	e130	e170	e98	e63	515	250	e160	177	260	311
23	166	141	e125	e140	e95	e62	465	232	e150	104	195	246
24	145	169	e125	e123	e92	e61	592	221	e130	75	166	216
25	255	179	e135	e110	e88	e72	750	249	e330	93	748	172
26	330	146	175	e105	e85	e145	865	546	e250	123	519	139
27	208	e140	e145	e100	e82	e690	926	525	e200	141	308	121
28	286	e150	e135	e97	e80	1140	865	352	e170	156	386	111
29	571	e165	e130	e94	e78	e650	1570	263	e180	158	1460	103
30	340	723	e130	e93	---	e500	1400	213	e195	88	1730	98
31	262	---	e125	e92	---	e630	---	e195	---	437	889	---
TOTAL	7816	6788	7881	3895	4025	5501	35694	14854	4527	6194	15252	5878
MEAN	252	226	254	126	139	177	1190	479	151	200	492	196
MAX	873	723	1430	450	550	1140	3470	1070	330	1510	1730	476
MIN	103	115	125	92	78	61	465	195	82	60	90	93
CFSM	1.66	1.49	1.67	.83	.91	1.17	7.83	3.15	.99	1.31	3.24	1.29
IN.	1.91	1.66	1.93	.95	.99	1.35	8.74	3.64	1.11	1.52	3.73	1.44

CAL YR 1987 TOTAL 110068 MEAN 302 MAX 6790 MIN 21 CFSM 1.98 IN. 26.94
WTR YR 1988 TOTAL 118305 MEAN 323 MAX 3470 MIN 60 CFSM 2.13 IN. 28.95

e Estimated

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.--Estimated daily discharges: July 26 to Aug. 3. Records excellent except for periods of doubtful gage-height record, Apr. 7 to May 2, and July 26 to Aug. 3, which are fair. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Azischoos, 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.--83 years, 1,897 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,150 ft³/s, Apr. 2, gage-height, 4.85 ft; minimum daily, 794 ft³/s, Apr. 26, 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1260	1160	1660	1610	1430	1320	2260	1090	1310	e1400	1850
2	1480	1310	1170	1630	1520	1430	1320	1980	1130	1320	e1220	2000
3	1500	1360	1230	1650	1520	1430	1320	1910	1200	1320	1230	2010
4	1280	1410	1250	1680	1520	1430	1720	1540	1240	1320	1260	2010
5	1040	1440	1320	1720	1510	1440	2560	1390	1240	1320	1240	2010
6	1200	1440	1410	1760	1570	1450	2700	1380	1240	1320	1250	2010
7	1220	1440	1430	1760	1580	1460	2840	1390	1260	1320	1260	2010
8	1290	1440	1430	1760	1580	1450	2810	1380	1310	1310	1260	2020
9	1350	1650	1430	1750	1580	1420	2520	1150	1330	1310	1260	2020
10	1390	1540	1380	1730	1560	1450	2490	991	1330	1320	1270	2050
11	1380	1440	1300	1750	1560	1440	2440	1020	1330	1310	1270	2060
12	1380	1470	1280	1760	1490	1450	2090	1040	1350	1320	1270	2020
13	1380	1480	1280	1690	1380	1450	1530	1030	1400	1320	1260	1960
14	1410	1480	1290	1740	1420	1450	1220	1040	1400	1320	1250	1960
15	1420	1480	1340	1780	1460	1490	1160	1040	1400	1320	1480	1960
16	1420	1480	1330	1760	1430	1450	1030	1070	1410	1320	1700	1960
17	1470	1500	1350	1710	1410	1450	980	1100	1400	1320	1950	1960
18	1500	1450	1430	1710	1410	1440	980	1030	1380	1300	2080	1960
19	1480	1360	1470	1550	1410	1440	856	1060	1400	1310	1740	1960
20	1490	1380	1460	1600	1410	1440	808	992	1410	1300	1570	1880
21	1460	1440	1430	1600	1440	1430	868	989	1410	1310	1570	1770
22	1390	1430	1440	1620	1480	1420	884	996	1390	1310	1600	1960
23	1380	1470	1440	1620	1450	1430	937	1070	1360	1300	1630	1960
24	1370	1510	1450	1630	1440	1430	964	1100	1360	1310	1620	1960
25	1380	1500	1450	1630	1430	1430	846	1070	1310	1310	1360	1870
26	1390	1350	1450	1650	1430	1240	794	908	1300	e1310	1250	1810
27	1400	1370	1470	1690	1430	1190	794	908	1310	e1310	1450	1810
28	1280	1480	1500	1750	1430	1330	879	971	1310	e1310	1510	1820
29	1110	1490	1540	1720	1430	1320	1870	1070	1300	e1280	1520	1820
30	1190	1430	1600	1680	---	1320	2300	1050	1300	e1250	1530	1720
31	1210	---	1660	1630	---	1320	---	1100	---	e1310	1530	---
TOTAL	42130	43280	43170	52370	42890	43750	45830	37025	39600	40620	44790	58170
MEAN	1359	1443	1393	1689	1479	1411	1528	1194	1320	1310	1445	1939
MAX	1500	1650	1660	1780	1610	1490	2840	2260	1410	1320	2080	2060
MIN	1040	1260	1160	1550	1380	1190	794	908	1090	1250	1220	1720

CAL YR 1987 TOTAL 600762 MEAN 1646 MAX 8490 MIN 722
WTR YR 1988 TOTAL 533625 MEAN 1458 MAX 2840 MIN 794

e Estimated

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

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

DRAINAGE AREA.--1,361 mi².

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

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

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

REMARKS.--No estimated daily discharges. Records 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.--75 years, 2,457 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,000 ft³/s, Apr. 6, gage height, 7.12 ft; minimum daily, 1,390 ft³/s, Aug. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1780	1690	3270	2020	1890	1640	3040	4870	1620	1970	2150	2230
2	1710	1680	2410	1900	2070	1620	3340	4340	1500	2430	1850	2550
3	1710	1710	2080	1840	1990	1640	3750	3640	1520	2250	1440	2360
4	2530	1700	1880	1910	1990	1630	3800	3190	1590	1900	1470	2110
5	3080	1840	1810	1880	1890	1630	5850	2530	1540	1630	1500	2330
6	2120	2220	1760	1880	1880	1640	7830	2440	1540	1560	1450	2500
7	1890	2560	1850	1930	1900	1650	6460	2370	1510	1590	1460	2410
8	1840	2500	1690	1900	1890	1660	5800	2210	1540	1550	1450	2300
9	1760	2340	1840	2000	1840	1660	4520	2040	1560	1540	1480	2170
10	1750	1920	1860	1910	1850	1680	4650	1680	1560	1520	1470	2140
11	1730	1750	1880	1860	1820	1710	4350	1670	1560	1510	1440	2220
12	1720	1750	1800	1940	1840	1690	4110	1960	1540	1510	1430	2260
13	1690	1730	1780	2000	1670	1700	3540	1790	1590	1510	1390	2280
14	1660	1760	1720	1880	1630	1690	2620	1870	1610	1540	1590	2050
15	1680	1740	1730	1880	1700	1700	2310	1700	1570	1540	1800	2070
16	1650	1740	1770	1960	1710	1700	2280	1610	1570	1550	1940	2040
17	1630	1720	1750	1930	1680	1670	2010	1680	1650	1590	2150	2020
18	1740	1860	1690	1960	1640	1660	2080	1780	1640	1570	2300	2150
19	1720	1940	1780	1900	1650	1660	2450	1600	1560	1570	2190	2160
20	1700	1720	1780	1850	1670	1650	2070	1600	1590	1540	1760	2170
21	1760	1720	1780	1880	1670	1650	1820	1630	1610	1570	1720	2110
22	1880	1710	1780	1860	1700	1630	1800	1510	1560	1620	1730	2020
23	1800	1670	1770	1820	1720	1640	1700	1450	1710	1530	1740	2240
24	1720	1750	1760	1820	1690	1650	1900	1550	1590	1540	1800	2070
25	1730	1820	1770	1860	1660	1720	2130	1690	1610	1510	2030	2040
26	1850	1830	1820	1860	1650	1930	1960	2320	1930	1560	1700	1960
27	1720	1620	1760	1850	1650	2180	1880	1900	1820	1580	1560	1930
28	1910	1740	1810	1880	1630	2860	1810	1650	1570	1580	1810	1940
29	2040	1730	1800	1940	1640	2510	5940	1620	1570	1590	2520	1970
30	1770	2030	1690	1920	---	2460	6320	1510	1550	1470	3130	1960
31	1700	---	1750	1870	---	2710	---	1580	---	1490	2640	---
TOTAL	56970	55490	57620	58890	51210	56220	104120	64980	47880	50410	56090	64760
MEAN	1838	1850	1859	1900	1766	1814	3471	2096	1596	1626	1809	2159
MAX	3080	2560	3270	2020	2070	2860	7830	4870	1930	2430	3130	2550
MIN	1630	1620	1690	1820	1630	1620	1700	1450	1500	1470	1390	1930

CAL YR 1987 TOTAL 778660 MEAN 2133 MAX 14400 MIN 1230
WTR YR 1988 TOTAL 724640 MEAN 1980 MAX 7830 MIN 1390

ANDROSCOGGIN RIVER BASIN

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

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

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Estimated daily discharges: Nov. 22-30, Dec. 3 to Mar. 27, and Aug. 14-24. Records good except for periods of ice effect, Nov. 22-30 and Dec. 3 to Mar. 27, and period of missing record, Aug. 14-24, which are fair.

AVERAGE DISCHARGE.--24 years, 181 ft³/s, 35.32 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. 27	1430	ice jam	*11.87	Apr. 29	0445	*8000	9.96
Apr. 5	1530	3170	7.13				

Minimum discharge, 15 ft³/s, July 14, gage height, 2.90 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	116	643	e79	e115	e35	341	579	121	134	78	117
2	41	104	267	e76	e105	e35	392	483	102	57	47	82
3	35	95	e164	e73	e99	e34	484	469	96	42	35	65
4	506	91	e126	e71	e86	e34	881	357	88	33	29	60
5	284	86	e110	e69	e77	e34	1700	326	80	28	30	370
6	134	80	e102	e68	e68	e33	959	345	79	26	43	152
7	184	70	e100	e66	e60	e33	553	320	69	24	26	97
8	394	70	e98	e64	e56	e33	384	254	61	22	29	74
9	156	75	e97	e63	e51	e34	377	227	56	20	26	61
10	111	74	e108	e62	e48	e36	414	233	55	38	22	54
11	96	65	e130	e61	e47	e36	371	248	53	29	20	44
12	94	61	e118	e61	e45	e32	313	288	47	21	18	40
13	85	63	e105	e60	e44	e30	251	224	42	17	16	39
14	74	56	e98	e59	e42	e30	211	245	37	17	e16	38
15	69	54	e94	e59	e41	e30	196	179	34	28	e260	37
16	64	51	e88	e58	e40	e30	185	167	31	21	e120	35
17	60	50	e86	e62	e40	e30	174	172	35	19	e67	33
18	57	153	e84	e74	e39	e29	229	227	42	26	e36	40
19	54	131	e82	e69	e38	e29	272	285	33	21	e31	52
20	53	94	e80	e65	e42	e29	197	942	29	18	e27	40
21	60	76	e81	e60	e46	e28	159	529	25	26	e24	70
22	105	e55	e82	e57	e44	e27	142	304	23	225	e22	57
23	75	e66	e83	e54	e43	e27	128	252	36	68	e21	42
24	67	e73	e81	e52	e41	e50	151	197	35	42	e29	37
25	77	e73	e86	e51	e40	e89	168	411	32	51	702	33
26	85	e68	e110	e50	e38	e294	145	487	87	58	209	30
27	68	e70	e102	e50	e37	e1190	163	264	44	165	107	29
28	629	e68	e94	e49	e37	650	259	195	32	91	69	27
29	435	e70	e90	e49	e36	221	3780	156	28	109	223	27
30	194	e818	e85	e49	---	218	1210	135	30	52	682	26
31	142	---	e82	e49	---	313	---	143	---	58	203	---
TOTAL	4541	3076	3756	1889	1545	3753	15189	9643	1562	1586	3267	1908
MEAN	146	103	121	60.9	53.3	121	506	311	52.1	51.2	105	63.6
MAX	629	818	643	79	115	1190	3780	942	121	225	702	370
MIN	35	50	80	49	36	27	128	135	23	17	16	26
CFSM	2.10	1.47	1.74	.88	.77	1.74	7.27	4.47	.75	.74	1.51	.91
IN.	2.43	1.64	2.01	1.01	.83	2.01	8.12	5.15	.83	.85	1.75	1.02

CAL YR 1987 TOTAL 63551 MEAN 174 MAX 7240 MIN 10 CFSM 2.50 IN. 33.97
WTR YR 1988 TOTAL 51715 MEAN 141 MAX 3780 MIN 16 CFSM 2.03 IN. 27.64

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 TEMPERATURE: July 1964 to September 1983.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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)
OCT												
20...	1100	52	21	6.6	17.0	8.5	0.2	750	11.3	98	K 6	--
FEB												
08...	1000	E 56	21	6.3	-5.0	0.0	0.3	750	14.2	99	<1	K 1
APR												
19...	0900	283	20	6.4	11.0	3.0	0.4	740	13.0	99	K 2	<1
AUG												
24...	0915	12	24	7.0	12.0	13.5	0.6	740	9.9	98	<1	30

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)
OCT												
20...	7	1.5	0.69	1.3	0.5	4	0	3	3	4	6.3	1.9
FEB												
08...	6	1.5	0.51	1.6	0.1	3	0	3	4	3	6.1	0.6
APR												
19...	5	1.3	0.44	1.2	0.4	2	0	2	3	3	6.7	0.8
AUG												
24...	6	1.6	0.57	1.4	0.4	5	0	4	5	5	5.7	0.5

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 1987 TO SEPTEMBER 1988

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)
OCT 20...	0.1	7.2	17	21	<0.10	<0.01	--	<0.2	<0.01	<0.01	<0.01
FEB 08...	0.2	6.8	18	20	<0.10	<0.01	--	<0.2	<0.01	0.01	<0.01
APR 19...	0.1	4.9	22	18	<0.10	0.02	0.03	<0.2	0.01	0.01	<0.01
AUG 24...	0.1	7.5	21	21	<0.10	<0.01	--	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)
OCT 20...	70	<1	8	<0.5	<1	2	<3	1	45	<5	<4	5
FEB 08...	70	<1	12	<0.5	3	<1	<3	<1	28	<5	<4	3
APR 19...	140	2	8	<0.5	<1	<1	<3	5	24	<5	<4	3
AUG 24...	30	<1	8	<0.5	<1	<1	<3	2	29	<5	<4	3

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
OCT 20...	<0.1	<10	4	<1	<1.0	14	<6	21	6	0.84	19
FEB 08...	<0.1	<10	<1	<1	<1.0	15	<6	5	1	0.15	100
APR 19...	<0.1	<10	1	<1	<1.0	11	<6	15	2	1.5	86
AUG 24...	<0.1	<10	2	<1	1.0	15	<6	24	2	0.06	50

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)	GROSS RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT 20...	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--
APR 19...	1.4	<0.4	0.5	<0.4	0.5	<0.4	<0.02	--
AUG 24...	0.5	<0.4	0.8	<0.4	0.7	<0.4	0.03	--

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. 11, 14-15, Feb. 6 and Apr. 29 to May 1. Records good, including periods of doubtful gage-height record, Jan. 11, 14-15, Feb. 6 and Apr. 29 to May 1. Prior to Nov. 19, 1979, discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Azischohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi 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.--96 years, 3,721 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, 20,100 ft³/s, Apr. 29, gage height 10.67 ft; minimum daily, 1,710 ft³/s, Aug. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2220	3100	8150	2530	2420	2080	6610	e11000	3270	2370	2500	3940
2	2340	2880	7110	2920	2940	2050	7600	8600	2750	2920	2770	3300
3	2170	2720	4710	2540	3590	2080	8280	8070	2520	3120	2170	3310
4	3140	2780	3830	2500	3250	2090	8550	6900	2460	2730	1820	2980
5	7640	2740	3420	2560	2950	2030	12300	5880	2440	2270	1840	3420
6	5010	2850	2930	2380	e2600	2020	16500	5470	2570	2050	1910	3860
7	3470	2750	2580	2200	2630	2090	13500	5380	2360	1970	1880	3490
8	4490	2670	2450	2280	2590	2060	10500	5050	2480	1970	1900	3120
9	3910	2530	2980	2500	2500	2100	8970	4470	2250	1920	1890	2880
10	3080	2670	3330	2590	2450	2140	8280	3900	2310	1950	1830	2810
11	2810	2790	3580	e2400	2390	2180	8200	3720	2200	1880	1760	2670
12	2810	2480	3580	2410	2360	2080	7500	4220	2160	1850	1830	2730
13	2760	2490	3280	2600	2310	2260	6720	4030	2100	1860	1710	2760
14	2590	2440	3010	e2380	2140	2170	5750	4150	2100	1810	1740	2660
15	2500	2450	2830	e2220	2130	2150	4810	3740	2060	1970	3090	2580
16	2440	2410	2920	2320	2300	2160	4450	3330	1970	1950	2650	2500
17	2410	2350	2730	2530	2270	2140	4240	3130	2040	1960	2760	2470
18	2390	2510	1930	2580	2220	2140	4080	3460	2070	1960	2880	2540
19	2480	3040	2210	2700	2200	2140	4440	3980	2010	1960	2810	2720
20	2420	2800	2510	2660	2200	2140	4840	4090	1920	1860	2490	2690
21	2430	2430	2650	2540	2210	1960	3930	5240	1920	1900	2210	2810
22	2880	1840	2790	2540	2130	1930	3500	3980	1960	2430	2130	2740
23	2850	2060	2800	2450	2260	2080	3310	3250	1990	2360	2130	2670
24	2610	2520	2640	2330	2240	2130	3220	3000	2180	2070	2220	2730
25	2520	2720	2760	2360	2180	2280	3890	3030	2030	2070	3360	2530
26	2750	2640	2920	2450	2150	2560	3950	5290	2400	2120	4130	2460
27	2630	2460	2490	2350	2110	4210	3680	5010	2820	2200	2750	2390
28	3120	2270	2450	2180	2100	6860	3670	3720	2300	2170	2300	2350
29	6940	2370	2280	2320	2070	5600	e15100	3130	2050	2390	2880	2330
30	4650	3040	1770	2460	---	4960	e18200	2920	2050	2210	5730	2330
31	3590	---	1810	2440	---	5420	---	3120	---	1970	5500	---
TOTAL	100050	77800	97430	76220	69890	82290	218570	144260	67740	66220	79570	84770
MEAN	3227	2593	3143	2459	2410	2655	7286	4654	2258	2136	2567	2826
MAX	7640	3100	8150	2920	3590	6860	18200	11000	3270	3120	5730	3940
MIN	2170	1840	1770	2180	2070	1930	3220	2920	1920	1810	1710	2330

CAL YR 1987 TOTAL 1349790 MEAN 3698 MAX 61100 MIN 1770
WTR YR 1988 TOTAL 1164810 MEAN 3183 MAX 18200 MIN 1710

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: Dec. 17 to Feb. 3, Feb. 13-28, Mar. 10-11, 25-27, and June 6-30. Records are good except for periods of ice effect, Dec. 17 to Feb. 3, Feb. 13-28, Mar. 10-11 and 25-27, and period of no gage-height record, June 6-30, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--59 years, 198 ft³/s, 27.75 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. 29	0900	*3,000	*5.92	No other peak greater than base discharge.			
Minimum discharge, 14 ft ³ /s, Aug. 13, gage height, 1.07 ft.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	145	783	e64	e55	43	477	563	114	162	164	110
2	73	125	326	e63	e130	42	591	547	95	210	71	73
3	52	115	209	e61	e418	43	629	507	88	98	45	56
4	410	111	162	e60	365	42	824	408	79	58	40	50
5	404	106	138	e59	174	42	1260	379	71	49	38	180
6	175	104	126	e58	107	41	1150	396	e114	38	29	127
7	133	90	107	e55	87	41	824	356	e79	32	27	79
8	341	83	101	e52	73	43	617	288	e60	28	34	58
9	190	91	122	e49	64	42	588	242	e52	24	28	47
10	134	91	150	e47	60	e46	693	232	e47	46	22	41
11	110	80	183	e45	57	e47	644	221	e44	37	19	35
12	102	75	171	e44	54	44	475	258	e42	26	16	31
13	89	70	142	e44	e53	44	374	216	e38	20	14	30
14	80	70	122	e43	e51	42	315	283	e36	39	33	31
15	73	68	114	e45	e50	42	298	201	e35	84	220	29
16	68	61	108	e48	e49	41	263	170	e35	39	107	27
17	64	63	e104	e52	e49	41	247	167	e41	29	61	25
18	61	86	e99	e56	e48	42	274	370	e47	33	43	37
19	59	100	e96	e70	e48	41	375	252	e37	27	31	66
20	56	80	e92	e73	e50	41	300	273	e31	22	24	48
21	69	72	e88	e62	e53	38	228	302	e26	32	26	105
22	153	87	e85	e57	e51	36	213	225	e22	110	32	82
23	105	70	e83	e53	e50	35	190	181	e39	54	26	54
24	90	68	e80	e49	e48	39	259	155	e37	38	24	47
25	121	71	e79	e49	e47	e59	297	238	e35	47	217	40
26	140	77	e90	e50	e45	e94	304	430	e120	44	162	34
27	101	75	e83	e46	e44	e606	321	268	e72	42	87	31
28	426	89	e77	e45	e43	561	323	187	e50	48	56	30
29	517	87	e73	e44	43	291	1650	147	e40	54	158	28
30	241	524	e69	e43	---	264	889	123	e53	35	572	28
31	176	---	e67	e43	---	376	---	135	---	310	210	---
TOTAL	4939	3034	4329	1629	2466	3249	15892	8720	1679	1915	2636	1659
MEAN	159	101	140	52.5	85.0	105	530	281	56.0	61.8	85.0	55.3
MAX	517	524	783	73	418	606	1650	563	120	310	572	180
MIN	52	61	67	43	43	35	190	123	22	20	14	25
CFSM	1.64	1.04	1.44	.54	.88	1.08	5.47	2.90	.58	.64	.88	.57
IN.	1.90	1.16	1.66	.63	.95	1.25	6.10	3.35	.64	.74	1.01	.64

CAL YR 1987 TOTAL 70403.3 MEAN 193 MAX 9120 MIN 9.1 CFSM 1.99 IN. 27.03
WTR YR 1988 TOTAL 52147 MEAN 142 MAX 1650 MIN 14 CFSM 1.47 IN. 20.02

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. 5 to Mar. 27. Records good except for period of ice effect, Dec. 5 to Mar. 27, which is fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--47 years, 303 ft³/s, 24.35 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)
Dec. 2	0200	*1,630	4.24	No other peak greater than base discharge.			

Minimum discharge, 27 ft³/s, Oct. 1, 2, gage height, 1.08 ft, caused by unusual regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	260	1150	e136	e112	e128	988	881	230	53	81	247
2	52	211	1490	e126	e138	e120	940	700	177	55	74	175
3	71	180	917	e120	e182	e114	929	606	144	55	60	136
4	105	164	624	e115	e175	e117	885	493	126	50	50	113
5	315	153	e480	e110	e158	e107	966	397	117	44	41	177
6	293	145	e375	e106	e150	e105	1190	334	173	39	36	224
7	196	138	e270	e99	e140	e108	983	291	197	36	40	177
8	155	134	e230	e96	e135	e112	750	252	148	33	132	137
9	151	130	e200	e93	e125	e113	615	223	117	32	170	110
10	121	126	e190	e91	e115	e111	514	204	101	31	170	88
11	102	122	e220	e89	e110	e109	478	208	91	34	154	73
12	105	116	e260	e87	e106	e105	476	249	83	40	134	63
13	105	110	e235	e85	e104	e103	409	243	76	35	97	56
14	99	106	e210	e82	e102	e98	352	223	70	31	71	52
15	92	101	e185	e80	e101	e92	317	207	64	30	101	48
16	87	97	e173	e79	e100	e87	339	189	58	29	131	44
17	82	91	e163	e77	e100	e82	420	175	64	30	94	41
18	81	62	e151	e76	e100	e79	537	166	79	36	73	42
19	80	73	e141	e90	e102	e76	568	165	87	33	58	44
20	89	119	e136	e111	e145	e74	484	189	75	30	49	45
21	105	112	e129	e139	e205	e72	403	268	57	33	43	47
22	110	95	e125	e130	e260	e68	345	258	48	92	40	49
23	128	92	e119	e115	e235	e65	299	219	48	111	37	48
24	128	87	e128	e105	e205	e70	291	187	48	88	37	45
25	116	67	e125	e95	e183	e120	351	199	50	81	126	41
26	111	35	e150	e91	e164	e261	342	381	62	76	232	38
27	107	47	e234	e87	e150	e604	298	366	76	81	179	36
28	179	71	e207	e85	e139	1050	264	281	68	84	123	34
29	532	80	e181	e83	e135	1020	650	230	58	169	110	32
30	479	189	e163	e83	---	913	1140	187	51	125	288	30
31	337	---	e145	e87	---	918	---	203	---	86	367	---
TOTAL	4791	3513	9506	3048	4176	7201	17523	9174	2843	1782	3398	2492
MEAN	155	117	307	98.3	144	232	584	296	94.8	57.5	110	83.1
MAX	532	260	1490	139	260	1050	1190	881	230	169	367	247
MIN	52	35	119	76	100	65	264	165	48	29	36	30
CFSM	.91	.69	1.81	.58	.85	1.37	3.46	1.75	.56	.34	.65	.49
IN.	1.05	.77	2.09	.67	.92	1.59	3.86	2.02	.63	.39	.75	.55

CAL YR 1987 TOTAL 104563 MEAN 286 MAX 9990 MIN 18 CFSM 1.70 IN. 23.02
WTR YR 1988 TOTAL 69447 MEAN 190 MAX 1490 MIN 29 CFSM 1.12 IN. 15.29

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 TEMPERATURE: 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 on May 20, 1983. Prior to this date pump was located 47 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, 189 microsiemens, Aug. 20, 1988; 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 TEMPERATURE: Maximum, 28.5°C, Aug. 7, 12, 14, 1988; 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, 189 microsiemens, Aug. 20; minimum, 21 microsiemens, Apr. 2.

pH: Maximum, 7.2 units, Nov. 30, Dec. 1, 2, July 15; minimum, 6.1 units, Apr. 8.

