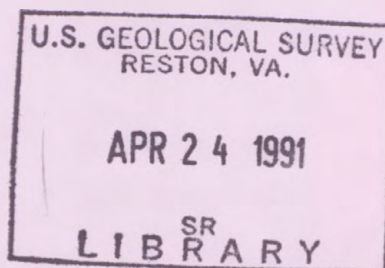


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Water Resources Data Maine

Water Year 1990



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-90-1
Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1990

1989

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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1990

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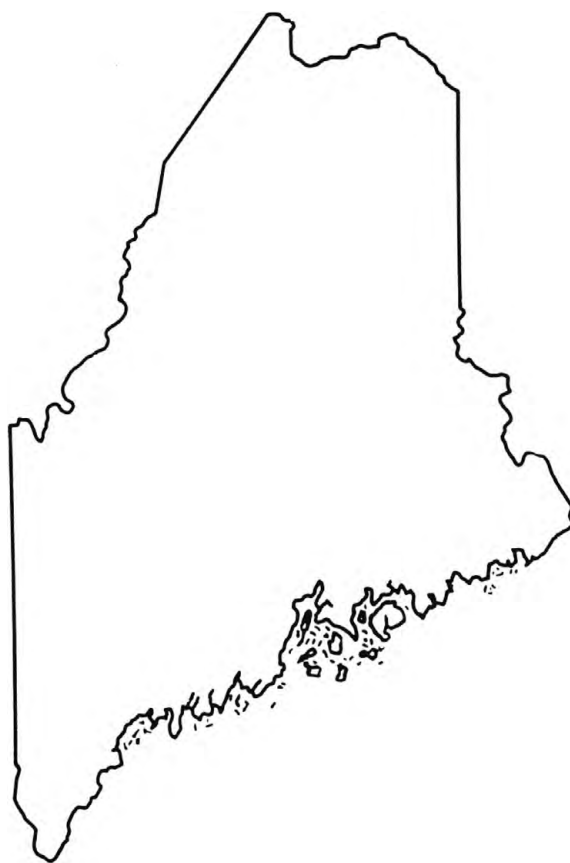
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Water Resources Data Maine

Water Year 1990

by W.P. Bartlett, Jr., W.B. Higgins, and K.S. Brossy



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-90-1
Prepared in cooperation with the State of Maine
and with other agencies

U. S. DEPARTMENT OF THE INTERIOR

MANUEL LUJAN Jr., Secretary

U. S. 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

1991

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

William J. Nichols, Jr.
Joseph P. Nielsen
Scott A. Olson
Joel A. Petersen

Gloria L. Morrill prepared the illustrations for the report.

James B. Campbell and Carolyn O. Szabo, Ithaca, NY, and John A. Coleman, Boston, MA, reviewed portions of the report.

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

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

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WATER RESOURCES DATA - MAINE, 1990

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 52 gaging stations; stage records at 2 lakes; month-end contents at 17 lakes and reservoirs; water quality data at 13 gaging stations and 4 observation wells; and water levels at 39 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-90-1." These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the Office Chief at the address given on the back of the title page or by telephone (207) 622-8201.

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. Conners, 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. D. Bubier, Executive Director
Penobscot Valley Council of Governments,
D. Meagher, Director
University of Maine,
P.D. Uttormark, Assistant Vice President
Northern Maine Regional Planning Commission,
R. Clark, Executive Director

WATER RESOURCES DATA FOR MAINE, 1990

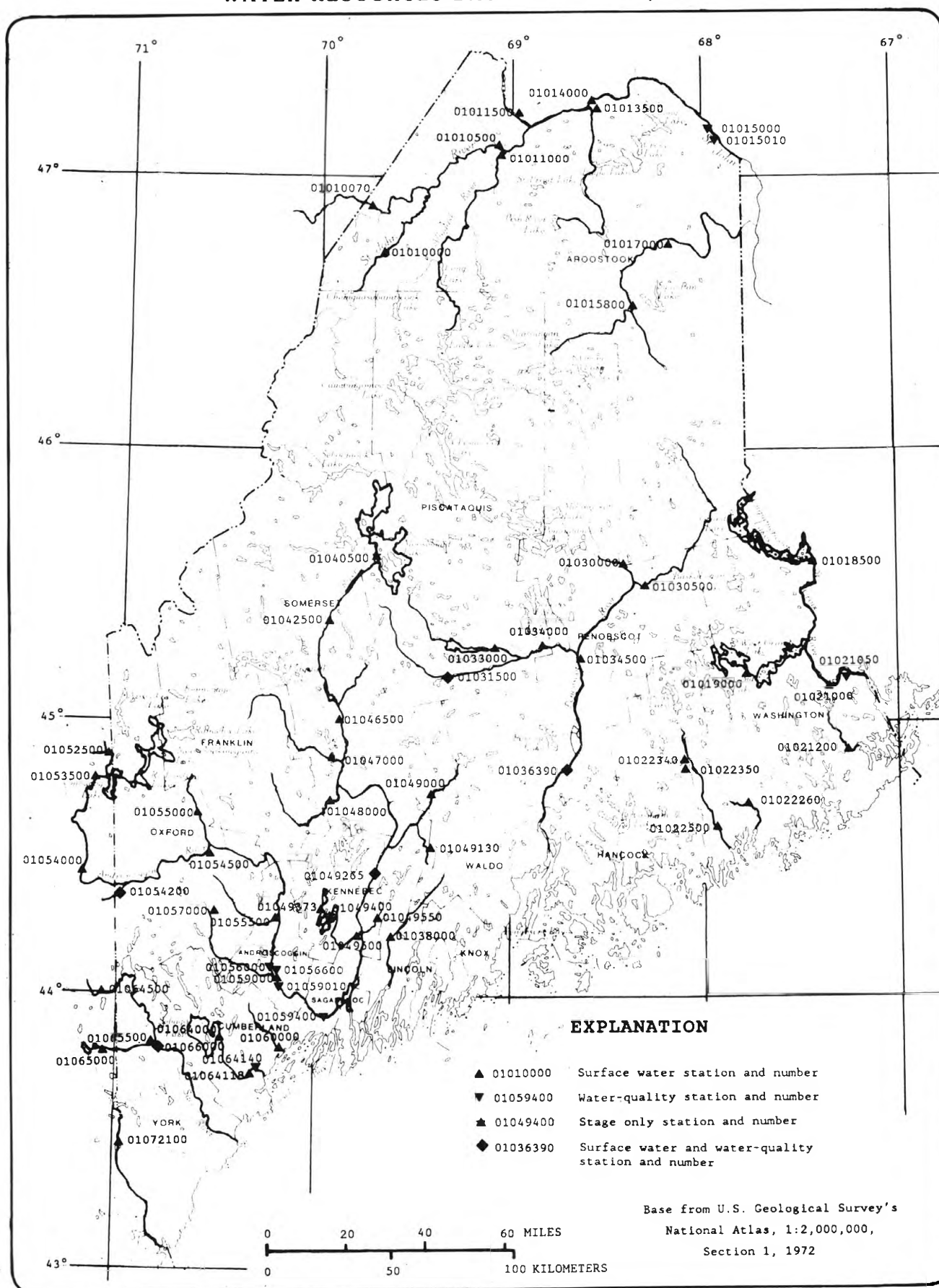


Figure 1.--Location of active surface-water data collection stations.

WATER RESOURCES DATA FOR MAINE, 1990

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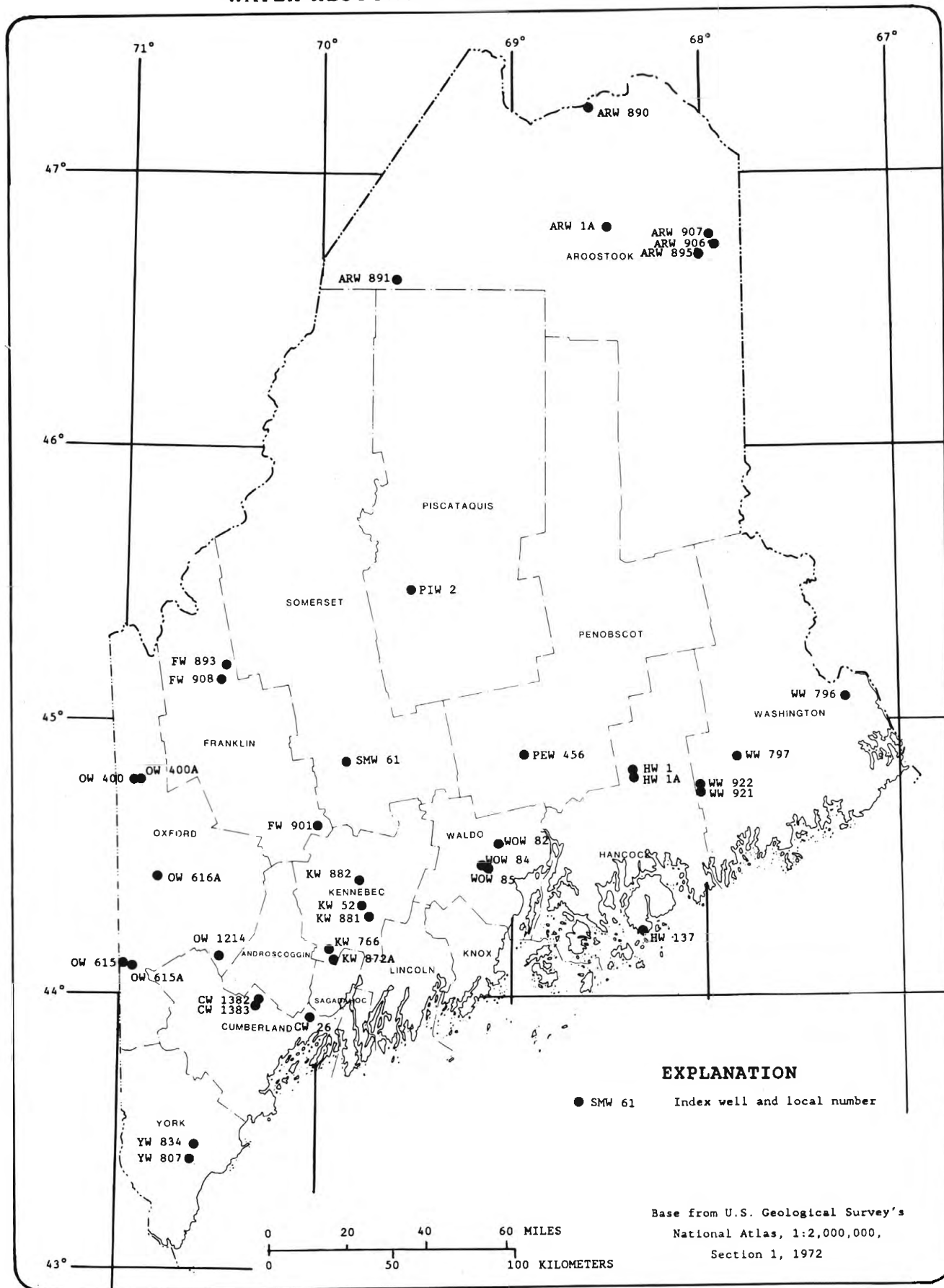


Figure 2.--Location of active ground-water data collection stations.

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 station; 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
Boise Cascade
Central Maine Power Company
Cumberland Power Company
Gardiner Hydro Company
Georgia-Pacific Corporation
Kennebec Water Power Company
Maine Public Service Company
S. D. Warren Company
Swift River Company
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".

SUMMARY OF HYDROLOGIC CONDITIONS

Runoff for the 1990 water year was characterized by normal flows for the 2nd consecutive year. Annual runoff was in the normal range at 49 of 50 sites; the only exception was the St. Francis River, where runoff was below normal. Annual peak flows had less than a 2-year recurrence interval at 35 sites, a 2-year to 5-year recurrence interval at 14 sites, and a 5-year to 10-year recurrence interval at 1 site. Minimum flows at 10 sites are equalled or exceeded 98 percent of the time and minimum flows at 32 sites are equalled or exceeded from 98 to 90 percent of the time. The 1990 monthly and annual mean discharges and the median monthly and annual discharges for the 1951-80 reference period, are shown in figure 3 for three long-term index stations.

Streamflows at the beginning of the water year (October 1) were in the normal range throughout the State. Flows remained in the normal range during October and November, except in northern Maine, where flows were below normal in October. Flows statewide were in the below-normal range during December, in part because of the record cold temperatures. January and February flows were in the normal range, except for

central Maine where flows were above normal in February. The early spring thaw caused March flows to be above normal statewide, and April flows to be below-normal, except for northern Maine where flows were normal. Streamflows during the remainder of the water year (May through September) were in the normal range except for below-normal flows during May in northern Maine, and above normal flows during June in central Maine and during August in southern and western Maine.

Usable surface-water storage in seven reservoir systems in Maine totaled 114,474 million ft³ (cubic feet) at the beginning of the water year; this volume is 64 percent of capacity and 108 percent of the long-term average storage at the beginning of water year. Usable storage decreased during October, increased during November, and then began a steady seasonal decline to the 1990 water-year minimum at the end of February, when storage was 75,788 million ft³ (42 percent of capacity, and 104 percent of the long-term average storage at the end of February). Usable storage increased during March, April, and May to the 1990 maximum of 172,663 million ft³ (97 percent of capacity and 108 percent of the long-term average storage at the end of May). Usable storage remained high during June, then decreased during July, August, and September, and at the end of the water year, was 118,469 million ft³ (66 percent of capacity and 112 percent of long-term end-of-water-year average storage).

Precipitation, as reported by the National Weather Service, ranged from 78.5 to 135.9 percent of median at 12 sites used to provide statewide precipitation data. Table 1 summarizes annual precipitation data at the 12 selected sites during the 1990 water year.

Table 1.-- Precipitation at selected locations in Maine for the 1990 water year

Station Location	Precipitation		Departure (inches)	Percentage of median
	Actual Oct-Sept (inches)	Median Oct-Sept (inches)		
Fort Kent	28.36	36.12	-7.76	78.5
Caribou	35.74	36.59	-0.85	97.7
Houlton	50.54	37.20	13.34	135.9
Brassau Dam	40.81	39.29	1.52	103.9
Jackman	40.28	37.08	3.20	108.6
Woodland	40.48	46.07	-5.59	87.9
Eastport	40.53	43.82	-3.29	92.4
Middle Dam	38.69	36.39	2.30	106.3
Ellsworth	47.97	46.41	1.56	103.4
Rumford	46.03	43.84	2.19	105.0
Lewiston	44.96	45.76	-0.80	98.3
Portland	40.84	43.52	-2.68	93.8

WATER RESOURCES DATA FOR MAINE, 1990

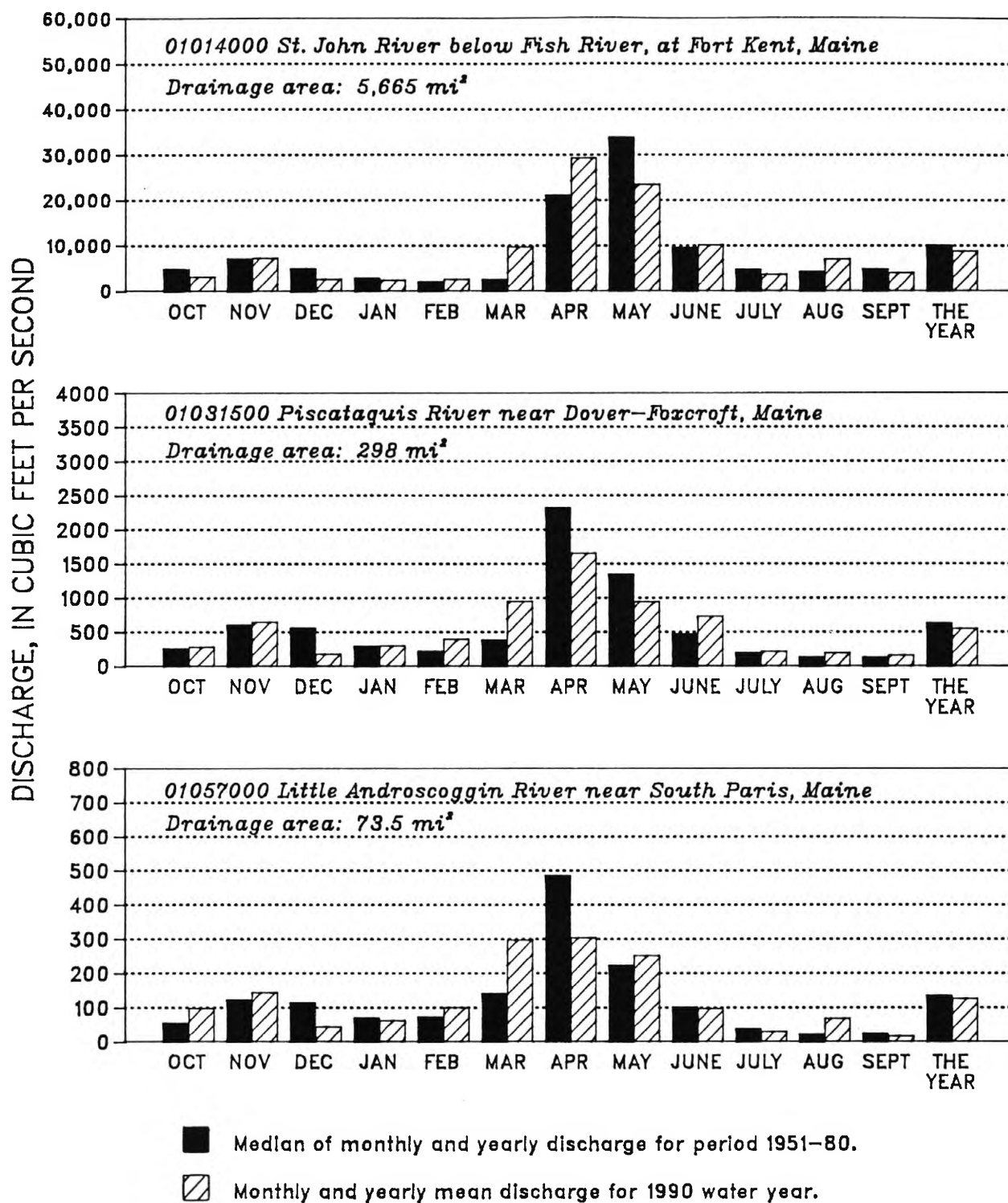


Figure 3.—Comparison of discharge at three long-term index gaging stations during 1990 water year with median discharge for period 1951-80.