WATER TEMPERATURE: Maximum, 28.5°C, Aug. 7, 12, 14, 1988; minimum, 0.5°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.7 mg/L, Dec. 6; minimum, 2.5 mg/L, July 23.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	123	120	121	135	124	129	156	152	154	125	123	124
2	121	119	120	126	102	118	158	135	152	125	123	124
3	123	121	122	113	90	105	135	100	118	123	120	122
4	126	120	123	100	83	91	107	78	90	122	119	121
5	134	125	127	95	86	90	91	72	80	123	119	121
6	151	137	144	95	92	94	83	71	75	137	121	126
7	147	130	140	97	93	95	78	74	77	138	127	131
8	135	109	121	102	96	99	81	77	79	143	129	137
9	129	92	110	113	102	106	83	78	81	144	135	141
10	115	89	96	114	106	110	89	82	85	141	135	139
11	111	98	105	118	108	113	94	84	91	145	138	140
12	105	97	100	123	118	121	101	91	96	146	138	142
13	99	97	98	132	122	127	111	96	102	147	141	143
14	99	96	98	134	128	130	122	110	116	148	142	145
15	107	99	102	134	128	132	128	115	121	151	146	149
16	112	101	106	138	133	135	119	114	116	152	150	150
17	118	105	111	141	136	138	116	107	112	151	148	150
18	118	111	114	142	139	140	112	106	108	151	143	148
19	122	109	116	144	140	142	108	104	106	148	139	144
20	124	118	121	145	142	144	106	103	105	144	138	141
21	133	121	126	149	143	147	106	104	105	143	136	140
22	139	134	137	154	149	152	109	104	106	145	137	141
23	147	137	141	160	154	157	112	107	109	145	141	143
24	157	147	150	161	159	160	118	107	112	147	143	145
25	161	152	157	163	160	161	126	110	117	148	145	147
26	163	153	158	162	153	159	130	117	123	148	147	147
27	159	157	158	158	153	155	133	123	128	149	146	147
28	157	151	155	157	152	155	132	125	130	149	147	148
29	153	150	152	155	151	153	129	125	127	150	148	149
30	152	144	148	153	151	152	127	124	126	150	148	149
31	145	134	140	---	---	---	125	123	124	151	148	149
MONTH	163	89	126	163	83	130	158	71	109	152	119	140

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

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SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	149	147	148	140	139	140	94	77	83	80	41	56
2	148	145	147	141	139	140	79	75	77	42	40	40
3	147	144	145	143	141	142	78	71	76	45	41	43
4	148	145	146	144	141	143	72	63	67	57	45	51
5	149	147	148	148	142	144	63	58	60	62	58	59
6	150	147	148	155	146	150	59	53	57	64	60	62
7	152	148	150	157	149	154	52	42	47	65	63	64
8	152	148	150	161	151	157	46	40	43	68	65	66
9	150	144	147	159	156	158	47	44	45	73	66	69
10	146	137	143	158	157	157	52	46	49	76	70	74
11	144	131	139	161	157	159	55	52	53	78	75	76
12	141	129	135	164	160	162	60	56	58	79	74	77
13	136	127	132	162	160	162	63	59	61	82	76	80
14	133	124	129	164	161	162	64	62	63	84	81	82
15	134	127	130	166	163	164	66	63	64	90	82	85
16	134	128	131	165	164	165	66	63	65	91	88	89
17	136	129	132	165	163	164	66	64	65	91	89	90
18	138	131	134	163	156	161	71	65	68	91	89	90
19	137	133	135	161	152	157	77	70	73	93	90	91
20	138	133	135	160	154	157	85	75	80	93	90	91
21	137	133	135	160	154	157	89	85	87	98	91	93
22	137	133	135	160	156	158	89	87	88	105	92	99
23	136	130	133	159	157	158	89	87	88	104	100	102
24	135	131	132	158	156	157	88	84	86	102	96	100
25	135	132	133	157	156	156	88	85	86	100	94	97
26	138	133	135	157	155	156	92	87	90	94	89	91
27	140	136	138	156	152	154	96	90	93	90	82	85
28	139	137	138	157	147	153	103	96	101	89	82	84
29	140	137	139	146	133	140	105	100	103	94	88	91
30	---	---	---	133	110	124	102	82	96	92	86	90
31	---	---	---	116	84	103	---	---	---	89	80	85
MONTH	152	124	139	166	84	152	105	40	72	105	40	79

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	82	79	81	166	163	165	171	165	168	137	128	131
2	80	77	78	166	163	166	169	165	167	132	124	127
3	83	79	80	166	163	166	167	163	166	126	114	119
4	93	82	90	166	156	160	165	160	162	118	97	109
5	97	85	90	161	158	159	161	159	160	119	93	105
6	103	91	100	163	159	162	161	159	160	109	101	106
7	106	100	103	164	161	162	160	155	158	104	98	100
8	107	105	106	163	161	162	156	154	155	106	98	102
9	110	107	108	161	158	160	154	153	154	119	106	114
10	113	109	111	161	156	159	153	150	152	117	108	112
11	116	112	113	158	154	157	152	150	151	117	106	111
12	121	115	117	155	153	154	151	148	150	111	108	110
13	137	120	127	155	153	154	151	149	150	119	113	116
14	142	131	136	157	152	153	153	150	151	---	---	---
15	144	133	139	159	156	157	155	151	152	119	116	118
16	143	139	141	159	157	158	157	153	155	123	119	121
17	141	137	139	161	159	160	160	156	158	129	122	125
18	140	137	139	162	159	160	168	159	164	139	127	135
19	139	135	136	167	159	161	181	168	173	138	133	136
20	135	134	135	168	164	165	189	180	185	140	135	138
21	137	135	136	166	163	164	185	179	182	141	136	139
22	137	136	136	168	163	166	183	177	180	138	136	137
23	139	136	138	176	166	169	179	171	176	138	137	137
24	140	139	139	175	169	172	173	165	169	139	137	138
25	145	140	143	174	171	171	170	159	165	141	138	139
26	148	145	146	178	173	175	163	158	161	140	139	140
27	155	147	151	179	174	176	161	151	155	139	138	139
28	168	152	160	180	177	178	159	155	158	138	136	136
29	167	159	161	178	176	177	160	156	159	137	134	135
30	168	160	163	178	171	174	162	158	161	135	133	134
31	---	---	---	172	167	170	160	133	150	---	---	---
MONTH	168	77	125	180	152	164	189	133	161	141	93	124
YEAR	MAXIMUM 189			MINIMUM 40			MEAN 127					

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	6.8	6.8	6.7	6.6	6.7	6.6	6.5	6.5	6.6	6.5	6.5
2	6.8	6.7	6.8	6.7	6.7	6.7	6.7	6.5	6.6	6.6	6.5	6.6
3	6.7	6.7	6.7	6.7	6.6	6.7	6.7	6.6	6.7	6.6	6.5	6.6
4	6.8	6.7	6.7	6.6	6.6	6.6	6.7	6.6	6.7	6.5	6.4	6.5
5	6.8	6.7	6.7	6.6	6.6	6.6	6.7	6.6	6.7	6.6	6.4	6.5
6	6.9	6.7	6.8	6.6	6.5	6.6	6.7	6.6	6.6	6.6	6.5	6.6
7	6.9	6.8	6.8	6.6	6.5	6.6	7.0	6.6	6.8	6.5	6.4	6.5
8	6.8	6.8	6.8	6.6	6.6	6.6	7.0	6.8	6.9	6.5	6.4	6.4
9	6.8	6.8	6.8	7.0	6.6	6.6	6.9	6.8	6.9	6.5	6.4	6.5
10	6.8	6.8	6.8	6.7	6.5	6.7	6.9	6.8	6.8	6.5	6.5	6.5
11	6.8	6.8	6.8	6.7	6.7	6.7	6.8	6.7	6.7	6.7	6.5	6.6
12	6.8	6.8	6.8	6.8	6.6	6.7	6.8	6.6	6.7	6.6	6.5	6.6
13	6.8	6.6	6.7	6.7	6.6	6.7	6.6	6.6	6.6	6.6	6.5	6.5
14	6.7	6.6	6.7	6.8	6.6	6.7	6.7	6.5	6.6	---	---	---
15	6.7	6.7	6.7	7.2	6.7	7.0	6.7	6.4	6.6	6.6	6.5	6.6
16	6.8	6.7	6.7	7.0	6.8	6.9	6.7	6.5	6.6	6.6	6.6	6.6
17	6.7	6.7	6.7	7.0	6.8	6.9	6.7	6.6	6.6	6.7	6.6	6.6
18	6.7	6.7	6.7	6.9	6.8	6.8	6.6	6.5	6.6	6.6	6.6	6.6
19	6.7	6.6	6.7	6.8	6.6	6.7	6.6	6.5	6.6	6.6	6.6	6.6
20	6.7	6.7	6.7	6.7	6.6	6.7	6.5	6.5	6.5	6.7	6.6	6.6
21	6.9	6.7	6.8	6.7	6.6	6.7	6.6	6.5	6.6	6.7	6.6	6.7
22	6.9	6.7	6.8	6.7	6.6	6.7	6.6	6.6	6.6	6.7	6.6	6.7
23	7.0	6.7	6.9	6.7	6.5	6.6	6.6	6.6	6.6	6.7	6.6	6.7
24	6.9	6.8	6.9	6.7	6.6	6.6	6.6	6.6	6.6	6.7	6.6	6.7
25	6.9	6.8	6.8	6.7	6.6	6.7	6.6	6.6	6.6	6.7	6.5	6.6
26	6.8	6.7	6.8	6.7	6.5	6.6	6.6	6.6	6.6	6.7	6.6	6.6
27	6.8	6.7	6.8	6.6	6.6	6.6	6.7	6.6	6.7	6.7	6.6	6.7
28	6.7	6.6	6.7	6.6	6.5	6.6	6.7	6.7	6.7	6.7	6.6	6.7
29	6.8	6.7	6.7	6.6	6.5	6.6	6.7	6.6	6.7	6.7	6.7	6.7
30	6.7	6.6	6.7	6.6	6.5	6.6	6.8	6.6	6.7	6.7	6.7	6.7
31	---	---	---	6.6	6.5	6.5	6.7	6.5	6.6	---	---	---
MONTH	7.0	6.6	6.8	7.2	6.5	6.7	7.0	6.4	6.7	6.7	6.4	6.6
YEAR	MAXIMUM	7.2	MINIMUM	6.1	MEAN	6.7						

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN DISSOLVED (DO), (MG/L), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	7.7	7.9	10.7	10.4	10.6	12.7	12.5	12.6	13.2	13.0	13.1
2	8.1	7.7	7.9	11.1	10.6	10.8	13.1	12.7	12.9	13.3	12.9	13.1
3	8.2	7.6	7.8	11.3	10.8	11.0	13.5	13.1	13.3	13.4	12.9	13.2
4	8.5	8.2	8.4	11.4	11.0	11.2	13.5	13.3	13.4	13.3	13.1	13.2
5	8.5	8.3	8.4	11.5	11.1	11.3	13.6	13.4	13.5	13.3	12.9	13.1
6	8.8	8.5	8.7	11.2	11.0	11.1	13.7	13.5	13.6	13.2	12.8	13.0
7	9.4	8.9	9.2	11.4	11.2	11.3	13.6	13.5	13.5	13.3	12.8	13.0
8	9.8	9.2	9.5	11.3	11.2	11.3	13.6	13.4	13.5	13.3	13.0	13.1
9	10.0	9.3	9.6	11.3	11.2	11.2	13.6	13.5	13.6	13.2	13.0	13.1
10	10.0	9.7	9.9	11.2	11.1	11.2	13.5	13.5	13.5	13.2	13.0	13.1
11	9.8	9.7	9.8	11.4	11.1	11.3	13.5	13.3	13.4	13.2	13.0	13.1
12	9.9	9.8	9.9	11.5	11.4	11.4	13.4	13.3	13.3	13.4	13.1	13.2
13	9.9	9.8	9.9	11.5	11.4	11.4	13.4	13.2	13.3	13.5	12.8	13.2
14	9.9	9.8	9.8	11.6	11.4	11.5	13.4	13.1	13.2	13.3	12.8	13.0
15	10.0	9.8	9.9	11.6	11.5	11.5	13.1	13.0	13.1	13.4	12.8	13.1
16	10.0	9.6	9.8	11.7	11.6	11.7	13.1	13.0	13.0	13.2	12.9	13.0
17	10.2	9.5	9.8	11.9	11.7	11.8	13.0	12.9	13.0	13.1	12.8	12.9
18	10.1	9.5	9.8	11.9	11.8	11.8	13.0	12.9	12.9	12.9	12.7	12.8
19	9.5	9.0	9.2	11.9	11.8	11.9	13.0	12.8	12.9	12.8	12.5	12.6
20	9.0	8.8	8.9	12.0	11.8	11.9	13.1	12.9	13.0	12.7	12.5	12.6
21	9.0	8.5	8.8	11.9	11.8	11.8	13.1	12.9	13.0	12.8	12.6	12.7
22	9.1	8.8	8.9	12.0	11.9	11.9	13.0	12.9	13.0	12.7	12.5	12.6
23	9.3	9.0	9.1	12.0	11.8	11.9	13.0	12.8	12.9	12.7	12.5	12.6
24	9.4	9.2	9.3	11.9	11.7	11.8	13.1	12.8	12.9	12.7	12.5	12.6
25	9.6	9.2	9.4	11.8	11.6	11.7	13.2	12.9	13.0	12.6	12.3	12.5
26	9.8	9.6	9.7	12.0	11.7	11.8	13.2	12.9	13.0	12.4	12.3	12.4
27	9.8	9.7	9.8	12.1	11.8	12.0	13.2	12.9	13.1	12.4	12.3	12.3
28	10.2	9.7	9.9	12.2	11.9	12.1	13.1	12.9	13.0	12.4	12.3	12.3
29	10.2	10.0	10.1	12.3	12.0	12.1	13.0	12.7	12.9	12.4	12.2	12.3
30	10.3	10.1	10.2	12.8	12.1	12.3	13.0	12.6	12.8	12.5	12.2	12.3
31	10.6	10.2	10.4	---	---	---	13.2	12.8	13.0	12.6	12.2	12.4
MONTH	10.6	7.6	9.3	12.8	10.4	11.6	13.7	12.5	13.1	13.5	12.2	12.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.5	12.3	12.4	12.2	12.1	12.1	13.4	13.1	13.2	---	---	---
2	12.5	12.2	12.4	12.3	12.0	12.2	13.2	13.1	13.2	---	---	---
3	12.5	12.2	12.4	12.3	12.1	12.2	13.3	13.1	13.1	---	---	---
4	12.5	12.3	12.4	12.4	12.1	12.2	13.3	13.2	13.3	---	---	---
5	12.6	12.4	12.5	12.2	12.0	12.1	13.3	13.0	13.2	11.7	11.3	11.5
6	12.5	12.2	12.4	12.3	12.1	12.2	13.0	12.6	12.7	11.5	10.8	11.2
7	12.5	12.1	12.3	12.3	12.1	12.2	13.0	12.6	12.8	11.0	10.2	10.6
8	12.5	12.2	12.3	12.4	12.1	12.3	13.0	12.9	12.9	10.5	10.0	10.2
9	12.6	12.2	12.4	12.4	12.2	12.3	12.9	12.7	12.8	10.1	9.4	9.9
10	12.7	12.3	12.4	12.2	11.9	12.1	12.8	12.7	12.7	9.5	9.2	9.3
11	12.6	12.4	12.5	12.0	11.8	11.9	12.7	12.3	12.5	9.4	9.2	9.3
12	12.6	12.4	12.5	12.1	11.8	11.9	---	---	---	10.0	8.6	9.3
13	12.6	12.3	12.4	12.0	11.9	12.0	---	---	---	9.3	9.0	9.2
14	12.7	12.2	12.4	12.0	11.8	11.9	---	---	---	8.9	7.6	8.7
15	12.6	12.3	12.4	12.1	11.9	12.0	---	---	---	8.9	8.3	8.6
16	12.5	12.2	12.3	12.1	11.9	12.0	---	---	---	10.0	8.5	8.7
17	12.4	12.2	12.3	12.2	12.0	12.0	---	---	---	8.5	6.9	8.2
18	12.4	12.1	12.3	12.4	12.0	12.2	---	---	---	8.2	7.8	7.9
19	12.3	12.1	12.2	12.5	11.9	12.2	---	---	---	7.8	7.8	7.8
20	12.3	12.1	12.2	12.4	11.8	12.1	---	---	---	7.8	7.7	7.7
21	12.3	12.0	12.1	12.1	11.5	11.8	---	---	---	7.6	7.0	7.5
22	12.3	12.0	12.2	11.9	11.5	11.7	---	---	---	7.6	7.4	7.5
23	12.3	12.1	12.2	11.9	11.6	11.8	---	---	---	7.5	7.2	7.3
24	12.4	11.9	12.2	11.9	11.6	11.8	---	---	---	7.5	7.4	7.4
25	12.3	12.1	12.2	12.0	11.7	11.8	---	---	---	7.6	7.4	7.5
26	12.2	12.0	12.1	12.0	11.8	11.9	---	---	---	7.6	7.2	7.5
27	12.2	11.9	12.1	12.0	11.9	12.1	---	---	---	7.5	6.4	7.3
28	12.2	12.0	12.1	12.0	11.7	12.2	---	---	---	7.4	7.0	7.3
29	12.2	12.0	12.1	12.5	11.3	12.4	---	---	---	7.3	7.2	7.2
30	---	---	---	12.9	11.5	12.7	---	---	---	7.5	7.2	7.4
31	---	---	---	13.3	12.8	13.0	---	---	---	7.5	7.0	7.3
MONTH	12.7	11.9	12.3	13.3	11.5	12.1	13.4	12.3	12.9	11.7	6.4	8.5

01056600 ANDROSCOGGIN RIVER AT NORTH BRIDGE AT AUBURN, ME

LOCATION.--Lat 44°05'50", long 70°13'26", Androscoggin County, Hydrologic Unit 01040002, on the Auburn side of North Bridge, downstream side of second pier from right bank, on the Androscoggin River, 700 ft. below Great Falls.

DRAINAGE AREA.--2,907 mi².

PERIOD OF RECORD.--Water year July to September 1988.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July to September 1988.

DISSOLVED OXYGEN: July to September 1988.

INSTRUMENTATION.--Water-quality monitor since July 1988. Probes located in current at base of bridge pier.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.5°C, Aug. 13, 1988; minimum, 15.5°C, Sept. 30, 1988.

DISSOLVED OXYGEN: Maximum, 9.5 mg/L, Aug. 31, 1988; minimum, 4.9 mg/L, July 10, 1988.

WATER TEMPERATURE, (DEG. C.), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	8.0	6.7	7.3	9.3	9.1	9.2
2	---	---	---	---	---	---	8.3	6.5	7.1	9.3	8.3	8.9
3	---	---	---	---	---	---	7.3	6.9	7.2	8.6	8.3	8.4
4	---	---	---	---	---	---	7.3	6.6	7.0	8.4	8.2	8.3
5	---	---	---	---	---	---	7.2	6.5	7.0	8.3	8.1	8.2
6	---	---	---	---	---	---	7.4	6.6	7.0	8.5	8.2	8.3
7	---	---	---	8.7	7.5	8.0	7.4	6.6	6.9	8.3	7.9	8.2
8	---	---	---	8.3	7.6	8.1	7.1	6.3	6.8	8.3	7.9	8.1
9	---	---	---	8.3	8.0	8.2	7.2	6.1	6.8	8.2	8.0	8.1
10	---	---	---	8.3	4.9	7.4	7.2	6.4	6.9	8.0	7.8	7.9
11	---	---	---	8.2	7.9	8.1	7.3	6.6	7.0	8.1	7.8	8.0
12	---	---	---	8.1	7.9	8.0	7.2	6.6	7.0	8.2	7.9	8.0
13	---	---	---	8.1	7.3	7.9	7.2	6.6	7.0	7.9	7.8	7.9
14	---	---	---	8.1	7.4	7.9	7.1	6.2	6.7	8.0	7.8	7.9
15	---	---	---	8.0	7.3	7.8	7.0	6.5	6.8	8.2	7.9	8.0
16	---	---	---	8.7	7.6	8.1	7.3	6.6	6.9	8.4	8.0	8.2
17	---	---	---	8.2	7.9	8.0	7.5	7.1	7.2	8.2	8.0	8.1
18	---	---	---	8.1	7.5	7.9	7.3	7.0	7.2	8.1	8.0	8.1
19	---	---	---	7.8	7.3	7.7	7.5	7.0	7.2	8.2	8.0	8.1
20	---	---	---	8.0	7.2	7.7	7.4	7.1	7.3	8.2	8.1	8.1
21	---	---	---	7.8	7.0	7.6	7.6	7.2	7.4	8.3	8.1	8.2
22	---	---	---	7.6	7.1	7.3	7.8	7.5	7.6	8.3	8.2	8.3
23	---	---	---	7.5	7.1	7.3	7.9	6.8	7.5	8.3	8.2	8.3
24	---	---	---	7.3	7.1	7.2	7.0	6.9	6.9	9.0	8.3	8.5
25	---	---	---	7.3	7.1	7.2	7.2	6.9	7.0	9.2	8.9	9.0
26	---	---	---	7.8	7.0	7.5	7.4	7.0	7.2	9.1	8.3	8.7
27	---	---	---	7.8	6.9	7.3	8.7	7.6	8.1	8.7	8.4	8.5
28	---	---	---	7.1	6.8	6.9	7.8	7.6	7.7	8.9	8.5	8.7
29	---	---	---	7.1	6.7	6.9	7.8	7.5	7.7	9.2	8.7	8.9
30	---	---	---	7.5	6.7	7.1	8.8	8.0	8.2	9.1	8.4	8.8
31	---	---	---	7.6	7.4	7.5	9.5	9.0	9.3	---	---	---
MONTH	---	---	---	8.7	4.9	7.6	9.5	6.1	7.3	9.3	7.8	8.3
PERIOD	MAXIMUM 9.5			MINIMUM 4.9			MEAN 7.7					

ANDROSCOGGIN RIVER BASIN

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 Sept. 27, 1984, water-stage recorder at site 1.0 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 4-7, Nov. 16-18, and Dec. 6 to Mar. 24. Records fair including period of ice effect, Dec. 6 to Mar. 24, and periods of no gage-height record, Oct. 4-7, and Nov. 16-18.

Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--67 years (water years 1914-23, 1932 to current year), 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)
Dec. 1	0915	1,070	*5.91	Apr. 29	1630	*1,180	*6.10

Minimum discharge, 6.2 ft³/s, July 17, gage height, 1.84 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	121	948	e48	e46	e50	465	428	186	19	71	131
2	37	104	523	e46	e70	e49	446	375	130	21	45	78
3	31	93	313	e44	e97	e49	482	334	108	19	31	50
4	e85	75	239	e43	e86	e48	458	280	93	15	23	39
5	e175	67	194	e42	e78	e48	600	245	81	12	18	133
6	e170	67	e155	e41	e70	e49	695	230	125	10	17	107
7	e150	67	e125	e40	e65	e49	455	200	97	9.3	16	63
8	126	59	e110	e38	e61	e49	351	170	71	8.3	47	45
9	126	50	e105	e37	e58	e50	301	146	57	7.4	34	35
10	122	50	e115	e36	e56	e50	268	131	49	6.8	24	29
11	111	49	e130	e34	e54	e50	276	141	43	11	18	23
12	85	49	e145	e33	e53	e51	273	172	37	11	15	19
13	67	45	e120	e33	e52	e51	234	150	32	8.7	12	17
14	67	42	e105	e32	e51	e52	203	149	26	7.0	13	16
15	59	41	e97	e32	e50	e52	182	135	22	7.5	37	14
16	46	e39	e90	e31	e49	e53	200	122	19	7.3	32	12
17	46	e38	e83	e32	e49	e54	238	114	25	6.6	24	12
18	43	e72	e79	e34	e48	e55	267	106	37	9.3	18	12
19	40	81	e76	e39	e48	e56	258	120	27	8.9	15	15
20	40	68	e72	e63	e48	e55	224	138	21	7.4	12	15
21	40	53	e69	e58	e52	e54	192	168	17	7.4	11	21
22	81	59	e66	e52	e63	e53	168	153	14	97	10	26
23	72	44	e63	e47	e73	e52	152	132	17	57	9.2	20
24	60	45	e60	e44	e68	e56	170	114	19	39	8.8	18
25	57	46	e69	e42	e62	128	223	152	16	44	145	16
26	57	53	e82	e40	e59	170	187	277	54	39	135	14
27	57	57	e71	e39	e55	438	163	211	37	91	72	12
28	188	52	e63	e37	e53	601	144	156	25	76	45	12
29	329	53	e57	e37	e52	400	812	123	20	155	81	10
30	233	240	e52	e36	---	379	726	98	18	68	301	9.5
31	169	---	e49	e36	---	426	---	236	---	53	214	---
TOTAL	3011	1979	4525	1246	1726	3777	9813	5706	1523	938.9	1554.0	1023.5
MEAN	97.1	66.0	146	40.2	59.5	122	327	184	50.8	30.3	50.1	34.1
MAX	329	240	948	63	97	601	812	428	186	155	301	133
MIN	31	38	49	31	46	48	144	98	14	6.6	8.8	9.5
CFSM	1.32	.90	1.99	.55	.81	1.66	4.45	2.50	.69	.41	.68	.46
IN.	1.52	1.00	2.29	.63	.87	1.91	4.97	2.89	.77	.48	.79	.52

CAL YR 1987 TOTAL 50666.5 MEAN 139 MAX 6760 MIN 3.5 CFSM 1.89 IN. 25.64
WTR YR 1988 TOTAL 36822.4 MEAN 101 MAX 948 MIN 6.6 CFSM 1.37 IN. 18.64

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: Sept. 26-29. Records excellent except for period of no gage-height record, Sept. 26-29, which is good. 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.--60 years, 6,116 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, 28,700 ft³/s, Apr. 30, gage height, 10.01 ft; minimum daily, 1,360 ft³/s, July 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1530	3720	12800	2490	3480	2730	11500	20700	4900	2280	2820	6960
2	1380	3480	16000	3180	3590	2760	12400	15200	4870	2860	2880	5850
3	1820	3980	10800	3640	3620	2670	14300	13400	4800	3560	3450	4920
4	4160	3930	7590	3990	4010	2880	13600	12100	2120	3840	3180	4600
5	6090	3850	6270	3600	4930	3330	17100	10500	4260	3260	2450	4280
6	8270	3710	5870	3360	4550	3330	24000	9510	4270	2310	2430	4300
7	6020	3890	5230	3410	4340	3100	23200	8790	3040	2470	2220	4390
8	4900	3760	4700	2670	3580	2960	18600	8470	2560	2280	2570	4080
9	5420	3330	3730	2110	3450	2950	15200	7910	2610	2090	2600	3800
10	5770	2590	4110	2420	3370	2990	12900	7030	2670	2160	2390	3830
11	5710	2150	4950	3650	3160	3240	13100	6440	2650	2540	2260	3850
12	5620	2820	6000	4060	2920	3180	12000	6420	2630	2170	2130	2810
13	5010	3300	5640	3580	2940	3210	11000	6120	2980	2190	1900	2590
14	4310	2540	5010	3310	2950	3180	10000	6380	2390	2180	1830	3110
15	1840	3090	4880	2790	2950	3170	8740	6190	2720	2190	2590	3660
16	4430	3090	4820	2440	3030	3130	8320	6070	3090	1360	3690	3120
17	4230	3070	4610	2320	3140	3120	7940	5920	2310	2080	4180	2780
18	4260	2800	4310	3270	3130	3220	8400	4890	1830	2070	4390	2870
19	2890	2640	3740	3690	3450	3420	8440	4520	1820	2060	3660	2780
20	2950	4480	3560	3700	3600	3710	8760	5950	2130	2150	2700	2850
21	2970	2820	3310	3740	3530	3730	8310	6400	2330	2370	2680	3400
22	2810	2640	3350	3530	3470	2630	7620	7360	2300	3020	2310	3760
23	3490	2410	3990	3130	3310	2390	7460	5860	2300	3020	2060	3260
24	3990	2870	4150	3110	4130	3100	7410	4700	2370	3200	2050	2870
25	3290	2950	3840	2940	3450	3530	6180	5010	2530	3320	2320	2740
26	3340	3090	3850	3240	3230	3780	4960	5610	2800	2790	3820	e2620
27	3370	3330	3850	3550	3270	6130	5270	8670	2660	2260	5010	e2730
28	4720	3050	3770	3550	3260	11400	6620	7140	2310	2290	4570	e2710
29	4830	2600	3880	3000	2970	11900	9650	5990	2740	3020	3530	e2690
30	4940	3800	3540	2020	---	10200	27500	4830	2550	2830	4200	2720
31	4900	---	2330	2810	---	9980	---	4930	---	2850	8410	---
TOTAL	129260	95780	164480	98300	100810	131050	350480	239010	85540	79070	97280	106930
MEAN	4170	3193	5306	3171	3476	4227	11680	7710	2851	2551	3138	3564
MAX	8270	4480	16000	4060	4930	11900	27500	20700	4900	3840	8410	6960
MIN	1380	2150	2330	2020	2920	2390	4960	4520	1820	1360	1830	2590

CAL YR 1987 TOTAL 2084340 MEAN 5711 MAX 99600 MIN 1350
WTR YR 1988 TOTAL 1677990 MEAN 4585 MAX 27500 MIN 1360

e Estimated

01059010 ANDROSCOGGIN RIVER BELOW DRESSERS RIPS NEAR AUBURN, ME

LOCATION.--Lat 44°03'55", long 70°12'34", Androscoggin County, Hydrologic Unit 01040002, on right bank 2.0 mi downstream from Little Androscoggin River and 2.6 mi downstream from North Bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,263 mi².

PERIOD OF RECORD.--Water years August to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August to September 1988.

pH: August to September 1988.

WATER TEMPERATURE: August to September 1988.

DISSOLVED OXYGEN: August to September 1988.

INSTRUMENTATION.--Water-quality monitor since August 1988. Continuous flow through system. Submersible pump located 50 ft. streamward from right bank.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 356 microsiemens, Sept. 15, 1988; minimum, 90 microsiemens, Sept. 16, 1988.

pH: Maximum, 7.2 units, Aug. 31, 1988; minimum, 6.5 units, Aug. 15, 16, 1988.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 13, 1988; minimum, 16.5°C, Sept. 28-30, 1988.

DISSOLVED OXYGEN: Maximum, 8.9 mg/L, Sept. 30, 1988; minimum, 5.8 mg/L, Aug. 20, 21, 1988.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	153	142	147
2	---	---	---	---	---	---	---	---	---	150	117	136
3	---	---	---	---	---	---	---	---	---	117	113	116
4	---	---	---	---	---	---	---	---	---	115	105	112
5	---	---	---	---	---	---	---	---	---	110	100	105
6	---	---	---	---	---	---	---	---	---	106	101	103
7	---	---	---	---	---	---	---	---	---	110	103	106
8	---	---	---	---	---	---	---	---	---	110	106	108
9	---	---	---	---	---	---	---	---	---	118	110	114
10	---	---	---	---	---	---	---	---	---	126	118	122
11	---	---	---	---	---	---	---	---	---	143	120	124
12	---	---	---	---	---	---	---	---	---	185	139	159
13	---	---	---	---	---	---	167	136	153	181	126	158
14	---	---	---	---	---	---	168	143	156	259	126	186
15	---	---	---	---	---	---	162	137	149	356	196	264
16	---	---	---	---	---	---	173	162	168	277	90	162
17	---	---	---	---	---	---	179	159	168	109	95	101
18	---	---	---	---	---	---	190	175	181	121	110	116
19	---	---	---	---	---	---	194	156	171	133	122	128
20	---	---	---	---	---	---	184	176	181	134	128	131
21	---	---	---	---	---	---	194	185	190	139	132	135
22	---	---	---	---	---	---	194	184	190	134	132	133
23	---	---	---	---	---	---	192	182	187	144	134	140
24	---	---	---	---	---	---	191	181	186	145	142	144
25	---	---	---	---	---	---	183	159	166	170	140	150
26	---	---	---	---	---	---	167	161	164	173	143	153
27	---	---	---	---	---	---	166	150	159	192	142	160
28	---	---	---	---	---	---	160	152	156	161	141	145
29	---	---	---	---	---	---	154	151	153	218	140	165
30	---	---	---	---	---	---	164	151	159	147	137	143
31	---	---	---	---	---	---	164	155	160	---	---	---
MONTH	---	---	---	---	---	---	194	136	168	356	90	139

PERIOD MAXIMUM 356 MINIMUM 90 MEAN 150

01059010 ANDROSCOGGIN RIVER BELOW DRESSERS RIPS NEAR AUBURN, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	7.1	7.1	7.1
2	---	---	---	---	---	---	---	---	---	7.1	7.0	7.0
3	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
4	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
5	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
6	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
7	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
8	---	---	---	---	---	---	---	---	---	6.9	6.8	6.9
9	---	---	---	---	---	---	---	---	---	6.9	6.8	6.9
10	---	---	---	---	---	---	---	---	---	6.9	6.9	6.9
11	---	---	---	---	---	---	---	---	---	7.0	6.9	6.9
12	---	---	---	---	---	---	---	---	---	7.1	7.0	7.0
13	---	---	---	---	---	---	7.0	6.8	6.9	7.0	7.0	7.0
14	---	---	---	---	---	---	6.9	6.8	6.8	7.0	7.0	7.0
15	---	---	---	---	---	---	6.8	6.5	6.6	7.0	7.0	7.0
16	---	---	---	---	---	---	6.7	6.5	6.6	7.0	6.9	7.0
17	---	---	---	---	---	---	6.7	6.6	6.7	7.0	6.9	7.0
18	---	---	---	---	---	---	6.7	6.6	6.7	7.0	7.0	7.0
19	---	---	---	---	---	---	6.9	6.6	6.7	7.0	6.9	7.0
20	---	---	---	---	---	---	6.9	6.9	6.9	7.0	6.9	7.0
21	---	---	---	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0
22	---	---	---	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0
23	---	---	---	---	---	---	7.1	7.0	7.0	7.0	7.0	7.0
24	---	---	---	---	---	---	7.1	7.0	7.0	7.0	7.0	7.0
25	---	---	---	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0
26	---	---	---	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0
27	---	---	---	---	---	---	7.1	6.9	7.0	7.0	7.0	7.0
28	---	---	---	---	---	---	7.1	7.0	7.1	7.0	7.0	7.0
29	---	---	---	---	---	---	7.1	7.1	7.1	7.0	7.0	7.0
30	---	---	---	---	---	---	7.1	6.9	7.0	7.0	7.0	7.0
31	---	---	---	---	---	---	7.2	7.0	7.1	---	---	---
MONTH	---	---	---	---	---	---	7.2	6.5	6.9	7.1	6.8	7.0

PERIOD MAXIMUM 7.2 MINIMUM 6.5 MEAN 6.9

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	21.0	20.5	21.0
2	---	---	---	---	---	---	---	---	---	21.0	20.5	20.5
3	---	---	---	---	---	---	---	---	---	21.0	20.0	20.5
4	---	---	---	---	---	---	---	---	---	20.5	20.0	20.0
5	---	---	---	---	---	---	---	---	---	20.0	19.5	20.0
6	---	---	---	---	---	---	---	---	---	20.0	19.5	19.5
7	---	---	---	---	---	---	---	---	---	20.5	19.5	20.0
8	---	---	---	---	---	---	---	---	---	20.5	19.5	20.0
9	---	---	---	---	---	---	---	---	---	20.0	19.5	20.0
10	---	---	---	---	---	---	---	---	---	20.0	19.0	19.5
11	---	---	---	---	---	---	---	---	---	19.5	19.0	19.5
12	---	---	---	---	---	---	---	---	---	20.0	19.0	19.5
13	---	---	---	---	---	---	29.0	27.5	28.0	19.5	19.0	19.5
14	---	---	---	---	---	---	28.0	24.5	26.5	19.5	18.5	19.0
15	---	---	---	---	---	---	27.5	23.5	25.5	19.0	18.5	18.5
16	---	---	---	---	---	---	26.5	25.5	26.0	19.0	18.5	18.5
17	---	---	---	---	---	---	25.5	23.0	24.5	18.5	18.0	18.5
18	---	---	---	---	---	---	24.5	22.0	23.5	18.0	18.0	18.0
19	---	---	---	---	---	---	26.0	19.5	23.0	18.5	18.0	18.0
20	---	---	---	---	---	---	26.0	25.0	25.5	18.5	17.5	18.0
21	---	---	---	---	---	---	25.0	24.5	25.0	18.0	17.5	17.5
22	---	---	---	---	---	---	24.5	23.5	24.0	18.0	17.5	17.5
23	---	---	---	---	---	---	24.5	23.5	24.0	18.0	17.5	17.5
24	---	---	---	---	---	---	23.5	22.5	23.5	18.0	17.0	17.5
25	---	---	---	---	---	---	22.5	18.5	21.0	18.0	17.0	17.5
26	---	---	---	---	---	---	22.5	21.0	21.5	17.5	17.0	17.5
27	---	---	---	---	---	---	23.5	21.5	22.5	17.5	17.0	17.0
28	---	---	---	---	---	---	23.5	21.5	22.5	17.5	16.5	17.0
29	---	---	---	---	---	---	23.0	21.5	22.5	17.0	16.5	16.5
30	---	---	---	---	---	---	21.5	20.5	21.0	17.0	16.5	16.5
31	---	---	---	---	---	---	21.5	21.0	21.0	---	---	---
MONTH	---	---	---	---	---	---	29.0	18.5	23.5	21.0	16.5	18.5
PERIOD	MAXIMUM	29.0	MINIMUM	16.5	MEAN	20.5						

ANDROSCOGGIN RIVER BASIN

01059010 ANDROSCOGGIN RIVER BELOW DRESSERS RIPS NEAR AUBURN, ME--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	8.6	8.4	8.5
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	8.8	8.1	8.3
9	---	---	---	---	---	---	---	---	---	8.4	8.0	8.2
10	---	---	---	---	---	---	---	---	---	8.3	8.1	8.2
11	---	---	---	---	---	---	---	---	---	8.5	8.2	8.3
12	---	---	---	---	---	---	---	---	---	8.6	8.2	8.4
13	---	---	---	---	---	---	---	---	---	8.3	8.1	8.2
14	---	---	---	---	---	---	---	---	---	8.2	8.0	8.1
15	---	---	---	---	---	---	---	---	---	8.6	8.1	8.3
16	---	---	---	---	---	---	---	---	---	8.7	8.0	8.4
17	---	---	---	---	---	---	---	---	---	8.2	7.8	8.0
18	---	---	---	---	---	---	---	---	---	8.0	7.8	7.9
19	---	---	---	---	---	---	---	---	---	7.9	7.7	7.8
20	---	---	---	---	---	---	6.2	5.8	6.1	8.7	7.6	7.9
21	---	---	---	---	---	---	6.2	5.8	6.0	8.1	7.8	7.9
22	---	---	---	---	---	---	6.8	6.1	6.4	8.1	7.9	8.0
23	---	---	---	---	---	---	6.9	6.5	6.7	8.7	7.9	8.1
24	---	---	---	---	---	---	7.1	6.5	6.6	8.0	7.8	7.9
25	---	---	---	---	---	---	7.1	6.5	6.8	8.1	7.8	7.9
26	---	---	---	---	---	---	7.1	6.6	6.9	8.0	7.7	7.9
27	---	---	---	---	---	---	7.8	7.1	7.5	8.0	7.8	7.9
28	---	---	---	---	---	---	7.7	7.3	7.5	8.0	7.7	7.8
29	---	---	---	---	---	---	7.6	7.3	7.5	8.8	7.6	8.0
30	---	---	---	---	---	---	7.8	7.3	7.5	8.9	8.5	8.6
31	---	---	---	---	---	---	8.6	7.7	8.3	---	---	---
MONTH	---	---	---	---	---	---	8.6	5.8	7.0	8.9	7.6	8.1

PERIOD MAXIMUM 8.9 MINIMUM 5.8 MEAN 7.7

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 TEMPERATURE: 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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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, DIS- SOLVED SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
19...	1400	3040	110	7.1	19.0	12.0	7.0	760	10.9	101	90	82
DEC												
22...	1230	3530	110	6.8	5.0	1.0	1.8	770	14.2	99	300	70
FEB												
10...	1000	3550	142	7.0	0.0	0.0	0.3	770	16.2	110	1600	120
APR												
13...	1130	11600	61	6.8	8.0	6.0	4.4	770	12.8	102	55	K 18
JUN												
15...	0930	2860	118	7.3	32.0	22.0	0.7	760	8.6	99	80	K 15
AUG												
16...	0830	3880	151	7.3	23.0	26.0	3.1	760	7.5	93	110	90

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)
OCT												
19...	18	5.7	0.96	14	1.4	15	0	12	14	12	13	15
DEC												
22...	17	5.2	0.96	13	1.3	15	0	12	13	13	19	13
FEB												
10...	21	6.5	1.1	20	1.5	21	0	17	19	18	18	19
APR												
13...	12	3.5	0.71	6.0	0.9	9	0	7	8	7	13	7.2
JUN												
15...	18	5.7	0.99	16	1.3	16	0	13	15	14	17	16
AUG												
16...	23	7.2	1.2	20	1.3	19	0	15	17	16	16	22

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

01059400 - ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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, 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)
OCT											
19...	0.1	6.2	77	66	0.12	0.03	0.04	0.3	0.03	0.03	0.01
DEC											
22...	0.1	5.9	72	67	0.17	0.09	0.12	0.4	0.03	0.01	<0.01
FEB											
10...	0.1	5.4	91	84	0.20	0.17	0.22	0.6	0.02	0.04	<0.01
APR											
13...	0.1	5.1	44	43	0.23	0.06	0.08	0.3	0.03	0.02	<0.01
JUN											
15...	0.1	4.9	79	72	0.24	0.13	0.17	0.5	0.03	0.04	0.03
AUG											
16...	0.1	4.5	93	84	0.22	<0.01	--	0.5	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)
OCT												
19...	180	<1	15	<0.5	<1	1	<3	2	200	<5	<4	61
DEC												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
10...	120	<1	14	<0.5	1	<1	<3	3	110	<5	<4	<1
APR												
13...	120	<1	11	<0.5	<1	<1	<3	5	82	<5	<4	38
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	50	1	13	<0.5	<1	<1	<3	2	190	<5	<4	7

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
OCT											
19...	<0.1	<10	4	<1	<1.0	28	<6	6	9	74	72
DEC											
22...	--	--	--	--	--	--	--	--	1	9.5	100
FEB											
10...	<0.1	<10	4	<1	<1.0	30	<6	16	4	38	92
APR											
13...	<0.1	<10	<1	<1	<1.0	19	<6	11	92	2880	7
JUN											
15...	--	--	--	--	--	--	--	--	3	23	92
AUG											
16...	<0.1	<10	2	<1	<1.0	35	<6	19	6	63	79

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, 1987	727	4,574	4,102	5,020
OCT. 31.	489	4,062	3,124	5,415
NOV. 30.	361	4,436	2,868	3,962
DEC. 31.	670	3,552	3,124	4,535
JAN. 31, 1988	740	1,299	1,830	4,422
FEB. 29.	696	310	840	4,385
MAR. 31.	432	1,100	854	2,720
APR. 30.	1,071	5,373	2,540	6,408
MAY 31.	1,356	6,937	4,417	7,862
JUNE 30.	1,272	5,586	4,862	7,108
JULY 31.	1,339	5,941	4,343	6,996
AUG. 31.	1,406	6,902	4,676	8,515
SEPT. 30.	1,188	6,332	3,288	8,080

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1987	1,830	2,074	353	1,674
OCT. 31.	2,186	2,212	353	1,552
NOV. 30.	2,456	2,487	320	1,567
DEC. 31.	2,224	2,329	375	1,632
JAN. 31, 1988	2,300	2,432	375	1,909
FEB. 29.	2,262	2,346	408	1,712
MAR. 31.	1,632	2,495	441	1,790
APR. 30.	3,080	2,462	592	1,900
MAY 31.	2,476	2,403	628	1,852
JUNE 30.	2,339	2,458	544	1,852
JULY 31.	2,224	2,478	568	1,790
AUG. 31.	2,358	2,457	532	1,776
SEPT. 30.	1,848	2,342	463	1,582

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. 30 to Feb. 1, and Feb. 12-20. Records good except for periods of ice effect, Dec. 30 to Feb. 1, and Feb. 12-20, 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.--39 years, 273 ft³/s, 26.29 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. 1	2200	1,910	3.74	Apr. 29	1900	2,230	4.02
Mar. 28	0200	*2,260	*4.04				

Minimum daily discharge, 35 ft³/s, July 9, 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	123	1780	e80	e80	168	579	1050	403	55	145	291
2	51	102	1500	e75	161	165	501	705	250	63	108	165
3	49	91	642	e71	213	142	470	485	181	60	89	114
4	107	87	344	e69	209	137	439	386	155	54	71	95
5	196	87	250	e67	170	131	629	323	130	46	64	249
6	138	80	199	e65	152	127	1270	275	165	43	55	254
7	105	75	165	e63	131	126	951	243	166	39	52	160
8	117	67	133	e61	125	150	629	217	122	37	98	116
9	108	70	146	e59	121	168	436	177	98	35	99	95
10	85	70	135	e57	114	208	358	172	90	37	80	81
11	77	72	146	e56	103	263	336	200	84	49	56	73
12	75	74	201	e55	e102	292	336	341	76	44	50	65
13	71	70	182	e54	e100	198	285	293	69	39	47	61
14	62	66	158	e53	e98	177	246	230	63	35	47	60
15	59	66	139	e52	e95	180	222	191	63	94	305	58
16	57	65	139	e51	e93	211	269	166	56	76	208	53
17	55	64	133	e50	e92	264	444	157	140	56	129	53
18	52	63	99	e49	e91	321	599	157	252	315	94	54
19	50	65	113	e51	e91	336	498	174	126	175	73	61
20	49	65	99	e70	e280	367	364	240	85	89	60	68
21	50	70	102	e98	673	438	289	305	69	82	54	70
22	65	63	105	e96	596	298	242	255	56	806	48	77
23	71	59	103	e86	513	164	211	206	70	693	49	68
24	63	60	101	e76	434	182	237	270	66	334	52	60
25	62	62	112	e74	372	295	359	886	56	370	163	54
26	63	93	162	e76	317	474	302	1190	137	243	195	51
27	64	135	157	e71	264	1780	242	607	118	262	238	49
28	149	106	140	e67	222	2080	205	344	69	514	166	47
29	367	89	109	e64	192	1260	1720	233	59	324	115	44
30	249	321	e92	e62	---	770	1730	169	54	191	659	42
31	162	---	e86	e61	---	594	---	386	---	134	649	---
TOTAL	2979	2580	7972	2039	6204	12466	15398	11033	3528	5394	4318	2788
MEAN	96.1	86.0	257	65.8	214	402	513	356	118	174	139	92.9
MAX	367	321	1780	98	673	2080	1730	1190	403	806	659	291
MIN	49	59	86	49	80	126	205	157	54	35	47	42
CFSM	.68	.61	1.82	.47	1.52	2.85	3.64	2.52	.83	1.23	.99	.66
IN.	.79	.68	2.10	.54	1.64	3.29	4.06	2.91	.93	1.42	1.14	.74

CAL YR 1987 TOTAL 84228 MEAN 231 MAX 6670 MIN 29 CFSM 1.64 IN. 22.22
WTR YR 1988 TOTAL 76699 MEAN 210 MAX 2080 MIN 35 CFSM 1.49 IN. 20.24

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.--101 years, 657 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	350	499	508	670	831	350	254	670	340	375	423
2	350	350	499	508	670	831	350	254	670	340	375	423
3	350	350	499	508	670	831	350	254	670	340	375	423
4	350	350	499	508	670	831	350	254	670	340	375	423
5	350	350	499	508	655	831	350	254	50	340	375	423
6	350	350	499	508	670	831	350	254	50	340	375	423
7	350	350	508	624	670	831	350	254	50	263	423	423
8	350	350	499	527	670	831	350	254	50	263	423	423
9	350	350	499	508	670	819	350	254	50	292	423	423
10	350	350	499	508	670	819	350	254	50	292	423	423
11	350	350	499	538	670	819	350	254	50	292	423	423
12	350	350	499	499	670	819	350	254	50	340	423	423
13	350	350	499	508	670	819	350	254	340	340	423	423
14	350	350	499	675	670	819	350	254	340	340	423	423
15	350	350	499	646	670	819	350	254	340	340	423	423
16	350	350	499	508	831	819	350	254	340	340	831	423
17	350	350	499	508	831	819	350	254	340	340	423	423
18	350	350	499	508	831	819	350	254	340	340	423	423
19	350	350	499	508	831	819	350	254	340	340	423	423
20	350	350	499	499	831	819	350	254	340	380	423	423
21	350	350	499	508	831	819	350	254	340	372	423	423
22	350	350	508	508	831	819	350	254	340	372	423	423
23	350	350	499	508	831	819	350	254	340	372	423	423
24	350	350	499	508	831	819	350	254	340	375	423	423
25	350	350	499	508	831	819	254	254	340	375	423	423
26	350	350	499	508	831	819	254	670	340	375	423	340
27	350	350	499	508	831	819	254	670	340	375	423	340
28	350	350	499	508	831	819	254	670	340	375	423	340
29	350	350	596	508	831	819	254	670	340	375	423	340
30	350	350	564	508	---	831	254	670	340	372	423	340
31	350	---	564	508	---	831	---	670	---	372	423	---
TOTAL	10850	10500	15714	16200	21669	25509	9924	10370	9200	10652	13233	12275
MEAN	350	350	507	523	747	823	331	335	307	344	427	409
MAX	350	350	596	675	831	831	350	670	670	380	831	423
MIN	350	350	499	499	655	819	254	254	50	263	375	340

CAL YR 1987 TOTAL 190920.00 MEAN 523 MAX 1300 MIN .00
WTR YR 1988 TOTAL 166096 MEAN 454 MAX 831 MIN 50

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. 1-27, Nov. 1-29, Dec. 7 to Jan. 13, Jan. 16 to Feb. 19, Feb. 23 to Mar. 20, Mar. 23-25, 30, 31, Apr. 3, 12-15, 18-27, May 5, 6, 9-23, June 5-14, 20-27, July 9-12, July 29 to Aug. 5, 9-14, 18-24, 28, 29, Sept. 3, 4, 7-30. Records poor. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--13 years, 963 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, 3,810 ft³/s, Apr. 29, gage height 14.02 ft; minimum daily, 130 ft³/s, June 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e400	e505	2150	e570	e750	e1000	1190	1250	1050	435	e490	597
2	e395	e485	1510	e565	e850	e980	991	1070	896	396	e465	508
3	e415	e470	1220	e565	e900	e985	e800	861	789	391	e450	e490
4	e500	e465	1230	e565	e880	e990	837	599	469	352	e440	e550
5	e560	e455	923	e560	e850	e980	1320	e550	e300	362	e430	878
6	e490	e450	788	e580	e820	e980	1550	e510	e220	420	433	544
7	e460	e450	e630	e650	e805	e1000	1320	467	e210	286	464	e530
8	e455	e445	e620	e580	e800	e1010	804	455	e175	309	607	e520
9	e450	e445	e620	e560	e790	e1040	893	e435	e155	e340	e530	e500
10	e435	e440	e630	e560	e780	e1090	726	e420	e140	e350	e505	e480
11	e420	e440	e660	e560	e770	e1140	680	e480	e135	e365	e500	e470
12	e415	e440	e690	e550	e765	e1110	e660	e580	e130	e390	e500	e460
13	e410	e435	e670	e540	e760	e1040	e630	e540	e415	412	e490	e455
14	e405	e435	e650	881	e770	e1010	e610	e490	e415	447	e470	e450
15	e405	e435	e630	732	e810	e1020	e590	e460	476	486	515	e450
16	e400	e435	e620	e580	e920	e1070	786	e430	489	501	599	e455
17	e400	e435	e610	e560	e930	e1130	1080	e420	616	516	761	e465
18	e400	e430	e600	e565	e940	e1180	e940	e420	569	553	e600	e470
19	e395	e430	e600	e575	e1000	e1210	e840	e440	504	489	e510	e475
20	e395	e430	e600	e600	1390	e1240	e730	e515	e430	475	e470	e475
21	e405	e430	e600	e610	1550	1240	e650	e560	e410	409	e460	e475
22	e410	e430	e600	e605	1420	1110	e600	e500	e405	1280	e450	e475
23	e415	e435	e600	e600	e1340	e1020	e570	e460	e405	1000	e440	e475
24	e415	e440	e610	e595	e1260	e1050	e550	434	e410	824	e430	e460
25	e415	e460	e620	e590	e1200	e1230	e530	928	e420	624	612	e435
26	e415	e480	e640	e590	e1120	1580	e510	1550	e480	582	566	e430
27	e440	e505	e650	e595	e1090	2800	e500	1370	e440	543	591	e430
28	574	e465	e660	e590	e1050	2200	483	1210	417	873	e540	e425
29	870	e425	e660	e585	e1020	1620	3020	1170	402	e720	e510	e425
30	555	980	e650	e580	---	e1480	1680	1080	367	e630	1520	e420
31	520	---	e610	e640	---	e1310	---	1080	---	e540	1050	---
TOTAL	14039	14005	23551	18478	28330	37845	27070	21734	12739	16300	17398	14672
MEAN	453	467	760	596	977	1221	902	701	425	526	561	489
MAX	870	980	2150	881	1550	2800	3020	1550	1050	1280	1520	878
MIN	395	425	600	540	750	980	483	420	130	286	430	420

CAL YR 1987 TOTAL 286468 MEAN 785 MAX 7100 MIN 184
WTR YR 1988 TOTAL 246161 MEAN 673 MAX 3020 MIN 130

e Estimated

DISSOLVED OXYGEN: minimum, 1.6 mg/L, July 9, 1976.

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)
OCT 19...	25	8.2	1.0	18	1.5	31	0	25	26	26	21	19
DEC 22...	22	7.3	0.94	17	1.4	25	0	20	21	22	19	18
FEB 05...	21	6.8	1.0	15	1.3	25	0	21	22	22	18	15
APR 13...	23	7.5	1.1	13	1.3	25	0	21	21	20	16	16
JUN 23...	39	13	1.5	33	1.9	56	0	46	46	41	16	33
AUG 02...	27	8.9	1.2	19	1.4	33	0	27	29	27	15	19

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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, 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)
OCT											
19...	0.1	2.9	88	88	<0.10	0.03	0.04	0.3	0.02	0.02	<0.01
DEC											
22...	0.1	2.9	83	80	0.16	0.07	0.09	0.4	0.02	<0.01	<0.01
FEB											
05...	0.1	3.5	77	75	0.19	0.04	0.05	0.8	0.03	0.01	<0.01
APR											
13...	0.1	4.0	75	73	0.16	0.08	0.10	0.4	0.04	0.04	0.03
JUN											
23...	0.2	3.3	149	131	0.18	0.19	0.24	0.8	0.06	0.04	0.02
AUG											
02...	0.1	4.4	101	88	0.16	0.10	0.13	1.1	0.06	0.07	0.03

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)
OCT												
19...	30	<1	14	<0.5	<1	<1	<3	1	64	<5	<4	47
DEC												
22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
05...	50	<1	12	<0.5	<1	1	<3	1	59	<5	<4	34
APR												
13...	50	<1	12	<0.5	<1	<1	<3	1	83	<5	<4	43
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	80	<1	12	<0.5	<1	<1	3	4	180	46	<4	87

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
OCT											
19...	<0.1	<10	4	1	<1.0	37	<6	6	14	15	35
DEC											
22...	--	--	--	--	--	--	--	--	7	12	68
FEB											
05...	<0.1	<10	<1	<1	<1.0	32	<6	4	17	40	65
APR											
13...	<0.1	<10	<1	<1	<1.0	32	<6	8	28	49	41
JUN											
23...	--	--	--	--	--	--	--	--	15	17	79
AUG											
02...	<0.1	<10	1	<1	<1.0	36	<6	39	104	135	83

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	146	136	142	---	---	---	---	---	---	---	---	---
2	146	137	140	---	---	---	---	---	---	---	---	---
3	162	148	156	---	---	---	---	---	---	---	---	---
4	162	151	157	---	---	---	---	---	---	---	---	---
5	153	124	135	---	---	---	---	---	---	---	---	---
6	146	124	134	---	---	---	---	---	---	---	---	---
7	164	147	156	---	---	---	---	---	---	---	---	---
8	166	153	159	---	---	---	---	---	---	---	---	---
9	161	134	148	---	---	---	---	---	---	---	---	---
10	164	142	153	---	---	---	---	---	---	---	---	---
11	164	155	159	---	---	---	---	---	---	---	---	---
12	161	151	158	---	---	---	---	---	---	---	---	---
13	169	150	155	---	---	---	---	---	---	---	---	---
14	158	148	153	---	---	---	---	---	---	---	---	---
15	168	155	159	---	---	---	---	---	---	---	---	---
16	167	136	145	---	---	---	---	---	---	---	---	---
17	155	148	152	---	---	---	---	---	---	---	---	---
18	153	142	149	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	169	124	151	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	113	100	106
2	---	---	---	---	---	---	---	---	---	118	105	114
3	---	---	---	---	---	---	---	---	---	130	122	122
4	---	---	---	---	---	---	---	---	---	143	129	135
5	---	---	---	---	---	---	---	---	---	181	138	164
6	---	---	---	---	---	---	---	---	---	182	148	171
7	---	---	---	---	---	---	---	---	---	180	148	161
8	---	---	---	---	---	---	---	---	---	198	179	188
9	---	---	---	---	---	---	---	---	---	185	165	175
10	---	---	---	---	---	---	---	---	---	180	167	175
11	---	---	---	---	---	---	---	---	---	182	170	176
12	---	---	---	---	---	---	---	---	---	177	131	152
13	---	---	---	---	---	---	---	---	---	147	132	142
14	---	---	---	---	---	---	---	---	---	148	136	144
15	---	---	---	---	---	---	---	---	---	157	145	149
16	---	---	---	---	---	---	---	---	---	163	143	157
17	---	---	---	---	---	---	---	---	---	157	147	151
18	---	---	---	---	---	---	---	---	---	163	139	152
19	---	---	---	---	---	---	---	---	---	178	129	148
20	---	---	---	---	---	---	---	---	---	154	124	141
21	---	---	---	---	---	---	---	---	---	135	122	128
22	---	---	---	---	---	---	---	---	---	153	132	140
23	---	---	---	---	---	---	---	---	---	159	140	151
24	---	---	---	---	---	---	---	---	---	179	136	153
25	---	---	---	---	---	---	---	---	---	163	101	144
26	---	---	---	---	---	---	---	---	---	100	81	93
27	---	---	---	---	---	---	---	---	---	91	80	87
28	---	---	---	---	---	---	---	---	---	98	88	94
29	---	---	---	---	---	---	---	---	---	92	76	87
30	---	---	---	---	---	---	---	---	---	106	90	98
31	---	---	---	---	---	---	---	---	---	116	99	109
MONTH	---	---	---	---	---	---	---	---	---	198	76	139

PRESUMPSCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	112	102	109	181	163	171	138	121	128	---	---	---
2	113	93	106	175	148	164	165	140	153	---	---	---
3	107	86	94	164	170	166	170	154	164	---	99	117
4	107	97	101	172	149	160	167	148	156	135	123	117
5	104	81	89	182	165	172	159	145	154	131	111	122
6	118	89	102	187	166	178	152	143	149	134	116	127
7	122	71	94	196	154	177	152	134	141	142	132	138
8	125	113	118	252	198	231	141	121	125	178	132	158
9	141	116	133	257	205	238	152	117	134	187	154	173
10	132	101	117	203	188	195	163	107	146	159	147	152
11	240	104	161	198	116	163	154	143	148	163	156	159
12	127	85	102	203	164	186	---	---	---	156	148	151
13	86	62	76	191	132	173	---	---	---	165	149	158
14	83	65	76	199	178	191	---	---	---	142	131	135
15	94	78	88	181	159	170	---	---	---	154	112	138
16	107	72	95	203	182	191	---	---	---	164	133	150
17	153	104	122	184	140	170	127	107	114	130	118	124
18	124	105	112	142	129	136	139	103	123	144	130	138
19	149	128	139	---	---	---	155	126	142	148	141	144
20	154	140	148	---	---	---	158	122	143	156	132	144
21	187	135	160	167	155	162	175	132	154	154	135	144
22	219	193	208	174	94	126	179	167	173	159	151	156
23	311	193	244	124	106	114	175	149	157	161	149	155
24	194	151	177	132	125	127	156	134	148	152	143	149
25	195	169	184	135	97	123	164	125	142	147	123	139
26	184	167	175	137	90	128	155	128	139	134	119	127
27	187	172	178	153	135	145	160	114	135	143	124	134
28	185	172	181	133	107	116	139	114	130	156	143	151
29	173	161	168	138	113	129	158	141	148	173	133	166
30	178	163	169	147	132	140	---	---	---	193	158	174
31	---	---	---	144	111	126	---	---	---	---	---	---
MONTH	311	62	134	257	90	161	179	103	144	193	99	145

PERIOD MAXIMUM 311 MINIMUM 62 MEAN 145

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

[illegible]

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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

DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBER	MEAN
1	7.4	7.3	7.3	7.3	7.2	7.2	7.3	7.2	7.2	---	---	---
2	7.5	7.3	7.4	7.3	7.2	7.2	7.3	7.2	7.2	---	---	---
3	7.4	7.3	7.4	7.3	7.2	7.3	7.3	7.2	7.2	7.3	7.1	7.2
4	7.4	7.3	7.4	7.4	7.3	7.3	7.2	7.1	7.1	7.4	7.2	7.3
5	7.4	7.2	7.3	7.4	7.3	7.3	7.2	7.1	7.2	7.2	7.1	7.2
6	7.3	7.1	7.2	7.5	7.3	7.4	7.2	7.1	7.2	7.3	7.2	7.2
7	7.3	7.0	7.2	7.4	7.3	7.4	7.3	7.1	7.2	7.3	7.2	7.2
8	7.3	7.1	7.2	7.4	7.3	7.4	7.3	7.0	7.2	7.3	7.2	7.3
9	7.4	7.2	7.3	7.4	7.3	7.4	7.2	7.0	7.1	7.3	7.2	7.3
10	7.3	7.1	7.2	7.3	7.1	7.2	7.2	6.9	7.1	7.2	7.1	7.2
11	7.9	7.1	7.4	7.2	7.0	7.1	7.1	7.0	7.1	7.2	7.2	7.2
12	7.6	7.5	7.6	7.2	7.1	7.2	---	---	---	7.2	7.2	7.2
13	7.5	7.3	7.5	7.2	7.0	7.2	---	---	---	7.3	7.1	7.2
14	7.5	7.3	7.4	7.2	7.1	7.2	---	---	---	7.2	7.1	7.2
15	7.7	7.4	7.6	7.2	7.1	7.1	---	---	---	7.2	7.1	7.1
16	7.7	7.3	7.6	7.1	7.0	7.1	---	---	---	7.3	7.3	7.3
17	7.6	7.4	7.5	7.1	6.9	7.0	7.2	7.1	7.2	7.3	7.3	7.3
18	7.5	7.4	7.4	7.0	6.9	6.9	7.2	7.1	7.1	7.3	7.2	7.3
19	7.6	7.4	7.5	---	---	---	7.2	7.1	7.1	7.3	7.1	7.2
20	7.7	7.6	7.6	---	---	---	7.2	7.0	7.1	7.3	7.2	7.3
21	7.6	7.6	7.6	7.3	7.2	7.2	7.1	7.1	7.1	7.3	7.2	7.3
22	7.6	7.5	7.6	7.4	7.1	7.2	7.2	7.1	7.2	7.3	7.2	7.2
23	7.5	7.3	7.4	7.2	7.1	7.2	7.2	7.1	7.2	7.3	7.2	7.3
24	7.5	7.2	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.2	7.2
25	7.4	7.3	7.4	7.2	7.1	7.2	7.4	7.2	7.3	7.3	7.2	7.3
26	7.4	7.3	7.4	7.2	7.1	7.2	7.3	7.2	7.2	7.3	7.2	7.2
27	7.5	7.3	7.4	7.4	7.2	7.2	7.2	7.1	7.2	7.4	7.3	7.3
28	7.4	7.3	7.4	7.3	7.2	7.2	7.2	7.1	7.1	7.4	7.3	7.4
29	7.4	7.2	7.3	7.3	7.2	7.2	7.2	7.1	7.1	7.5	7.3	7.4
30	7.3	7.3	7.3	7.4	7.3	7.3	---	---	---	7.3	7.3	7.3
31	---	---	---	7.4	7.2	7.3	---	---	---	---	---	---
MONTH	7.9	7.0	7.4	7.5	6.9	7.2	7.4	6.9	7.2	7.5	7.1	7.3

PERIOD MAXIMUM 7.9 MINIMUM 6.8 MEAN 7.2

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	17.0	17.5	---	---	---	---	---	---	---	---	---
2	17.5	16.5	17.0	---	---	---	---	---	---	---	---	---
3	17.5	17.0	17.0	---	---	---	---	---	---	---	---	---
4	17.0	16.0	16.5	---	---	---	---	---	---	---	---	---
5	16.0	15.0	15.5	---	---	---	---	---	---	---	---	---
6	16.0	15.0	15.5	---	---	---	---	---	---	---	---	---
7	15.5	15.0	15.5	---	---	---	---	---	---	---	---	---
8	15.5	15.0	15.0	---	---	---	---	---	---	---	---	---
9	15.5	15.0	15.0	---	---	---	---	---	---	---	---	---
10	15.5	15.0	15.0	---	---	---	---	---	---	---	---	---
11	15.0	14.0	14.5	---	---	---	---	---	---	---	---	---
12	14.0	13.5	13.5	---	---	---	---	---	---	---	---	---
13	13.5	10.5	13.0	---	---	---	---	---	---	---	---	---
14	13.0	12.5	12.5	---	---	---	---	---	---	---	---	---
15	13.0	12.0	12.5	---	---	---	---	---	---	---	---	---
16	13.0	12.0	12.5	---	---	---	---	---	---	---	---	---
17	13.0	12.5	12.5	---	---	---	---	---	---	---	---	---
18	13.5	12.5	13.0	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	17.5	10.5	14.5	---	---	---	---	---	---	---	---	---