Water-quality data on specific conductance, dissolved-oxygen concentration, pH, and water temperature from the eight continuous monitoring stations in Maine were generally within the previous extreme values for the period of daily record for individual stations. The three Androscoggin River sites recorded new minimum dissolved-oxygen concentrations for the period of daily record. The Gulf Island Pond station recorded a new minimum dissolved-oxygen of 2.1 mg/L (milligrams per liter) on July 25. The previous minimum was 2.3 mg/L on July 28, 1982. The North Bridge station recorded a new minimum dissolved-oxygen of 3.3 mg/L on September 10. The previous minimum was 4.9 mg/L on July 10, 1988. The Dresser's Rips station recorded a new minimum dissolved-oxygen concentration of 5.4 mg/L on August 8. The previous minimum was 5.6 mg/L on July 31, 1989.

Ground-water levels in Maine at the beginning of the water year were in the normal range statewide, except for southwestern Maine, where levels were in the above-normal range in October and November, and extreme northern Maine, where levels were in the below-normal range in November. December and January levels remained normal except in western and northern areas of the State, where levels were below normal. Normal levels were reported in central, western, and northwestern areas of Maine in February. Areas in coastal and eastern Maine reported above-normal levels in February. March levels were above normal in a wide area from northwestern to southeastern Maine, below normal in extreme northern Maine and normal throughout the remainder of the State. Normal levels were reported statewide in April and May with the exceptions of below-normal levels in extreme northern Maine in April and above-normal levels in eastern Maine in May. June levels were above normal in northern, central, and areas of eastern Maine; normal in an area of eastern coastal Maine and along the western border with New Hampshire and Canada; and below normal in a small area north and west of Eustis in the upper Androscoggin River basin. July levels were normal except for above-normal levels in eastern Maine. August levels were normal except in northern Maine, where levels were below normal, and in southern and coastal Maine, where levels were above normal. Above-normal levels were reported in September except for areas of normal levels in northern, western, and coastal Maine.

Record month-end ground-water levels were recorded at the following wells during the water year; data have been collected at these sites for at least 10 years. In February, record month-end-high water levels were recorded at the Fryeburg and Kenduskeag wells. Levels at the Clayton Lake well were record month-end highs in

both March and June. Record month-end-high levels were also recorded at the Amherst well in March and the Litchfield #2 well in June. Record month-end-low water levels were recorded at the Clayton Lake well in December and at the Fort Kent well in both March and April.

The observation-well network consisted of 39 wells during the 1990 water year. Three wells (ANW 988C, ARW 905, and PEW 457) were removed from the network at the beginning of the water year. Ten wells were added to the network during the water year. The new wells are located in Cumberland, Hancock, Kennebec, Oxford, Waldo, and York counties.

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 1990 water year that began October 1, 1989, and ended September 30, 1990. 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 figures 1 and 2. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

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

Downstream Order System

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

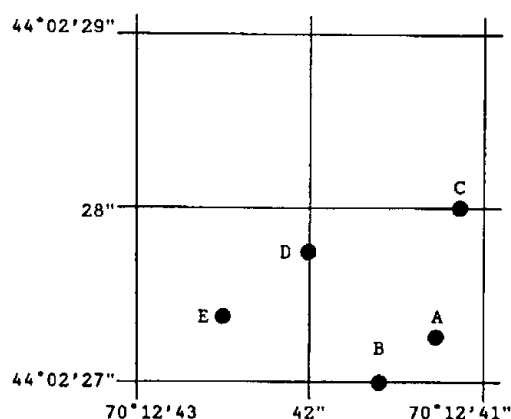
The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both

types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 01031500, which appears just to the left of the station name, includes the two-digit Part number "01" plus the six-digit downstream-order number "031500." The Part number designates the major river basins; for example, Part "01" is for the North Atlantic Slope basins.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 3 below.)

Coordinates for miscellaneous
site C (440228070124101)



Coordinates for wells	Coordinates for well A
D (440227070124201) and	(440227070124101) and
E (440227070124202)	miscellaneous site B
	(440227070124102)

Figure 4.--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 with digital recorders that punch stage values on paper tapes at selected time intervals, or with electronic data loggers which collect, store, and transmit data via satellite. 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 to 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.

Analytical Bias

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period 1982 and 1989. The correction applies to sulfate values reported previous to this report.

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)
*	Analysis from the 1989 water year

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 2.

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, composed of an abbreviation of the county name and sequential number.

Water-level records are obtained from direct measurements with a steel tape, from the punched tape of a water-stage recorder, or from the electronic water-stage recorders. 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. Daily-mean water levels are reported for wells equipped with recording gages.

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.

Data Presentation

Each well record consists of three parts: The station description, data table of water levels observed during the water year, and a hydrograph of water levels observed during the past decade. 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 (if known) 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. All direct measurements obtained with steel tape are listed. For wells equipped with recorders, tables of daily-mean water levels are published. The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the daily-mean table. Because all values are not published for wells with recorders (hourly values are not published but are available in the files of the Geological Survey) the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

A hydrograph of water levels observed during the past decade follows the table of water levels for each well. The water levels presented are referenced to both the land-surface datum at the site and to the NGVD of 1929. Because all values are not used to produce the hydrographs, the extremes listed in the station description may not be reflected in the hydrographs. Periods of missing records are indicated by blank spaces in the hydrograph.

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.

Blank pages are intentionally inserted in the report in order to comply with publication guidelines.

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 (ft³/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 [(ft³/s)/mi²] 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 ($\mu\text{G/L}$, $\mu\text{g/L}$) 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:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	.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 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).

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.

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 abbreviation for "Water-Supply Paper" in reference to previously published reports.

WATER RESOURCES DATA - MAINE, 1990

DISCONTINUED GAGING STATIONS

The following continuous-record streamflow stations in Maine have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record shown for each station.

STATION NUMBER	STATION NAME	DRAINAGE AREA (mi ²)	PERIOD OF RECORD
St. John River Basin			
01010100	Shields Brook at the Big Black River near Seven Islands	161	1977-81
01012500	St. John River above Fish River at Fort Kent	4,790	1906-15
01012515	Clayton Stream at outlet of Clayton Lake	13.9	1982-84
01012520	Bald Mountain Brook near Bald Mountain	1.73	1980-84
01012525	Bishop Mountain Brook near Bishop Mountain	1.15	1981-84
01012570	Fish River at inlet of Fish River Lake	70.3	1982-84
01015000	St. John River at Van Buren	8,174	1908-28
01016500	Machias River near Ashland	329	1951-83
01017500	Aroostook River at Fort Fairfield	2,230	1903-10
01017900	Marley Brook near Ludlow	1.47	1964-82
01018000	Meduxnekeag River near Houlton	175	1940-82
St. Croix River Basin			
01020000	St. Croix River near Baileyville	1,315	1919-83
01021500	Machias River at Whitneyville	457	1905-09 1909-21 1929-77
01022000	East Machias River near East Machias	251	1926-26 1927-58
Pleasant River Basin			
01022250	Taylor Brook at the Great Heath	7.06	1980-82
Union River Basin			
01023000	West Branch Union River at Amherst	148	1909-19 1929-79
01024200	Garland Brook near Mariaville	9.79	1964-82
01025000	Green Lake Stream at Lakewood	47.0	1909-12 1912-13
01026000	Branch Lake Stream near Ellsworth	31.0	1909-13
Penobscot River Basin			
01028000	West Branch Penobscot River near Medway	2,115	1916-39
01029500	East Branch Penobscot River at Grindstone	1,086	1902-03 1904-06 1907-79 1979-82
01031000	Mattawamkeag River at Mattawamkeag	1,500	1902-34
01031600	Morrison Brook near Sebec Corners	4.37	1964-78
01033500	Pleasant River near Milo	324	1920-79
01035000	Passadumkeag River at Lowell	299	1915-79
01035500	Cold Stream at Enfield	28.5	1904-07
01036000	Penobscot River at Passadumkeag	7,000	1938-58
01036500	Kenduskeag Stream near Kenduskeag	178	1941-79
01037000	Kenduskeag Stream near Bangor	195	1908-19

DISCONTINUED GAGING STATIONS--Continued

STATION NUMBER	STATION NAME	DRAINAGE AREA (mi ²)	PERIOD OF RECORD
Damariscotta River Basin			
0103770	Tributary A, Little Pond near Damariscotta	0.31	1977-78
Kennebec River Basin			
01039000	Moose River near Rockwood	708	1919-25
01041000	Kennebec River at Moosehead	1,268	1919-82
01043500	Dead River near Dead River	516	1939-82
01045000	Dead River at The Forks	872	1902-07 1910-79
01046000	Austin Stream at Bingham	90.3	1913-69
01047500	Sandy River near Farmington	242	1910-15
01047730	Wilson Stream at East Wilton	45.8	1977-84
01048500	Kennebec River at Waterville	4,270	1894-35
01049218	Cold Brook near North Belgrade	0.85	1978-79
01049221	Hatchery Brook at North Belgrade	8.83	1977-79
01049270	Stony Brook near South Vassalboro	3.00	1979-80
01049300	North Branch Tanning Brook near Manchester	0.93	1963-83
01049396	Jock Stream at South Monmouth	13.7	1977-84
Androscoggin River Basin			
01054300	Ellis River at South Andover	130	1963-82
01057510	Pennesseewassee Lake Outlet at Norway	30.3	1982-83
01058005	Thompson Lake Outlet at Oxford	47.7	1975-75 1976-78 1981-82
01058500	Little Androscoggin River near Auburn	328	1940-82
01059090	Hooper Brook at Sprague Mill	8.30	1978-80
01059500	Cathance River near Topsham	36.4	1952-55
Royal River Basin			
01059800	Collyer Brook near Gray	13.8	1964-82
01066500	Little Ossipee River near South Limington	168	1940-82
0106700	Saco River at West Buxton	1,572	1909-16 1919-40
01067500	Saco River at Salmon Falls	1,595	1938-48
Mousam River Basin			
01068980	Littlefield River at Alfred	21.6	1978-80
01069500	Mousam River near West Kennebunkport	99.0	1939-84
Piscataqua River Basin			
01072500	Salmon Falls River near South Lebanon	147	1928-69

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. Picke, 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-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 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.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 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-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, N. Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels of streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 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 programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by Richard L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 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.
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- 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.
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- 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.
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- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 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.
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- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

SURFACE-WATER RECORDS

REMARKS CODES.--The following 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 value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
*	Analysis from the 1989 water year

NOTE: In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. The correction applies to sulfate values reported previous to this report.

ST. JOHN RIVER BASIN

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 T12 R15, 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.

Chemical analyses: Water years 1976, 1981.

Specific conductance: April 1975 to September 1980.

Water temperatures: April 1975 to September 1980.

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. 22 to Mar. 19, Mar. 21, and Mar. 27-31. Records good except for periods of ice-effect, Nov. 22 to Mar. 19, Mar. 21, and Mar. 27-31, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--40 years, 2,337 ft³/s, 23.67 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, July 27, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,600 ft³/s, Aug. 14, gage height, 9.20 ft; minimum discharge, 251 ft³/s, Aug. 5-7, gage height, .92 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	957	e980	e535	e1970	e870	2020	14500	1330	1610	428	1650
2	324	1610	e940	e530	e1860	e840	1950	12500	1150	1410	363	1230
3	343	1910	e900	e550	e1740	e790	2110	9910	1020	1280	322	948
4	768	1760	e860	e580	e1600	e750	2480	7280	1050	1170	275	764
5	658	1560	e830	e630	e1480	e710	4460	5500	1470	1340	260	651
6	624	1350	e810	e660	e1400	e680	7390	4750	1630	1380	260	580
7	583	1410	e790	e720	e1300	e650	8060	4490	1440	1110	292	535
8	693	1860	e770	e780	e1240	e610	7370	4060	1470	877	1510	544
9	800	2090	e750	e825	e1180	e570	6250	3550	1380	732	3410	632
10	731	4190	e730	e830	e1140	e550	5610	3150	1380	694	2760	630
11	642	5100	e720	e810	e1140	e540	4790	3380	4240	649	2110	535
12	564	4410	e700	e770	e1180	e580	4060	4510	5580	543	3820	460
13	514	3680	e690	e735	e1230	e840	3560	4000	3990	459	4190	398
14	486	2950	e680	e705	e1290	e970	3170	3170	2740	392	19500	358
15	479	2910	e670	e675	e1300	e1150	3020	2610	2050	341	18700	343
16	460	5340	e650	e655	e1310	e1980	3310	2470	1860	305	12400	538
17	612	9210	e640	e635	e1260	e3110	4110	2650	1880	277	7580	965
18	1200	9400	e630	e605	e1190	e5820	4380	3830	2380	266	4520	871
19	1120	7090	e620	e610	e1120	e10600	4330	6410	10300	271	4570	713
20	980	5100	e610	e820	e1060	12700	4890	7120	11100	321	4070	605
21	1770	3830	e600	e1200	e1000	e11700	7150	5890	8340	345	2860	580
22	3780	e2700	e590	e1600	e940	10400	10800	5300	6190	316	2110	595
23	3420	e2240	e580	e1820	e910	8270	14600	6390	4790	345	1610	1100
24	2720	e1900	e575	e1820	e900	7070	16200	5940	4110	1830	1240	4460
25	2180	e1650	e570	e1780	e900	6160	17600	4630	4050	2920	976	3990
26	1780	e1410	e565	e1610	e925	5100	16200	3530	3650	2200	792	2970
27	1510	e1280	e560	e1580	e930	e4240	17500	2790	2900	1520	679	2220
28	1320	e1160	e555	e1660	e910	e3500	23000	2340	2550	1090	740	1740
29	1190	e1080	e550	e1980	---	e3000	21000	2000	2190	904	1210	1440
30	1070	e1020	e545	e2100	---	e2590	17300	1730	1820	680	2300	1500
31	966	---	e540	e2080	---	e2240	---	1530	---	521	2220	---
TOTAL	34620	92157	21200	32890	34405	109580	248670	151910	100030	28098	108077	34545
MEAN	1117	3072	684	1061	1229	3535	8289	4900	3334	906	3486	1151
MAX	3780	9400	980	2100	1970	12700	23000	14500	11100	2920	19500	4460
MIN	324	957	540	530	900	540	1950	1530	1020	266	260	343
CFSM	.83	2.29	.51	.79	.92	2.64	6.18	3.65	2.49	.68	2.60	.86
IN.	.96	2.56	.59	.91	.95	3.04	6.90	4.21	2.77	.78	3.00	.96

CAL YR 1989 TOTAL 690024 MEAN 1890 MAX 14900 MIN 80 CFSM 1.41 IN. 19.14
WTR YR 1990 TOTAL 996182 MEAN 2729 MAX 23000 MIN 260 CFSM 2.04 IN. 27.63

e Estimated

ST. JOHN RIVER BASIN

27

01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME

LOCATION.--Lat 46°53'38", long 69°45'08", Aroostook County, Hydrologic Unit 01010001, on left bank at the Six Mile Landing Road Bridge, 4 mi northeast of Depot Mountain, 26.8 mi upstream from mouth.

DRAINAGE AREA.--171 mi².