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

PERIOD MAXIMUM 29.0 MINIMUM 9.5 MEAN 20.0

[illegible]

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	10.7	10.6	10.7
2	---	---	---	---	---	---	---	---	---	10.6	10.5	10.6
3	---	---	---	---	---	---	---	---	---	10.6	10.3	10.6
4	---	---	---	---	---	---	---	---	---	10.4	10.1	10.3
5	---	---	---	---	---	---	---	---	---	10.1	9.7	9.9
6	---	---	---	---	---	---	---	---	---	9.7	9.4	9.5
7	---	---	---	---	---	---	---	---	---	9.4	9.0	9.2
8	---	---	---	---	---	---	---	---	---	9.1	8.8	8.9
9	---	---	---	---	---	---	---	---	---	9.2	8.9	9.0
10	---	---	---	---	---	---	---	---	---	9.2	8.8	9.0
11	---	---	---	---	---	---	---	---	---	9.4	9.0	9.2
12	---	---	---	---	---	---	---	---	---	9.8	9.3	9.5
13	---	---	---	---	---	---	---	---	---	9.6	9.1	9.5
14	---	---	---	---	---	---	---	---	---	9.2	8.9	9.1
15	---	---	---	---	---	---	---	---	---	8.9	8.6	8.8
16	---	---	---	---	---	---	---	---	---	8.8	8.5	8.7
17	---	---	---	---	---	---	---	---	---	8.8	8.5	8.7
18	---	---	---	---	---	---	---	---	---	8.8	8.5	8.7
19	---	---	---	---	---	---	---	---	---	8.9	8.5	8.7
20	---	---	---	---	---	---	---	---	---	9.5	8.8	9.1
21	---	---	---	---	---	---	---	---	---	9.5	9.4	9.5
22	---	---	---	---	---	---	---	---	---	9.5	8.9	9.3
23	---	---	---	---	---	---	---	---	---	8.9	8.5	8.8
24	---	---	---	---	---	---	---	---	---	8.4	8.3	8.3
25	---	---	---	---	---	---	---	---	---	9.0	8.0	8.3
26	---	---	---	---	---	---	---	---	---	10.0	9.0	9.6
27	---	---	---	---	---	---	---	---	---	10.0	9.6	9.9
28	---	---	---	---	---	---	---	---	---	9.6	9.2	9.5
29	---	---	---	---	---	---	---	---	---	9.3	8.9	9.2
30	---	---	---	---	---	---	---	---	---	9.1	8.9	9.0
31	---	---	---	---	---	---	---	---	---	9.3	9.0	9.2
MONTH	---	---	---	---	---	---	---	---	---	10.7	8.0	9.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.2	9.1	9.2	7.4	7.1	7.2	7.2	7.1	7.2	---	---	---
2	9.4	9.1	9.2	7.7	7.2	7.4	7.1	6.7	6.8	---	---	---
3	9.5	9.3	9.4	7.9	7.6	7.7	6.8	6.6	6.7	7.7	6.4	7.6
4	9.5	9.2	9.4	7.9	7.6	7.7	6.8	6.4	6.5	7.6	7.4	7.5
5	9.5	9.2	9.4	7.8	7.3	7.5	6.6	6.1	6.3	7.7	7.5	7.6
6	9.2	8.6	8.8	7.2	6.7	6.9	6.4	5.8	6.0	7.9	7.5	7.7
7	8.7	8.1	8.5	7.1	6.5	6.7	6.1	5.8	5.9	7.7	7.4	7.6
8	8.3	8.0	8.2	6.4	6.0	6.2	6.6	6.0	6.3	7.7	7.4	7.5
9	8.2	8.0	8.1	6.5	5.8	6.1	6.4	6.0	6.2	7.6	7.0	7.2
10	8.6	8.2	8.3	6.5	6.2	6.3	6.6	5.7	6.0	7.6	7.3	7.4
11	8.9	8.1	8.3	7.2	6.2	6.7	6.4	6.0	6.1	7.4	7.1	7.3
12	9.4	9.0	9.2	6.5	6.0	6.4	---	---	---	7.5	7.3	7.3
13	9.3	8.7	9.0	6.7	6.0	6.3	---	---	---	7.4	7.0	7.2
14	9.0	8.4	8.7	---	---	---	---	---	---	7.5	7.2	7.4
15	8.7	8.3	8.4	---	---	---	---	---	---	7.6	7.2	7.3
16	8.4	7.7	8.1	---	---	---	---	---	---	8.1	7.4	7.6
17	8.3	7.9	8.0	---	---	---	---	---	---	8.2	7.9	8.0
18	8.4	8.1	8.2	---	---	---	6.5	6.1	6.2	8.1	7.5	7.7
19	8.3	7.9	8.1	---	---	---	6.4	6.1	6.3	7.7	7.1	7.3
20	7.9	7.4	7.5	---	---	---	6.4	6.1	6.3	7.4	7.2	7.3
21	7.3	6.5	6.9	6.8	6.1	6.3	6.4	6.0	6.2	7.4	7.1	7.2
22	6.5	5.7	6.1	8.1	6.8	7.4	6.6	6.1	6.2	7.4	7.0	7.1
23	6.1	4.8	5.3	8.1	7.9	8.0	7.2	6.5	6.8	7.6	7.3	7.4
24	6.8	6.2	6.5	7.8	7.6	7.7	7.5	6.6	7.1	7.5	7.1	7.2
25	7.1	6.5	6.7	7.8	7.6	7.7	7.6	7.3	7.4	7.8	7.3	7.4
26	7.1	6.9	7.0	7.9	7.6	7.7	7.5	7.4	7.4	7.8	7.5	7.7
27	7.0	6.8	6.9	7.7	7.4	7.6	7.4	7.2	7.3	7.9	7.6	7.7
28	7.0	6.8	6.9	8.0	7.7	7.9	7.3	7.1	7.2	7.9	7.6	7.7
29	6.9	6.8	6.8	8.0	7.6	7.8	7.1	6.8	6.9	7.8	7.6	7.6
30	7.1	6.8	7.0	7.5	7.1	7.4	---	---	---	7.9	7.5	7.7
31	---	---	---	7.3	7.0	7.2	---	---	---	---	---	---
MONTH	9.5	4.8	7.9	8.1	5.8	7.2	7.6	5.7	6.6	8.2	6.4	7.5

PERIOD MAXIMUM 10.7 MINIMUM 4.8 MEAN 8.0

01064500 SACO RIVER NEAR CONWAY, NH

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

DRAINAGE AREA.--385 mi².

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

REVISED RECORDS.--WSP 1301: 1908-09. WDR ME-81-1: Drainage area. WDR ME-87-1: 1936 (M), 1951 (M), 1953 (M), 1960 (M), 1977 (M).

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. 27-29, Dec. 7-10, Dec. 18 to Mar. 27, May 20, June 20-25, July 5-19, Aug. 5-14, 18-24, and Sept. 12-30. Records good except for periods of ice-effect, Nov. 27-29, Dec. 7-10 and Dec. 18 to Mar. 27, and periods of doubtful gage-height record, May 20, June 20-25, July 5-19, Aug. 5-14, 18-24, and Sept. 12-30, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--65 years (water years 1904-09, 1930 to current year), 932 ft³/s, 32.87 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. 29	1100	*22,900	*11.66			No other peak greater than base discharge	

Minimum daily discharge, 105 ft³/s, Aug. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	399	829	3550	e265	e380	e330	1660	4120	960	517	356	557
2	379	736	1830	e255	e745	e320	1550	3090	848	427	302	426
3	339	677	1310	e245	e800	e315	2130	2730	793	358	260	359
4	909	658	1080	e240	e575	e310	2480	2340	749	309	235	331
5	1570	628	954	e235	e460	e305	5000	2100	689	e270	e205	1150
6	911	591	840	e230	e400	e300	5270	2290	672	e200	e185	827
7	767	544	e735	e225	e390	e295	3540	2590	634	e232	e165	551
8	1310	518	e620	e220	e370	e285	2640	2140	567	e218	e168	443
9	887	524	e655	e220	e355	e285	2330	1810	529	e203	e158	380
10	708	534	e780	e215	e340	e310	2370	1810	506	e210	e140	342
11	643	500	859	e210	e330	e330	2230	1830	483	e211	e128	308
12	642	476	824	e205	e320	e300	2000	1980	459	e193	e115	e270
13	583	444	743	e205	e315	e290	1710	1620	431	e175	e105	e245
14	534	436	681	e200	e305	e280	1460	1880	399	e182	e122	e235
15	496	421	651	e195	e300	e270	1310	1420	373	e208	449	e225
16	469	403	668	e200	e295	e265	1260	1260	353	e215	300	e216
17	444	393	635	e210	e290	e260	1240	1280	354	e218	261	e210
18	425	691	e550	e240	e285	e255	1250	1350	379	e270	e225	e205
19	406	833	e500	e290	e280	e250	1330	1660	348	e220	e195	e225
20	390	619	e495	e440	e275	e250	1180	e3600	e305	202	e170	e205
21	407	543	e470	e380	e310	e245	1050	2790	e280	219	e150	e230
22	518	433	e445	e330	e470	e250	966	1920	e256	1240	e147	e290
23	468	452	e425	e310	e440	e265	902	1830	e270	639	e130	e255
24	431	487	e410	e290	e400	e290	936	1470	e293	427	e145	e230
25	433	470	e450	e270	e375	e370	992	1810	e272	401	772	e210
26	490	516	e570	e260	e360	e470	914	2600	450	376	610	e195
27	435	e475	e490	e250	e345	e1500	930	1800	384	373	385	e180
28	1480	e410	e445	e240	e340	2150	1060	1450	318	356	303	e175
29	2250	e400	e385	e280	e335	1260	15000	1240	295	446	533	e165
30	1240	1870	e300	e275	---	1180	7000	1090	290	353	1780	e160
31	966	---	e270	e310	---	1390	---	1070	---	301	937	---
TOTAL	22329	17511	23620	7940	11185	15175	73690	61970	13939	10169	10136	9800
MEAN	720	584	762	256	386	490	2456	1999	465	328	327	327
MAX	2250	1870	3550	440	800	2150	15000	4120	960	1240	1780	1150
MIN	339	393	270	195	275	245	902	1070	256	175	105	160
CFSM	1.87	1.52	1.98	.67	1.00	1.27	6.38	5.19	1.21	.85	.85	.85
IN.	2.16	1.69	2.28	.77	1.08	1.47	7.12	5.99	1.35	.98	.98	.95

CAL YR 1987 TOTAL 338027 MEAN 926 MAX 33000 MIN 129 CFSM 2.41 IN. 32.66
WTR YR 1988 TOTAL 277464 MEAN 758 MAX 15000 MIN 105 CFSM 1.97 IN. 26.81

e Estimated

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, NH

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, Hydrologic Unit 01060002, on left bank 0.3 mi upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi downstream from outlet of Ossipee Lake, and 4 mi northwest of Effingham.

DRAINAGE AREA.--330 mi².

PERIOD OF RECORD.--Discharge: September 1942 to current year.
Water-quality records: Water year 1955.

GAGE.--Water-stage recorder. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--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.--46 years, 687 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,430 ft³/s, May 1, gage height, 7.67 ft; minimum, 130 ft³/s, Sept. 28-30; minimum daily, 130 ft³/s, Sept. 29-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	941	677	403	300	458	1070	3390	552	184	212	147
2	256	925	904	400	302	453	1150	3150	640	184	212	147
3	259	908	968	392	313	447	1230	2830	602	183	211	147
4	262	889	954	390	346	441	1320	2540	528	187	210	149
5	368	873	919	390	371	434	1470	2230	527	184	207	156
6	493	667	871	387	380	427	1660	1680	523	182	203	170
7	495	551	812	382	386	416	1740	1430	520	180	204	181
8	500	548	757	379	392	404	1710	1380	517	180	205	187
9	498	544	711	377	438	393	1640	1200	513	184	204	269
10	496	540	677	374	463	388	1560	1060	310	185	200	308
11	494	536	651	371	451	321	1470	1040	176	183	198	294
12	492	532	631	368	451	287	1400	1040	179	188	182	285
13	491	430	613	322	458	288	1310	983	183	180	156	283
14	490	331	593	303	448	330	1220	938	191	182	155	280
15	488	331	575	286	438	356	1020	915	192	182	157	277
16	426	331	578	286	434	354	927	888	179	180	155	192
17	380	331	565	286	431	355	917	857	177	184	153	142
18	379	334	544	285	427	355	903	722	177	184	153	142
19	377	334	520	287	417	354	899	638	183	190	151	140
20	377	444	510	288	426	354	890	647	183	198	146	140
21	377	530	506	292	436	351	737	665	184	204	142	140
22	377	524	494	293	428	350	554	705	183	374	140	140
23	376	518	483	294	510	348	559	910	184	570	139	139
24	377	513	472	294	587	346	577	1020	182	562	140	137
25	377	439	464	295	585	347	548	1010	182	598	144	136
26	376	406	458	299	572	354	489	1170	183	605	141	135
27	375	417	456	300	561	372	294	1250	183	581	139	132
28	526	423	447	299	548	565	164	1230	182	580	138	132
29	622	421	438	299	496	801	1560	1170	181	351	143	130
30	815	454	418	300	---	912	3110	1130	182	224	145	130
31	955	---	406	300	---	985	---	776	---	213	147	---
TOTAL	13829	15965	19072	10221	12795	13346	34098	40594	8878	8546	5232	5387
MEAN	446	532	615	330	441	431	1137	1309	296	276	169	180
MAX	955	941	968	403	587	985	3110	3390	640	605	212	308
MIN	255	331	406	285	300	287	164	638	176	180	138	130

CAL YR 1987 TOTAL 230715 MEAN 632 MAX 7020 MIN 198
WTR YR 1988 TOTAL 187963 MEAN 514 MAX 3390 MIN 130

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. 19-21, and Dec. 29 to Mar. 22. Records good except for period of ice effect, Dec. 19-21, and Dec. 29 to Mar. 22, 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.--72 years, 879 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, 4,250 ft³/s, May 1, gage height, 6.78 ft; minimum daily, 175 ft³/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	1120	1170	e540	e332	e600	1650	4220	819	253	326	229
2	302	1100	1240	e520	e350	e595	1700	4020	810	261	311	224
3	297	1070	1250	e500	e370	e590	1780	3630	884	252	304	205
4	410	1050	1220	e480	e400	e585	1860	3240	733	244	291	216
5	511	1030	1170	e470	e430	e580	2390	2870	716	239	282	305
6	622	926	1100	e460	e440	e570	2730	2450	703	237	276	297
7	613	662	1030	e450	e460	e560	2520	1950	682	226	260	249
8	615	648	955	e445	e470	e530	2430	1860	668	229	274	254
9	601	645	900	e440	e490	e520	2280	1720	656	219	264	261
10	593	658	864	e435	e580	e480	2120	1500	610	237	253	381
11	596	646	851	e430	e575	e420	2040	1520	318	235	254	359
12	605	635	841	e425	e570	e380	1940	1580	295	228	250	348
13	594	609	806	e420	e565	e385	1800	1470	283	218	219	339
14	583	427	767	e355	e560	e398	1680	1340	262	220	203	344
15	578	401	741	e350	e550	e440	1530	1280	284	244	217	337
16	563	399	744	e349	e525	e470	1360	1230	267	226	213	326
17	455	402	743	e348	e520	e475	1390	1190	260	247	207	203
18	447	408	695	e347	e515	e480	1360	1130	258	368	204	200
19	440	417	e670	e346	e510	e470	1320	1060	256	286	196	188
20	440	426	e660	e345	e505	e470	1260	1140	252	279	191	186
21	448	616	e650	e344	e500	e465	1200	1140	247	302	190	210
22	453	608	633	e343	e520	e475	875	1100	237	624	185	210
23	440	600	617	e342	e650	508	837	1150	259	843	177	183
24	442	595	602	e341	e740	519	889	1390	242	777	194	194
25	443	575	597	e340	e730	573	962	1460	246	809	328	178
26	436	531	603	e339	e720	628	814	1690	291	810	261	189
27	434	569	591	e338	e715	963	722	1720	259	837	218	184
28	683	537	583	e336	e710	1190	457	1630	242	842	196	198
29	970	526	e570	e335	e705	1340	3080	1540	244	717	209	187
30	909	746	e560	e334	---	1450	4000	1470	241	389	307	175
31	1140	---	e550	e333	---	1560	---	1310	---	339	282	---
TOTAL	16973	19582	24973	12180	15707	19669	50976	56000	12524	12237	7542	7359
MEAN	548	653	806	393	542	634	1699	1806	417	395	243	245
MAX	1140	1120	1250	540	740	1560	4000	4220	884	843	328	381
MIN	297	399	550	333	332	380	457	1060	237	218	177	175

CAL YR 1987 TOTAL 318307 MEAN 872 MAX 9330 MIN 215
WTR YR 1988 TOTAL 255722 MEAN 699 MAX 4220 MIN 175

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: Dec. 19, 20, and Dec. 28 to Mar. 26. Records good except for periods of ice effect, Dec. 19, 20, Dec. 28 to Mar. 26, 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.--72 years, 2,701 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, 11,300 ft³/s, May 2; gage height, 8.83 ft.; minimum daily 441 ft³/s, Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	2660	2650	e1150	e965	e1380	3940	9980	3310	661	1170	1600
2	955	2600	3330	e1030	e1100	e1300	4150	11100	3100	834	1210	1500
3	899	2500	3380	e1200	e1250	e1250	4400	11100	2980	903	891	1470
4	1010	2430	3380	e1200	e1400	e1390	4620	10400	2650	922	966	1370
5	1410	2300	3340	e1200	e1600	e1200	5500	9500	2480	847	941	1450
6	1810	2150	3190	e1200	e1380	e1380	6460	8520	2340	818	852	1520
7	1740	1850	2940	e1190	e1450	e1160	6620	7390	2180	775	834	1480
8	1800	1810	2760	e1190	e1450	e1200	7210	6710	2050	743	824	1490
9	1790	1810	2590	e1180	e1300	e1190	7520	6100	1940	737	771	1490
10	1790	1690	2470	e1180	e1500	e1440	7430	5580	1840	581	642	1380
11	1850	1640	2400	e1180	e1500	e1260	7240	5310	1560	649	715	1280
12	1820	1630	2400	e1180	e1410	e1000	6970	5180	1520	680	646	1120
13	1800	1590	2320	e1140	e1550	e1250	6490	4820	1390	536	622	1240
14	1690	1380	2270	e1100	e1410	e1230	6030	4550	1340	552	604	937
15	1700	1300	2190	e1100	e1390	e1260	5490	4340	1240	683	539	987
16	1560	1250	2230	e1100	e1360	e1200	5050	4120	1160	466	604	982
17	1360	1240	2180	e1020	e1380	e1220	4750	3910	1110	546	648	809
18	1410	1230	2020	e985	e1380	e1230	4520	3670	1040	935	736	784
19	1340	1240	e1900	e970	e1330	e1250	4190	3610	896	842	588	771
20	1240	1370	e1850	e970	e1600	e1170	4020	3760	1100	701	558	748
21	1220	1530	1820	e1000	e1700	e1170	3820	3870	844	707	441	733
22	1270	1470	1770	e1030	e1600	e1130	3360	3950	804	1180	591	733
23	1300	1460	1880	e1060	e1620	e1120	3130	4110	928	1800	586	704
24	1290	1430	1890	e1080	e1670	e1170	3100	4340	850	1720	560	711
25	1290	1380	1860	e1090	e1670	e1150	3110	4440	888	1640	726	697
26	1130	1390	1830	e1090	e1670	e1350	2830	4760	852	1640	928	625
27	1200	1410	1760	e1100	e1520	2050	2690	4770	855	1690	1090	629
28	1610	1430	e1150	e1100	e1460	2860	2400	4700	883	1610	906	548
29	2160	1300	e1350	e1050	e1500	3350	6850	4550	841	1680	885	706
30	2440	1710	e1400	e980	---	3500	8250	4290	904	1190	1090	491
31	2710	---	e1220	e1000	---	3720	---	4020	---	1160	1640	---
TOTAL	47594	50180	69720	34045	42115	47530	152140	177450	45875	30428	24804	30985
MEAN	1535	1673	2249	1098	1452	1533	5071	5724	1529	982	800	1033
MAX	2710	2660	3380	1200	1700	3720	8250	11100	3310	1800	1640	1600
MIN	899	1230	1150	970	965	1000	2400	3610	804	466	441	491

CAL YR 1987 TOTAL 919534 MEAN 2519 MAX 30900 MIN 426
WTR YR 1988 TOTAL 752866 MEAN 2057 MAX 11100 MIN 441

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 TEMPERATURE: July 1975 to September 1981.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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)
OCT												
21...	1015	1690	38	6.8	18.0	10.0	0.6	750	10.6	95	50	27
DEC												
18...	0915	2040	37	6.8	0.0	1.0	0.5	760	14.0	99	K 8	K 2
FEB												
08...	1400	2480	39	6.3	2.0	0.0	0.5	760	12.8	88	29	K 5
APR												
19...	1245	4030	36	6.8	15.0	7.0	0.5	750	12.0	100	K 4	K 2
JUN												
15...	1330	1510	42	7.0	34.0	24.5	0.8	760	8.2	99	K 14	K 8
AUG												
25...	1000	690	44	7.0	23.0	25.0	1.2	750	7.6	93	>60	>100

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)
OCT												
21...	9	2.8	0.45	3.4	0.7	7	0	6	7	6	5.7	3.5
DEC												
18...	9	2.7	0.52	3.3	0.7	7	0	5	6	6	7.1	4.4
FEB												
08...	9	2.7	0.47	3.8	0.4	7	0	6	7	6	6.8	4.4
APR												
19...	8	2.3	0.44	2.9	0.5	5	0	4	5	5	7.4	3.9
JUN												
15...	10	3.0	0.50	4.1	0.6	7	0	5	7	7	6.3	4.9
AUG												
25...	10	3.0	0.54	4.0	0.7	7	0	6	8	7	7.4	5.4

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

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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, 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)
OCT 21...	0.3	6.8	30	28	<0.10	<0.01	--	0.2	<0.01	<0.01	<0.01
DEC 18...	0.3	7.0	31	30	<0.10	<0.01	--	<0.2	0.01	<0.01	<0.01
FEB 08...	0.2	8.0	31	32	0.15	0.02	0.03	0.4	<0.01	0.01	<0.01
APR 19...	0.3	6.2	29	28	0.12	<0.01	--	<0.2	0.01	<0.01	<0.01
JUN 15...	0.4	6.1	29	32	0.43	0.05	0.06	0.2	0.01	0.04	0.04
AUG 25...	0.2	6.0	35	32	<0.10	<0.01	--	0.2	0.02	<0.01	<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)
OCT 21...	50	<1	8	<0.5	<1	<1	<3	1	93	<5	<4	10
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	80	<1	8	<0.5	<1	<1	<3	<1	99	<5	<4	15
APR 19...	80	<1	8	<0.5	<1	<1	<3	2	80	<5	<4	15
JUN 15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 25...	40	<1	8	<0.5	<1	<1	<3	1	150	<5	<4	12

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
OCT 21...	<0.1	<10	2	<1	<1.0	22	<6	7	4	18	54
DEC 18...	--	--	--	--	--	--	--	--	3	17	80
FEB 08...	<0.1	<10	2	<1	<1.0	20	<6	11	3	20	78
APR 19...	<0.1	<10	<1	<1	1.0	17	<6	8	21	228	24
JUN 15...	--	--	--	--	--	--	--	--	6	24	61
AUG 25...	<0.1	<10	2	<1	<1.0	24	<6	9	6	11	41

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.--20 years, 194 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, 1,250 ft³/s, Apr. 29, gage height, 5.05 ft; minimum daily, 35 ft³/s, June 26 to July 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	157	231	79	126	240	461	762	179	35	187	230
2	126	175	239	80	133	236	438	373	150	35	85	137
3	96	190	240	80	132	236	421	273	121	35	60	137
4	96	190	240	80	132	160	407	239	121	35	39	137
5	128	190	240	80	141	97	408	214	121	36	39	140
6	160	190	238	80	157	98	415	226	105	36	40	212
7	209	190	234	70	157	98	392	237	80	36	40	272
8	299	190	188	58	157	98	352	226	66	36	40	229
9	333	190	150	58	157	98	316	210	51	36	40	154
10	333	190	150	58	157	99	286	200	43	38	40	118
11	332	190	150	58	157	101	238	200	37	38	40	118
12	323	124	151	58	157	102	160	215	39	38	40	118
13	244	80	152	58	157	102	77	256	40	38	41	116
14	155	81	141	58	157	102	82	289	40	39	41	116
15	155	82	132	58	157	102	102	269	40	40	61	113
16	155	82	132	58	144	102	140	267	40	40	80	112
17	155	82	133	58	130	102	168	227	41	40	82	112
18	155	82	135	58	130	102	186	180	41	61	82	112
19	154	82	135	58	130	102	194	180	41	82	112	112
20	151	82	135	58	130	102	189	146	41	82	140	112
21	150	82	135	58	130	103	175	118	41	83	138	113
22	150	83	135	59	147	105	148	145	40	125	132	112
23	150	84	135	60	162	105	121	174	38	178	106	110
24	150	68	117	60	182	105	130	196	36	190	80	110
25	150	52	102	74	200	105	146	264	36	187	81	110
26	150	52	102	88	200	106	151	390	35	251	111	108
27	150	52	102	90	200	171	150	310	35	315	139	107
28	148	52	102	101	200	441	158	200	35	311	139	107
29	149	52	102	110	221	538	851	201	35	311	174	93
30	152	143	102	111	---	504	1050	192	35	307	280	102
31	155	---	90	113	---	475	---	182	---	305	347	---
TOTAL	5575	3539	4770	2227	4540	5237	8512	7561	1803	3419	3056	3979
MEAN	180	118	154	71.8	157	169	284	244	60.1	110	98.6	133
MAX	333	190	240	113	221	538	1050	762	179	315	347	272
MIN	96	52	90	58	126	97	77	118	35	35	39	93

CAL YR 1987 TOTAL 62415 MEAN 171 MAX 3120 MIN 28
WTR YR 1988 TOTAL 54218 MEAN 148 MAX 1050 MIN 35

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	06-17-88 06-17-88 06-29-88	11.0 11.5 9.6
West Branch Sebasticoock River	Kennebec River	Lat 44°52'45", long 69°26'48", Somerset County, 1,200 ft downstream from Route 23 highway bridge in Hartland.		many	08-24-88 08-24-88	29 29
ANDROSCOGGIN RIVER BASIN						
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.		1987	07-29-88 07-29-88	1,580 1,560
SACO RIVER BASIN						
Cook's Brook	Saco River	Lat 43°34'13", long 70°41'04", at East Waterboro, Me.			06-22-88 08-17-88	.01 .02
Cook's Brook	Saco River	Lat 43°34'31", long 70°41'15", at East Waterboro, Me.			06-22-88 08-17-88	.40 .53
MOUSAM RIVER BASIN						
Carpenter Brook	Mousam River	Lat 43°31'49", long 70°42'41", at Waterboro, Me.			06-22-88 08-17-88	.54 .79
Carpenter Brook	Mousam River	Lat 43°31'50", long 70°43'05", at Waterboro, Me.			06-22-88 08-17-88	1.1 1.2

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC 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 1987						MAY					
24...	1258	1530	1.0	7.0	50	13...	0900	2640	11.0	16.0	36
JAN 1988						JUL					
20...	1100	281	0.0	-4.0	70	12...	1425	1610	25.0	24.0	49
MAR											
25...	0900	324	0.0	-5.0	78						
01010070 BIG BLACK RIVER NEAR DEPOT MTN, ME (LAT 46 53 38N LONG 069 45 08W)											
NOV 1987						MAY					
24...	1540	E 145	0.5	5.0	44	12...	1530	404	13.0	20.0	50
JAN 1988						JUL					
19...	1515	44	0.0	-2.5	109	13...	1450	165	24.0	26.0	75
MAR											
24...	1800	33	0.0	-1.0	115						
01010500 ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44N LONG 069 05 25W)											
NOV 1987						JUL					
03...	0750	4040	3.0	2.0	48	26...	0940	954	22.0	26.0	67
JAN 1988						SEP					
12...	1100	649	0.0	-10.0	76	22...	0901	1790	14.0	11.0	63
MAY											
03...	0655	14000	4.0	1.0	37						
01011000 ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14N LONG 069 04 51W)											
NOV 1987						MAY					
03...	0945	1250	4.0	3.0	51	03...	0900	5220	5.0	8.0	39
JAN 1988						JUL					
12...	1230	656	0.0	-8.0	55	26...	1140	724	23.0	27.0	54
MAR						SEP					
01...	1130	425	0.0	1.0	95	22...	0956	742	14.0	13.0	66
01013500 FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14N LONG 068 34 56W)											
NOV 1987						MAY					
02...	1630	959	7.0	0.0	66	02...	1940	4370	5.0	8.0	61
JAN 1988						JUL					
13...	0655	E 530	0.0	-1.0	66	26...	1440	712	23.0	28.0	60
MAR						SEP					
02...	0730	361	0.0	-12.0	90	22...	1700	325	15.0	13.0	68
01014000 ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27N LONG 068 35 35W)											
NOV 1987						MAY					
02...	1715	8910	7.0	1.0	70	02...	1800	30400	--	--	64
JAN 1988						JUL					
13...	0800	2510	0.0	-1.0	73	26...	1715	3270	24.0	22.0	85
MAR						SEP					
01...	1645	1770	0.0	-5.0	108	23...	1045	3430	14.0	10.0	75
01015800 AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21N LONG 068 22 23W)											
NOV 1987						MAY					
02...	1040	880	3.0	4.0	45	02...	0745	4800	4.5	4.0	35
JAN 1988						JUL					
11...	1215	401	0.0	-12.0	65	25...	1100	226	22.0	20.0	59
FEB						SEP					
29...	1100	373	0.0	-2.0	65	21...	1050	155	15.0	14.0	66

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC 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 1987						MAY					
03...	1445	1520	4.0	6.0	55	02...	1035	9100	5.0	8.0	40
JAN 1988						JUL					
11...	1445	960	0.0	-7.0	63	25...	1400	504	25.0	22.0	71
FEB						SEP					
29...	1230	1020	0.0	1.0	68	21...	1237	405	15.5	19.0	99
ST. CROIX RIVER BASIN											
01018500 ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08N LONG 067 25 47W)											
OCT 1987						AUG					
20...	0935	708	9.5	12.0	28	09...	1300	243	26.0	25.0	28
JAN 1988						SEP					
07...	0950	986	1.0	-15.0	29	13...	1200	677	16.0	17.0	19
MAY											
06...	1010	207	9.5	16.0	29						
01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23N LONG 067 46 06W)											
OCT 1987						MAY					
20...	0730	183	11.0	4.0	24	06...	0730	144	8.0	12.0	24
JAN 1988						AUG					
07...	0800	326	0.0	-17.0	27	09...	1030	261	25.0	27.0	23
MAR						SEP					
08...	0745	432	1.0	-9.0	30	13...	1445	312	17.0	19.0	23
DENNY'S RIVER BASIN											
01021200 DENNY'S RIVER AT DENNYVILLE, ME (LAT 44 54 03N LONG 067 14 56W)											
OCT 1987						AUG					
19...	1345	59	9.5	13.0	39	08...	1520	69	26.0	30.5	36
JAN 1988						23...	0852	60	--	--	34
06...	1425	E 79	0.0	-15.0	36	SEP					
MAR						14...	1045	62	14.0	10.0	34
07...	1435	124	0.5	6.0	40						
MAY											
05...	1540	196	17.0	23.0	32						
PLEASANT RIVER BASIN											
01022260 PLEASANT RIVER NEAR EPPING, ME (SW SITE 13) (LAT 44 41 52N LONG 067 47 16W)											
OCT 1987						MAY					
19...	1120	64	9.0	13.0	26	05...	1305	153	10.5	21.0	22
JAN 1988						AUG					
06...	1230	E 66	0.0	-14.0	26	08...	1215	42	25.0	31.0	26
MAR						SEP					
07...	1300	114	0.5	4.5	28	14...	1221	48	15.0	22.0	27

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)
NARRAGUAGUS RIVER BASIN											
01022500		NARRAGUAGUS RIVER AT CHERRYFIELD, ME (LAT 44 36 29N LONG 067 56 10W)									
OCT 1987						MAY					
19...	1030	203	9.0	12.5	32	05...	1055	548	9.0	18.0	26
JAN 1988						AUG					
06...	1130	387	0.0	-14.0	33	08...	1050	97	25.0	29.0	36
MAR						SEP					
07...	1110	322	0.5	3.5	32	14...	1500	94	16.0	20.0	33
PENOBSCOT RIVER BASIN											
01030000		PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01N LONG 068 24 10W)									
OCT 1987						AUG					
08...	1200	4800	13.0	15.0	48	16...	1200	7490	24.0	24.0	60
JAN 1988						SEP					
07...	1100 E	2920	0.0	-11.0	48	19...	1110	4510	17.0	19.0	43
MAR											
22...	1530	2330	1.0	-2.0	52						
01030500		MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18N LONG 068 18 07W)									
OCT 1987						AUG					
08...	1030	2370	12.0	13.0	59	16...	0845	1320	22.0	19.5	50
JAN 1988						SEP					
07...	1415	600	0.0	-15.0	72	19...	0930	410	15.5	16.5	58
MAR											
22...	1400	790	0.0	-2.0	61						
01031500		PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31N LONG 069 18 55W)									
OCT 1987						MAY					
21...	1315	150	11.0	12.0	44	23...	0855	253	10.0	17.0	40
DEC						AUG					
04...	1200	1210	0.5	1.0	43	11...	1430	108	27.0	35.0	37
JAN 1988						SEP					
14...	1130	156	0.0	-25.0	50	21...	0855	134	17.0	18.0	40
MAR											
21...	1115	242	0.0	-7.0	57						
01033000		SEBEC RIVER AT SEBEC, ME (LAT 45 16 12N LONG 069 06 44W)									
OCT 1987						MAY					
21...	1030	320	12.0	15.0	26	23...	1110	335	17.0	20.0	23
JAN 1988						AUG					
14...	1200	141	0.5	-25.0	27	11...	1030	70	27.0	31.0	27
MAR						SEP					
21...	1400	310	2.0	-6.0	31	21...	1055	857	17.0	23.0	26
01034500		PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12N LONG 068 38 56W)									
OCT 1987						AUG					
09...	1100	11100	12.0	7.0	60	15...	1800	6880	23.5	22.0	62
JAN 1988						SEP					
08...	1300 E	5650	0.0	-7.0	49	19...	1340	5500	17.0	20.0	90
MAR											
22...	1200 E	4620	0.0	-5.0	53						

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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SHEEPSCOT RIVER BASIN											
01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23N LONG 069 35 38W)											
OCT 1987						MAY					
08...	1405	94	14.0	20.0	73	31...	1130	212	16.0	--	43
DEC						JUL					
07...	1130	512	--	--	40	05...	1610	32	25.0	30.0	53
MAR 1988						SEP					
07...	1211	154	3.0	12.0	87	09...	1535	36	19.0	26.0	54
29...	1600	865	4.0	7.0	90						
KENNEBEC RIVER BASIN											
01042500 KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25N LONG 069 57 48W)											
NOV 1987						MAY					
24...	0930	326	3.0	5.0	33	12...	1015	512	13.0	20.0	37
JAN 1988						AUG					
19...	1030	5750	0.5	2.0	32	05...	0930	257	23.0	24.0	34
MAR											
24...	0945	262	1.0	10.0	35						
01046500 KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06N LONG 069 53 12W)											
NOV 1987						MAY					
23...	1200 E	2620	6.0	-2.0	33	05...	1415	3890	7.0	25.0	34
JAN 1988						AUG					
19...	0945	5990	1.0	2.0	35	05...	1445	6110	20.5	33.0	37
MAR											
24...	0845	6150	11.0	8.0	38						
01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09N LONG 069 57 20W)											
NOV 1987						MAY					
23...	1430	232	0.5	1.0	41	05...	1215	992	11.0	24.0	31
JAN 1988						AUG					
15...	1145	211	0.0	0.0	46	30...	1100	1990	17.0	18.0	36
MAR											
17...	1300	194	0.0	6.0	44						
01048000 SANDY RIVER NEAR MERCER, ME (LAT 44 42 26N LONG 069 56 21W)											
DEC 1987						MAR					
01...	1030	6480	1.0	5.0	66	17...	1100 E	370	0.0	5.0	70
JAN 1988						AUG					
13...	1500 E	355	0.0	-1.0	62	04...	1100	213	28.0	28.0	53
01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00N LONG 069 24 56W)											
APR 1988						MAY					
27...	1332	1090	9.0	13.0	70	23...	1038	414	19.0	25.0	97

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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KENNEBEC RIVER BASIN											
01049130 JOHNSON BROOK AT SOUTH ALBION, ME (LAT 44 29 53N LONG 069 29 12W)											
OCT 1987						MAY					
08...	1100	1.9	13.0	17.0	118	23...	1201	1.4	--	27.0	124
DEC						JUL					
07...	1328	4.6	--	--	96	12...	1500	3.0	25.0	33.0	130
JAN 1988						SEP					
19...	1340	E 1.8	0.5	9.0	135	09...	1107	0.73	15.0	24.0	128
APR											
07...	1200	10	--	--	99						
01049373 MILL STREAM AT WINTHROP, ME (LAT 44 18 24N LONG 069 58 18W)											
OCT 1987						MAY					
07...	1040	4.8	15.0	22.0	68	25...	1200	58	16.0	11.0	66
JAN 1988						JUL					
19...	0938	30	3.0	4.0	72	06...	1100	15	22.0	28.0	68
MAR						SEP					
07...	0920	35	3.0	3.0	73	06...	1440	14	19.0	16.0	67
01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15N LONG 069 47 25W)											
JAN 1988						MAY					
19...	1116	126	2.0	11.0	89	31...	1302	261	19.0	27.0	78
MAR						SEP					
07...	1116	186	3.0	7.0	82	07...	1329	310	20.0	18.0	87
01049550 TOGUS STREAM AT TOGUS, ME (LAT 44 15 57N LONG 069 41 55W)											
OCT 1987						JUN					
08...	1230	9.0	14.0	19.0	95	02...	0917	22	18.0	18.0	49
DEC						JUL					
07...	1205	79	--	--	95	05...	1156	6.5	22.0	25.0	46
JAN 1988						SEP					
19...	1205	21	2.0	--	77	07...	1430	6.5	15.5	16.0	68
MAR											
07...	1336	26	3.0	12.0	74						
ANDROSCOGGIN RIVER BASIN											
01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40N LONG 071 03 25W)											
OCT 1987						JUN					
26...	1215	314	5.0	8.0	31	30...	1415	117	15.0	16.0	35
JAN 1988						SEP					
12...	1330	107	0.0	-5.0	41	02...	1345	330	15.0	24.0	32
MAR						20...	1030	206	13.0	19.0	30
15...	1200	73	0.0	5.0	38						
MAY											
04...	1000	696	7.0	14.0	26						

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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ANDROSCOGGIN RIVER BASIN											
01053500 ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57N LONG 071 07 46W)											
OCT 1987						MAY					
26...	1400	1400	8.0	9.0	30	04...	1245	1380	8.0	17.0	28
JAN 1988						JUL					
12...	1415	1670	0.5	3.0	31	21...	0955	1310	23.0	23.0	29
MAR						SEP					
15...	1245	1660	1.0	3.0	35	20...	1220	1960	16.0	18.0	29
01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10N LONG 071 11 27W)											
OCT 1987						MAY					
23...	0945	1900	9.0	2.0	76	04...	1530	3210	8.0	19.0	58
JAN 1988						JUL					
12...	1530	1930	1.0	-2.5	80	22...	1140	1710	23.0	23.0	81
MAR						SEP					
15...	1400	1650	1.0	3.0	93	22...	1225	1890	17.0	18.0	72
01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33N LONG 070 32 50W)											
OCT 1987						MAY					
22...	1330	2830	11.0	7.0	106	03...	1000	8220	7.0	8.0	66
JAN 1988						SEP					
11...	1100 E	2400	0.5	-12.0	81	20...	1335	2640	18.0	17.0	55
MAR											
16...	1200	2090	1.0	4.0	127						
01055000 SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32N LONG 070 35 17W)											
OCT 1987						APR					
22...	0945	177	9.0	4.0	25	29...	1340	2180	5.0	12.0	18
JAN 1988						MAY					
11...	1215	52	0.0	-5.0	27	03...	1345	487	8.0	10.0	20
MAR						SEP					
16...	1430	46	6.0	4.0	31	22...	0805	88	14.0	17.0	24
01055500 NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10N LONG 070 13 49W)											
NOV 1987						MAY					
16...	0905	98	2.0	-1.0	64	11...	0735	202	13.0	11.0	54
DEC						JUL					
31...	0915	146	0.0	-5.0	52	28...	0815	85	22.0	23.5	72
FEB 1988											
22...	0930	259	0.0	-2.0	66						
01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08N LONG 070 32 16W)											
NOV 1987						MAY					
16...	1110	E 39	3.0	2.0	45	11...	1000	138	10.0	12.0	44
DEC						JUL					
31...	1300	49	0.0	-3.0	47	28...	1010	54	21.5	21.0	44
FEB 1988						SEP					
22...	1215	63	0.0	-2.0	49	26...	1445	14	13.0	19.0	60

WATER QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

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ANDROSCOGGIN RIVER BASIN--Continued											
01059000		ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20N LONG 070 12 31W)									
NOV 1987						MAY					
18...	1240	3110	6.0	17.0	130	11...	1220	6160	13.0	15.0	58
FEB 1988						SEP					
22...	1330	3540	0.5	-2.0	86	29...	1715	2690	17.0	14.0	131
ROYAL RIVER BASIN											
01060000		ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57N LONG 070 10 45W)									
NOV 1987						JUL					
17...	0850	80	3.0	8.0	108	18...	0850	358	22.0	25.0	100
JAN 1988						SEP					
04...	0925	69	0.0	-4.0	104	27...	1330	47	16.0	17.0	116
MAY											
04...	0850	396	10.0	15.0	60						
SACO RIVER BASIN											
01064500		SACO RIVER NEAR CONWAY, NH (LAT 43 59 27N LONG 071 05 29W)									
NOV 1987						JUL					
04...	0855	662	6.5	9.5	34	19...	0935	E 220	22.0	24.0	52
FEB 1988						SEP					
23...	0915	E 440	0.5	4.0	39	23...	1345	E 255	15.0	14.5	53
MAY						28...	1545	E 175	15.0	14.5	53
09...	1005	1940	9.0	15.5	29						
01065500		OSSIPPEE RIVER AT CORNISH, ME (LAT 43 48 26N LONG 070 47 55W)									
NOV 1987						JUL					
04...	1305	1040	9.5	16.0	31	20...	0850	244	22.5	24.0	36
FEB 1988						SEP					
23...	1250	653	0.0	6.0	40	28...	1430	171	17.0	14.0	41
MAY											
10...	0850	1490	13.5	8.0	30						

ANDROSCOGGIN COUNTY

440730070035304. Local number, AN 988C.

LOCATION.--Lat 44°07'23", long 70°04'02", Hydrologic Unit 01040002, on Bowdoin Road, 0.4 mi east of State Highway 126, in Sabattus. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Wash-bored observation artesian well, diameter 1.5 in., depth 43 ft, screened 38 to 43 ft.

INSTRUMENTATION.--Measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 220 ft above National Geodetic Vertical Datum of 1929, from topographic maps. Measuring point: Top of pipe at land-surface datum, which is 2.7 ft above the general land surface.

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

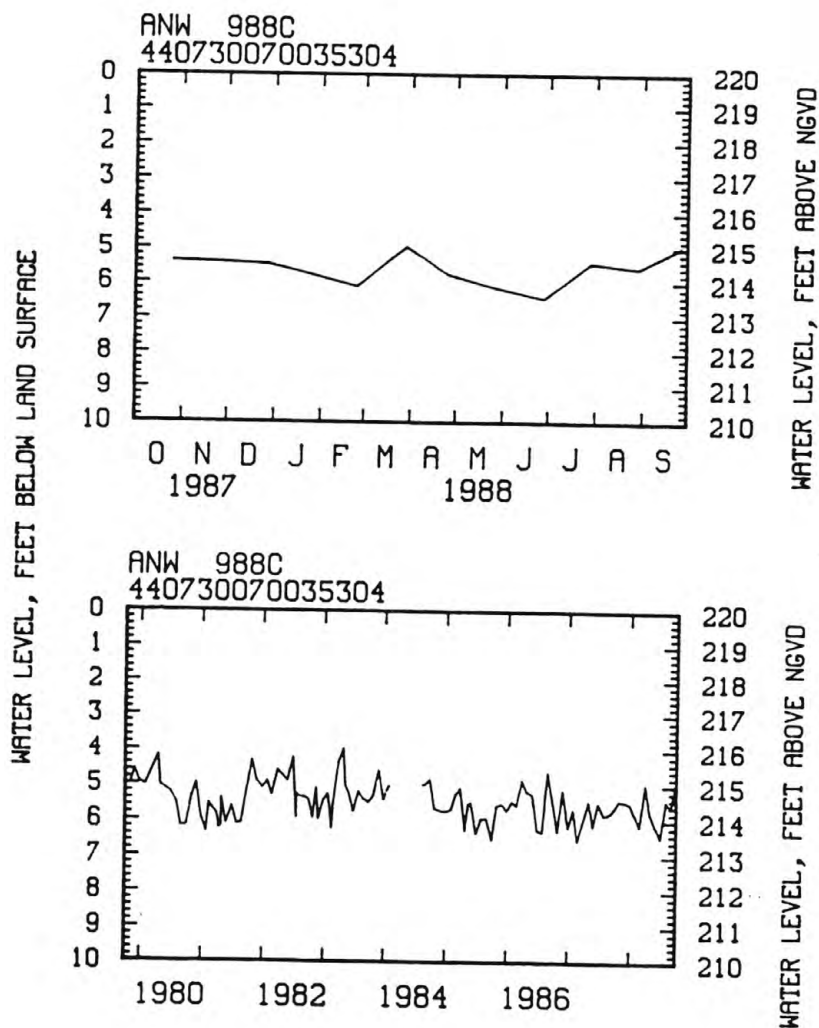
PERIOD OF RECORD.--October 1976 to January 1984 and August 29, 1984 to current year.

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 1987 TO SEPTEMBER 1988

WATER LEVEL			WATER LEVEL			WATER LEVEL			WATER LEVEL			WATER LEVEL			WATER LEVEL		
OCT	26	5.41	DEC	28	5.50	FEB	25	6.13P	APR	26	5.78	JUN	28	6.45	AUG	29	5.60
NOV	30	5.45	JAN	25	5.79	MAR	29	4.96	MAY	27	6.15	JUL	29	5.43	SEP	26	4.95

P = Pumping



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 Vertical Datum 1929, from topographic maps. Measuring point: Top of 1.5 in. pipe coupling, at land-surface datum.

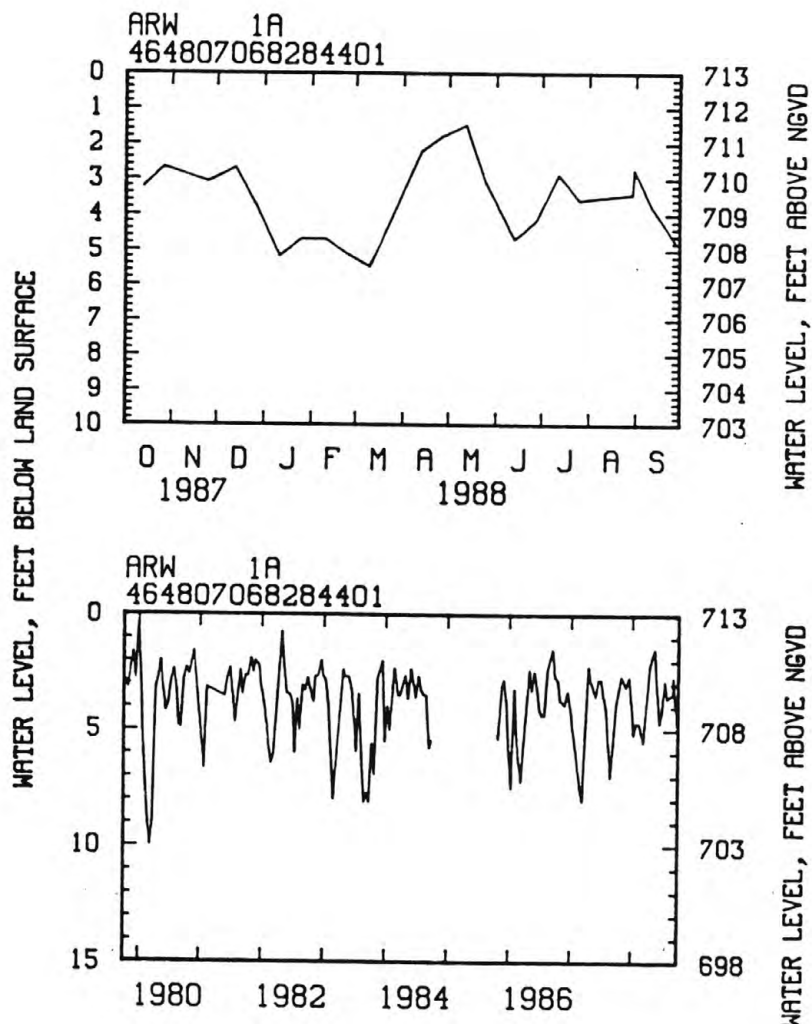
PERIOD OF RECORD.--November 1975 to current year. Records prior to October 1981 have not been published, but are available in the files of the Geological Survey.

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 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	3.24	DEC 13	2.70	FEB 10	4.20	APR 13	2.20	JUN 13	4.70	AUG 12	3.50
27	2.68	26	3.70	26	5.17	26	1.80	27	4.18	30	3.42
NOV 25	3.10	JAN 11	5.18	MAR 10	5.50	MAY 12	1.47	JUL 12	2.88	SEP 12	3.80
		25	4.70	28	Q	25	3.10	26	3.60	27	4.75

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 Vertical 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.

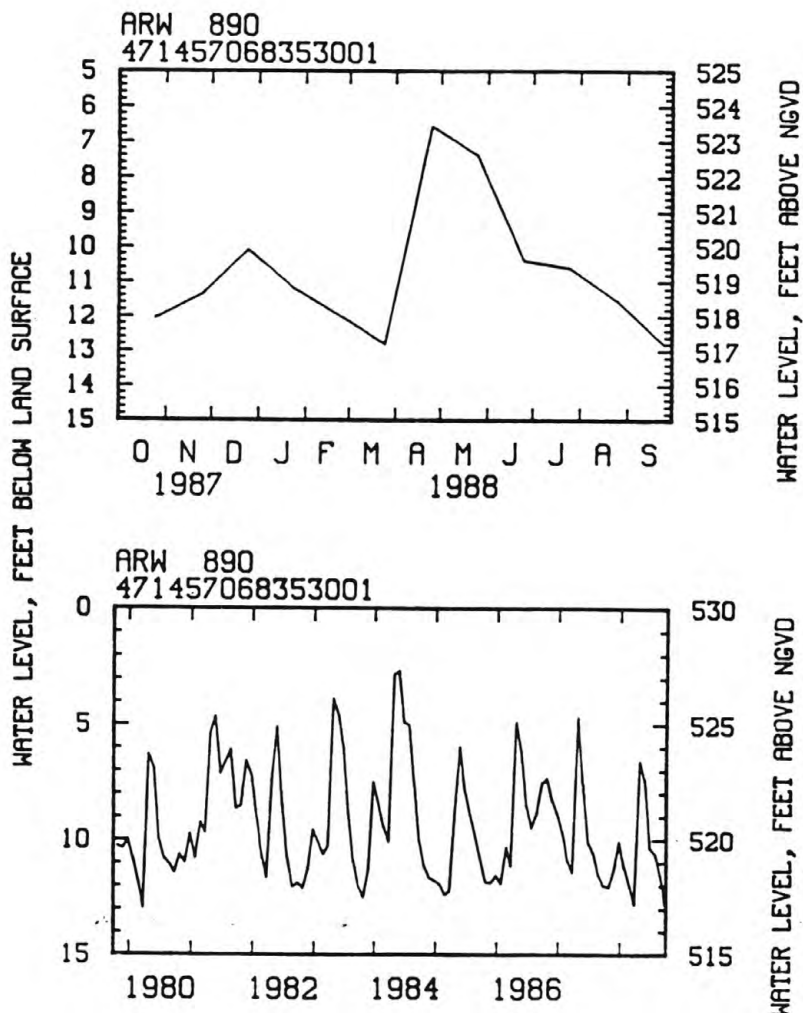
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.52 ft below land-surface datum, May 2, 1984; lowest, 15.28 ft below land-surface datum, Jan. 22 and 23, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.82	11.65	10.49	10.20	11.40	12.34	11.17	5.66	8.19	10.05	11.29	11.96
10	12.05	11.41	10.01	10.49	11.54	12.43	8.93	6.15	8.75	10.14	11.30	12.34
15	11.98	11.50	10.12	10.74	11.48	12.42	7.97	6.52	8.95	10.35	11.15	12.00
20	11.99	11.38	10.09	11.03	11.52	12.76	6.89	7.02	9.36	10.63	11.26	12.11
25	12.07	11.35	10.08	11.22	12.02	12.81	6.56	7.38	10.39	10.62	11.54	12.82
EOM	11.94	10.87	10.39	11.02	11.81	12.52	6.06	7.52	10.56	11.05	11.60	12.71

WTR YR 1988 HIGH 5.60 MAY 4

LOW 12.86 MAR 23



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 Vertical 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.

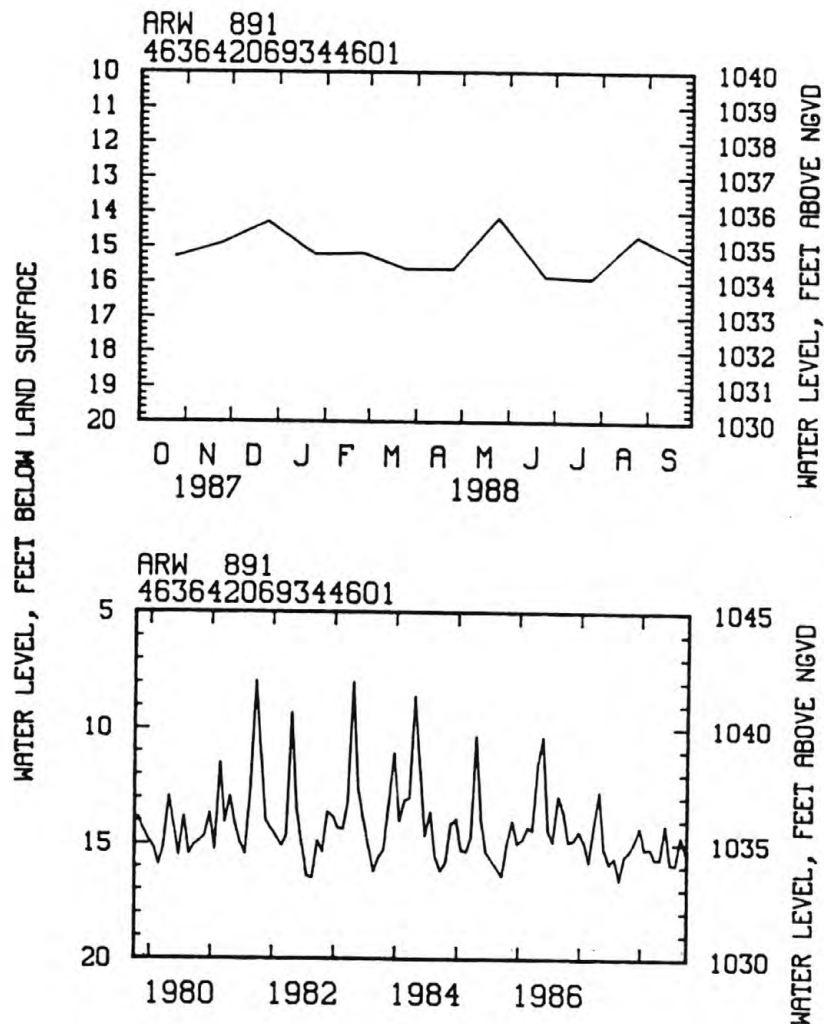
REVISED RECORDS.--WDR ME-84-1: 1980, 1981.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.25	13.99	13.48	14.77	14.87	15.42	10.55	11.86	14.68	15.33	16.18	15.08
10	15.21	14.27	13.90	15.13	15.30	15.51	11.70	12.78	15.18	15.53	15.64	15.28
15	15.28	14.67	14.28	15.32	14.84	15.55	12.13	13.26	15.51	15.54	15.54	15.44
20	15.54	14.48	13.94	15.10	14.99	15.72	12.04	13.66	15.62	15.62	14.35	15.24
25	15.30	14.89	14.28	15.23	15.18	15.64	11.84	14.16	15.85	15.91	14.68	15.36
EOM	14.39	14.70	14.51	15.41	15.31	13.72	11.30	14.22	15.80	16.06	14.89	15.50

WTR YR 1988 HIGH 10.55 APR 5 LOW 16.18 AUG 3, 5



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 December 16 and May 2, doubtful gage-height record.

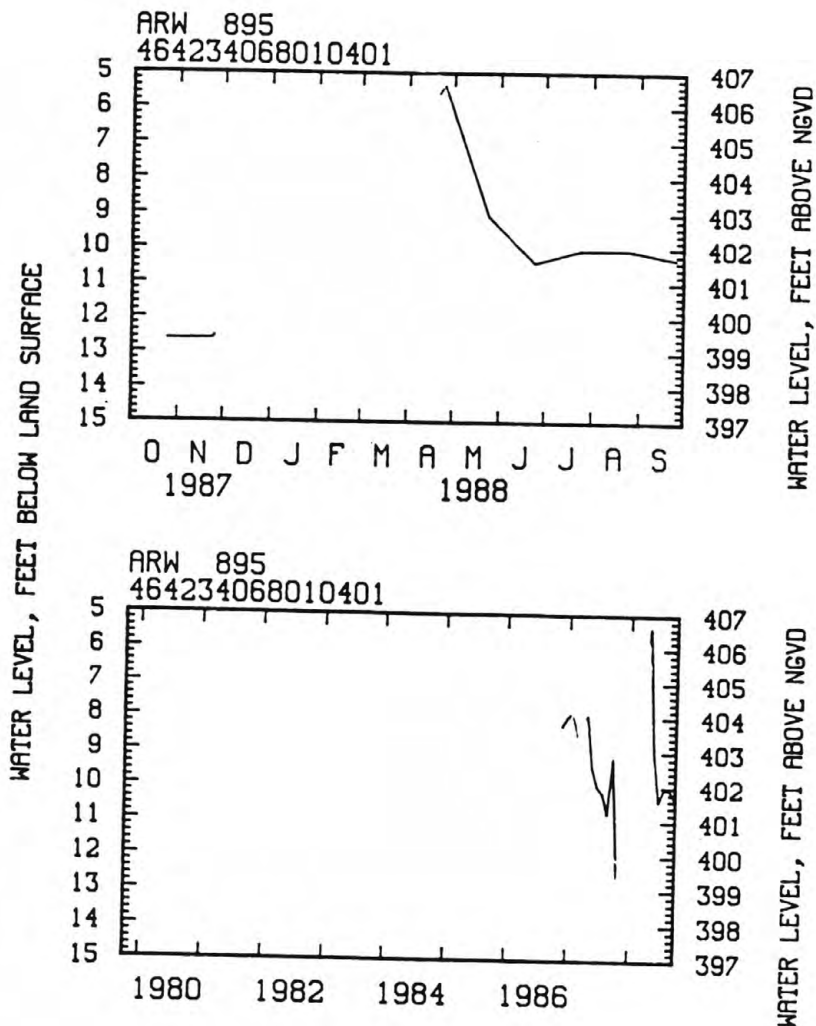
PERIOD OF RECORD.--November 1986 to current year.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.56	9.16	8.42	---	---	---	---	6.49	9.47	9.38	10.11	9.94
10	9.09	9.04	8.30	---	---	---	---	7.78	9.78	9.96	9.62	10.00
15	9.40	8.92	8.13	---	---	---	---	7.94	10.04	9.48	10.09	10.24
20	9.47	8.79	---	---	---	---	---	8.45	10.28	9.70	9.48	10.31
25	9.45	8.67	---	---	---	---	---	9.06	10.41	10.04	10.03	10.30
EOM	9.29	8.55	---	---	---	---	---	9.11	10.42	10.25	9.74	10.44

WTR YR 1988 HIGH 5.62 MAY 3 LOW 10.44 SEP 30



AROOSTOOK COUNTY--Continued

464239067574401. Local number, Ar 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 26 through Aug. 9 because recorder stopped.