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

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

REMARKS.--Estimated daily discharges: Nov. 19 to Mar. 17, Aug. 11-15 and Sept. 17-30. Records good except for period of ice effect, Nov. 19 to Mar. 17 and periods of no gage-height record, Aug. 11-15 and Sept. 17-30, which are fair. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--7 years, 304 ft³/s, 24.14 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)
Mar. 19	1030	2570	9.95	Apr. 28	1215	*3100	*10.96

Minimum discharge, 20 ft³/sec, Sept. 14, 15, gage height, 3.17 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	103	e116	e64	e126	e84	748	1340	132	63	32	60
2	35	227	e113	e64	e124	e82	780	1180	117	58	28	47
3	61	219	e108	e67	e119	e80	871	932	107	54	26	37
4	160	179	e104	e72	e116	e78	1100	676	102	57	24	31
5	131	144	e101	e78	e110	e75	1730	531	106	107	22	28
6	110	124	e97	e88	e107	e74	2020	506	108	111	23	26
7	112	216	e95	e98	e103	e72	1990	476	101	78	30	26
8	122	285	e92	e108	e99	e70	1790	403	93	61	91	28
9	110	362	e90	e116	e95	e69	1540	345	91	55	200	28
10	90	808	e87	e112	e91	e68	1410	316	82	52	730	28
11	73	726	e85	e106	e96	e73	1210	390	205	50	e585	25
12	63	541	e83	e102	e103	e85	1120	508	310	45	e460	23
13	58	389	e81	e97	e112	e96	1010	407	191	37	e520	22
14	54	276	e80	e93	e115	e108	902	313	120	34	e1800	20
15	53	276	e78	e89	e113	e155	870	252	92	30	e1600	26
16	59	584	e77	e85	e110	e796	975	254	90	30	465	74
17	215	1320	e76	e83	e107	e1440	1060	258	94	28	236	e120
18	275	1210	e74	e80	e103	2280	996	538	112	29	141	e110
19	192	e737	e73	e78	e99	2540	795	853	383	29	179	e91
20	142	e385	e72	e85	e95	2490	978	906	427	30	221	e80
21	442	e305	e71	e100	e92	2270	1630	692	302	28	137	e69
22	692	e255	e70	e120	e89	2040	2030	744	241	26	87	e64
23	492	e220	e69	e128	e86	1880	2390	1080	208	32	64	e155
24	303	e196	e69	e125	e84	1700	2180	897	185	46	52	e250
25	206	e178	e68	e120	e81	1550	2200	618	237	68	43	e225
26	156	e163	e67	e116	e83	1370	1960	424	278	64	39	e205
27	130	e150	e66	e115	e85	1190	2190	326	174	52	41	e185
28	114	e138	e65	e116	e86	1060	2960	258	114	43	50	e165
29	102	e130	e65	e122	---	929	2330	207	93	45	60	e150
30	92	e122	e64	e131	---	834	1600	175	73	46	109	e156
31	84	---	e64	e128	---	784	---	152	---	35	87	---
TOTAL	4966	10968	2520	3086	2829	26422	45365	16957	4968	1523	8182	2554
MEAN	160	366	81.3	99.5	101	852	1512	547	166	49.1	264	85.1
MAX	692	1320	116	131	126	2540	2960	1340	427	111	1800	250
MIN	35	103	64	64	81	68	748	152	73	26	22	20
CFSM	.94	2.14	.48	.58	.59	4.98	8.84	3.20	.97	.29	1.54	.50
IN.	1.08	2.39	.55	.67	.62	5.75	9.87	3.69	1.08	.33	1.78	.56

CAL YR 1989 TOTAL 92270 MEAN 253 MAX 2290 MIN 15 CFSM 1.48 IN. 20.07
WTR YR 1990 TOTAL 130340 MEAN 357 MAX 2960 MIN 20 CFSM 2.09 IN. 28.35

e Estimated

ST. JOHN RIVER BASIN

01010500 ST. JOHN RIVER AT DICKEY, ME

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

DRAINAGE AREA.--2,680 mi².

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

Chemical analyses: Water years 1952, 1975, 1981.

Specific conductance: April 1975 to September 1980.

Water temperature: 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 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. 23 to Mar. 20, and Mar. 28-30. Records good except for periods of ice effect, Nov. 23 to Mar. 20, and Mar. 28-30, which are fair. Several observations of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--44 years (water years 1947 to current year), 4,747 ft³/s, 24.05 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)
Mar. 19	2200	ice jam	*18.06	Aug. 15	0200	33,800	12.21
Apr. 28	2145	*50,800	14.59				

Minimum discharge, 461 ft³/s, Aug. 6 and 7, gage height 3.82 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	578	1430	e1450	e790	e2910	e1260	4350	31400	3390	2730	845	2950
2	549	1720	e1410	e780	e2760	e1210	3980	27100	3010	2510	706	2230
3	594	2630	e1360	e770	e2580	e1180	3830	21900	2720	2310	611	1710
4	738	2850	e1300	e780	e2400	e1120	4270	16200	2660	2250	539	1380
5	1210	2480	e1260	e800	e2220	e1070	6340	12300	2650	2240	503	1160
6	1310	2160	e1230	e840	e2060	e1020	11700	10300	2970	2300	470	1000
7	1190	1970	e1210	e880	e1930	e970	14700	9450	3090	2310	466	927
8	1170	2300	e1180	e930	e1840	e930	14300	8510	2810	1780	587	904
9	1230	2950	e1160	e980	e1750	e890	12500	7630	2680	1500	2140	873
10	1300	4710	e1120	e1020	e1690	e840	11400	6890	2540	1320	4290	896
11	1190	8500	e1110	e1070	e1610	e800	10500	6900	2680	1160	3430	937
12	1040	7510	e1080	e1060	e1580	e780	8480	8550	6960	1110	3220	849
13	905	6380	e1040	e1030	e1630	e770	7680	8570	6710	956	5560	748
14	803	5230	e1020	e1010	e1710	e995	6810	7200	5090	826	14400	681
15	732	4410	e1000	e980	e1810	e1550	6640	6040	4050	749	30000	622
16	707	5230	e990	e940	e1870	e2240	6530	5640	4880	702	20000	624
17	851	11800	e970	e890	e1880	e3980	7600	5690	4090	638	12500	758
18	1330	15900	e960	e860	e1800	e6890	8460	6310	3690	593	7740	1470
19	2060	12500	e950	e840	e1700	e12100	8890	11000	7140	558	5880	1420
20	1840	8770	e940	e860	e1600	e18500	9140	14100	15400	523	6590	1210
21	1970	6610	e920	e1210	e1510	19000	12900	12800	13100	533	5340	1050
22	4910	4940	e910	e1750	e1410	16100	20500	11000	9590	560	4010	971
23	6530	e3330	e900	e2160	e1310	14600	27900	13100	7690	610	3020	1540
24	5220	e2660	e890	e2610	e1250	12600	32000	13700	6400	718	2370	5760
25	4050	e2280	e880	e2700	e1240	10800	34500	11000	6310	2400	1890	8140
26	3150	e2070	e860	e2460	e1230	9460	32700	8470	6230	3600	1570	6160
27	2560	e1850	e850	e2240	e1250	7950	33900	6840	5490	2750	1340	4640
28	2170	e1680	e830	e2190	e1290	e6830	46400	5800	4520	2020	1200	3500
29	1900	e1580	e820	e2280	---	e6090	47200	5050	3950	1570	1300	2850
30	1700	e1500	e810	e2610	---	e5400	38300	4490	3300	1330	1900	2630
31	1520	---	e800	e3000	---	4960	---	3830	---	1060	3260	---
TOTAL	57007	139930	32210	43320	49820	172885	494400	327760	155790	46216	147677	60590
MEAN	1839	4664	1039	1397	1779	5577	16480	10570	5193	1491	4764	2020
MAX	6530	15900	1450	3000	2910	19000	47200	31400	15400	3600	30000	8140
MIN	549	1430	800	770	1230	770	3830	3830	2540	523	466	622
CFSM	.69	1.74	.39	.52	.66	2.08	6.15	3.95	1.94	.56	1.78	.75
IN.	.79	1.94	.45	.60	.69	2.40	6.86	4.55	2.16	.64	2.05	.84

CAL YR 1989 TOTAL 1349653 MEAN 3698 MAX 29800 MIN 268 CFSM 1.38 IN. 18.73

WTR YR 1990 TOTAL 1727605 MEAN 4733 MAX 47200 MIN 466 CFSM 1.77 IN. 23.98

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.

Chemical analyses: Water years 1952-53, 1975, 1981.

Specific conductance: April 1975 to September 1980.

Water temperatures: April 1975 to September 1980.

Suspended sediment discharge: October 1975 to September 1976.

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

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

REMARKS.--Estimated daily discharges: Nov. 22 to Apr. 7. Records good except for period of ice effect, Nov. 22 to Apr. 7, which is 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. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--59 years (water years 1932 to current year), 1,926 ft³/s, 21.28 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, 15,700 ft³/s, Apr. 28, gage-height, 9.27 ft.; minimum discharge, 314 ft³/s, Oct. 16, gage height, 2.10 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	455	482	e690	e370	e650	e520	e2900	11400	2120	1510	714	1370
2	431	595	e670	e380	e640	e500	e2850	10700	1970	1390	663	1250
3	455	626	e650	e390	e630	e490	e2900	9390	1840	1290	615	1120
4	479	607	e630	e400	e610	e480	e3300	7930	2220	1220	588	1020
5	450	586	e610	e420	e570	e475	e4300	6520	2410	1210	574	978
6	426	559	e590	e440	e560	e465	e6000	5660	2230	1160	577	941
7	433	604	e570	e460	e540	e445	e5700	5200	2040	1120	599	937
8	464	666	e560	e480	e530	e430	5190	4600	1910	1060	637	1010
9	464	688	e540	e490	e510	e420	4820	4030	1790	1040	770	999
10	435	1210	e530	e500	e510	e410	4430	3550	1730	1060	812	945
11	408	1500	e520	e490	e530	e400	4210	3490	1920	972	819	906
12	383	1440	e510	e485	e560	e460	3950	3830	2260	882	886	864
13	370	1320	e500	e480	e570	e495	3760	3630	2320	807	939	841
14	359	1210	e490	e475	e565	e600	3550	3330	2080	735	3530	805
15	332	1200	e470	e455	e550	e740	3360	2930	1910	687	4780	806
16	330	1740	e460	e450	e540	e900	3540	2880	1810	665	4010	805
17	417	3210	e450	e450	e530	e1200	3960	2740	1770	645	3130	785
18	455	3400	e440	e455	e525	e1700	4000	2890	1830	631	2530	756
19	421	2980	e435	e490	e520	e2350	3920	3410	2980	623	2420	739
20	405	2540	e430	e530	e520	e3550	4180	3750	3600	637	2200	757
21	488	2190	e420	e560	e515	e4400	5650	3560	3420	622	1860	767
22	806	e1680	e415	e580	e510	e4750	7460	3710	3170	594	1610	750
23	815	e1340	e410	e560	e530	e5100	9130	4690	2950	616	1450	1300
24	780	e1050	e405	e550	e560	e5200	10200	4770	2950	1290	1330	2980
25	733	e980	e400	e520	e575	e5100	11000	4420	3140	1630	1230	2510
26	673	e900	e395	e530	e585	e4800	10700	4070	2830	1430	1150	2070
27	618	e830	e390	e590	e580	e4400	11500	3590	2600	1240	1080	1750
28	575	e770	e385	e630	e550	e3900	15200	3220	2290	1090	1150	1520
29	537	e750	e380	e650	---	e3650	14500	2910	1920	948	1390	1400
30	504	e710	e375	e650	---	e3300	12500	2620	1680	852	1670	1430
31	475	---	e370	e660	---	e3100	---	2320	---	772	1560	---
TOTAL	15376	38363	15090	15570	15565	64730	188660	141740	69690	30428	47273	35111
MEAN	496	1279	487	502	556	2088	6289	4572	2323	982	1525	1170
MAX	815	3400	690	660	650	5200	15200	11400	3600	1630	4780	2980
MIN	330	482	370	370	510	400	2850	2320	1680	594	574	739
CFSM	.40	1.04	.40	.41	.45	1.70	5.12	3.72	1.89	.80	1.24	.95
IN.	.47	1.16	.46	.47	.47	1.96	5.71	4.29	2.11	.92	1.43	1.06

CAL YR 1989 TOTAL 520022 MEAN 1425 MAX 8370 MIN 245 CFSM 1.16 IN. 15.74

WTR YR 1990 TOTAL 677596 MEAN 1856 MAX 15200 MIN 330 CFSM 1.51 IN. 20.51

e Estimated

ST. JOHN RIVER BASIN

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

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

DRAINAGE AREA.--524 mi².

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

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

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

REMARKS.--Estimated daily discharges: Dec. 9-12, and Dec. 15 to Jan. 2. Records good, including periods of doubtful gage-height record, Dec. 9-12, and Dec. 15 to Jan. 2.

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

AVERAGE DISCHARGE.--39 years, 880 ft³/s, 22.81 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, 6,280 ft³/s, Apr. 30, gage height, 9.81 ft; minimum daily, 91 ft³/s, Sept. 20, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	163	216	e114	159	142	536	5900	1080	542	153	149
2	69	163	203	e115	162	138	521	5440	991	511	147	146
3	77	160	199	116	163	136	508	5000	919	484	141	138
4	81	166	205	109	165	138	510	4510	870	482	128	129
5	80	157	191	113	166	133	551	3960	814	466	122	128
6	78	158	185	111	168	130	662	3400	760	429	117	125
7	78	164	177	109	168	130	826	2940	723	404	116	129
8	77	166	173	109	167	127	1020	2580	693	380	121	129
9	77	170	e169	111	165	123	1160	2270	657	362	125	123
10	79	188	e161	110	164	121	1240	2020	629	347	119	115
11	77	203	e152	111	169	119	1270	1860	605	327	127	110
12	75	232	e148	109	167	119	1240	1740	571	308	145	98
13	77	251	142	111	163	117	1160	1660	540	291	151	98
14	78	269	137	109	163	114	1100	1570	508	274	224	94
15	75	280	e138	108	162	120	1070	1450	536	258	239	95
16	78	284	e136	111	159	122	1050	1390	644	249	239	99
17	86	318	e134	111	175	134	1090	1310	603	237	236	97
18	85	323	e132	109	173	160	1170	1300	568	224	236	95
19	87	330	e131	107	170	181	1230	1320	565	214	240	92
20	88	331	e129	111	168	226	1300	1380	558	202	230	91
21	105	333	e127	112	165	298	1480	1430	577	198	219	92
22	118	324	e125	111	162	349	1820	1480	589	186	207	91
23	130	299	e123	111	163	414	2380	1570	582	187	190	133
24	143	277	e121	111	163	484	2980	1750	600	194	176	181
25	154	263	e119	110	160	519	3460	1890	610	191	172	211
26	162	255	e118	122	156	572	3810	1870	606	187	169	260
27	164	243	e117	127	154	590	4260	1750	615	179	159	295
28	166	240	e116	130	153	598	5090	1600	621	178	154	316
29	163	237	e115	130	---	594	5960	1460	598	173	159	328
30	164	223	e114	144	---	576	6240	1320	576	164	156	329
31	158	---	e113	156	---	557	---	1190	---	155	151	---
TOTAL	3196	7170	4566	3578	4592	8281	56694	70310	19808	8983	5268	4516
MEAN	103	239	147	115	164	267	1890	2268	660	290	170	151
MAX	166	333	216	156	175	598	6240	5900	1080	542	240	329
MIN	67	157	113	107	153	114	508	1190	508	155	116	91
CFSM	.20	.46	.28	.22	.31	.51	3.61	4.33	1.26	.55	.32	.29
IN.	.23	.51	.32	.25	.33	.59	4.02	4.99	1.41	.64	.37	.32

CAL YR 1989 TOTAL 236163 MEAN 647 MAX 4940 MIN 67 CFSM 1.23 IN. 16.77
WTR YR 1990 TOTAL 196962 MEAN 540 MAX 6240 MIN 67 CFSM 1.03 IN. 13.98

e Estimated

ST. JOHN RIVER BASIN

01013500 FISH RIVER NEAR FORT KENT, ME

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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: Nov. 28, 29, and Dec. 1 to Mar. 31. Records good except for periods of ice effect, Nov. 28, 29, and Dec. 1 to Mar. 31, which are fair. Several observations of water temperature and specific conductance were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--66 years (water years 1904-08, 1930-current year), 1,406 ft³/s, 21.87 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,500 ft³/s, Apr. 29, gage height, 8.71 ft; minimum discharge, 165 ft³/s, Sept. 21, 22, gage-height, 2.34 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	336	e970	e430	e445	e365	1070	8110	2720	1000	427	357
2	297	348	e950	e425	e435	e360	1080	7900	2550	956	392	341
3	313	351	e930	e420	e425	e345	1080	7500	2400	912	373	316
4	296	367	e910	e410	e415	e340	1260	7000	2340	903	363	303
5	286	375	e890	e405	e405	e335	1720	6540	2230	830	352	287
6	282	390	e870	e400	e385	e330	1970	6180	2110	772	343	271
7	281	388	e840	e385	e375	e325	2200	5840	2010	727	329	272
8	272	396	e810	e375	e365	e320	2390	5450	1920	687	328	267
9	264	425	e770	e365	e370	e320	2560	5040	1820	688	322	260
10	255	561	e750	e350	e405	e325	2720	4670	1710	651	303	251
11	249	584	e720	e345	e430	e370	2850	4440	1590	600	302	233
12	247	620	e700	e355	e420	e420	2910	4160	1500	569	307	227
13	241	640	e670	e360	e405	e484	2900	3900	1410	541	307	212
14	231	683	e660	e350	e390	e600	2870	3610	1330	517	575	214
15	228	744	e640	e355	e380	e750	2880	3370	1250	489	556	218
16	232	845	e630	e370	e375	e879	2950	3130	1190	470	534	203
17	247	1030	e610	e355	e370	e1030	3110	2930	1130	444	530	191
18	246	1120	e590	e365	e365	e1200	3180	2900	1130	424	523	181
19	242	1180	e570	e380	e360	e1400	3230	2850	1110	410	525	170
20	244	1240	e560	e395	e355	e1600	3400	2790	1110	393	517	170
21	279	1240	e550	e410	e350	e1800	3890	2720	1090	370	501	166
22	315	1210	e540	e415	e355	e2050	4380	2950	1100	352	479	165
23	307	1180	e520	e410	e395	e2300	4960	3430	1110	365	460	327
24	313	1150	e510	e395	e405	e2470	5440	3580	1160	440	441	448
25	309	1120	e500	e380	e390	e2390	5880	3660	1200	457	422	454
26	307	1110	e490	e420	e385	e1840	6190	3640	1200	467	402	487
27	314	1070	e480	e480	e380	e1510	6860	3540	1190	476	387	517
28	317	e1050	e470	e480	e370	e1360	8070	3420	1150	495	372	534
29	316	e1040	e460	e475	---	e1210	8460	3230	1120	488	381	555
30	316	1030	e450	e470	---	e1090	8320	3040	1060	477	385	588
31	314	---	e440	e455	---	e1070	---	2870	---	464	369	---
TOTAL	8660	23823	20450	12385	10905	31188	110780	134390	45940	17834	12807	9185
MEAN	279	794	660	400	389	1006	3693	4335	1531	575	413	306
MAX	317	1240	970	480	445	2470	8460	8110	2720	1000	575	588
MIN	228	336	440	345	350	320	1070	2720	1060	352	302	165
CFSM	.32	.91	.76	.46	.45	1.15	4.23	4.97	1.75	.66	.47	.35
IN.	.37	1.02	.87	.53	.46	1.33	4.72	5.73	1.96	.76	.55	.39

CAL YR 1989 TOTAL 420645 MEAN 1152 MAX 6820 MIN 202 CFSM 1.32 IN. 17.92
WTR YR 1990 TOTAL 438347 MEAN 1201 MAX 8460 MIN 165 CFSM 1.38 IN. 18.68

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. 23 to Apr. 3, May 10 to June 1, July 3, 4, Aug. 6-8. Records good except for period of ice effect Nov. 23 to Apr. 3, periods of partial gage-height record, Feb. 14-22, 24-26, Mar. 6-14, and July 3 and 4, which are fair. Several observations of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

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

AVERAGE DISCHARGE.--64 years, 9,658 ft³/s, 23.15 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. 29	0500	*85,400	*20.34	No other peak greater than base discharge.			