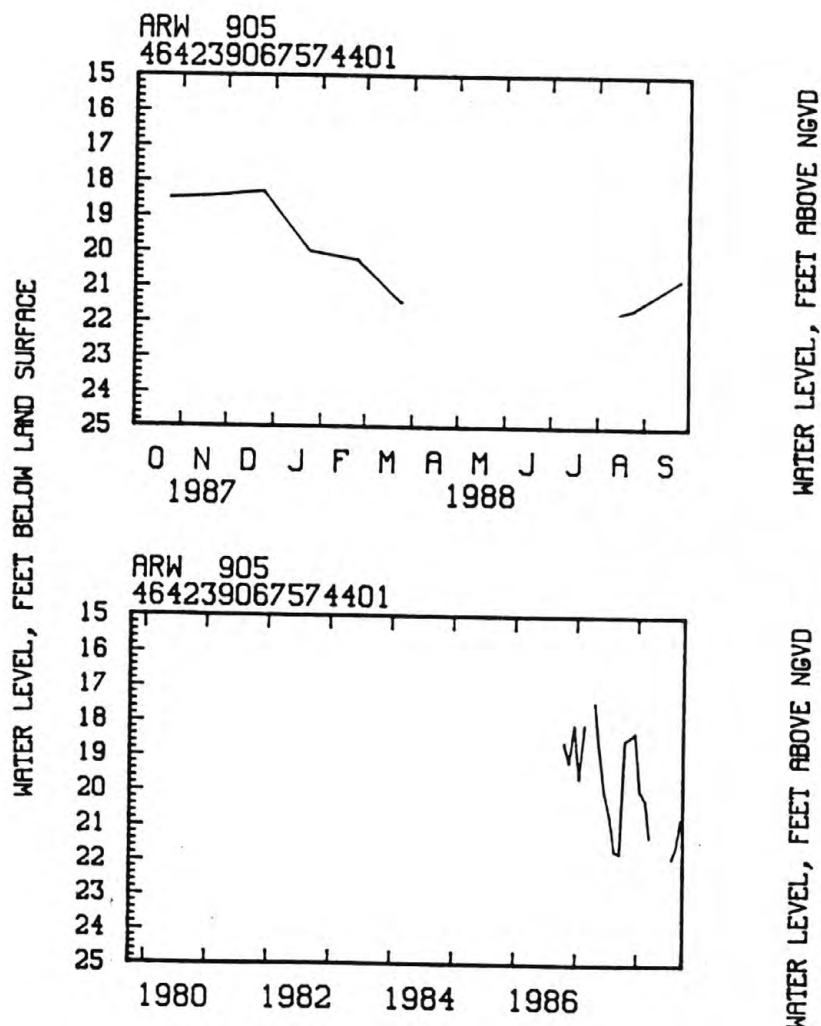
PERIOD OF RECORD.--August 1986 to current year. Records prior to October 1986 have not been published but are available in the files of the Geological Survey.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.91	17.27	15.69	19.24	20.10	20.61	---	---	---	---	---	19.73
10	17.40	17.04	15.64	19.46	20.00	20.83	---	---	---	---	22.29	19.94
15	17.18	17.32	16.47	19.68	19.88	21.13	---	---	---	---	22.41	20.26
20	17.85	17.97	17.52	20.01	19.95	21.32	---	---	---	---	22.34	20.49
25	18.52	18.43	18.30	20.00	20.24	21.45	---	---	---	---	21.62	20.78
EOM	17.79	18.61	18.86	20.07	20.36	---	---	---	---	---	19.85	21.04

WTR YR 1988 HIGH 15.54 DEC 8-9 LOW 22.47 AUG 17-18



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 October 16 and November 11 because of doubtful gage height record.

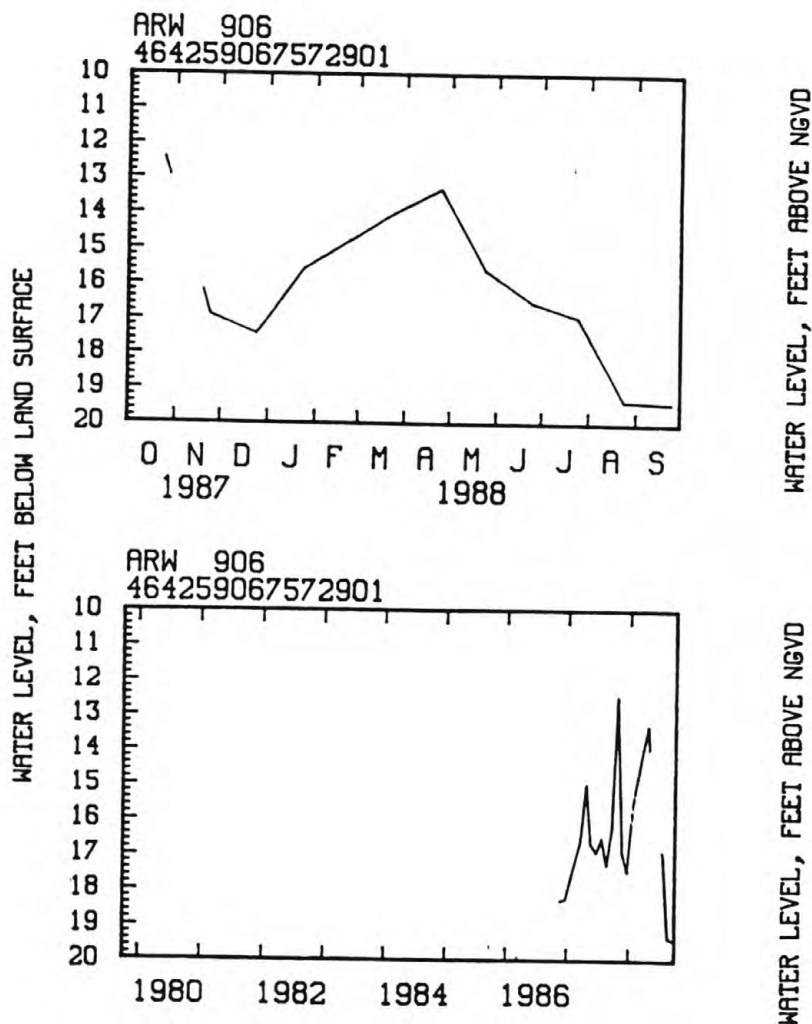
PERIOD OF RECORD.--November 1986 to current year.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.32	---	11.63	15.47	15.28	14.52	13.70	13.49	15.99	16.60	16.83	19.25
10	12.24	---	12.11	15.84	15.15	14.39	13.69	14.51	16.16	16.72	19.24	19.34
15	12.47	13.22	12.14	15.84	15.03	14.26	13.56	15.00	16.30	16.73	19.30	19.39
20	---	13.42	13.49	15.71	14.89	14.12	13.43	15.34	16.42	16.83	19.21	19.39
25	---	14.00	14.62	15.57	14.76	13.99	13.30	15.62	16.53	16.95	19.34	19.39
EOM	---	14.76	14.28	15.41	14.65	13.83	13.16	15.82	16.57	16.89	19.21	19.38

WTR YR 1988 HIGH 11.03 DEC 2 LOW 19.40 SEP 18-19



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.--October 1 through December 10 and February 12 through February 29, and March 27 through July 24, period of doubtful gage height record.

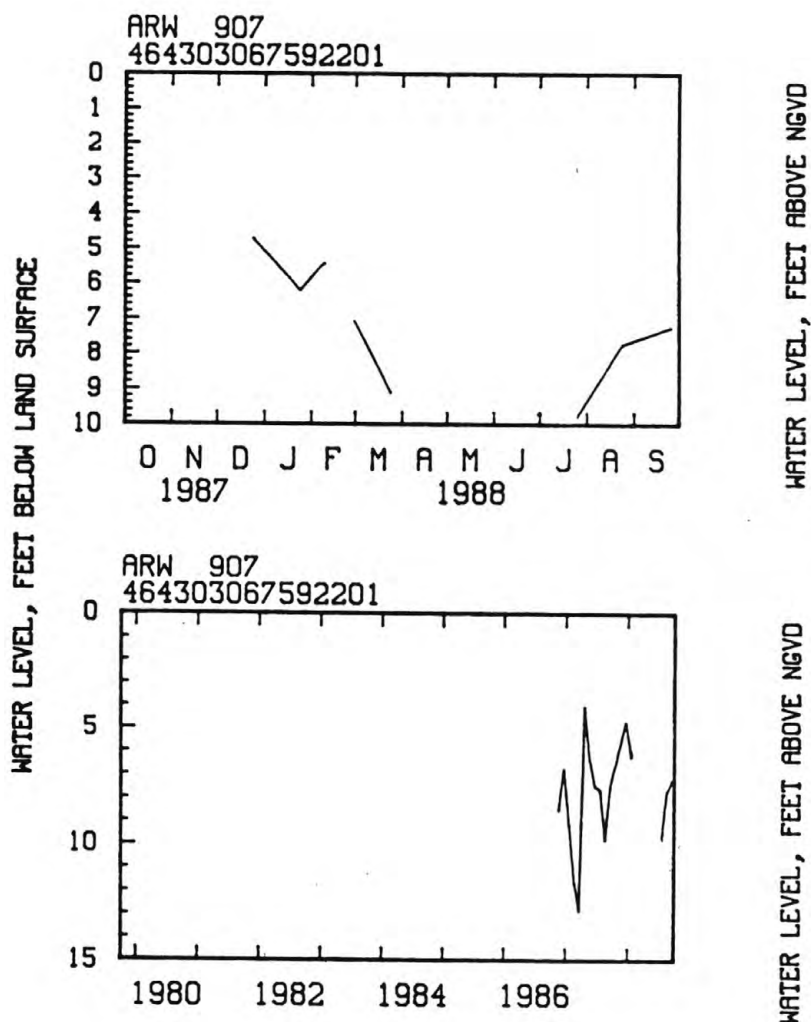
PERIOD OF RECORD.--November 1986 to current year.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	5.48	5.03	7.47	---	---	---	---	9.86	6.56
10	---	---	---	6.02	5.45	7.99	---	---	---	---	9.00	6.76
15	---	---	3.84	6.45	---	8.41	---	---	---	---	8.42	6.99
20	---	---	4.38	6.15	---	8.72	---	---	---	---	7.54	7.07
25	---	---	4.75	6.24	---	9.12	---	---	---	9.86	7.75	7.26
EOM	---	---	5.26	6.70	---	---	---	---	---	9.75	6.73	7.43

WTR YR 1988 HIGH 3.37 DEC 10 LOW 9.89 AUG 6-7



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 Vertical 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.

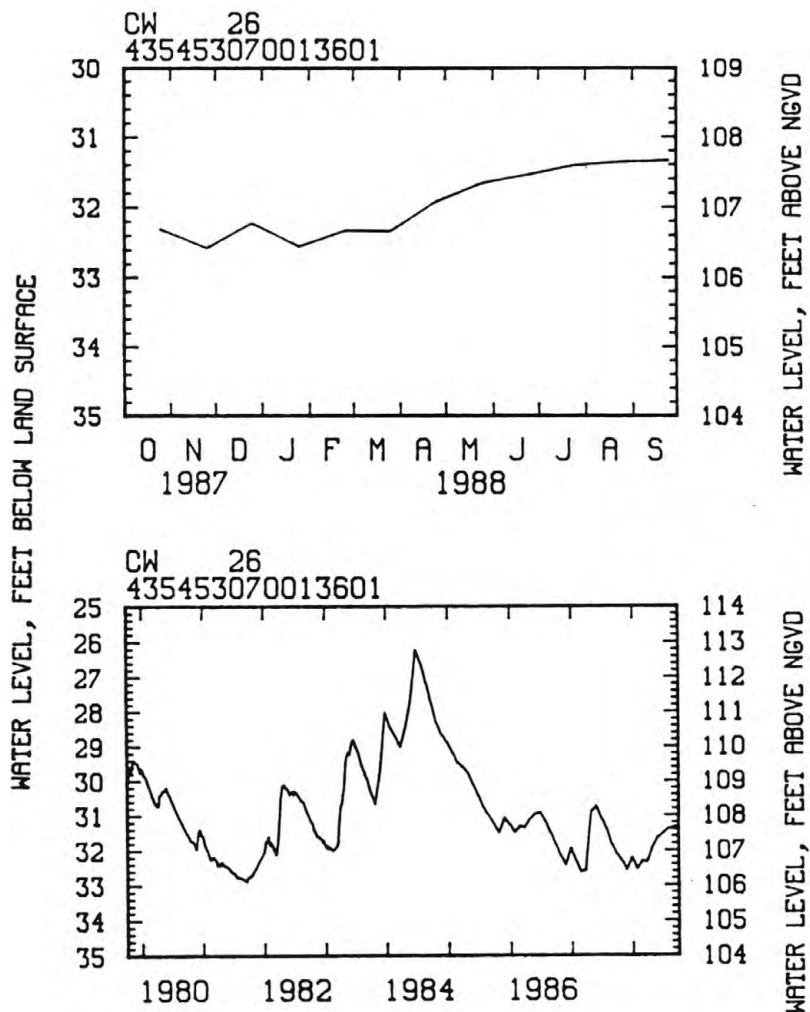
REVISED RECORDS.--WDR ME-82-1: 1978, 1981 WDR ME-83-1: 1977, WRD ME-84-1: 1980, 1981.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.21	32.35	32.12	32.35	32.61	32.41	32.05	31.73	31.43	31.61	31.29	31.21
10	32.26	32.47	32.13	32.45	32.67	32.37	31.97	31.67	31.49	31.60	31.29	31.23
15	32.27	32.53	32.16	32.50	32.67	32.39	31.96	31.67	31.50	31.63	31.26	31.28
20	32.30	32.47	32.20	32.52	32.60	32.33	31.92	31.68	31.48	31.65	31.33	31.28
25	32.32	32.58	32.23	32.56	32.33	32.35	31.92	31.66	31.54	31.41	31.36	31.34
EOM	32.40	32.51	32.32	32.63	32.34	32.08	31.81	31.48	31.54	31.34	31.29	31.37

WTR YR 1988 HIGH 31.20 SEP 13 LOW 32.72 FEB 17



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 Vertical Datum 1929, from topographic maps. Measuring point: File mark on 6" casing inside of shelter, which is 3.20 ft above the general land surface.

REMARKS.--Record lost between March 17 through May 5, because recorder stopped.

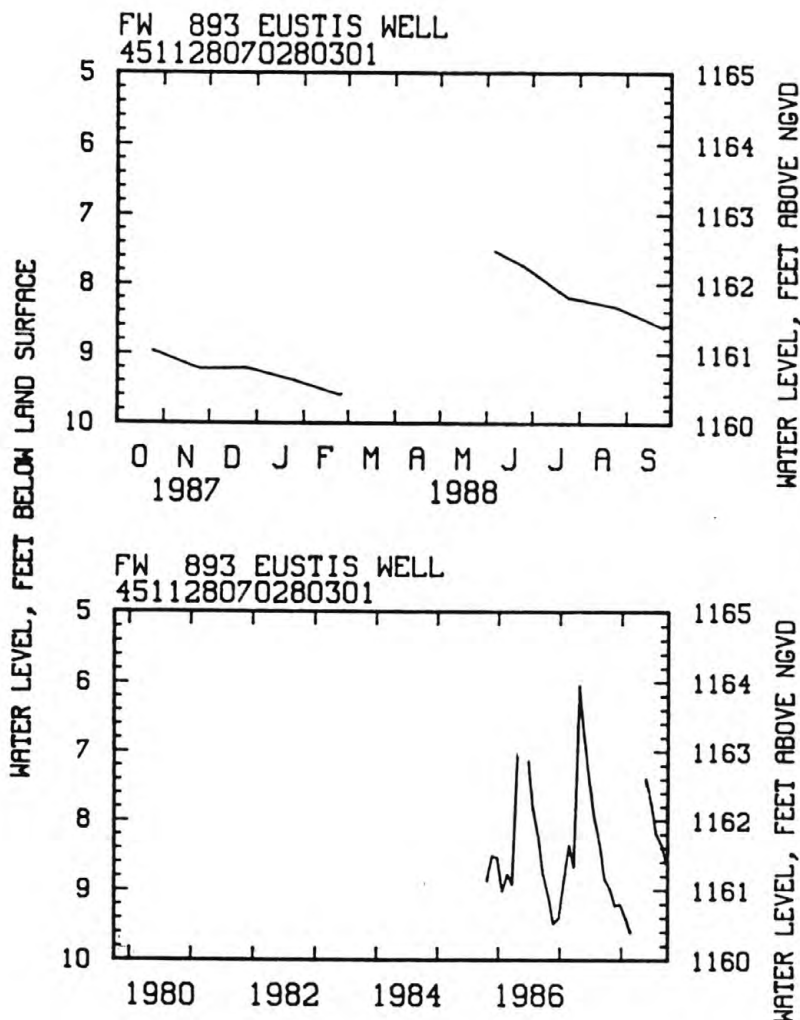
PERIOD OF RECORD.--August 1985 to current year. Records prior to October 1985 have not been published, but are available in the files of the Geological Survey.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.95	9.06	9.31	9.30	9.48	9.69	---	---	7.43	7.89	8.38	8.40
10	8.94	9.11	9.27	9.34	9.53	9.73	---	7.46	7.53	7.98	8.47	8.43
15	8.94	9.16	9.24	9.34	9.56	9.77	---	7.40	7.61	8.04	8.50	8.51
20	8.94	9.19	9.22	9.36	9.59	---	---	7.40	7.69	8.09	8.35	8.60
25	8.99	9.24	9.22	9.40	9.62	---	---	7.39	7.75	8.21	8.35	8.64
EOM	9.04	9.31	9.28	9.45	9.64	---	---	7.39	7.83	8.31	8.38	8.72

WTR YR 1988 HIGH 7.39 MAY 16 AND OTHERS LOW 9.78 MAR 16



FRANKLIN COUNTY--Continued

443831070002601. Local Number, F 901

LOCATION.--Lat 44°38'31", long 70°00'26", Hydrologic Unit 0103003, about 0.5 mile northeast of New Sharon. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., September 1987. Measured depth 37 feet, screened depth 25-35 feet, screen slot size .006-in.

INSTRUMENTATION.--Measurements with chalked tape by local observer.

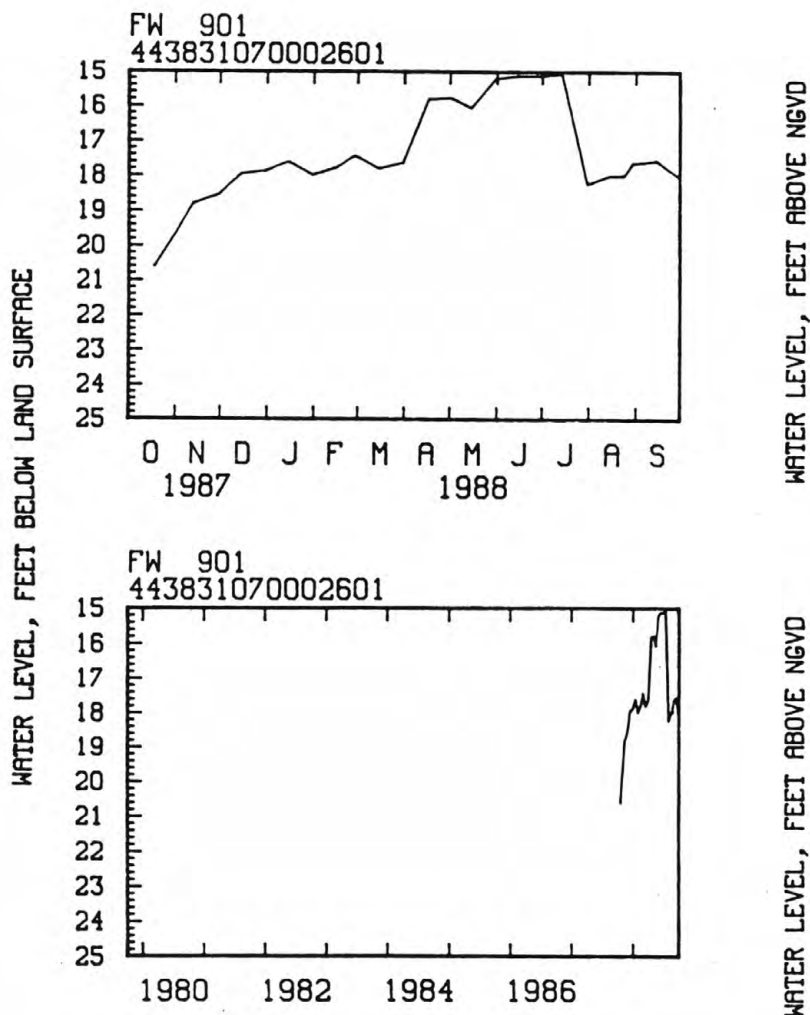
DATUM.--Elevation of land-surface datum is 307 ft above National Geodetic Vertical Datum of 1929 from topographic map. Measuring point: Top of casing, 3.13 ft above land surface datum.

PERIOD OF RECORD.--October, 1987 to current year,

EXTREMES FOR PERIOD OF RECORD.--Highest water level 15.07 ft below land-surface datum Jul. 14, 1988; lowest measured 20.64 ft below land-surface datum, Oct. 18, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	20.64	DEC 15	17.97	FEB 16	17.78	APR 17	15.82	JUN 15	15.13	AUG 15	18.02
31	19.75	31	17.88	28	17.45	MAY 01	15.78	30	15.13	24	18.02
NOV 13	18.80	JAN 15	17.62	MAR 15	17.82	15	16.08	JUL 14	15.07	30	17.66
30	18.55	31	18.01	31	17.65	31	15.22	31	18.26	SEP 14	17.58
										29	18.04



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 Vertical 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 October 1 through October 15 and November 21 through January 5 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.

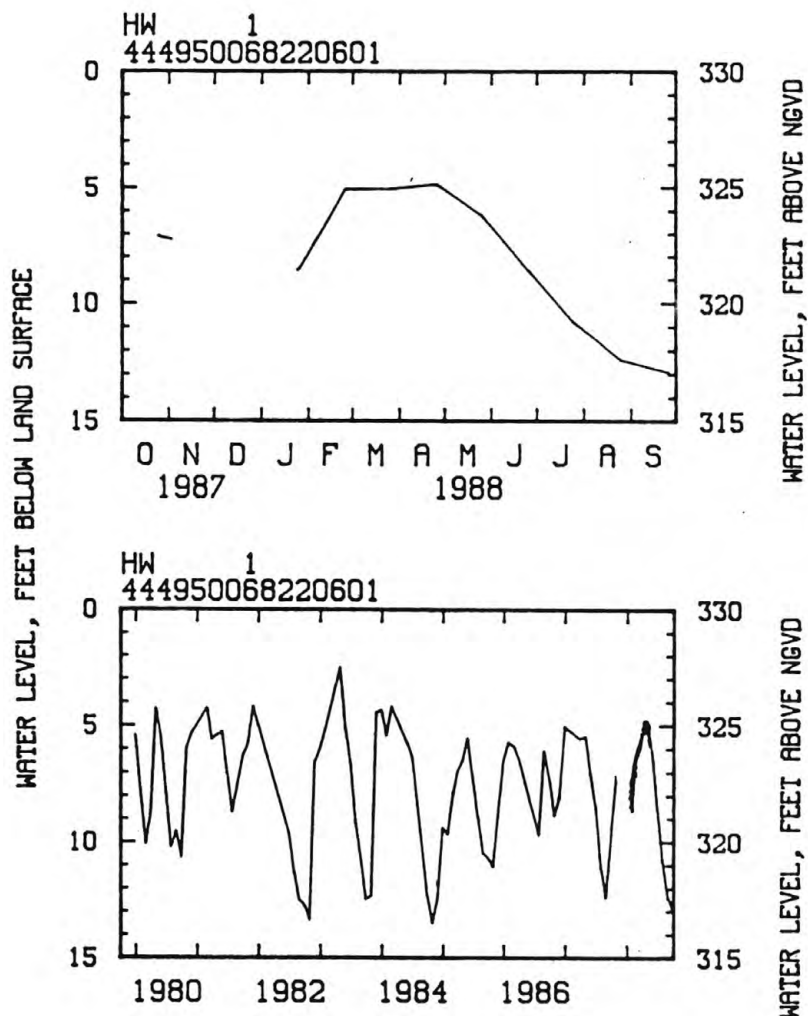
REVISED RECORDS.--WRD ME-82-1: 1981, WRD ME-84-1: 1980, 1981.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	6.70	---	---	6.75	5.16	4.29	4.98	6.43	9.52	11.23	12.20
10	---	7.18	---	8.12	7.00	5.10	4.59	5.36	7.01	9.90	11.54	12.02
15	---	7.45	---	8.53	6.97	5.16	4.88	5.51	7.51	10.38	11.84	12.32
20	6.86	7.14	---	8.46	6.25	5.07	4.77	5.85	8.05	10.78	12.10	12.66
25	7.11	---	---	8.61	5.07	5.05	4.85	6.16	8.60	10.81	12.40	12.92
EOM	6.69	---	---	---	4.96	3.76	4.83	6.02	9.06	10.93	12.36	13.20

WTR YR 1988 HIGH 3.00 MAR 27 LOW 13.20 SEP 30



HANCOCK--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.

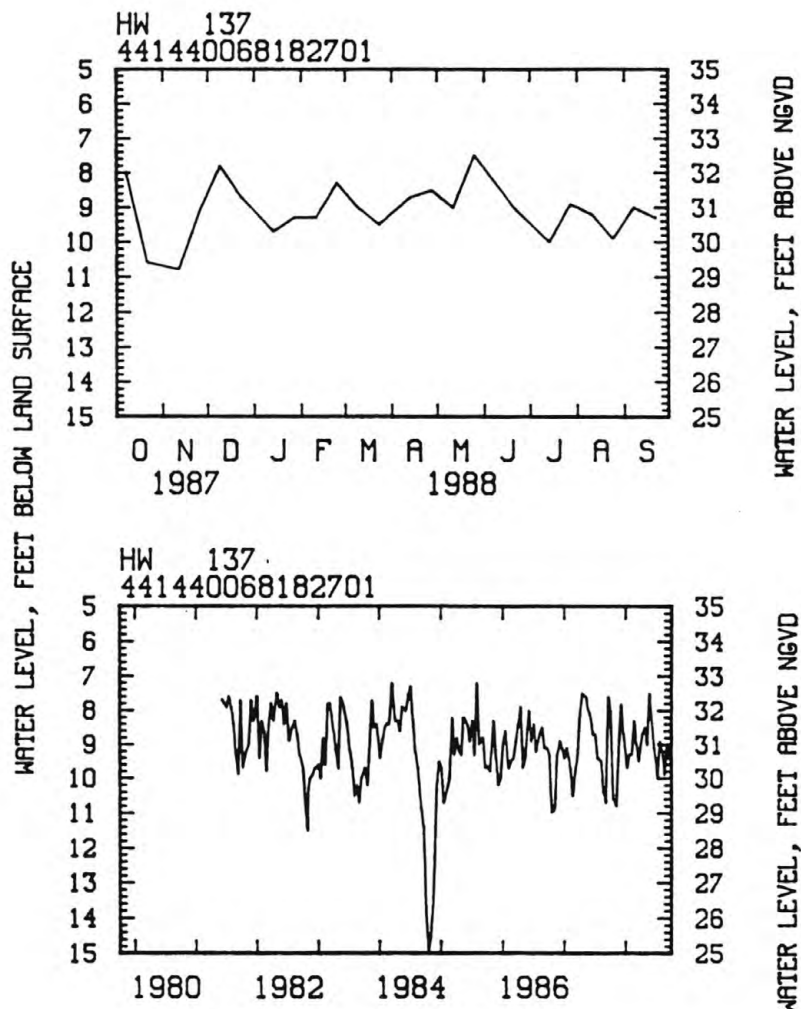
DATUM.--Elevation of land-surface datum is 40 ft above National Geodetic Vertical Datum 1929, from topographic maps. Measuring point: Top of casing 1.3 ft above land-surface datum.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08	8.0	DEC 10	7.81	FEB 11	9.3	APR 14	8.7	JUN 23	9.1	AUG 11	9.2
22	10.6	24	8.7	25	8.3	28	8.5	JUL 14	10.0	25	9.9
NOV 12	10.8	JAN 14	9.7	MAR 10	9.0	MAY 12	9.0	28	8.9	SEP 08	9.0
27	9.0	28	9.3	24	9.5	26	7.5			22	9.3



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 Vertical Datum 1929, from topographic maps. Measuring point: Top of shelter house floor 0.07 ft below land-surface datum.

REMARKS.--Record lost between January 21 through March 27 and July 29 through August 30, because recorder stopped.

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

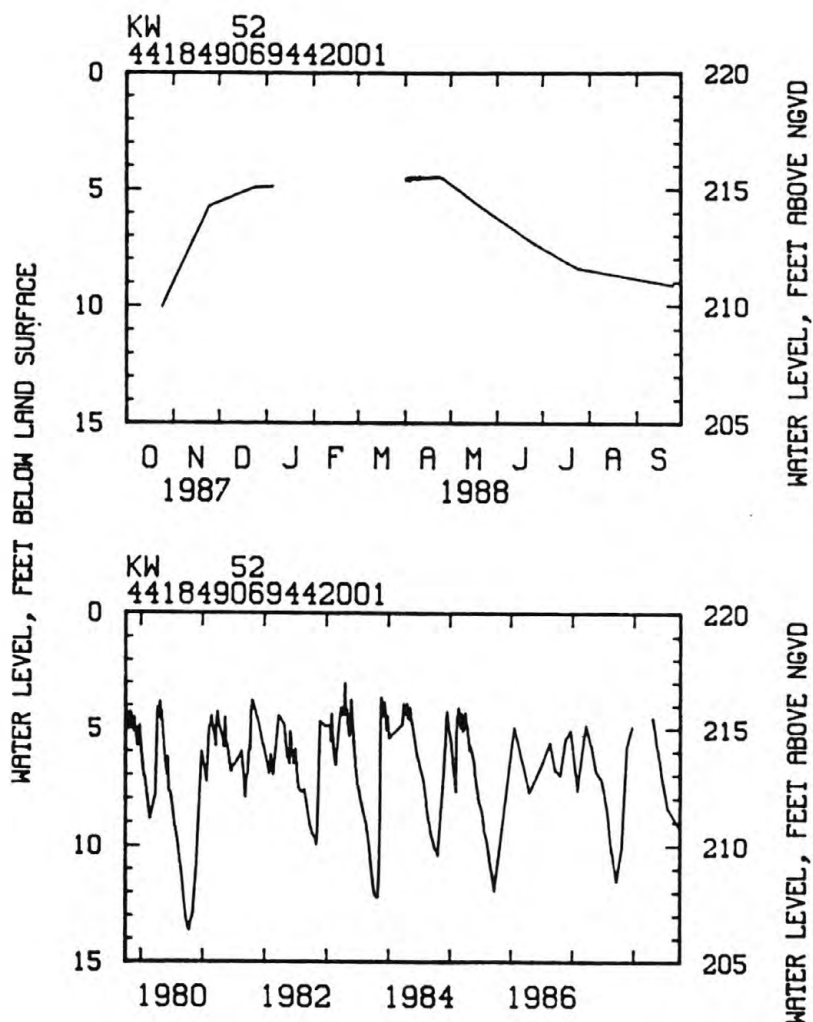
REVISED RECORDS.--WDR ME-82-1: 1978, 1979, 1981.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.35	7.40	4.28	5.29	---	---	4.25	4.58	6.22	7.53	---	9.30
10	10.99	6.65	4.58	5.64	---	---	4.36	5.10	6.55	7.73	---	9.09
15	10.66	6.20	4.53	5.95	---	---	4.60	5.36	6.92	7.95	---	9.01
20	10.32	5.94	4.78	6.15	---	---	4.07	5.69	7.16	8.21	---	9.06
25	10.07	5.73	4.92	---	---	---	4.48	5.90	7.32	8.43	---	9.15
EOM	8.58	5.09	4.86	---	---	4.27	4.21	5.91	7.40	---	9.40	9.31

WTR YR 1988 HIGH 3.50 DEC 1 LOW 11.42 OCT 1



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 Vertical 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.