Minimum daily discharge, 1,480 ft³/s, Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1780	2890	e3590	e1870	e4900	e2620	e9600	61400	e10300	6430	2400	5340
2	1710	2930	e3500	e1830	e4730	e2550	e9270	54900	9390	5810	2110	4550
3	1780	3670	e3400	e1810	e4450	e2490	e9500	47200	8680	e5300	1880	3830
4	1820	4510	e3300	e1810	e4200	e2410	10300	38300	8560	e5100	1710	3250
5	2020	4240	e3200	e1820	e3950	e2350	12500	31200	8820	4890	1590	2860
6	2490	3880	e3100	e1830	e3750	e2270	16800	26700	8610	4750	e1500	2600
7	2410	3620	e3000	e1850	e3570	e2210	21800	24400	8560	4770	e1480	2470
8	2330	3710	e2950	e1880	e3450	e2140	24000	22500	8110	4440	e1600	2460
9	2360	4400	e2900	e1900	e3290	e2060	22700	20300	7580	4100	1990	2450
10	2420	5860	e2850	e1930	e3200	e2010	21100	e19000	7220	3870	4940	2330
11	2390	10200	e2780	e2150	e3150	e1990	19100	e18200	6980	3560	5230	2300
12	2220	10900	e2700	e2200	e3110	e2000	17700	e19700	9530	3250	4660	2220
13	2050	9620	e2650	e2210	e3200	e2170	17100	e19300	11900	2980	5980	2060
14	1900	8400	e2550	e2190	e3340	e2700	16600	e17100	10100	2690	11200	1930
15	1780	7390	e2500	e2170	e3400	e3500	15500	e15600	8400	2430	33400	1860
16	1730	7450	e2450	e2090	e3440	e4700	15200	e14400	8810	2270	25900	1820
17	1850	13200	e2400	e2080	e3400	e6900	16300	e13800	8320	2120	18100	1800
18	2130	19900	e2350	e2080	e3290	e10900	17400	e14800	7750	1990	12800	2070
19	2770	18000	e2320	e2090	e3160	e18000	17800	e19500	8750	1920	9860	2600
20	3130	14300	e2300	e2100	e3040	e28000	18500	e23600	18800	1850	9690	2460
21	3100	11700	e2250	e2220	e2960	e27500	22800	e22400	18800	1810	8930	2270
22	4380	8510	e2200	e3250	e2880	e25800	32300	e20900	15600	1750	7120	2110
23	8340	e6300	e2150	e3950	e2780	e23600	43200	e24600	13200	1820	5810	2920
24	7480	e5580	e2120	e4400	e2710	e21500	51300	e26000	12000	2210	4890	6890
25	6160	e5110	e2100	e4350	e2700	e19200	56400	e23000	11800	3450	4230	11800
26	5130	e4740	e2050	e4100	e2700	e17500	56700	e19800	11500	5970	3750	10200
27	4390	e4380	e2020	e3940	e2740	e15600	57900	e17200	10700	5310	3380	8120
28	3880	e4070	e2000	e3850	e2690	e14000	75200	e15000	9510	4390	3090	6590
29	3480	e3870	e1980	e4200	---	e12300	82900	e13400	8280	3690	3250	5680
30	3210	e3680	e1950	e4750	---	e11400	72200	e12300	7380	3150	3890	5290
31	2960	---	e1920	e4950	---	e10300	---	e11200	---	2780	4980	---
TOTAL	95580	217010	79530	83850	94180	302670	879670	727700	303940	110850	211340	115130
MEAN	3083	7234	2565	2705	3364	9764	29320	23470	10130	3576	6817	3838
MAX	8340	19900	3590	4950	4900	28000	82900	61400	18800	6430	33400	11800
MIN	1710	2890	1920	1810	2690	1990	9270	11200	6980	1750	1480	1800
CFSM	.54	1.28	.45	.48	.59	1.72	5.18	4.14	1.79	.63	1.20	.68
IN.	.63	1.43	.52	.55	.62	1.99	5.78	4.78	2.00	.73	1.39	.76

WTR YR 1990 TOTAL 3221450 MEAN 8826 MAX 82900 MIN 1480 CFSM 1.56 IN. 21.15

e Estimated

ST. JOHN RIVER BASIN

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

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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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
11...	0800	3450	126	7.5	2.0	6.5	1.7	750	11.0	91	110	K 17
DEC												
20...	1500	E 3320	120	7.1	-15.0	0.0	1.2	740	14.2	100	290	54
FEB												
14...	0900	E 4820	113	7.1	-10.0	0.0	0.6	740	11.0	77	1100	76
APR												
18...	1400	25100	74	7.1	0.0	1.0	6.1	750	12.8	91	K 86	61
JUN												
07...	1300	12400	87	7.5	19.0	14.0	2.0	750	9.6	95	170	--
AUG												
03...	0700	2710	109	7.5	17.0	21.0	2.0	750	7.2	82	K 26	K 2

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT												
11...	50	16	2.5	3.8	0.8	47	0	39	39	38	12	4.6
DEC												
20...	47	15	2.4	4.0	0.5	43	0	35	36	35	12	4.8
FEB												
14...	49	16	2.2	3.7	0.5	44	0	36	36	37	10	4.3
APR												
18...	33	11	1.4	2.1	0.4	30	0	25	24	25	5.9	3.2
JUN												
07...	39	13	1.6	2.3	0.4	39	0	32	32	33	5.4	2.0
AUG												
03...	42	13	2.2	3.5	0.6	44	0	36	38	39	9.3	4.6

E Estimated Discharge

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

ST. JOHN RIVER BASIN

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

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WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS-SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 11...	0.1	3.3	61	67	<0.10	0.33	0.42	0.7	0.02	<0.01	<0.01
DEC 20...	<0.1	5.0	80	66	0.24	0.02	0.03	0.4	0.01	<0.01	<0.01
FEB 14...	0.1	4.5	85	64	0.26	0.02	0.03	0.3	0.01	0.02	<0.01
APR 18...	<0.1	4.2	59	45	0.30	0.01	0.01	0.4	0.03	<0.01	<0.01
JUN 07...	<0.1	2.8	38	47	0.10	0.01	0.01	0.2	0.02	<0.01	<0.01
AUG 03...	<0.1	2.4	75	58	<0.10	0.04	0.05	0.5	0.02	<0.01	<0.01

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 11...	40	<1	6	<0.5	<1	<1	<3	<1	110	1	<4	28
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	60	<1	7	<0.5	<1	<5	<3	<10	85	<10	<4	26
APR 18...	60	<1	5	0.7	<1	<1	<3	2	72	1	<4	13
JUN 07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	40	<1	7	<0.5	<1	<1	<3	2	92	1	<4	24

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 11...	<0.1	<10	<1	<1	<1	97	<6	5	4	37	100
DEC 20...	--	--	--	--	--	--	--	--	1	9	50
FEB 14...	<0.1	<10	<10	<1	<1	110	<6	<3	1	13	100
APR 18...	<0.1	<10	1	<1	<1	71	<6	<3	29	1970	92
JUN 07...	--	--	--	--	--	--	--	--	5	167	68
AUG 03...	<0.1	<10	2	<1	<1	100	<6	4	8	59	68

ST. JOHN RIVER BASIN

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. 22 to Apr. 16. Records good except for period of ice effect, Nov. 22 to Apr. 16, and period of no gage-height record, Nov. 26 to Jan. 16, 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. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--33 years, 1,469 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, 11,000 ft³/s, Apr. 29, gage height, 12.88 ft; minimum discharge 194 ft³/s, Sept. 15, gage height, 2.96 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	399	459	e700	e335	e730	e570	e1700	7930	1840	1210	548	398
2	363	864	e680	e355	e745	e530	e1740	6940	1580	1160	468	347
3	373	1060	e650	e380	e735	e530	e1860	6160	1350	1080	412	306
4	440	1100	e630	e395	e735	e535	e2320	5250	1240	944	359	270
5	452	1090	e610	e410	e695	e505	e3710	4460	1270	909	320	250
6	431	958	e590	e420	e645	e475	e4470	4080	1230	857	290	238
7	396	963	e580	e430	e620	e455	e4810	3940	1120	730	286	238
8	380	1040	e560	e425	e580	e435	e4760	3490	1070	642	286	267
9	367	1140	e545	e415	e595	e410	e4600	2920	995	589	290	289
10	341	1990	e530	e415	e600	e410	e4500	2650	943	580	292	269
11	323	2710	e510	e405	e605	e440	e4180	2630	1070	539	358	248
12	307	2540	e500	e400	e605	e455	e3650	3010	1360	479	1080	229
13	294	2160	e490	e400	e600	e470	e3600	2900	1240	420	1360	213
14	283	1830	e480	e390	e615	e530	e3540	2510	1030	375	1340	202
15	271	1770	e465	e385	e595	e605	e3540	2160	858	342	1780	200
16	265	2080	e455	e383	e600	e710	e4060	1880	736	316	1720	213
17	289	2890	e445	e390	e580	e990	5090	1670	669	288	1360	227
18	337	3380	e435	e390	e585	e1280	5380	1770	747	268	897	223
19	354	3100	e425	e415	e580	e1620	5180	2300	1100	253	769	214
20	349	2590	e415	e430	e560	e2030	5060	2650	1790	239	731	209
21	391	2120	e410	e430	e555	e2260	5740	2570	2350	232	668	212
22	607	e1600	e400	e450	e540	e2490	7020	2570	2330	225	630	211
23	739	e1200	e390	e430	e555	e2730	7850	3650	2280	238	524	424
24	703	e1050	e380	e420	e600	e2900	8260	4550	2610	526	446	2130
25	625	e950	e375	e415	e620	e2910	8600	4620	3140	1860	386	2280
26	562	e900	e365	e440	e605	e3070	8580	4220	2880	2480	340	1820
27	511	e860	e355	e520	e580	e3130	8470	3610	2320	2160	309	1390
28	475	e800	e345	e600	e565	e2650	9930	3140	1940	1780	322	1100
29	447	e760	e340	e660	---	e2340	10800	2750	1630	1300	392	909
30	420	e730	e337	e700	---	e2050	9470	2480	1380	927	478	827
31	395	---	e335	e680	---	e1810	---	2250	---	685	460	---
TOTAL	12889	46684	14727	13713	17225	42325	162470	107710	46098	24633	19901	16353
MEAN	416	1556	475	442	615	1365	5416	3475	1537	795	642	545
MAX	739	3380	700	700	745	3130	10800	7930	3140	2480	1780	2280
MIN	265	459	335	335	540	410	1700	1670	669	225	286	200

CAL YR 1989 TOTAL 447223 MEAN 1225 MAX 13200 MIN 98
WTR YR 1990 TOTAL 524728 MEAN 1438 MAX 10800 MIN 200

e Estimated

01017000 AROOSTOOK RIVER AT WASHBURN, ME

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

DRAINAGE AREA.--1,654 mi².

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

Chemical analyses: Water years 1952-53.

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

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

REMARKS.--Estimated daily discharges: Nov. 21 to Apr. 18, and June 8-14. Records, good except for period of ice effect, Nov. 21 to Apr. 17, period of doubtful gage-height record Mar. 27 to Apr. 18, and periods of no gage-height record, Nov. 25 to Dec. 20, Dec. 29-31, Jan. 16-29, and June 8-14, which are fair. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft³, used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--60 years, 2,641 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,200 ft³/s, Apr. 29, gage height, 9.11 ft; maximum gage height, 17.80 ft, Apr. 8, (backwater from ice); minimum daily discharge, 367 ft³/s, Sept. 15, 20-22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	727	926	e1300	e620	e1460	e1300	e3050	14800	3210	1910	1020	768
2	668	1350	e1210	e600	e1480	e1380	e2900	12600	2730	1730	832	684
3	659	1730	e1150	e820	e1490	e1280	e3050	11000	2400	1780	717	602
4	670	1840	e1090	e840	e1290	e890	e3600	9120	2360	1630	636	542
5	719	1900	e1290	e860	e1200	e850	e5600	7390	2630	1320	571	499
6	733	1780	e1180	e880	e1310	e1100	e7200	6580	2420	1270	519	473
7	716	1710	e1080	e720	e1280	e1110	e7900	6250	2300	1140	494	450
8	686	1730	e950	e720	e1240	e1060	e7800	5840	e1950	1000	493	450
9	671	1850	e1060	e860	e1210	e1040	e8000	4940	e1750	990	488	466
10	636	2940	e1000	e880	e1240	e1020	e7900	4360	e1680	1090	479	471
11	601	4260	e990	e860	e1000	e730	e7200	4240	e1890	854	519	452
12	619	4160	e940	e860	e1000	e760	e6400	4450	e2400	772	810	425
13	560	3630	e930	e850	e1280	e1000	e5800	4420	e2230	682	1650	397
14	539	3200	e910	e650	e1250	e1060	e5800	3950	1850	608	1950	376
15	524	3000	e1050	e645	e1280	e1150	e5900	3480	1480	554	2490	367
16	513	3530	e1120	e810	e1270	e1300	e6400	3040	1270	521	2630	378
17	524	4910	e1000	e820	e1250	e1550	e7400	2750	1140	752	2450	393
18	577	5910	e730	e830	e980	e1950	9200	3000	1160	753	1880	399
19	628	5590	e900	e840	e970	e2500	8960	3690	1560	475	1310	389
20	652	4740	e710	e880	e1200	e3100	8990	4140	2560	432	1160	367
21	712	e3800	e840	e730	e1200	e3600	10800	4360	3400	419	1050	367
22	941	e2510	e1050	e750	e1200	e4000	13400	4710	3680	396	946	367
23	1220	e2150	e1040	e880	e1010	e4400	15000	6930	3930	413	851	1100
24	1270	e1800	e720	e885	e1250	e4750	15500	8840	4390	1130	729	3780
25	1210	e1650	e690	e900	e1290	e4800	15900	8580	5090	2840	637	4610
26	1090	e1520	e630	e930	e1010	e4900	15700	7410	4800	3770	574	3630
27	1010	e1460	e840	e1020	e1300	e5150	15600	6180	3970	3390	534	2790
28	939	e1410	e820	e1000	e1260	e5000	17700	5270	3200	3440	731	2150
29	884	e1690	e760	e1120	---	e4200	19100	4660	2640	2530	784	1760
30	842	e1510	e730	e1400	---	e3800	17500	4040	2210	1820	663	1570
31	805	---	e620	e1390	---	e3300	---	3830	---	1340	769	---
TOTAL	23545	80186	29330	26850	34200	74030	285250	184850	78280	41751	31366	31472
MEAN	760	2673	946	866	1221	2388	9508	5963	2609	1347	1012	1049
MAX	1270	5910	1300	1400	1490	5150	19100	14800	5090	3770	2630	4610
MIN	513	926	620	600	970	730	2900	2750	1140	396	479	367

CAL YR 1989 TOTAL 833682 MEAN 2284 MAX 24500 MIN 189
WTR YR 1990 TOTAL 921110 MEAN 2524 MAX 19100 MIN 367

e Estimated

ST. CROIX RIVER BASIN

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

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

DRAINAGE AREA.--413 mi².

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

Chemical analyses: Water year 1955.

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

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

REMARKS.--Estimated daily discharges: Nov. 15 to Dec. 6, Jan. 21 to Feb. 25, and Aug. 11-23. Records good including periods of no gage height record, Nov. 15 to Dec. 6, Jan. 21 to Feb. 25, and Aug. 11-23. 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.--62 years, 719 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, 3,270 ft³/s, May 30, gage height, 8.39 ft; minimum daily, 225 ft³/s, July 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	317	e275	645	e340	973	239	1330	2890	636	657	1070
2	1310	320	e275	644	e355	1100	239	1300	2380	636	657	1060
3	1300	322	e275	644	e355	1090	241	1300	1930	636	950	1060
4	1300	329	e280	636	e365	1080	244	1290	1540	636	1200	1050
5	1280	331	e280	632	e365	1070	250	1290	1540	636	1190	1050
6	1270	331	e285	631	e365	1070	253	1290	1530	636	1180	1220
7	1250	331	286	627	e365	1060	255	1160	1370	636	1170	1330
8	1240	331	286	627	e490	1060	258	892	731	636	1160	1320
9	1220	331	286	624	e625	1250	258	895	615	422	1150	1310
10	1210	331	286	620	e625	1390	259	892	615	236	1130	1310
11	999	335	292	621	e630	1380	264	897	492	229	e1130	1290
12	720	342	295	619	e630	1360	267	899	361	225	e1130	1270
13	719	347	290	619	e630	1350	269	898	242	444	e1130	1260
14	715	347	286	618	e630	1350	269	900	394	632	e1130	1260
15	608	e300	286	615	e630	1350	270	904	627	632	e1120	1120
16	437	e260	290	615	e635	1350	276	878	627	453	e1110	786
17	314	e260	295	615	e635	1100	278	859	627	253	e1100	1240
18	316	e260	295	615	e640	443	282	863	437	253	e1100	1170
19	316	e260	295	615	e775	350	283	865	239	253	e1100	612
20	316	e265	295	614	e875	288	296	867	358	494	e1100	488
21	316	e265	295	e610	e875	253	323	868	442	666	e1100	1140
22	316	e265	295	e605	e870	253	586	1270	405	666	e1100	1220
23	316	e270	295	e605	e915	261	1090	1950	362	666	e1100	1210
24	316	e270	295	e605	e915	248	1480	2090	362	666	1080	1210
25	316	e270	295	e610	e910	243	1650	2330	362	666	1080	1200
26	316	e275	295	e575	908	240	1650	2320	362	666	1080	1190
27	316	e275	295	e345	906	239	1620	2310	362	794	1080	1180
28	316	e275	498	e345	900	239	1450	2110	362	881	1070	1180
29	316	e275	645	e345	---	239	1370	1710	503	874	1070	1160
30	316	e275	645	e345	---	239	1370	2200	636	734	1070	1150
31	316	---	645	e355	---	239	---	3180	---	659	1070	---
TOTAL	21636	8965	10231	17841	18159	24157	17839	42807	23703	17552	33494	34116
MEAN	698	299	330	576	649	779	595	1381	790	566	1080	1137
MAX	1320	347	645	645	915	1390	1650	3180	2890	881	1200	1330
MIN	314	260	275	345	340	239	239	859	239	225	657	488

CAL YR 1989 TOTAL 269476 MEAN 738 MAX 5280 MIN 203
WTR YR 1990 TOTAL 270500 MEAN 741 MAX 3180 MIN 225

e Estimated

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

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

DRAINAGE AREA.--227 mi².

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

Chemical analyses: Water year 1954.

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 discharges: Dec. 6 to Jan. 7, and Jan. 23 to Feb. 26. Record good except for period of ice effect, Dec. 6 to Jan. 7, and period of no gage-height record, Jan. 23 to Feb. 26, which are fair. 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.--62 years, 393 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,900 ft³/s, May 31, gage height, 5.30 ft; minimum daily discharge, 132 ft³/s, Oct. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	146	150	e148	e156	865	181	416	1860	619	261	497
2	1210	141	150	e148	e156	1060	181	335	1830	618	259	492
3	1180	141	150	e148	e156	1040	181	328	1340	561	326	488
4	1180	143	150	e148	e156	1040	197	328	525	500	370	853
5	1150	142	150	e148	e158	1020	195	329	386	500	368	1190
6	1110	142	e150	e148	e158	1000	194	332	327	499	366	1320
7	1080	143	e150	e148	e158	992	194	329	252	496	366	1410
8	1050	143	e150	148	e158	976	194	329	252	495	366	1370
9	1020	145	e150	148	e358	961	194	329	252	495	366	1310
10	1020	147	e150	148	e262	947	194	329	252	495	363	1280
11	1120	147	e150	148	e263	934	203	335	252	495	367	1250
12	1080	147	e150	148	e263	922	203	334	252	490	372	1210
13	1060	147	e150	148	e259	912	202	334	253	490	370	1150
14	997	146	e150	148	e259	900	203	344	253	490	370	823
15	440	147	e150	148	e259	906	206	340	254	490	512	578
16	184	148	e150	148	e259	903	210	340	255	489	686	580
17	153	148	e150	148	e259	757	210	336	255	490	682	571
18	139	150	e149	148	e259	244	212	340	301	489	677	562
19	134	150	e149	148	e323	167	465	341	345	488	677	554
20	133	150	e149	148	e406	168	633	340	409	385	842	548
21	132	150	e149	148	e410	175	641	340	461	256	1110	543
22	134	150	e149	148	e406	175	816	407	461	256	1090	533
23	137	152	e149	e148	e406	177	948	449	460	256	1070	536
24	136	152	e149	e148	e406	178	942	449	465	256	1300	535
25	135	150	e149	e148	e406	178	938	449	464	260	1460	527
26	135	150	e149	e148	e570	178	935	446	464	261	1430	521
27	135	150	e149	e153	752	178	775	445	463	261	1400	516
28	135	150	e148	e153	748	178	633	444	464	260	1370	513
29	135	150	e148	e153	---	178	631	398	462	259	1340	509
30	135	150	e148	e153	---	178	572	604	540	259	1310	502
31	135	---	e148	e156	---	180	---	1620	---	259	873	---
TOTAL	18014	4417	4632	4616	8789	18667	12483	12819	14809	12917	22719	23271
MEAN	581	147	149	149	314	602	416	414	494	417	733	776
MAX	1210	152	150	156	752	1060	948	1620	1860	619	1460	1410
MIN	132	141	148	148	156	167	181	328	252	256	259	488

CAL YR 1989 TOTAL 153964 MEAN 422 MAX 2280 MIN 120
WTR YR 1990 TOTAL 158153 MEAN 433 MAX 1860 MIN 132

e Estimated

ST. CROIX RIVER BASIN

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

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

DRAINAGE AREA.--1,374 mi².

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

Chemical analyses: Water year 1971.

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: Nov. 3-6, Dec. 2, 3, Dec. 5 to Jan. 3, 6-10, 13-15, 19-22, Feb. 2-9, 20-21, 27, Mar. 1, 6-8, and 9-16. Records good except for periods of ice effect, Dec. 2, 3, Dec. 5 to Jan. 3, 6-10, 13-15, 19-22, Feb. 2-9, 20-21, 27, Mar. 1, and 6-8, and periods of no gage-height record, Nov. 3-6 and Mar. 9-16, which are fair. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity about 25,000,000,000 ft³. Final regulation is at Woodland, 5.6 mi upstream from gage. Telephone and satellite gage-height telemeters at station.

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

AVERAGE DISCHARGE.--31 years (water years 1960-current year), 2,656 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, 10,400 ft³/s, May 31, gage height, 9.85 ft; minimum daily, 901 ft³/s, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2740	1460	1610	e1030	1920	e2880	3660	3660	8750	1050	1090	2290
2	2750	1350	e1630	e1020	e1890	2870	3650	3590	8050	1010	1220	2260
3	2750	e1700	e1420	e1080	e1980	2920	3740	3510	7200	1120	1140	2200
4	2750	e1260	1190	1490	e1950	2950	5290	3240	5870	1230	1710	2250
5	2770	e1010	e1140	2330	e2010	2940	7480	2790	5310	2190	1760	2580
6	2770	e1030	e1150	e2000	e1850	e2920	8270	3010	4280	1220	1620	3110
7	2770	1200	e1090	e1700	e1900	e2920	7260	3190	3330	925	1670	3080
8	2770	1240	e1730	e1430	e2050	e2910	5750	3010	3250	901	1370	2740
9	2760	1910	e2300	e1600	e1970	2560	4280	2640	3230	1040	1640	2630
10	2750	2100	e1600	e1700	2000	e2600	4850	2550	3230	998	1710	2680
11	2780	1710	e1420	2000	2360	e2620	6380	3340	2870	968	1630	2570
12	2790	2470	e1230	2290	2680	e2650	6280	3330	2700	965	2450	2460
13	2780	2330	e1070	e1200	2800	e2700	5320	3260	2630	936	2540	2420
14	2350	1890	e1140	e1090	2780	e2760	5250	4570	2380	942	2750	3180
15	1830	2150	e1230	e1260	2760	e2900	5190	4310	1760	1030	2860	3240
16	1870	2230	e1500	1510	2750	e3100	6020	4410	1660	1080	2840	3350
17	1990	2950	e1530	1370	2770	3260	7310	4310	1410	933	2400	3310
18	2310	2760	e1730	1120	2950	3620	6280	4730	1610	1030	1880	3120
19	2020	2770	e1780	e1080	2990	4580	5200	4550	1590	1260	1790	2240
20	1520	2700	e1580	e1060	e2950	5400	5160	3690	1560	946	1750	2410
21	1820	2560	e1700	e1050	e3040	6690	5150	3280	1400	944	1850	2440
22	1840	2050	e1630	e1040	2960	6970	4590	3360	1550	946	2080	1790
23	1820	1920	e1400	1090	3060	7730	3420	4220	1550	986	1910	2070
24	2000	1950	e1280	1020	3120	7900	3090	5910	1910	915	1730	2100
25	1900	1920	e1910	1210	3040	6580	3440	6110	1720	1510	1730	1760
26	1790	1860	e1620	2400	3060	6470	3850	5990	1690	1800	1640	1670
27	1320	1810	e1100	3010	e2960	5600	3960	5460	1390	1840	2310	1580
28	921	1570	e1000	2120	2910	4140	3880	4650	1470	2020	2500	1590
29	916	1780	e990	1400	---	3590	3790	3560	1340	1910	2720	1780
30	1320	1550	e1010	1890	---	3790	3730	4960	1140	1450	2190	2380
31	1300	---	e1050	1990	---	3890	---	10100	---	986	2240	---
TOTAL	66767	57190	43760	47580	71460	125410	151520	129290	87830	37081	60720	73280
MEAN	2154	1906	1412	1535	2552	4045	5051	4171	2928	1196	1959	2443
MAX	2790	2950	2300	3010	3120	7900	8270	10100	8750	2190	2860	3350
MIN	916	1010	990	1020	1850	2560	3090	2550	1140	901	1090	1580

CAL YR 1989 TOTAL 917572 MEAN 2514 MAX 17800 MIN 853
WTR YR 1990 TOTAL 951888 MEAN 2608 MAX 10100 MIN 901

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.

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, 375 microsiemens, Mar. 6, 1989; 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, 187 microsiemens, Jan. 1; minimum, 43 microsiemens, June 1.

pH: Maximum, 7.5 units, Dec. 31, Jan. 1, 16; minimum, 6.3 units, Nov. 11.

WATER TEMPERATURE: Maximum, 27.0°C, July 18; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.6 mg/L, Dec. 2; minimum, 6.1 mg/L, July 20, 22, 23, 31.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT	10...	1300	2740	55	7.0	9.5	1.3	770	10.3	89	K 7	24
FEB	13...	1500	2800	77	6.7	-5.0	0.5	760	12.3	86	43	31
APR	19...	0830	5220	46	6.8	0.0	5.0	780	12.4	95	51	K 19
AUG	13...	1245	2550	72	6.9	24.0	25.0	760	6.8	83	20	140

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 10...	12	3.8	0.68	5.3	0.6	11	0	9	11	11	6.0	4.8
FEB 13...	16	4.9	0.90	8.8	0.5	13	0	11	12	12	8.0	8.5
APR 19...	11	3.3	0.62	5.0	0.4	8	0	7	8	8.0	5.8	4.8
AUG 13...	14	4.6	0.67	9.0	0.6	14	0	11	13	13	6.4	9.7

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

ST. CROIX RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 10...	0.1	1.6	16	29	<0.10	0.02	0.03	0.4	0.02	<0.01	<0.01
FEB 13...	0.1	4.3	60	43	0.12	0.03	0.04	1.0	0.03	0.02	<0.01
APR 19...	0.1	2.6	36	27	0.10	0.01	0.01	<0.2	0.02	<0.01	<0.01
AUG 13...	<0.1	1.7	53	40	<0.10	0.04	0.05	0.4	0.18	0.02	<0.01

DATE	ALUMINUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 10...	50	<1	4	<0.5	<1	<1	<3	1	95	<1	<4	19
FEB 13...	110	<1	8	<0.5	2	<5	<3	<10	150	<10	<4	41
APR 19...	90	<1	4	0.6	<1	<1	<3	2	84	1	<4	21
AUG 13...	50	<1	7	<0.5	<1	<1	<3	2	110	1	<4	42

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDIMENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDIMENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. # FINER THAN .062 MM (70331)
OCT 10...	<0.1	<10	<1	<1	<1	18	<6	<3	1	7.4	100
FEB 13...	<0.1	<10	<10	<1	<1	25	<6	9	1	7.6	83
APR 19...	<0.1	<10	1	<1	<1	14	<6	<3	6	85	80
AUG 13...	<0.1	<10	<1	<1	<1	24	<6	<3	7	48	86

ST. CROIX RIVER BASIN

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

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SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	74	64	70	---	---	---	109	102	105	187	154	167
2	77	74	76	---	---	---	119	109	115	169	154	161
3	81	78	80	---	---	---	114	104	110	168	151	158
4	82	77	80	---	---	---	135	107	124	162	155	158
5	80	77	78	---	---	---	138	121	128	144	57	78
6	78	77	78	---	---	---	138	132	134	61	57	59
7	77	75	76	137	122	129	130	65	98	59	57	58
8	77	75	76	129	123	126	82	63	72	62	59	61
9	76	73	75	134	99	119	137	81	110	65	60	63
10	71	57	60	109	87	95	127	108	117	60	59	59
11	73	59	65	108	85	94	127	122	124	63	59	61
12	78	74	77	104	83	92	125	110	118	58	53	55
13	78	69	76	82	78	79	141	102	116	124	54	82
14	72	68	69	94	76	85	140	125	137	153	125	137
15	89	73	83	98	83	92	141	107	123	156	146	151
16	94	88	90	96	82	90	148	136	142	181	150	163
17	101	96	99	90	78	81	143	109	118	154	129	137
18	101	84	92	79	77	79	138	108	125	150	132	143
19	89	82	86	79	76	77	153	111	135	156	149	152
20	109	88	96	76	72	74	143	96	114	163	149	155
21	113	100	107	80	73	77	147	108	121	158	150	152
22	103	99	101	76	72	74	119	102	111	153	147	149
23	100	97	98	92	78	86	140	102	119	163	145	149
24	102	95	99	87	84	85	137	112	121	155	144	148
25	95	89	91	87	85	86	140	130	134	155	149	152
26	98	93	96	90	87	89	130	117	121	147	87	120
27	98	92	95	94	89	91	144	120	136	88	76	80
28	126	94	109	102	89	94	153	135	145	80	74	76
29	137	127	132	97	94	96	157	150	153	91	82	88
30	144	134	138	108	92	98	159	152	156	113	91	104
31	137	106	115	---	---	---	159	155	158	97	93	95
MONTH	144	57	89	137	72	91	159	63	124	187	53	115

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	106	91	97	80	77	79	68	65	66	76	71	75
2	96	75	88	79	76	77	70	69	69	76	74	75
3	102	91	96	80	77	78	71	70	70	75	74	75
4	92	90	91	77	74	76	71	56	69	78	74	76
5	97	91	94	77	73	75	55	51	54	82	78	79
6	98	92	95	78	74	76	51	47	49	88	79	85
7	100	96	98	77	72	75	49	46	47	79	77	78
8	98	84	94	76	72	74	53	49	50	79	77	78
9	89	81	84	79	73	76	56	53	54	87	78	83
10	101	90	95	82	79	81	57	49	55	92	78	83
11	101	89	94	83	75	79	52	48	50	96	77	86
12	88	81	84	78	76	77	51	48	49	77	75	76
13	83	79	81	78	75	77	53	51	53	80	76	78
14	83	79	81	77	75	76	54	53	53	77	64	72
15	82	79	80	84	75	79	54	53	54	68	63	64
16	84	81	83	77	74	76	55	49	54	68	64	67
17	86	81	83	74	72	73	49	48	48	67	64	66
18	90	79	85	72	69	71	52	47	49	69	64	67
19	82	79	81	69	60	66	55	53	54	68	63	64
20	84	79	81	60	58	59	55	55	55	75	68	69
21	86	77	81	58	53	56	57	55	56	77	73	76
22	80	75	78	53	50	52	60	56	57	73	70	71
23	78	76	77	50	47	49	69	61	66	---	---	---
24	77	74	76	48	45	46	69	63	65	---	---	---
25	76	74	75	49	48	49	63	58	60	---	---	---
26	79	74	76	51	49	50	59	57	58	55	53	54
27	78	75	76	57	51	52	57	55	56	58	54	55
28	78	77	77	63	57	60	59	53	55	63	58	59
29	---	---	---	67	63	65	69	60	65	72	63	66
30	---	---	---	68	65	67	71	69	70	---	---	---
31	---	---	---	65	64	65	---	---	---	---	---	---
MONTH	106	74	85	84	45	68	71	46	57	96	53	72