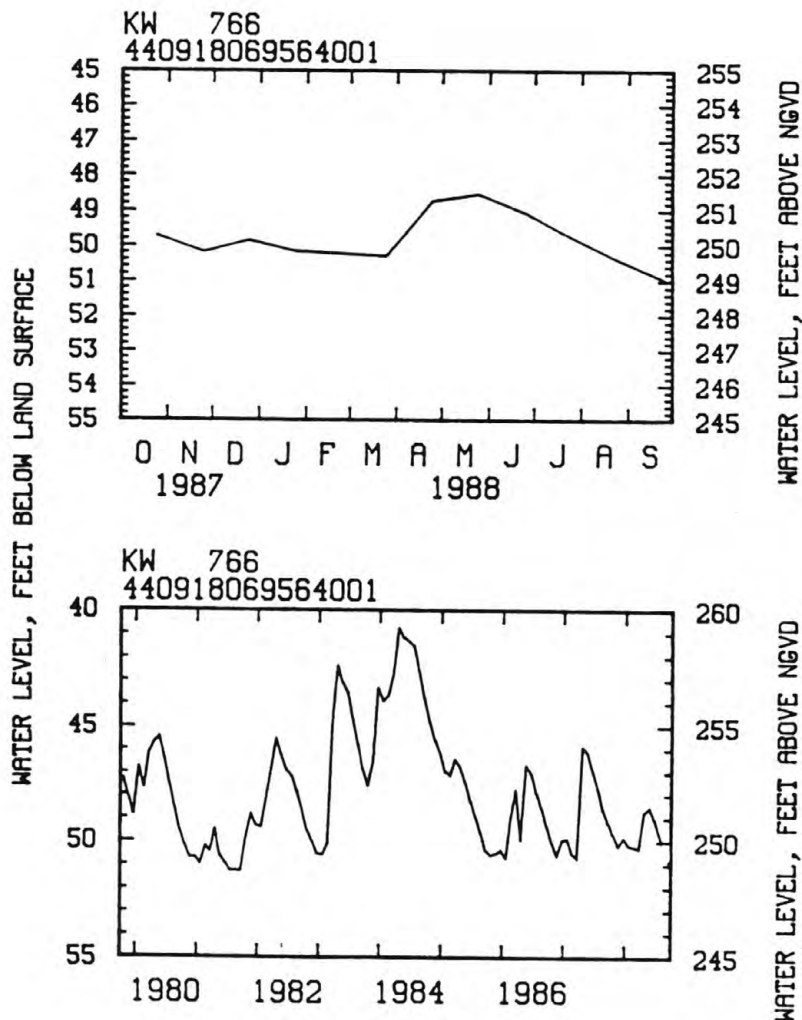
REVISIONS.--Water levels, October 1979 to September 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.38	49.84	49.86	49.92	50.30	50.31	49.35	48.38	48.62	49.33	49.94	50.53
10	49.42	49.94	49.86	49.97	50.38	50.37	49.03	48.38	48.75	49.44	50.07	50.62
15	49.57	50.01	49.86	50.02	50.40	50.39	49.00	48.44	48.88	49.58	50.18	50.78
20	49.64	50.11	49.84	50.11	50.42	50.38	48.81	48.50	48.92	49.71	50.30	50.86
25	49.74	50.21	49.86	50.19	50.26	50.33	48.74	48.54	49.06	49.75	50.41	50.98
EOM	49.78	50.25	49.87	50.24	50.26	49.42	48.55	48.55	49.18	49.82	50.47	51.09

WTR YR 1988 HIGH 48.36 MAY 6-7 LOW 61.56 MAR 14



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 Vertical 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 September 1 through 25 because recorder stopped.

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

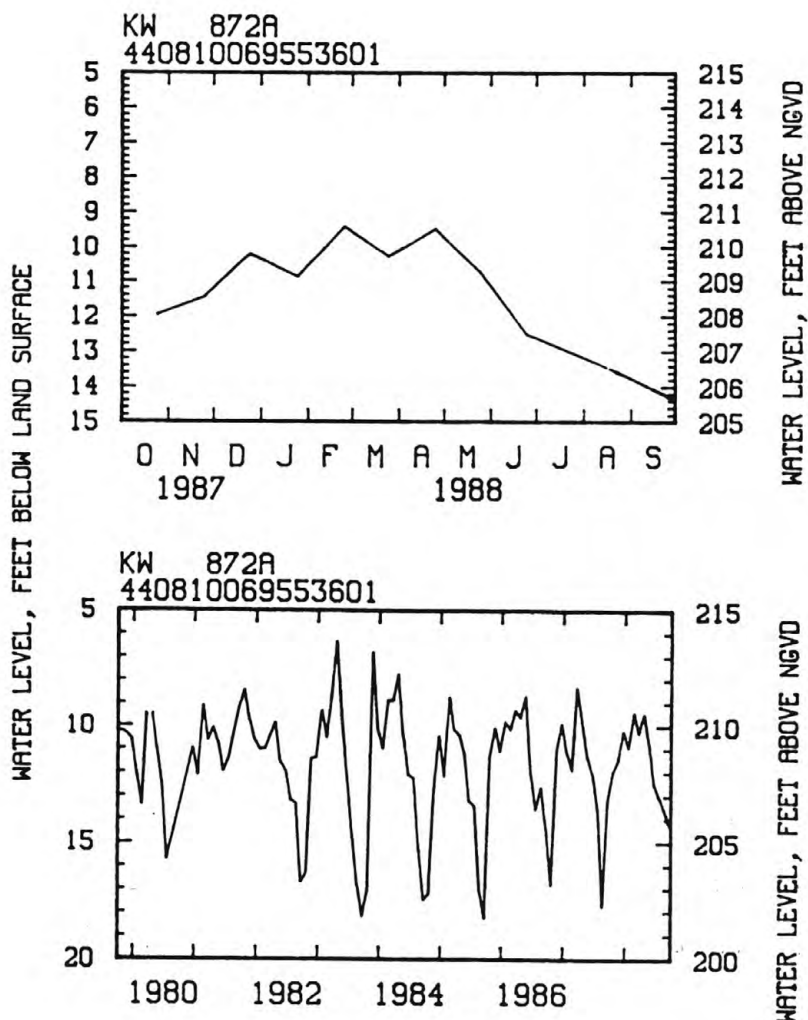
REVISED RECORDS.--WDR ME-82-1: 1980, WRD ME-84-1: 1980, 1981.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.77	10.79	9.07	10.64	10.13	10.39	9.10	9.78	11.16	13.21	12.45	---
10	11.76	11.19	9.89	11.01	10.62	10.14	9.39	10.52	11.75	13.58	13.03	---
15	11.97	11.45	10.04	11.24	10.91	10.31	9.90	10.53	12.39	13.89	13.50	---
20	12.28	11.43	10.35	10.96	9.92	9.87	9.11	10.83	11.78	15.69	13.44	---
25	11.97	11.47	10.22	10.90	9.42	10.29	9.48	10.75	12.54	13.06	13.62	---
EOM	10.57	10.41	10.32	11.14	9.99	8.71	8.95	10.49	12.84	11.79	11.65	14.28

WTR YR 1988 HIGH 7.06 DEC 1 LOW 16.38 JUL 21



KENNEBEC COUNTY--Continued

441533069452401. Local number, K 881

LOCATION.--Lat 44°15'33", long 69°45'24", Hydrologic Unit 01030003, about 0.5 mile east of State Route 9 (Hospital Street) on unimproved road, in Augusta. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., September 1987. Measured depth 20 feet, screened depth 10-20 feet, screen slot size .006-in.

INSTRUMENTATION.--Measurements with chalked tape by USGS personnel.

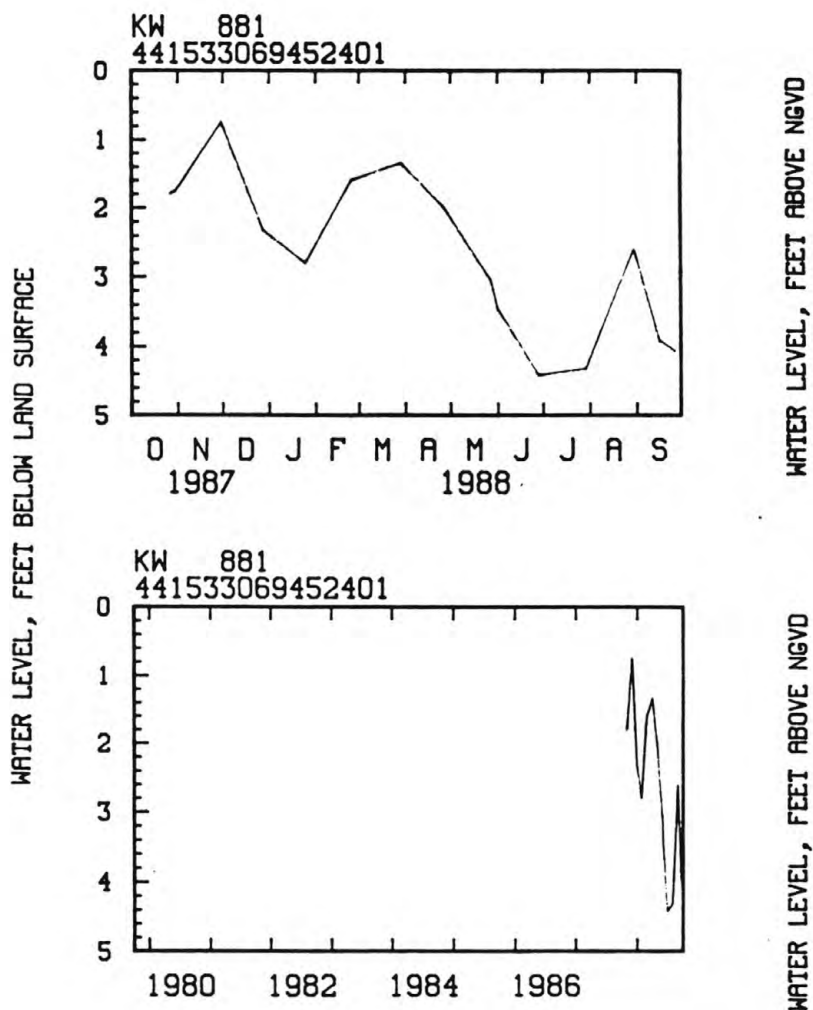
DATUM.--Elevation of land-surface datum is 210 ft above National Geodetic Vertical Datum of 1929 from topographic map. Measuring point: Top of casing, 3.80 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 0.74 ft below land-surface datum Jan. 30, 1988; lowest measured 4.42 ft below land-surface datum Jun. 28, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	1.79	DEC 28	2.33	FEB 25	1.59	APR 26	1.98	JUN 01	3.47	AUG 30	2.60
30	1.76	JAN 25	2.80	MAR 29	1.34	MAY 27	3.04	28	4.42	SEP 16	3.93
NOV 30	0.74							JUL 29	4.32	26	4.07



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 Vertical Datum 1929, from topographic maps. Measuring point: Top of concrete pipe 1.8 ft above land-surface datum.

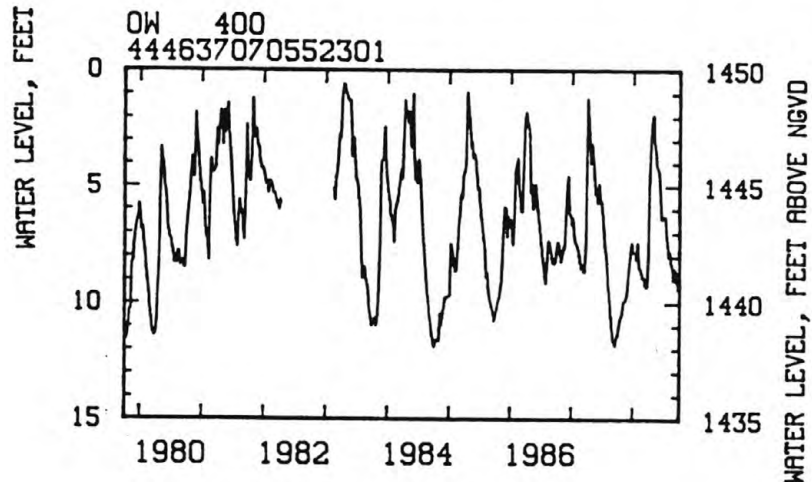
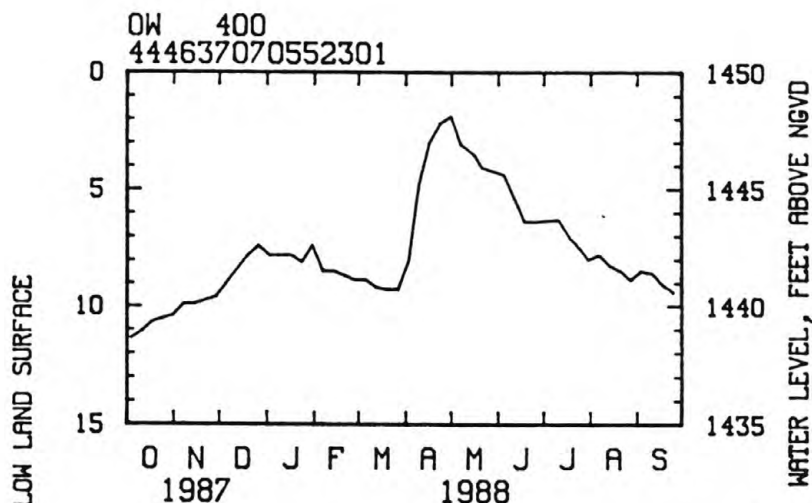
REMARKS.--Prior to 1973 well was used for domestic supply.

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 1987 TO SEPTEMBER 1988

DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 04	11.4	DEC 20	7.8	FEB 07	8.5	APR 03	8.1	JUN 05	4.4	AUG 07	7.8
11	11.1	27	7.4	14	8.5	10	4.8	12	5.4	15	8.3
18	10.7	JAN 03	7.8	21	8.7	17	3.0	19	6.4	21	8.5
25	10.55	10	7.8	28	8.9	24	2.2	26	6.4	28	8.9
NOV 01	10.4	17	7.8	MAR 06	8.9	MAY 01	1.9	JUL 11	6.3	SEP 04	8.5
08	9.9	24	8.1	13	9.2	08	3.1	19	7.1	11	8.6
15	9.9	31	7.4	20	9.3	16	3.5	25	7.5	18	9.1
29	9.6			27	9.3	22	4.1	31	8.0	25	9.4



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.

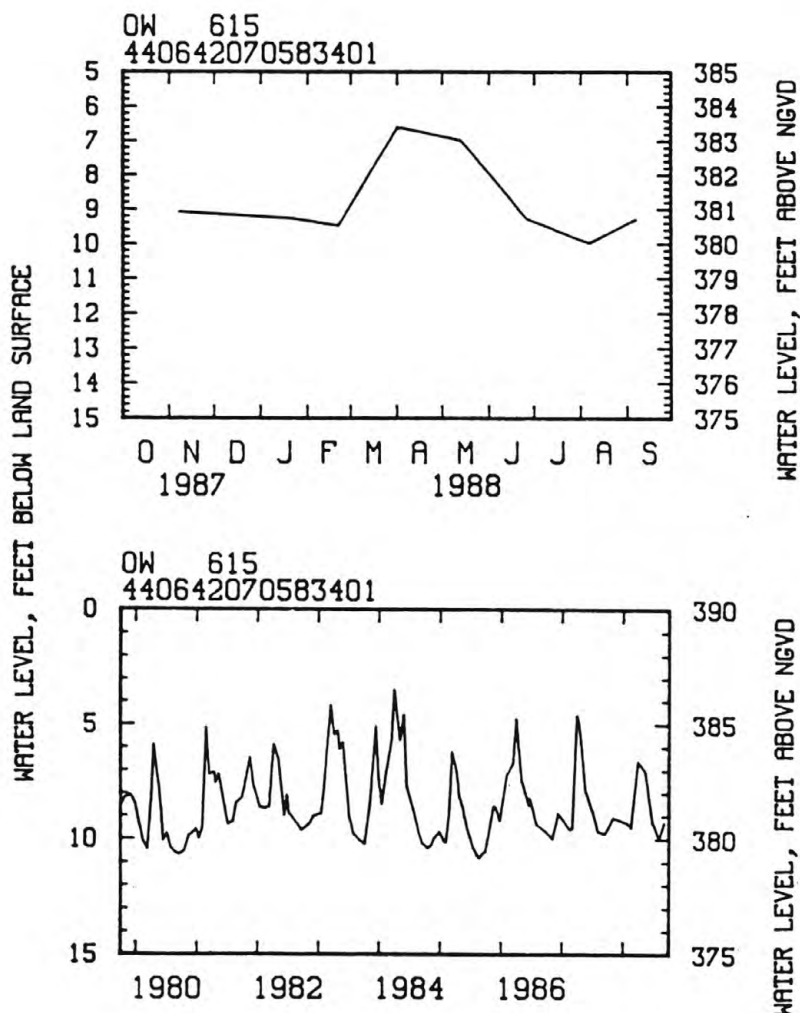
DATUM.--Elevation of land-surface datum is 390 ft above National Geodetic Vertical Datum 1929, from topographic maps. Measuring point: Top of casing at land-surface datum, which is 2.9 ft above the general land surface.

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 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 08	9.10	FEB 22	9.50	APR 02	6.60	MAY 14	7.00	AUG 07	10.00	SEP 07	9.30
JAN 24	9.30					JUN 27	9.30				



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 Vertical 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.

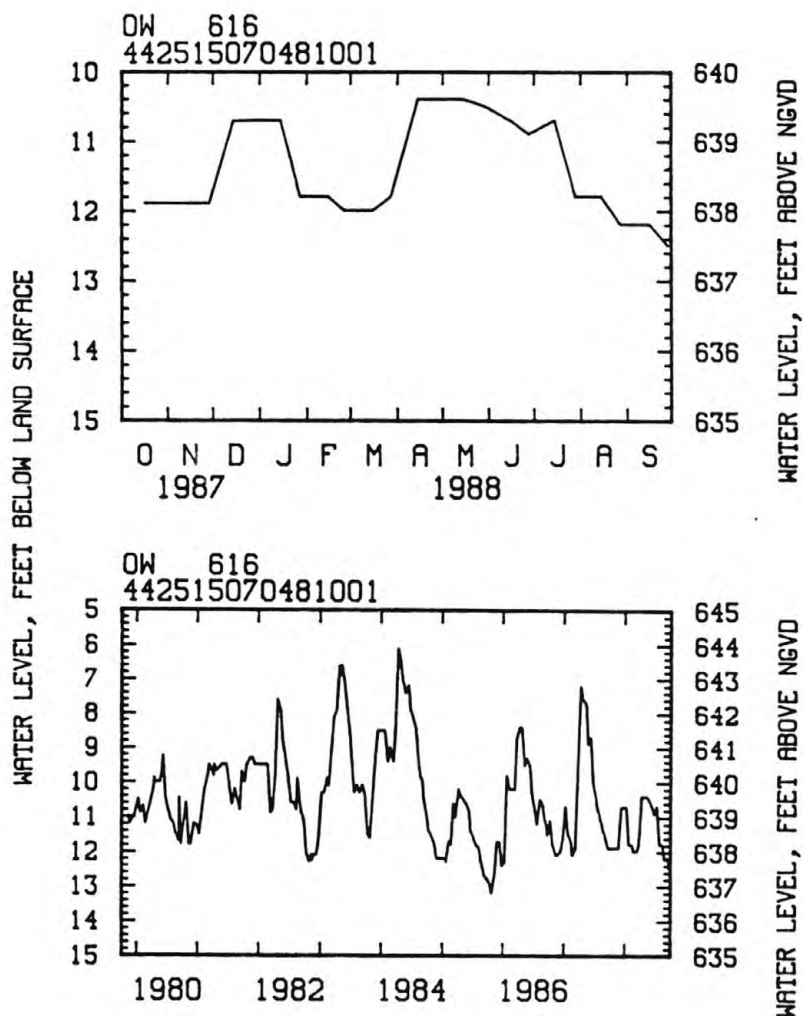
PERIOD OF RECORD.--August 1978 to current year.

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 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	11.9	DEC 15	10.71	FEB 15	11.8	APR 15	10.4	JUN 15	10.7	AUG 15	11.8
28	11.9	28	10.70	26	12.0	28	10.4	28	10.9	30	12.2
NOV 15	11.9	JAN 15	10.70	MAR 16	12.0	MAY 15	10.4	JUL 15	10.7	SEP 16	12.2
29	11.9	28	11.80	28	11.8	29	10.5	29	11.8	28	12.5



OXFORD COUNTY--Continued

440823070291501. Local number, O 1214.

LOCATION.--Lat 44°08'23", long 70°29'15", Hydrologic Unit 01040002, on State Highway 121, about 0.1 mi east of the intersection with Skeetfield Road, in Oxford. Owner: U.S. Geological Survey.

AQUIFER.--Stratified sand (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., September 1980 constructed depth 39 ft, cased with 6 in. steel to 35 ft, screened 35 to 39 ft. November 1982 measured depth 38 ft.

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

DATUM.--Elevation of land surface datum is 334.04 ft above National Geodetic Vertical 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.

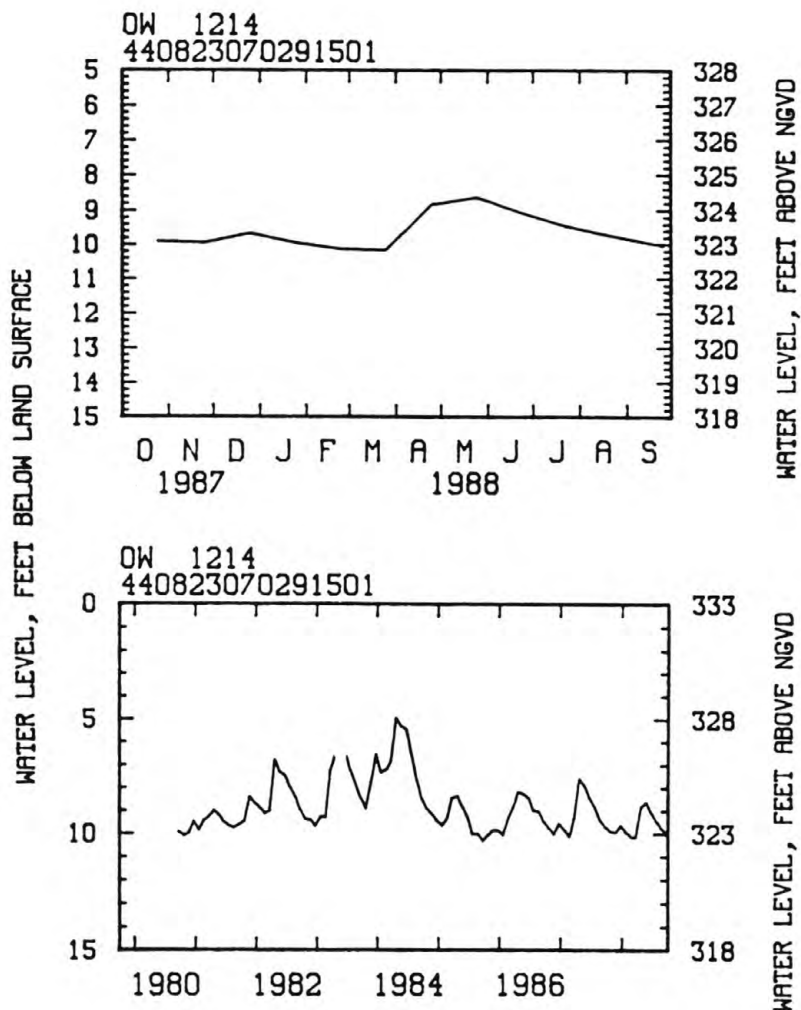
REVISED RECORDS.--WDR ME-82-1: 1981.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.81	9.78	9.71	9.77	10.06	10.23	9.61	8.44	8.75	9.30	9.62	9.88
10	9.80	9.79	9.63	9.81	10.11	10.29	9.11	8.43	8.81	9.37	9.66	9.92
15	9.82	9.82	9.61	9.90	10.17	10.29	9.02	8.48	8.94	9.47	9.74	9.97
20	9.89	9.92	9.63	9.95	10.20	10.24	8.94	8.58	9.02	9.53	9.78	10.02
25	9.94	9.98	9.68	9.98	10.17	10.20	8.84	8.64	9.11	9.50	9.81	10.07
EOM	9.87	10.01	9.72	10.02	---	9.73	8.73	8.70	9.21	9.58	9.83	10.16

WTR YR 1988 HIGH 8.43 MAY 7-11 LOW 10.21 MAR 16-18



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 Vertical Datum 1929, from topographic maps. Measuring point: Floor of fiberglass shelter 0.36 ft above land-surface datum, which is 4.3 ft above the general land surface.

REMARKS.--Record lost from October 1 to December 3, doubtful gage-height record.

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

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

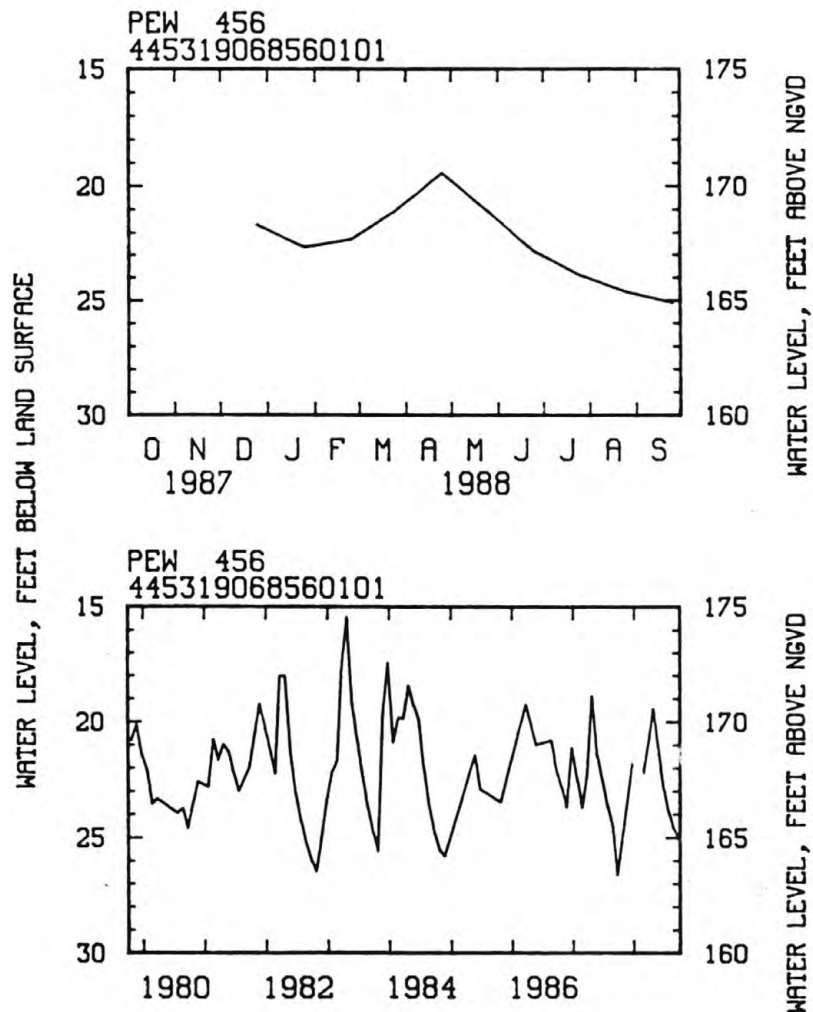
REVISIONS.--Water levels, September 1979 to October 1981, were incorrectly reported from land surface. They should be referenced from land-surface datum.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	22.12	22.01	22.70	22.16	19.00	19.72	21.78	23.21	24.26	24.80
10	---	---	21.86	22.25	22.80	22.08	18.67	20.07	22.14	23.37	24.42	24.83
15	---	---	21.69	22.44	22.89	21.83	19.11	20.41	22.42	23.59	24.54	24.91
20	---	---	21.65	22.55	22.79	21.49	19.19	20.79	22.59	23.77	24.53	25.05
25	---	---	21.69	22.68	22.30	21.07	19.47	21.08	22.88	23.92	24.67	25.14
EOM	---	---	21.87	22.87	22.18	19.15	19.67	21.45	23.08	24.07	24.80	25.32

WTR YR 1988 HIGH 18.65 APR 9 LOW 25.32 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 Vertical 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.