ST. CROIX RIVER BASIN

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	46	43	44	129	114	124	146	123	135	84	79	82
2	47	46	46	132	128	130	145	117	129	85	78	81
3	51	46	47	---	---	---	127	116	123	84	81	83
4	54	51	52	---	---	---	132	103	121	87	84	85
5	56	53	54	120	85	103	103	93	96	85	80	83
6	61	57	58	92	80	83	107	95	100	79	72	75
7	69	62	67	132	84	118	103	100	101	73	71	72
8	68	64	65	145	133	139	109	98	101	79	72	77
9	66	64	65	149	140	145	123	108	114	84	79	81
10	66	65	65	146	129	133	108	99	102	84	80	82
11	69	64	66	146	130	139	102	98	100	84	80	82
12	73	70	72	146	138	142	105	86	100	90	81	85
13	78	70	73	148	139	143	83	77	79	89	81	84
14	77	73	75	152	143	147	84	76	80	84	72	78
15	92	73	85	151	142	147	76	73	74	72	69	71
16	98	81	89	144	125	135	74	73	74	73	69	71
17	108	95	99	144	124	133	81	72	75	69	65	67
18	112	106	110	150	141	145	86	74	80	71	68	69
19	109	98	101	143	130	138	98	85	91	88	71	80
20	115	99	105	---	---	---	94	89	91	92	85	88
21	102	91	97	---	---	---	94	91	92	89	84	86
22	118	105	111	---	---	---	93	83	86	101	84	91
23	107	104	106	---	---	---	84	81	83	105	98	102
24	107	91	103	148	140	144	93	85	90	97	86	95
25	103	86	93	145	135	144	94	90	92	83	62	69
26	99	83	89	130	89	99	96	92	94	59	47	50
27	99	85	90	100	91	95	99	80	95	50	45	46
28	110	100	106	94	88	92	84	75	76	50	47	48
29	107	99	103	89	85	87	84	74	77	48	46	47
30	114	107	111	91	88	90	86	72	76	73	47	64
31	---	---	---	122	89	109	92	83	86	---	---	---
MONTH	118	43	82	152	80	124	146	72	94	105	45	76
YEAR	187	43	90									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.3	6.9	7.1	---	---	---	6.7	6.7	6.7	7.5	7.4	7.5
2	7.3	7.1	7.2	---	---	---	6.7	6.7	6.7	7.4	7.3	7.4
3	7.3	7.2	7.2	---	---	---	6.7	6.6	6.7	7.4	7.3	7.4
4	7.2	7.0	7.1	---	---	---	6.8	6.6	6.7	7.4	7.2	7.3
5	7.1	7.0	7.0	---	---	---	6.8	6.7	6.8	7.4	6.9	7.1
6	7.2	7.0	7.1	---	---	---	6.8	6.7	6.8	6.9	6.8	6.8
7	7.2	7.1	7.2	6.6	6.6	6.6	6.8	6.5	6.7	6.9	6.8	6.8
8	7.2	7.0	7.1	6.6	6.6	6.6	6.6	6.4	6.6	6.9	6.8	6.9
9	7.1	7.0	7.0	6.7	6.5	6.6	6.8	6.5	6.7	6.9	6.9	6.9
10	7.0	6.9	6.9	6.6	6.4	6.5	6.8	6.7	6.7	6.9	6.7	6.8
11	7.0	6.8	6.9	6.5	6.3	6.4	6.9	6.8	6.8	6.9	6.8	6.8
12	7.1	6.8	6.9	6.6	6.5	6.6	6.9	6.8	6.8	6.9	6.8	6.9
13	7.1	6.9	7.0	6.7	6.5	6.5	6.9	6.7	6.8	7.2	6.8	6.9
14	6.9	6.7	6.8	6.7	6.6	6.7	6.9	6.8	6.9	7.2	7.1	7.1
15	7.1	6.7	6.9	6.7	6.7	6.7	6.9	6.7	6.8	7.3	7.1	7.2
16	7.1	7.0	7.0	6.8	6.6	6.7	7.0	6.9	7.0	7.5	7.2	7.4
17	7.1	6.9	6.9	6.7	6.5	6.6	7.0	6.9	6.9	7.4	7.2	7.3
18	6.9	6.8	6.9	6.7	6.6	6.6	7.0	6.9	6.9	7.3	7.2	7.3
19	7.1	6.8	6.9	6.7	6.6	6.7	7.1	6.9	7.0	7.3	7.2	7.3
20	7.2	7.0	7.1	6.7	6.6	6.7	7.0	6.7	6.8	7.3	7.2	7.2
21	7.2	7.1	7.2	6.7	6.6	6.7	7.0	6.9	7.0	7.3	7.1	7.2
22	7.0	6.8	6.9	6.7	6.6	6.7	7.1	6.8	7.0	7.2	7.1	7.2
23	7.0	6.8	6.9	6.8	6.7	6.7	7.0	6.8	6.9	7.2	7.2	7.2
24	7.1	6.8	7.0	6.8	6.7	6.8	7.2	6.9	7.0	7.3	7.2	7.3
25	7.1	6.9	7.0	6.8	6.7	6.8	7.2	7.2	7.2	7.3	7.3	7.3
26	7.1	6.9	7.0	6.9	6.8	6.8	7.3	7.2	7.2	7.3	7.0	7.2
27	7.0	6.9	7.0	6.8	6.8	6.8	7.3	7.0	7.2	7.0	6.7	6.9
28	7.1	7.0	7.0	6.8	6.7	6.8	7.3	7.0	7.1	6.8	6.7	6.7
29	7.1	7.0	7.0	6.9	6.7	6.8	7.3	7.1	7.2	6.9	6.7	6.8
30	7.1	7.0	7.0	6.7	6.6	6.7	7.3	7.0	7.2	7.0	6.8	6.9
31	7.1	6.8	7.0	---	---	---	7.5	7.3	7.4	6.8	6.8	6.8
MONTH	7.3	6.7	7.0	6.9	6.3	6.7	7.5	6.4	6.9	7.5	6.7	7.1

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

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.0	6.8	6.9	6.7	6.6	6.7	6.6	6.6	6.6	7.0	6.9	7.0
2	7.1	6.9	7.0	6.7	6.7	6.7	6.6	6.6	6.6	7.0	6.8	7.0
3	7.0	6.9	6.9	6.7	6.7	6.7	6.6	6.6	6.6	7.0	6.9	7.0
4	6.9	6.8	6.9	6.7	6.7	6.7	6.7	6.6	6.6	7.0	6.9	7.0
5	6.9	6.8	6.9	6.7	6.7	6.7	6.6	6.6	6.6	7.0	6.9	7.0
6	6.9	6.8	6.9	6.7	6.7	6.7	6.6	6.5	6.6	7.1	7.0	7.0
7	7.0	6.9	6.9	6.7	6.7	6.7	6.5	6.5	6.5	7.0	7.0	7.0
8	7.0	6.8	6.9	6.7	6.7	6.7	6.6	6.5	6.5	7.0	6.9	7.0
9	6.9	6.8	6.8	6.8	6.6	6.7	6.7	6.6	6.7	7.0	6.9	7.0
10	6.9	6.9	6.9	6.6	6.6	6.6	6.7	6.7	6.7	7.1	6.9	7.0
11	6.9	6.8	6.9	6.6	6.6	6.6	6.7	6.7	6.7	7.0	6.9	7.0
12	6.8	6.8	6.8	6.6	6.6	6.6	6.7	6.7	6.7	7.0	6.9	6.9
13	6.8	6.7	6.7	6.6	6.6	6.6	6.8	6.7	6.8	6.9	6.9	6.9
14	6.7	6.7	6.7	6.6	6.6	6.6	6.8	6.8	6.8	6.9	6.8	6.9
15	6.7	6.7	6.7	6.7	6.6	6.6	6.8	6.8	6.8	6.8	6.7	6.8
16	6.7	6.7	6.7	6.6	6.6	6.6	6.8	6.8	6.8	6.8	6.7	6.8
17	6.8	6.7	6.7	6.6	6.6	6.6	6.8	6.7	6.7	6.8	6.7	6.8
18	6.7	6.7	6.7	6.6	6.6	6.6	6.8	6.7	6.8	6.8	6.7	6.8
19	6.7	6.7	6.7	6.7	6.5	6.6	6.9	6.8	6.9	6.7	6.7	6.7
20	6.7	6.7	6.7	6.6	6.6	6.6	6.9	6.9	6.9	6.7	6.7	6.7
21	6.7	6.6	6.7	6.6	6.5	6.6	6.9	6.9	6.9	6.8	6.7	6.8
22	6.7	6.7	6.7	6.5	6.5	6.5	6.9	6.9	6.9	6.8	6.8	6.8
23	6.7	6.7	6.7	6.5	6.5	6.5	7.0	6.8	6.9	6.9	6.8	6.8
24	6.7	6.7	6.7	6.5	6.5	6.5	6.9	6.9	6.9	6.8	6.8	6.8
25	6.7	6.6	6.7	6.5	6.5	6.5	6.9	6.9	6.9	6.9	6.8	6.8
26	6.7	6.6	6.7	6.6	6.5	6.5	6.9	6.9	6.9	6.8	6.8	6.8
27	6.7	6.6	6.6	6.6	6.5	6.6	6.9	6.8	6.9	6.8	6.7	6.8
28	6.7	6.7	6.7	6.6	6.6	6.6	6.9	6.8	6.9	6.8	6.7	6.8
29	---	---	---	6.6	6.6	6.6	7.0	6.9	6.9	6.8	6.7	6.8
30	---	---	---	6.6	6.6	6.6	7.0	6.9	7.0	6.9	6.8	6.8
31	---	---	---	6.6	6.6	6.6	---	---	---	6.8	6.7	6.7
MONTH	7.1	6.6	6.8	6.8	6.5	6.6	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	6.7	6.7	6.7	6.8	6.8	6.8	7.0	6.8	6.9	6.8	6.7	6.7
2	6.7	6.6	6.7	6.9	6.8	6.8	7.0	6.9	7.0	6.8	6.7	6.7
3	6.6	6.6	6.6	6.9	6.9	6.9	7.0	6.9	7.0	6.8	6.7	6.7
4	6.6	6.6	6.6	6.9	6.8	6.9	7.0	6.9	6.9	6.8	6.7	6.8
5	6.7	6.6	6.6	6.8	6.8	6.8	6.9	6.8	6.9	6.8	6.7	6.7
6	6.7	6.6	6.6	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.7
7	6.7	6.6	6.7	6.9	6.8	6.8	6.9	6.8	6.8	6.7	6.6	6.7
8	6.7	6.6	6.7	6.9	6.8	6.9	7.0	6.9	6.9	6.8	6.6	6.7
9	6.7	6.7	6.7	6.9	6.8	6.9	7.1	6.9	7.0	6.8	6.7	6.7
10	6.7	6.7	6.7	6.9	6.8	6.8	7.1	6.9	7.0	6.8	6.7	6.8
11	6.7	6.7	6.7	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.8
12	6.8	6.7	6.7	6.9	6.8	6.9	7.0	6.9	7.0	6.8	6.8	6.8
13	6.8	6.7	6.7	6.9	6.8	6.8	6.9	6.6	6.8	6.9	6.8	6.8
14	6.8	6.7	6.8	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.8	6.8
15	6.8	6.7	6.8	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.8
16	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8	6.8	6.7	6.8
17	6.8	6.7	6.8	6.9	6.8	6.8	6.9	6.7	6.8	6.8	6.7	6.8
18	6.8	6.8	6.8	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.8
19	6.8	6.7	6.7	6.9	6.8	6.9	7.0	6.8	6.9	6.9	6.7	6.8
20	6.8	6.7	6.7	6.9	6.7	6.8	7.0	6.8	6.9	6.9	6.9	6.9
21	6.8	6.7	6.7	6.9	6.8	6.8	7.0	6.8	6.9	6.9	6.8	6.9
22	6.8	6.7	6.8	6.9	6.8	6.8	7.0	6.8	6.9	6.9	6.8	6.8
23	6.8	6.7	6.8	6.9	6.8	6.8	7.0	6.8	6.9	6.9	6.8	6.9
24	6.8	6.7	6.8	6.8	6.8	6.8	7.0	6.8	6.9	6.8	6.8	6.8
25	6.8	6.7	6.7	6.9	6.8	6.8	7.0	6.8	6.9	6.8	6.6	6.7
26	6.8	6.7	6.7	6.8	6.7	6.7	6.9	6.8	6.8	6.7	6.6	6.6
27	6.8	6.7	6.7	6.7	6.7	6.7	6.9	6.8	6.9	6.6	6.6	6.6
28	6.9	6.8	6.8	6.9	6.7	6.8	6.8	6.7	6.7	6.6	6.6	6.6
29	6.8	6.8	6.8	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.6	6.6
30	6.8	6.8	6.8	6.9	6.8	6.8	6.8	6.6	6.7	6.7	6.6	6.7
31	---	---	---	6.9	6.8	6.8	6.8	6.7	6.8	---	---	---
MONTH	6.9	6.6	6.7	6.9	6.7	6.8	7.1	6.6	6.9	6.9	6.6	6.7
YEAR	7.5	6.3	6.8									

ST. CROIX RIVER BASIN

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	14.0	12.5	13.0	---	---	---	.5	.5	.5	.5	.5	.5
2	14.5	12.5	13.5	---	---	---	.5	.5	.5	.5	.5	.5
3	14.5	13.5	14.0	---	---	---	.5	.5	.5	.5	.5	.5
4	13.5	12.0	12.5	---	---	---	.5	.5	.5	.5	.5	.5
5	12.0	11.5	11.5	---	---	---	.5	.5	.5	.5	.5	.5
6	11.5	11.0	11.0	---	---	---	.5	.5	.5	.5	.5	.5
7	11.5	11.0	11.5	8.5	8.0	8.5	.5	.5	.5	.5	.5	.5
8	11.0	10.5	11.0	8.5	8.0	8.0	.5	.0	.5	.5	.5	.5
9	11.0	10.0	10.5	9.5	8.0	8.5	.5	.0	.0	.5	.5	.5
10	10.0	9.0	9.5	9.5	9.0	9.5	.5	.0	.5	.5	.5	.5
11	10.0	9.5	9.5	8.5	8.0	8.5	.5	.5	.5	.5	.5	.5
12	10.5	9.0	9.5	8.5	6.5	8.0	.5	.5	.5	.5	.5	.5
13	10.5	9.5	10.0	6.5	5.5	6.0	.5	.0	.5	.5	.5	.5
14	10.5	9.0	10.0	6.5	5.5	6.0	.5	.0	.5	.5	.0	.5
15	10.5	9.0	9.5	7.5	6.0	6.5	.5	.0	.5	.5	.0	.5
16	10.5	10.0	10.0	9.5	7.5	8.5	.5	.0	.5	.5	.5	.5
17	10.5	9.5	10.0	9.5	7.5	8.5	.5	.5	.5	.5	.5	.5
18	9.5	8.5	9.0	7.5	7.0	7.0	.5	.5	.5	.5	.5	.5
19	9.0	8.0	8.5	7.0	5.0	6.0	.5	.5	.5	.5	.5	.5
20	9.0	8.5	8.5	5.0	5.0	5.0	.5	.0	.5	.5	.5	.5
21	11.0	9.0	10.0	5.0	2.0	3.5	.5	.0	.0	.5	.5	.5
22	10.0	8.5	9.0	2.0	1.0	1.5	.0	.0	.0	.5	.0	.5
23	9.0	8.0	9.0	1.0	1.0	1.0	.0	.0	.0	.5	.5	.5
24	9.5	8.5	9.0	1.0	.5	.5	.0	.0	.0	.5	.5	.5
25	10.0	8.5	9.5	1.0	.5	.5	.5	.0	.0	.5	.5	.5
26	10.0	9.0	9.5	1.0	1.0	1.0	.5	.5	.5	1.0	.5	1.0
27	10.0	9.5	10.0	1.0	.5	1.0	.5	.0	.5	1.0	.5	.5
28	11.0	10.0	10.5	1.0	.5	.5	.5	.0	.0	1.0	.5	.5
29	11.5	10.5	11.0	1.0	.5	.5	.5	.0	.0	1.0	.5	.5
30	11.5	10.5	11.0	.5	.5	.5	.0	.0	.0	.5	.5	.5
31	11.0	10.5	10.5	---	---	---	.5	.0	.5	.5	.5	.5
MONTH	14.5	8.0	10.5	9.5	.5	5.0	.5	.0	.5	1.0	.0	.5

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

ST. CROIX RIVER BASIN

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

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WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	9.5	9.3	9.4	---	---	---	13.5	13.1	13.3	11.4	11.2	11.3
2	9.4	9.2	9.3	---	---	---	13.6	13.4	13.5	11.6	10.9	11.3
3	9.1	8.9	9.0	---	---	---	13.4	12.4	13.1	11.5	11.1	11.4
4	9.6	9.0	9.4	---	---	---	12.8	12.2	12.4	11.7	11.5	11.6
5	9.8	9.4	9.6	---	---	---	13.0	12.6	12.8	11.9	11.4	11.6
6	9.8	9.6	9.7	---	---	---	13.0	12.4	12.9	12.2	11.8	12.1
7	9.8	9.6	9.7	10.7	10.3	10.5	12.7	12.1	12.3	12.3	12.0	12.1
8	10.1	9.7	9.9	10.5	10.3	10.4	13.3	12.6	13.0	12.0	11.7	11.9
9	10.4	10.0	10.2	10.5	10.1	10.3	13.2	13.0	13.1	11.9	11.7	11.8
10	10.5	10.3	10.4	10.2	9.8	10.0	13.2	13.0	13.2	11.7	11.5	11.6
11	10.3	10.2	10.3	10.3	9.9	10.0	13.2	12.7	13.0	12.2	11.5	11.8
12	10.3	10.1	10.2	10.9	10.2	10.5	13.1	12.6	12.9	12.0	11.2	11.6
13	10.2	10.1	10.2	11.3	10.9	11.1	13.1	12.9	13.0	12.1	11.1	11.4
14	10.3	10.1	10.2	11.2	11.0	11.1	13.1	12.9	13.0	12.8	12.2	12.5
15	10.2	10.1	10.1	11.1	10.9	11.0	13.0	12.7	12.9	13.0	12.7	12.9
16	10.2	9.9	10.0	11.0	10.7	10.8	13.0	12.4	12.8	12.8	12.0	12.4
17	10.2	9.8	9.9	10.9	10.6	10.8	12.4	12.0	12.2	12.0	11.6	11.8
18	10.6	10.2	10.4	11.0	10.7	10.9	12.2	12.0	12.1	11.7	11.5	11.6
19	10.7	10.5	10.6	11.4	10.8	11.1	12.4	12.0	12.2	12.8	11.5	11.9
20	10.6	10.3	10.4	11.4	11.3	11.4	12.5	12.0	12.2	12.9	12.4	12.8
21	10.3	9.9	10.1	12.5	11.3	11.7	12.7	12.3	12.5	12.6	12.2	12.4
22	10.6	10.1	10.2	13.1	12.7	13.0	12.6	12.4	12.5	12.8	12.5	12.7
23	10.7	10.5	10.6	13.4	13.1	13.2	12.7	12.4	12.5	12.7	11.6	12.1
24	10.6	10.5	10.6	13.4	13.3	13.3	12.7	12.4	12.6	11.9	11.7	11.8
25	10.6	10.4	10.5	13.5	13.0	13.4	12.5	12.2	12.4	11.9	11.8	11.8
26	10.4	10.2	10.3	13.0	12.7	12.8	12.2	11.1	11.5	12.5	11.8	12.0
27	10.4	10.1	10.2	12.9	12.6	12.8	12.0	11.1	11.4	12.1	11.7	11.9
28	10.1	9.4	9.9	13.0	12.6	12.8	12.3	12.0	12.2	11.7	11.3	11.5
29	9.7	9.3	9.5	13.5	12.6	13.0	12.4	12.3	12.3	11.5	11.3	11.4
30	9.7	9.4	9.5	13.3	13.0	13.2	12.5	12.4	12.4	12.9	11.4	12.0
31	9.8	9.6	9.7	---	---	---	12.4	11.4	12.1	12.7	11.7	12.1
MONTH	10.7	8.9	10.0	13.5	9.8	11.6	13.6	11.1	12.6	13.0	10.9	11.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	12.0	11.6	11.8	12.8	12.2	12.5	12.2	12.1	12.2	9.7	9.5	9.6
2	12.7	11.7	11.9	12.2	12.1	12.2	12.1	12.0	12.1	9.7	9.3	9.5
3	12.8	12.6	12.7	12.3	12.1	12.2	12.4	12.0	12.1	9.7	9.4	9.5
4	12.8	12.6	12.7	12.6	12.2	12.4	12.5	12.2	12.3	9.7	9.5	9.5
5	12.7	12.6	12.7	12.9	12.6	12.8	12.6	12.4	12.5	9.5	9.3	9.4
6	12.6	11.9	12.4	13.2	12.9	13.0	12.7	12.6	12.7	9.7	9.4	9.6
7	12.3	11.6	12.0	13.2	13.0	13.1	12.8	12.7	12.8	9.8	9.6	9.7
8	11.8	11.6	11.7	13.2	12.7	13.0	12.9	12.7	12.8	9.9	9.5	9.7
9	11.8	11.6	11.7	12.9	12.2	12.6	12.8	12.2	12.6	9.8	9.5	9.6
10	11.8	11.6	11.7	12.5	12.2	12.3	12.5	12.2	12.3	9.5	9.2	9.3
11	11.8	11.5	11.7	12.2	11.7	12.0	12.4	12.2	12.3	9.3	9.1	9.3
12	11.8	11.6	11.7	12.1	11.7	11.9	12.5	12.3	12.4	9.7	9.1	9.4
13	12.4	11.8	12.2	11.8	11.7	11.8	12.5	12.3	12.4	9.5	9.2	9.4
14	12.1	11.8	11.9	12.0	11.8	11.9	12.5	12.4	12.4	9.7	8.7	9.5
15	12.6	11.9	12.3	12.0	11.9	12.0	12.4	12.2	12.3	9.6	9.3	9.5
16	12.2	11.8	12.0	12.0	11.9	12.0	12.2	12.1	12.1	9.6	9.2	9.4
17	12.3	11.8	12.0	11.9	11.6	11.8	12.1	12.0	12.0	9.5	9.3	9.4
18	13.0	12.3	12.8	11.8	11.5	11.7	12.2	12.0	12.1	9.5	8.7	9.1
19	12.8	11.9	12.5	12.2	11.8	12.0	12.6	12.0	12.3	8.7	8.6	8.7
20	13.2	12.0	12.7	12.2	12.1	12.2	12.4	12.2	12.4	9.0	8.6	8.9
21	13.1	12.6	12.9	12.4	12.1	12.3	12.3	12.1	12.2	9.2	8.9	9.1
22	12.7	12.0	12.4	12.5	12.3	12.4	12.2	11.6	12.0	9.4	9.0	9.2
23	12.0	11.9	12.0	12.7	12.4	12.5	11.5	10.4	10.7	9.8	9.3	9.5
24	12.6	12.0	12.3	13.0	12.7	12.8	10.6	10.3	10.4	10.1	9.8	9.9
25	12.9	12.5	12.7	12.9	12.6	12.8	10.6	10.3	10.4	10.5	10.0	10.3
26	13.2	12.9	13.1	12.7	12.4	12.6	10.4	10.1	10.3	10.3	9.9	10.2
27	13.2	12.5	13.0	12.9	12.6	12.7	10.2	9.7	10.0	9.9	9.4	9.7
28	12.4	12.1	12.2	12.8	12.3	12.6	9.8	9.6	9.7	9.4	8.9	9.2
29	---	---	---	12.7	12.4	12.6	9.8	9.5	9.6	8.9	8.6	8.8
30	---	---	---	12.5	12.4	12.5	9.9	9.6	9.7	9.0	8.5	8.7
31	---	---	---	12.5	12.3	12.4	---	---	---	9.4	8.2	8.7
MONTH	13.2	11.5	12.3	13.2	11.5	12.4	12.9	9.5	11.7	10.5	8.2	9.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	9.5	9.3	9.4	7.3	6.8	6.9	6.5	6.3	6.4	7.4	6.6	6.9
2	9.3	9.1	9.3	7.2	7.0	7.1	7.3	6.5				

DENNY'S RIVER BASIN

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01021200 DENNY'S RIVER AT DENNYVILLE, ME

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

DRAINAGE AREA.--92.9 mi².

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

Water temperatures: October 1958 to September 1972.

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

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

REMARKS.--Estimated daily discharges: Nov. 22-28, Nov. 30 to Jan. 17, Jan. 31 to Feb. 9, Feb. 16-23, Feb. 25 to Mar. 2, and Mar. 5-9. Records good except for periods of ice effect, Nov. 22-28, Nov. 30 to Jan. 17, Jan. 31 to Feb. 9, Feb. 16-23, Feb. 25 to Mar. 2, and Mar. 5-9, which are fair. Flow slightly regulated by dam at outlet of Meddybumps Lake, 14 mi upstream. Several observations of water temperature and specific conductance were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--35 years, 192 ft³/s, 28.07 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)
Jan. 27	0600	892	4.33	May 30	2300	948	4.50
Apr. 4	2300	*975	4.58	July 26	1000	847	4.19
Apr. 11	2000	892	4.33				

Minimum discharge, 27 ft³/s, Sept. 14, gage height 0.61 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	259	e98	e46	e321	e170	208	235	612	163	144	65
2	99	376	e79	e70	e304	e175	247	234	426	156	144	65
3	110	265	e71	e99	e267	178	278	194	318	147	114	71
4	119	253	e66	e90	e234	173	631	168	273	142	100	67
5	101	224	e64	e83	e221	e162	868	168	254	137	94	64
6	82	168	e62	e92	e216	e146	630	220	234	132	88	64
7	76	149	e58	e83	e212	e140	439	213	220	130	86	64
8	73	131	e56	e76	e210	e136	339	190	216	128	84	72
9	70	222	e54	e70	e208	e142	286	162	202	126	90	67
10	67	489	e52	e68	259	146	263	145	198	126	88	65
11	67	363	e51	e73	348	160	655	244	196	123	87	57
12	78	252	e50	e82	336	198	750	320	188	120	247	39
13	82	182	e48	e88	291	225	521	269	177	118	232	32
14	78	151	e47	e75	262	226	374	639	164	116	168	28
15	74	150	e46	e67	238	302	354	585	166	114	144	61
16	71	203	e45	e64	e214	391	470	458	162	113	118	341
17	72	311	e44	e70	e194	413	482	368	159	99	101	246
18	81	278	e43	178	e175	648	494	437	155	88	91	152
19	83	207	e43	216	e164	695	428	496	153	86	88	115
20	80	158	e42	209	e147	555	367	458	155	85	83	155
21	221	140	e41	190	e122	685	358	390	154	85	79	247
22	296	e109	e41	173	e150	649	387	378	152	84	76	185
23	207	e97	e40	168	e220	559	356	460	152	86	74	358
24	155	e87	e39	164	293	517	326	543	257	89	72	433
25	126	e81	e39	173	e240	412	300	494	284	228	72	288
26	109	e78	e38	396	e210	340	283	399	229	675	70	200
27	99	e75	e38	858	e196	296	271	342	189	397	69	156
28	93	e81	e38	754	e185	252	262	308	172	235	69	132
29	88	134	e37	610	---	224	250	287	159	163	69	118
30	83	e121	e37	446	---	203	241	595	166	126	68	111
31	80	---	e37	e355	---	202	---	838	---	108	66	---
TOTAL	3223	5794	1544	6186	6437	9720	12118	11237	6542	4725	3175	4118
MEAN	104	193	49.8	200	230	314	404	362	218	152	102	137
MAX	296	489	98	858	348	695	868	838	612	675	247	433
MIN	67	75	37	46	122	136	208	145	152	84	66	28
CFSM	1.12	2.08	.54	2.15	2.47	3.38	4.35	3.90	2.35	1.64	1.10	1.48
IN.	1.29	2.32	.62	2.48	2.58	3.89	4.85	4.50	2.62	1.89	1.27	1.65

CAL YR 1989 TOTAL 61164 MEAN 168 MAX 1400 MIN 37 CFMS 1.80 IN. 24.49
WTR YR 1990 TOTAL 74819 MEAN 205 MAX 868 MIN 28 CFMS 2.21 IN. 29.96

e Estimated

PLEASANT RIVER BASIN

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 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: Nov. 22-25, Nov. 27 to Jan. 24, Jan. 30 to Feb. 9, Feb. 11-22, and Feb. 24 to Mar. 10. Records good except for periods of ice-effect, Nov. 22-25, Nov. 27 to Jan. 24, Jan. 30 to Feb. 9, Feb. 11-22, and Feb. 24 to Mar. 10, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--10 years, 140 ft³/s, 31.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft³/s, May 13, 1989, gage height, 10.77 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)
Jan. 2	1200	(ice jam)	*8.91	Mar. 23	1130	*536	8.27
Jan. 29	1600	444	7.93	Apr. 13	1145	531	8.25

Minimum discharge 26 ft³/s, Sept. 5-7, gage height 5.18 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	131	e128	e70	e275	e120	181	143	311	116	56	30
2	42	215	e112	e118	e246	e111	196	137	351	123	59	29
3	54	246	e98	e95	e231	e112	207	129	310	113	58	28
4	70	252	e91	e86	e219	e127	249	121	248	96	50	28
5	62	233	e83	e78	e203	e120	317	115	203	86	44	26
6	55	212	e77	e77	e190	e108	406	135	170	77	43	26
7	52	185	e74	e73	e176	e97	414	150	148	69	43	26
8	49	161	e71	e67	e165	e93	367	142	136	65	40	27
9	46	166	e68	e64	e157	e92	315	129	123	61	41	29
10	49	216	e66	e62	175	e94	270	118	117	60	42	29
11	51	245	e63	e63	e202	103	299	152	131	58	42	30
12	79	256	e62	e66	e222	125	383	214	145	52	56	30
13	93	235	e60	e71	e220	154	516	253	128	48	84	31
14	81	200	e58	e74	e188	163	469	309	107	45	82	32
15	69	170	e57	e62	e172	169	400	358	96	45	80	38
16	62	163	e56	e57	e157	195	378	415	91	43	76	67
17	59	172	e55	e56	e142	218	397	373	85	43	66	67
18	67	183	e54	e108	e140	257	434	321	80	42	57	51
19	73	185	e53	e138	e136	308	419	292	76	38	54	42
20	69	172	e52	e135	e127	377	383	297	78	36	53	42
21	109	157	e51	e127	e120	402	337	292	79	40	49	54
22	183	e122	e50	e116	e112	400	306	279	77	43	44	54
23	207	e142	e49	e106	145	522	291	259	75	41	42	89
24	188	e132	e48	e104	e168	470	271	248	122	53	39	151
25	152	e121	e48	109	e162	425	242	239	171	65	36	144
26	122	115	e47	211	e150	378	216	226	172	117	35	102
27	104	e111	e46	336	e140	320	200	200	135	126	33	80
28	93	e109	e46	347	e130	272	187	173	106	99	31	67
29	84	e140	e45	428	---	233	172	149	92	77	31	60
30	78	e135	e44	e386	---	201	155	179	97	63	30	58
31	73	---	e44	e322	---	183	---	242	---	58	30	---
TOTAL	2619	5282	1956	4212	4870	6949	9377	6789	4260	2098	1526	1567
MEAN	84.5	176	63.1	136	174	224	313	219	142	67.7	49.2	52.2
MAX	207	256	128	428	275	522	516	415	351	126	84	151
MIN	42	109	44	56	112	92	155	115	75	36	30	26
CFSM	1.39	2.91	1.04	2.24	2.87	3.70	5.16	3.61	2.34	1.12	.81	.86
IN.	1.61	3.24	1.20	2.59	2.99	4.27	5.76	4.17	2.62	1.29	.94	.96

CAL YR 1989 TOTAL 49998 MEAN 137 MAX 1210 MIN 32 CFSM 2.26 IN. 30.69
WTR YR 1990 TOTAL 51505 MEAN 141 MAX 522 MIN 26 CFSM 2.33 IN. 31.62

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.--0.042 mi². Furnished by U.S. Environmental Protection Agency.

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

REVISED RECORD.--WDR ME-89-1: Drainage area.

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: Nov. 21-27, Apr. 25, June 27-28, July 23, Aug. 1, 11, Sept. 7-8, and 15. Records excellent except for flows between 0.10 ft³/s and 0.010 ft³/s which are good, and for flows below 0.010 ft³/s, periods of missing gage-height record, Nov. 21-27, Apr. 25, June 27-28, and periods of doubtful stage-discharge relationship, July 23, Aug. 1, 11, Sept. 7-8, and 15, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9.91 ft³/s, Mar. 27, 1988, gage height, 6.39 ft; no flow for several days in 1988-90.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2.2 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	0855	2.65	5.82	Apr. 11	0805	2.26	5.77
Nov. 1	0705	2.65	5.82	May 14	0130	2.90	5.85
Jan. 26	1500	*3.25	*5.89	May 30	1320	2.98	5.86

No flow for several days in July, August, and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.005	1.24	.057	.17	.10	.075	.075	.052	.19	.029	e.001	.000
2	.004	.44	.058	.10	.097	.072	.082	.049	.12	.021	.000	.000
3	.025	.27	.057	.073	.081	.073	.12	.042	.089	.012	.000	.000
4	.013	.36	.049	.068	.079	.062	.82	.038	.085	.011	.000	.000
5	.008	.22	.044	.095	.072	.055	.43	.058	.076	.007	.000	.000
6	.007	.17	.038	.080	.069	.050	.22	.076	.057	.005	.000	.000
7	.008	.14	.059	.065	.061	.041	.16	.056	.050	.004	.000	e.005
8	.007	.12	.047	.057	.060	.038	.12	.047	.042	.003	.000	e.003
9	.006	.73	.041	.052	.083	.038	.098	.042	.038	.004	.000	.000
10	.004	.90	.038	.065	.39	.043	.11	.038	.041	.003	.000	.000
11	.032	.36	.035	.084	.30	.073	1.12	.80	.071	.001	e.083	.000
12	.048	.22	.027	.073	.17	.12	.35	.28	.042	.000	.16	.000
13	.022	.16	.027	.059	.12	.16	.18	.34	.024	.000	.028	.000
14	.015	.14	.027	.049	.11	.13	.13	1.13	.019	.000	.013	.000
15	.011	.30	.027	.043	.086	.19	.51	.29	.018	.000	.007	e.006
16	.011	.67	.027	.038	.082	.22	.70	.18	.016	.000	.003	.002
17	.023	1.09	.027	.044	.079	1.04	.30	.14	.012	.000	.002	.000
18	.039	.41	.024	.27	.069	1.53	.26	.31	.010	.000	.001	.000
19	.029	.25	.022	.22	.069	.50	.17	.26	.012	.000	.003	.000
20	.035	.19	.022	.13	.058	.38	.13	.23	.019	.000	.001	.003
21	1.12	e.17	.021	.087	.052	.56	.17	.17	.016	.000	.001	.005
22	.28	e.13	.022	.072	.059	.31	.15	.19	.013	.000	.001	.002
23	.13	e.10	.022	.061	.39	.44	.12	.22	.014	e.001	.000	.42
24	.091	e.097	.022	.057	.25	.34	.096	.20	.072	.000	.000	.14
25	.073	e.086	.022	.078	.15	.21	e.084	.15	.035	.005	.000	.058
26	.060	e.070	.022	1.51	.11	.16	.074	.11	.021	.004	.000	.035
27	.052	e.054	.019	.62	.096	.12	.068	.094	e.014	.002	.000	.027
28	.045	.11	.018	.26	.085	.094	.060	.084	e.011	.000	.000	.025
29	.039	.14	.018	.19	---	.077	.054	.073	.007	.000	.000	.020
30	.032	.074	.018	.15	---	.071	.052	1.22	.038	.000	.000	.018
31	.031	---	.023	.12	---	.071	---	.42	---	.000	.000	---
TOTAL	2.305	9.411	0.980	5.040	3.427	7.343	7.013	7.389	1.272	0.112	0.304	0.769
MEAN	.074	.31	.032	.16	.12	.24	.23	.24	.042	.004	.010	.026
MAX	1.12	1.24	.059	1.51	.39	1.53	1.12	1.22	.19	.029	.16	.42
MIN	.004	.054	.018	.038	.052	.038	.052	.038	.007	.000	.000	.000
CFSM	1.86	7.84	.79	4.06	3.06	5.92	5.84	5.96	1.06	.09	.25	.64
IN.	2.14	8.75	.91	4.69	3.19	6.83	6.52	6.87	1.18	.10	.28	.72

CAL YR 1989 TOTAL 43.865 MEAN .12 MAX 3.04 MIN .000 CFSM 3.00 IN. 40.79

WTR YR 1990 TOTAL 45.365 MEAN .12 MAX 1.53 MIN .000 CFSM 3.11 IN. 42.19

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.--0.040 mi². Furnished by U.S. Environmental Protection Agency.