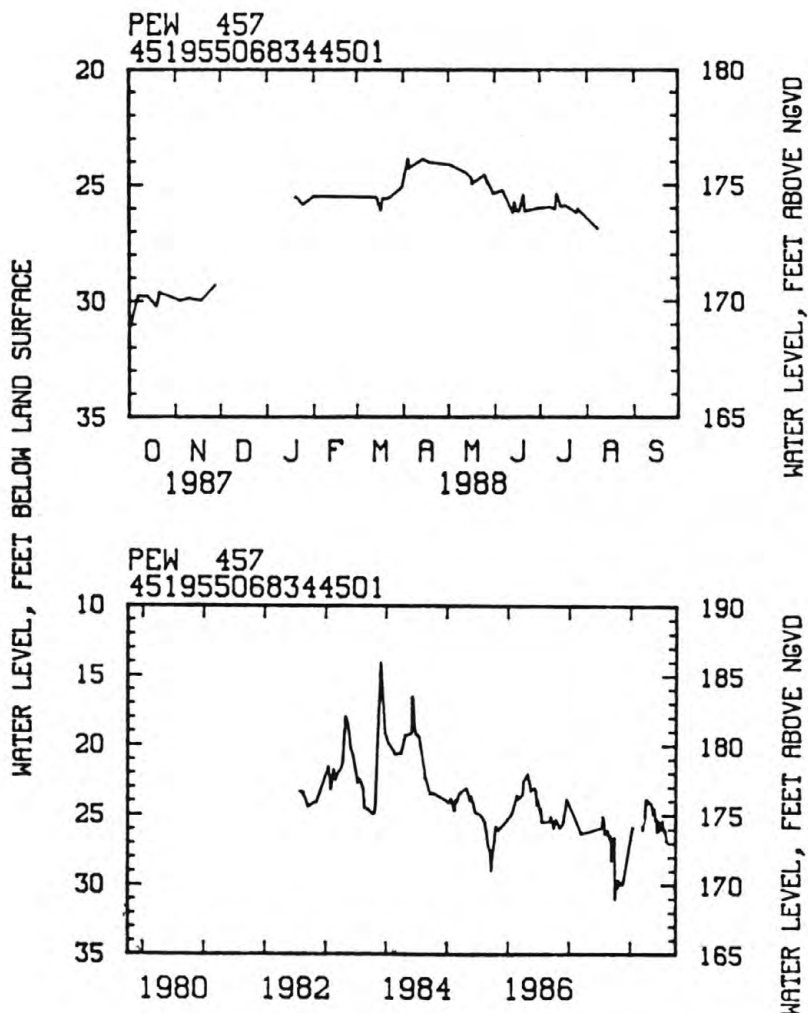
PERIOD OF RECORD.--July 1982 to current year.

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 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	27.50	NOV 04	26.40	JAN 20	25.50	APR 04	23.90	JUN 06	25.25	JUL 08	25.95P
06	26.40	10	26.30	25	25.85	05	24.30	13	26.20	11	26.05P
07	26.20	18	26.40	FEB 01	25.50	14	23.90	14	25.75P	12	25.40
13	26.25	MAR 14	25.55	19	24.05	15	26.10P	15	25.95P	AUG 08	26.90P
19	26.65	17	26.10	MAY 02	24.15	17	26.15P	18	25.90P		
21	26.05	18	25.60	12	24.45	20	25.45	25	26.20P		
		22	25.60	16	24.70	21	26.15P	26	26.05P		
		31	25.10	17	24.95	30	26.00P				
				25	24.95						
				27	24.90						
				31	25.40						

P=well pumping



PISCATAQUIS COUNTY

452829069322101. Local number, PI 2.

LOCATION.--Lat 45°28'29", long 69°32'21", Hydrologic Unit 01030001, approximately 1.0 mile north of Greenville Junction. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., September 1987. Measured depth 31 feet, screened depth 14-24 feet, screen slot size .006-in.

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

DATUM.--Elevation of land surface datum is 1,087.0 ft. above National Geodetic Vertical Datum 1929, from topographic map. Measuring point is top of casing 3.24 ft. above land surface datum.

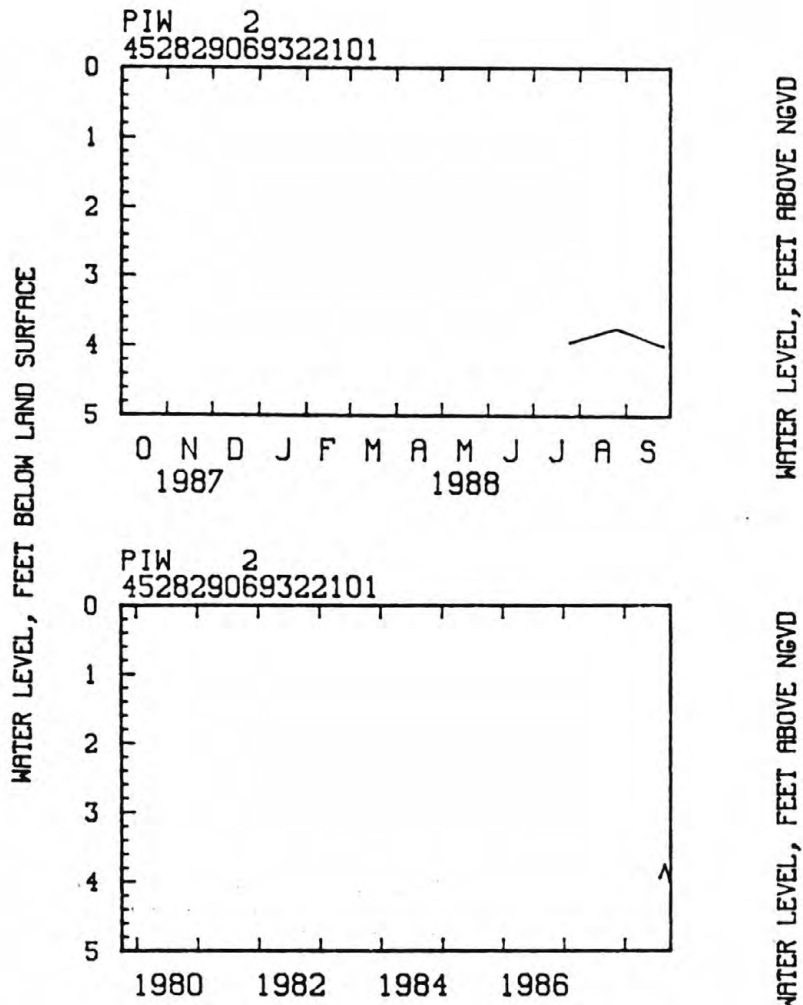
PERIOD OF RECORD.--July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 3.33 ft below land-surface datum August 15-17, 1988; lowest measured 4.13 ft below land-surface datum August 06, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5										---	4.10	3.74
10										---	4.03	3.83
15										4.11	3.50	3.94
20										4.03	3.65	3.99
25										3.95	3.75	4.00
EOM										3.87	3.51	4.06

WTR YR 1988 HIGH 3.33 AUG 16-17 LOW 4.11 JUL 15 AND OTHERS



GROUND-WATER LEVELS

SOMERSET COUNTY

445148069513301. Local number, SM 61

LOCATION.--Lat 44°51'48", long 69°51'33", Hydrologic Unit 01030003, approximately 3.0 miles northeast of Madison.

Owner: U.S. Geological Survey.

AQUIFER.--Glaciomarine deposits of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., September 1984. Measured depth 40 feet, screened depth 35-40 feet, screen slot size .010-in.

INSTRUMENTATION.--Measurements with chalked tape by local observer.

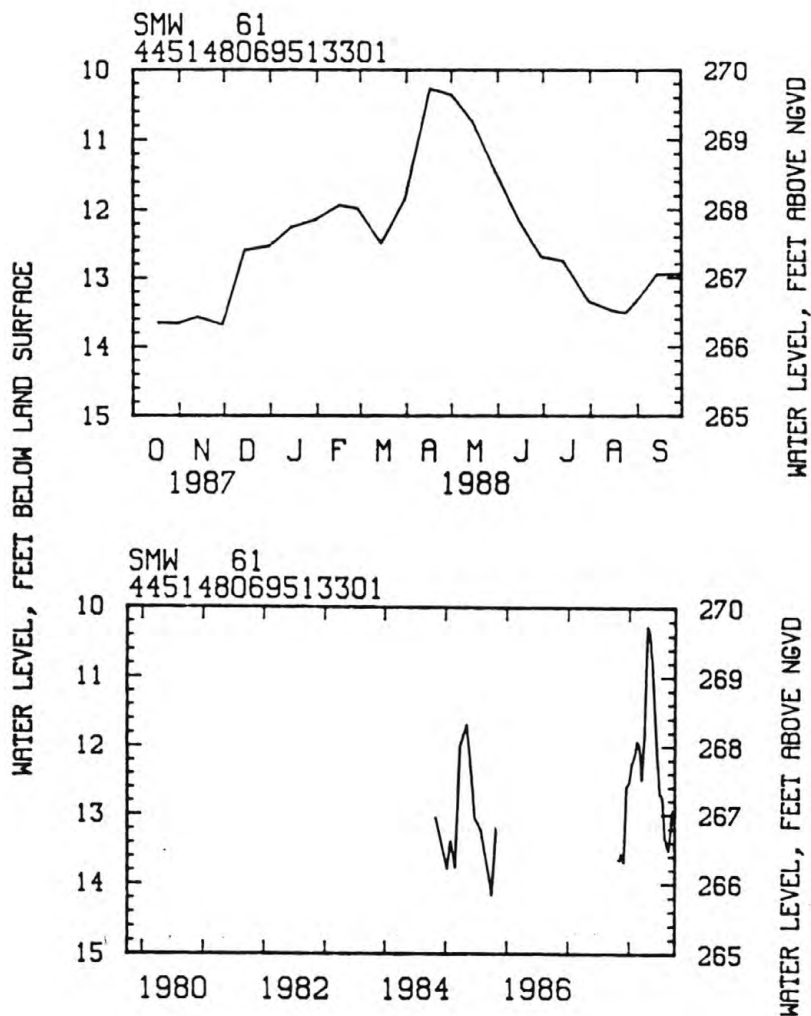
DATUM.--Elevation of land-surface datum is 280 ft above National Geodetic Vertical Datum of 1929 from topographic map. Measuring point: Top of casing, 3.50 ft above land surface datum.

PERIOD OF RECORD.--January 1985 to November 1985 and October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 10.26 ft below land-surface datum Apr. 17, 1988; lowest measured 14.16 ft below land-surface datum Oct. 4, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	13.65	DEC 15	12.58	FEB 16	11.92	APR 17	10.26	JUN 15	12.15	AUG 15	13.47
31	13.66	31	12.52	28	11.97	MAY 01	10.35	30	12.69	24	13.51
NOV 13	13.56	JAN 15	12.24	MAR 15	12.48	15	10.72	JUL 14	12.75	30	13.37
30	13.68	31	12.13	31	11.84	31	11.47	31	13.34	SEP 14	12.94
										29	12.93



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 Vertical Datum 1929, from topographic maps. Measuring point: Top of casing at land-surface datum, which is 0.8 ft above the general land surface.

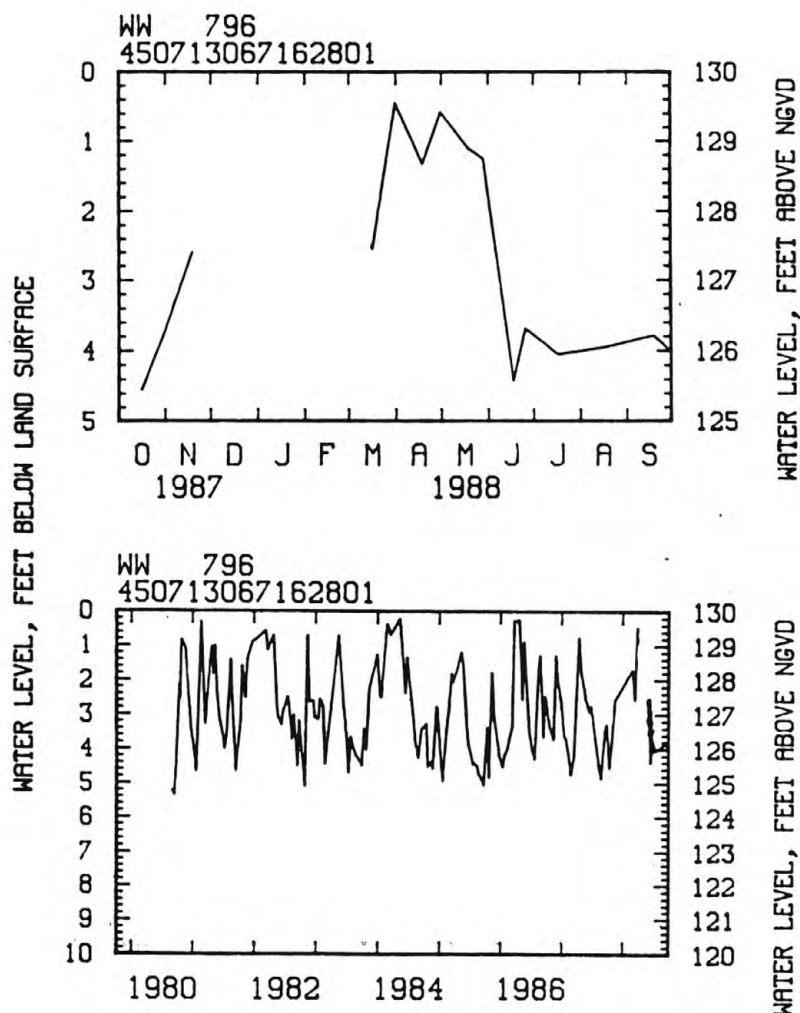
PERIOD OF RECORD.--September 1980 to current year.

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 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	4.54	MAR 02	1.69	MAY 01	0.57	JUN 18	4.41	AUG 18	3.94	SEP 19	3.78
31	3.79	17	2.54	20	1.11	26	3.68			29	3.97
NOV 20	2.55	APR 01	0.44	29	1.24	JUL 18	4.04				
		19	1.32								

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 Vertical 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.

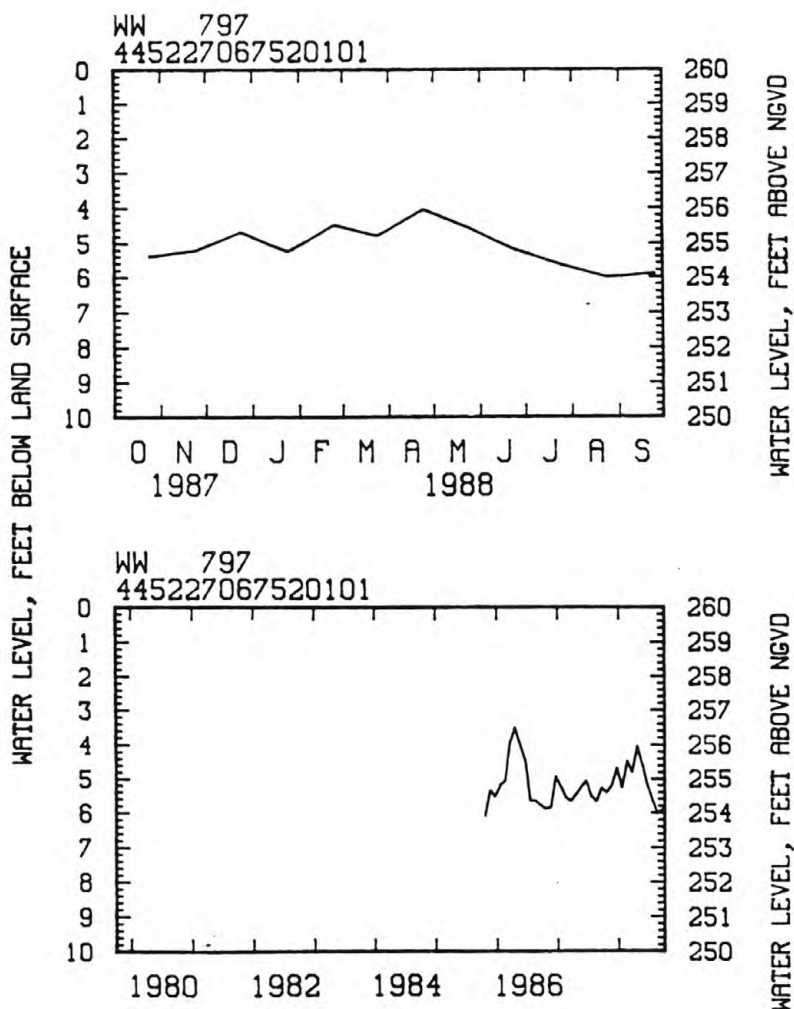
PERIOD OF RECORD.--September 1985 to current year. Records prior to October 1985 have not been published, but are available in the files of the Geological Survey.

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 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.41	5.37	3.95	4.99	5.24	4.64	3.27	3.95	4.62	5.34	5.79	5.83
10	5.28	5.42	4.24	5.05	5.21	4.69	3.55	4.10	4.79	5.43	5.84	5.82
15	5.22	5.50	4.46	5.15	5.17	4.78	3.83	4.29	4.88	5.48	5.88	5.82
20	5.34	5.48	4.63	5.20	4.97	4.83	3.90	4.44	5.03	5.59	5.93	5.88
25	5.44	5.27	4.74	5.25	4.46	4.78	4.03	4.56	5.20	5.65	6.01	5.89
EOM	5.43	5.23	4.88	5.26	4.43	2.85	3.99	4.51	5.26	5.73	5.93	5.95

WTR YR 1988 HIGH 2.49 MAR 28 LOW 5.95 SEP 30



WASHINGTON COUNTY-Continued

443754067384401. Local number, W 901

LOCATION.--Lat 44°37'54", long 67°38'44", Hydrologic Unit 01050002, about 1.0 mile south of Carr Hill. Owner: U.S. Geological Survey.

AQUIFER.--Glaciomarine deposits of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., August 1985. Measured depth feet, screened depth 29.5-34.5 feet, screen slot size .010-in.

INSTRUMENTATION.--Measurements with chalked tape by local observer.

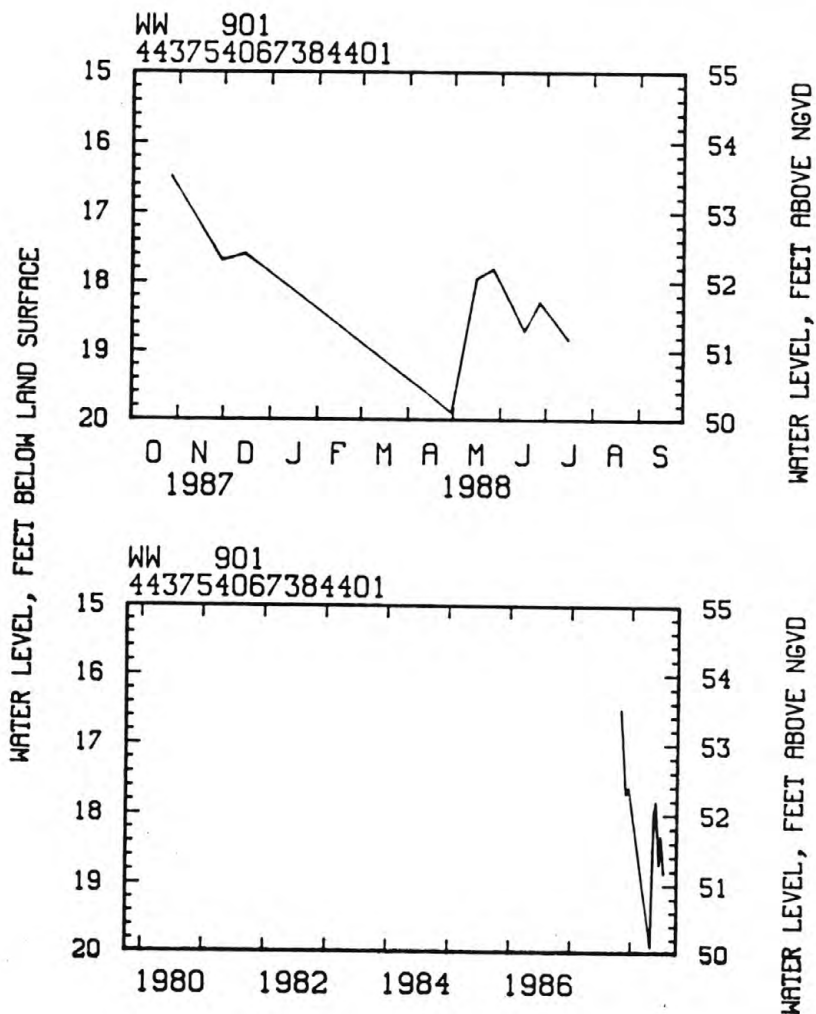
DATUM.--Elevation of land-surface datum is 60 ft above National Geodetic Vertical Datum of 1929 from topographic map. Measuring point: Top of casing, 3.50 ft above land surface datum.

PERIOD OF RECORD.--October 1985 to October 1986 and October 1987 to August 1988.

EXTREME FOR PERIOD OF RECORD.--Highest water level 16.50 ft below land-surface datum Oct. 27, 1987; lowest measured 19.90 ft below land-surface datum Apr. 30, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	16.50	DEC 15	17.60	MAY 16	17.95	JUN 17	18.71	JUL 16	18.83		
NOV 30	17.70	APR 30	19.90	27	17.81	27	18.30				



WASHINGTON COUNTY--Continued

444500068011601. Local number W 921.

LOCATION.--Lat. 44°45'00", long 68°01'16", Hydrologic Unit 01050002, about 0.5 mile west of Deblois. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., September 1987. Measured depth 32 feet, screened 22-32 feet, screen slot size .006-in.

INSTRUMENTATION.--Measurements with chalked tape by local observer.

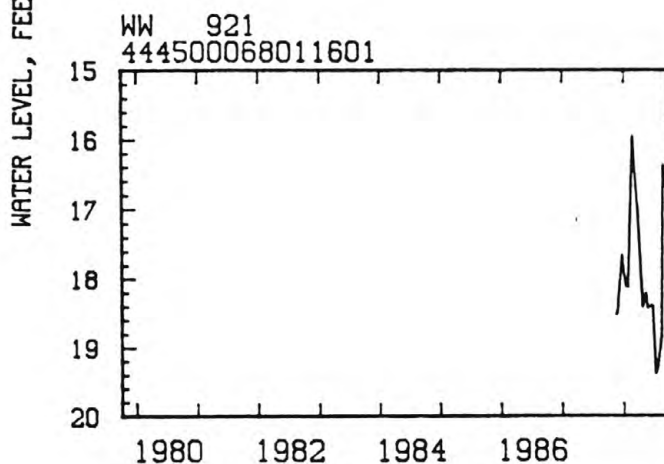
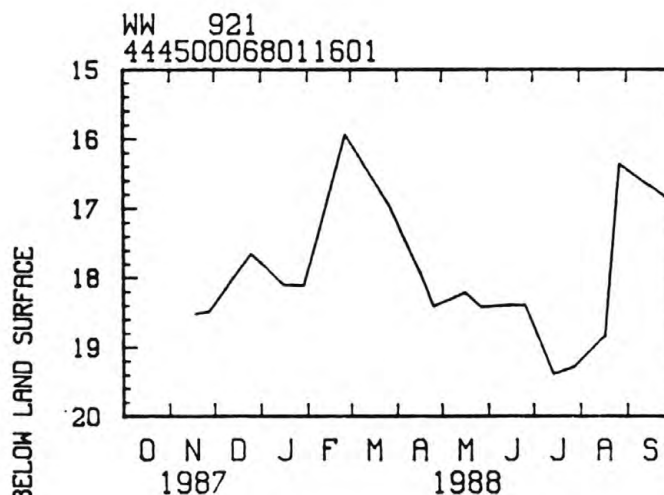
DATUM.--Elevation of land-surface datum is 192 ft above National Geodetic Vertical Datum of 1929 from topographic map. Measuring Point: Top of casing, 3.61 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORDS.--Highest water level 15.94 ft below land-surface datum Feb. 27, 1988; lowest measured 19.39 ft below land-surface datum Jul. 15, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 19	18.53	JAN 17	18.11	MAR 27	16.94	MAY 17	18.22	JUL 15	19.39	SEP 16	16.67
28	18.49	30	18.12	APR 17	17.93	28	18.43	28	19.29	27	16.83
DEC 26	17.65	FEB 27	15.94	26	18.42	JUN 16	18.40	AUG 16	18.88		
						26	18.40	18	18.84		
								28	16.37		



WASHINGTON COUNTY--Continued

444526068013301. Local Number W 922

LOCATION.--Lat 44°45'26", long 68°01'33", Hydrologic Unit 01050002, about 1.0 mile north of Deblois. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., September 1987. Measured depth 42 feet, screened 25 to 40 feet, screen slot size .006.

INSTRUMENTATION.--Measurements with chalked type by local observer.

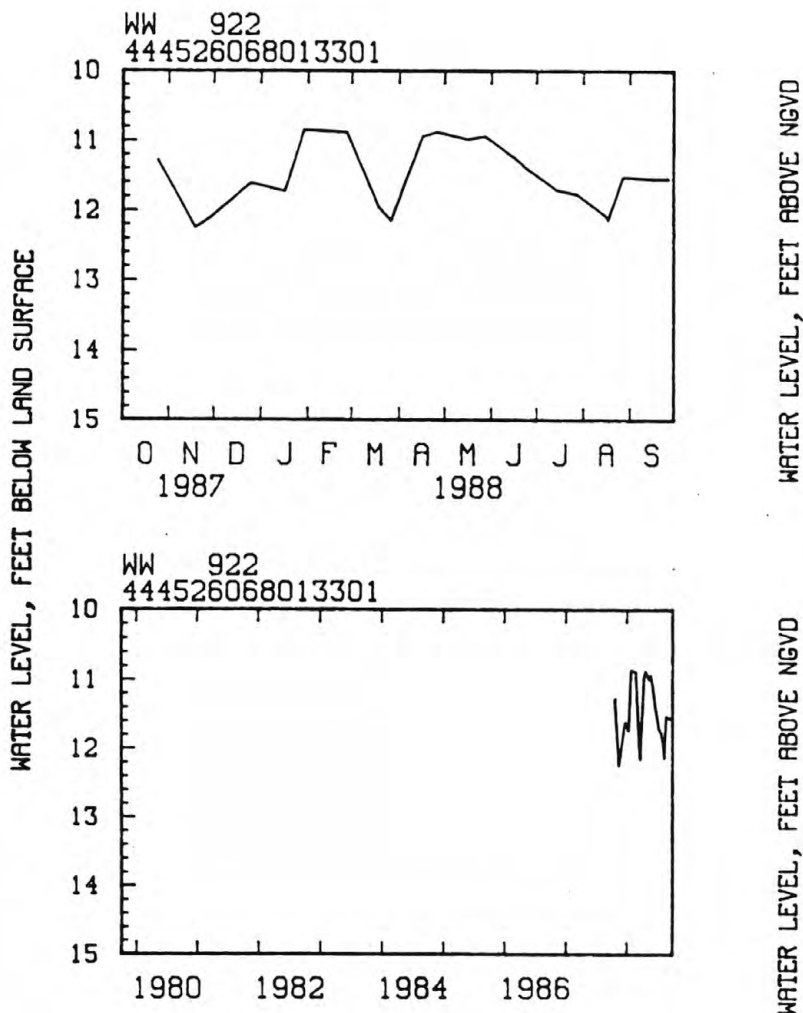
DATUM.--Elevation of land-surface datum is 240 ft above National Geodetic Vertical Datum of 1929 from topographic map. Measuring point: Top of casing, 3.00 ft above land surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 10.85 ft below land-surface datum Jan. 30, 1988; lowest measured 12.26 ft below land-surface datum Nov. 19, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	11.29	DEC 26	11.62	FEB 27	10.89	APR 17	10.94	JUN 16	11.24	AUG 16	12.08
NOV 19	12.26	JAN 17	11.74	MAR 19	11.97	28	10.88	26	11.43	18	12.14
28	12.13	30	10.85	27	12.16	MAY 17	10.99	JUL 15	11.72	28	11.53
						28	10.94	18	11.78	SEP 16	11.56
										27	11.56



YORK COUNTY

432310070393301. Local number, Y 807

LOCATION.--Lat 43°23'10", long 70°39'33", Hydrologic Unit 01060003, about 4.5 miles southeast of South Sanford.

Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., measured depth 39 feet, screened depth 34 to 39 feet, screen slot size .010-in.

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

DATUM.--Elevation of land surface datum is 202.0 ft above National Geodetic Vertical Datum of 1929, from topographic maps. Measuring point: Top of casing 2.9 ft above land-surface datum.

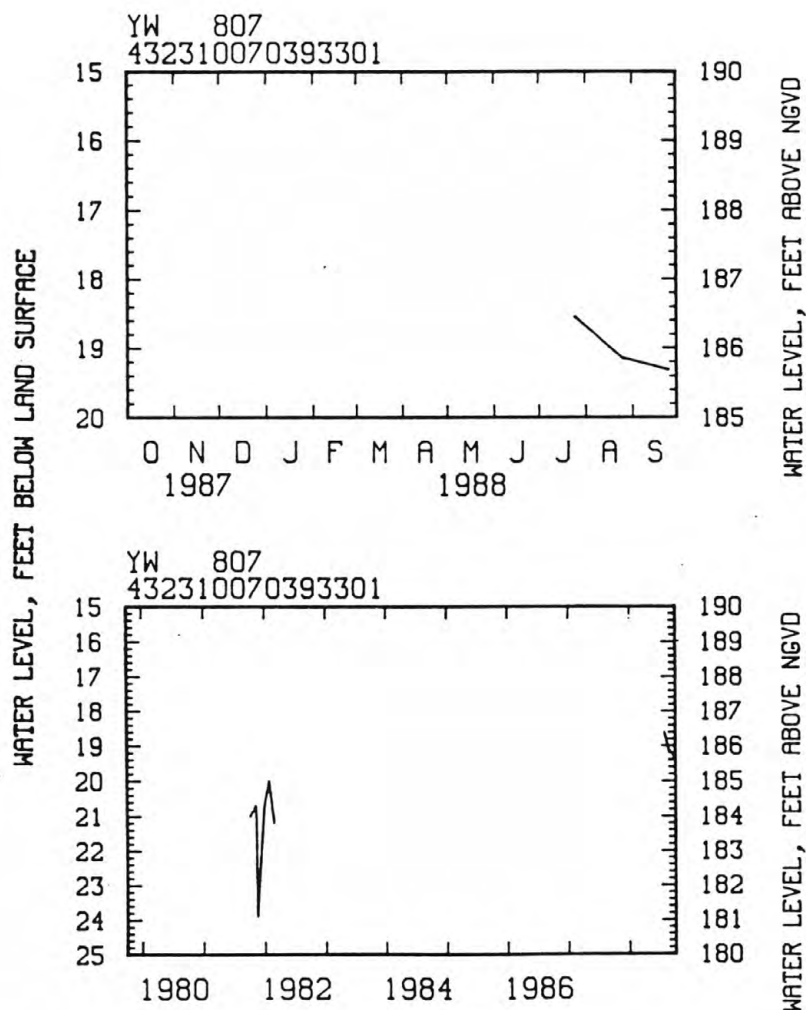
PERIOD OF RECORDS.--July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 18.35 ft below land-surface datum July 14, 1988; lowest measured 19.35 ft below land-surface datum September 27-28, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5										---	18.75	19.31
10										---	18.88	19.28
15										18.37	18.96	19.24
20										18.44	19.05	19.25
25										18.56	19.15	19.32
EOM										18.70	19.28	19.36

WTR YR 1988 HIGH 18.37 JUL 15 LOW 19.36 SEP 30



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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	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons



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