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

REVISED RECORD.--WDR ME-89-1: Drainage area.

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: Feb. 23, Apr. 25, and June 26. Records excellent except for flows between 0.10 ft³/s and 0.010 ft³/s which are good, and for flows below 0.010 ft³/s, and periods of missing gage-height record, Feb. 23, Apr. 25, and June 26, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8.71 ft³/s, Mar. 27, 1988, gage height, 6.47 ft, (backwater from log on control); minimum discharge, 0.001 ft³/s, July 19, 21, 30, Aug. 3-5, 26-27, Aug. 30 to Sept. 1, and Sept. 4-6, 1990; minimum gage height, 5.03 ft, Aug. 3, 5, and Sept. 4, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2.2 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	0910	2.26	5.77	Jan. 26	1510	*2.57	*5.81

Minimum discharge 0.001 ft³/s, July 19, 21, 30, Aug. 3-5, 26-27, Aug. 30 to Sept. 1, and Sept. 4-6; minimum gage height, 5.03 ft, Aug. 3, 5, and Sept. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.012	.86	.078	.080	.079	.054	.074	.060	.18	.035	.009	.002
2	.011	.27	.069	.051	.072	.053	.081	.057	.13	.028	.004	.004
3	.042	.18	.069	.039	.062	.052	.12	.052	.097	.020	.003	.004
4	.024	.22	.063	.035	.060	.045	.91	.045	.093	.019	.004	.003
5	.020	.14	.052	.041	.054	.045	.39	.064	.086	.016	.002	.003
6	.018	.11	.048	.038	.052	.038	.22	.080	.071	.012	.003	.003
7	.018	.10	.065	.032	.052	.038	.16	.063	.064	.011	.003	.008
8	.018	.089	.053	.029	.045	.038	.12	.055	.054	.009	.004	.005
9	.015	.51	.047	.027	.060	.038	.10	.049	.047	.011	.003	.005
10	.014	.59	.045	.035	.22	.038	.12	.045	.054	.009	.003	.008
11	.050	.24	.041	.045	.22	.045	1.09	.71	.075	.007	.11	.008
12	.071	.16	.032	.038	.12	.058	.33	.25	.052	.006	.18	.008
13	.035	.12	.028	.033	.086	.083	.18	.29	.039	.005	.053	.007
14	.024	.11	.027	.028	.075	.081	.14	.96	.027	.004	.026	.006
15	.022	.20	.026	.027	.061	.11	.46	.26	.025	.004	.018	.016
16	.022	.40	.025	.027	.060	.13	.68	.18	.021	.005	.011	.013
17	.031	.75	.024	.029	.056	.54	.28	.14	.020	.004	.008	.007
18	.044	.26	.019	.13	.047	1.21	.25	.27	.018	.003	.007	.005
19	.035	.17	.018	.16	.046	.40	.18	.22	.023	.003	.011	.004
20	.046	.14	.018	.085	.043	.30	.15	.21	.030	.003	.007	.013
21	1.06	.13	.018	.059	.037	.44	.17	.16	.024	.003	.006	.011
22	.28	.10	.018	.048	.038	.24	.15	.18	.018	.003	.005	.007
23	.13	.089	.018	.042	e.30	.39	.12	.21	.023	.008	.004	.48
24	.094	.089	.018	.040	.19	.27	.11	.19	.070	.008	.003	.17
25	.075	.085	.018	.051	.11	.18	e.094	.14	.039	.019	.003	.066
26	.064	.078	.018	1.13	.081	.15	.084	.11	e.027	.014	.003	.037
27	.055	.069	.018	.49	.073	.12	.079	.097	.021	.007	.003	.029
28	.051	.11	.018	.19	.061	.10	.072	.089	.020	.005	.003	.027
29	.042	.13	.016	.13	---	.082	.066	.081	.016	.004	.004	.025
30	.038	.092	.014	.11	---	.076	.060	1.05	.045	.003	.003	.023
31	.035	---	.018	.086	---	.073	---	.39	---	.003	.002	---
TOTAL	2.496	6.591	1.039	3.385	2.460	5.517	7.040	6.757	1.509	0.291	0.508	1.007
MEAN	.081	.22	.034	.11	.088	.18	.23	.22	.050	.009	.016	.034
MAX	1.06	.86	.078	1.13	.30	1.21	1.09	1.05	.18	.035	.18	.48
MIN	.011	.069	.014	.027	.037	.038	.060	.045	.016	.003	.002	.002
CFSM	2.01	5.49	.84	2.73	2.20	4.45	5.87	5.45	1.26	.23	.41	.84
IN.	2.32	6.13	.97	3.15	2.29	5.13	6.55	6.28	1.40	.27	.47	.94

CAL YR 1989 TOTAL 43.421 MEAN .12 MAX 2.93 MIN .002 CFSM 2.97 IN. 40.38
WTR YR 1990 TOTAL 38.600 MEAN .11 MAX 1.21 MIN .002 CFSM 2.64 IN. 35.90

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.--Discharge: February 1948 to current year.

Chemical analyses: Water years 1954, 1978 to 1986.

Specific conductance: January 1978 to September 1981.

Water temperatures: January 1978 to September 1981.

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: Nov. 22 to Jan. 17, Jan. 21-24, Feb. 3-9, 12-22, and Feb. 25 to Mar. 11.

Records good except for periods of ice effect, Nov. 22 to Jan. 17, Jan. 21-24, Feb. 3-9, 12-22, and Feb. 25 to Mar. 11, which are fair.

AVERAGE DISCHARGE.--42 years, 498 ft³/s, 29.79 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)
Mar. 22	0300	2,210	11.79	May 14	1300	2,040	11.60
Apr. 12	0500	*2,260	*11.84				

Minimum discharge, 59 ft³/s, Sept. 4, gage height, 7.34 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	769	e362	e250	677	e378	601	454	1670	334	158	72
2	133	1120	e320	e402	634	e371	682	438	1350	326	167	70
3	171	934	e293	e375	e548	e371	736	409	956	276	150	69
4	194	911	e276	e342	e513	e359	1060	381	737	238	132	64
5	177	791	e266	e345	e482	e316	1590	376	617	219	118	187
6	162	657	e258	e315	e450	e288	1520	476	527	197	109	185
7	161	585	e248	e280	e416	e266	1290	484	475	178	105	172
8	152	520	e240	e250	e381	e252	1050	455	450	169	104	176
9	144	643	e230	e225	e384	e255	867	417	410	163	104	151
10	130	1140	e220	e230	551	e260	756	381	394	162	103	134
11	140	1070	e212	e300	769	e297	1550	741	529	150	106	93
12	250	921	e208	e400	e708	388	2200	1010	583	139	276	76
13	263	723	e202	e380	e630	470	1860	962	480	133	546	73
14	234	590	e197	e345	e560	514	1420	1890	406	126	485	71
15	207	529	e190	e315	e480	583	1150	1770	358	119	391	79
16	188	552	e185	e302	e430	723	1620	1450	325	117	302	107
17	184	714	e182	e285	e406	831	1720	1090	298	115	237	100
18	211	813	e181	357	e384	1410	1800	1050	275	111	192	85
19	214	763	e179	457	e362	1780	1480	1120	260	108	170	75
20	202	637	e176	409	e344	1770	1180	1100	255	107	157	85
21	575	600	e174	e375	e311	2080	1040	957	253	114	137	104
22	944	e494	e171	e335	e314	2180	1050	851	242	108	122	99
23	810	e426	e167	e315	538	2070	971	819	232	122	111	224
24	628	e387	e164	e305	670	1740	847	825	400	151	102	399
25	492	e350	e161	319	e598	1430	738	754	496	200	97	362
26	408	e325	e159	803	e552	1190	654	656	410	341	90	287
27	350	e311	e157	1610	e482	970	592	568	336	287	85	213
28	311	e354	e154	1310	e426	806	547	506	288	228	83	187
29	279	e517	e151	1170	---	694	505	465	256	194	81	159
30	258	e403	e150	974	---	604	475	1060	297	171	80	138
31	240	---	e149	800	---	580	---	1800	---	152	77	---
TOTAL	8961	19549	6382	14880	14000	26226	33551	25715	14565	5555	5177	4296
MEAN	289	652	206	480	500	846	1118	830	485	179	167	143
MAX	944	1140	362	1610	769	2180	2200	1890	1670	341	546	399
MIN	130	311	149	225	311	252	475	376	232	107	77	64
CFSM	1.27	2.87	.91	2.11	2.20	3.73	4.93	3.65	2.14	.79	.74	.63
IN.	1.47	3.20	1.05	2.44	2.29	4.30	5.50	4.21	2.39	.91	.85	.70

CAL YR 1989 TOTAL 178759 MEAN 490 MAX 6790 MIN 61 CFSM 2.16 IN. 29.29
WTR YR 1990 TOTAL 178857 MEAN 490 MAX 2200 MIN 64 CFSM 2.16 IN. 29.31

e Estimated

PENOBSCOT RIVER BASIN

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

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

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

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

Chemical analyses: Water year 1954.

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: Nov. 28 to Mar. 13. Records fair, including period of ice effect, Nov. 28 to Mar. 13. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Considerable diurnal fluctuation caused by powerplant just upstream.

AVERAGE DISCHARGE.--50 years, 5,760 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, 20,700 ft³/s, June 25, gage height, 7.95 ft.; minimum daily, 3,100 ft³/s, Feb. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4090	4940	e4400	e3300	e4650	e5000	5480	9890	6910	6600	3940	3990
2	4080	5830	e3460	e3450	e4450	e4900	5810	9420	6270	6170	4330	3730
3	4360	5430	e4100	e3750	e4500	e5180	5780	8600	5240	5560	4180	3830
4	4510	5400	e4350	e3470	e4420	e4950	6780	8160	4800	5200	4430	3710
5	4130	5070	e3320	e3550	e4350	e5150	10900	7520	4860	5040	4200	3670
6	3830	5360	e3750	e3650	e4250	e5000	13800	7040	4940	5330	3780	3950
7	3750	5170	e4050	e3800	e4000	e5250	12000	7240	4900	4780	3530	3960
8	4300	3790	e3880	e3400	e4120	e5000	9890	7760	5020	4980	3690	4010
9	4320	4940	e3900	e3650	e3950	e5100	8620	6040	4540	5020	3740	4170
10	4190	7500	e3930	e3600	e4250	e4750	9240	5270	4950	4700	3410	4820
11	4020	8160	e3960	e3800	e4350	e5000	8590	6340	6240	4590	5340	4160
12	4660	6620	e4000	e3700	e5000	e4750	8550	8470	6750	4380	5910	4370
13	4750	6010	e3750	e3620	e4850	e5080	8070	7190	6710	4660	5970	4660
14	5030	5470	e3700	e3500	e5020	5300	7920	6360	5910	4660	6480	4580
15	4250	5660	e3720	e3150	e4750	6020	7770	5860	5850	4600	7060	5580
16	4510	5900	e3750	e3700	e4580	6700	10400	6470	5260	4640	5410	5450
17	4690	7170	e3700	e3400	e4800	6630	11200	6880	5620	4480	3650	3980
18	4330	7540	e3550	e3600	e4600	7170	11600	7000	5400	4830	3150	4330
19	4530	6230	e3800	e4000	e3600	7760	10800	7930	7150	4030	3320	3610
20	4440	5950	e3680	e3900	e3100	8490	9680	7650	11900	3700	4140	4760
21	4160	6020	e3500	e3890	e3500	8510	10800	6190	14100	3630	4910	4500
22	5410	5340	e3660	e4150	e3900	7970	12700	6630	17100	4020	4600	5110
23	5100	4640	e3600	e3500	e4350	8500	13400	8550	18600	4640	4240	6170
24	4390	4450	e3600	e3400	e4550	8230	13200	9560	17300	4730	3430	8200
25	4060	4970	e3680	e3450	e4600	7300	12400	8950	18900	5820	3150	6880
26	3550	4610	e3700	e3900	e5100	7280	11600	8310	17600	6590	3260	6090
27	3770	5090	e3520	e4250	e4950	5580	11500	8100	14600	6060	3250	5760
28	4150	e4400	e3680	e4700	e4850	5830	13300	7400	9900	5420	3490	5190
29	3850	e4600	e3600	e4500	---	5530	11800	7080	10400	4720	3490	5470
30	3960	e4050	e3900	e4950	---	5390	10700	8020	6890	4550	4200	5110
31	4060	---	e3750	e4200	---	5350	---	8290	---	4340	4070	---
TOTAL	133230	166310	116940	116880	123390	188650	304280	234170	264610	152470	131750	143800
MEAN	4298	5544	3772	3770	4407	6085	10140	7554	8820	4918	4250	4793
MAX	5410	8160	4400	4950	5100	8510	13800	9890	18900	6600	7060	8200
MIN	3550	3790	3320	3150	3100	4750	5480	5270	4540	3630	3150	3610

CAL YR 1989 TOTAL 1920260 MEAN 5261 MAX 34200 MIN 2470
WTR YR 1990 TOTAL 2076480 MEAN 5689 MAX 18900 MIN 3100

e Estimated

PENOBSCOT RIVER BASIN

57

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, Hydrologic Unit 01020003, on right bank below Gordon 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.--Discharge: October 1934 to current year.
Chemical analyses: Water year 1954.

REVISED RECORDS.--WSP 1501: Drainage area.

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

REMARKS.--Estimated daily discharges: Nov. 22 to Mar. 29. Records good except for period of ice effect, Nov. 22 to Mar. 19, and period of no gage-height record, Mar. 18-29, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--56 years, 2,499 ft³/s, 23.93 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, 11,800 ft³/s, Apr. 19, gage height, 8.58 ft; maximum gage-height, 15.05 ft, Dec. 2 (backwater from ice); minimum discharge, 343 ft³/s, July 23, gage height, 0.56 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	1210	e1730	e820	e2510	e1320	4790	6040	5930	1930	1120	1550
2	1020	2280	e1630	e1480	e2580	e1250	4530	5290	5740	1860	1050	1250
3	936	3010	e1540	e1410	e2570	e1210	4490	4600	4880	2230	927	1140
4	874	3280	e1460	e1310	e2450	e1170	5140	4010	4040	2160	798	1020
5	818	3380	e1370	e1260	e2300	e1140	7460	3530	3550	1900	672	858
6	768	3310	e1300	e1180	e2160	e1090	9880	3370	3110	1640	579	728
7	717	3110	e1250	e1130	e2030	e1070	11100	3370	2710	1400	509	646
8	671	2920	e1180	e1080	e1900	e1030	11400	3390	2410	1220	457	651
9	634	2810	e1140	e1050	e1800	e990	11100	3330	2210	1080	434	713
10	594	3280	e1090	e1000	e1750	e965	10400	3200	2080	988	415	699
11	562	4020	e1060	e980	e1920	e930	10100	3300	1980	903	740	653
12	560	4440	e1000	e940	e2180	e950	10200	4080	1900	829	4860	608
13	572	4480	e970	e910	e2400	e1000	9900	4600	1880	745	7020	567
14	584	4170	e940	e880	e2540	e1100	9170	4930	1770	657	6740	513
15	581	3810	e905	e845	e2460	e1220	8500	5070	1560	584	5870	496
16	555	3620	e880	e810	e2360	e1520	8840	4710	1420	540	4930	472
17	548	4010	e860	e795	e2230	e1800	10300	4130	1270	516	4010	498
18	548	4670	e840	e780	e2110	e5000	11400	3880	1170	477	3130	513
19	548	4970	e810	e790	e1980	e9000	11800	4210	1200	431	2410	495
20	548	4870	e795	e880	e1860	e10300	11500	4690	1380	400	1910	465
21	675	4440	e780	e955	e1730	e10500	10900	4820	1620	373	1560	486
22	1180	e3680	e770	e990	e1580	e10700	10500	4720	1860	348	1300	507
23	1590	e3190	e765	e1000	e1570	e10100	10400	5010	2060	345	1110	579
24	1650	e2840	e760	e1020	e1550	e9100	10200	5730	2750	360	982	938
25	1570	e2600	e750	e1040	e1530	e8100	9700	6140	3840	565	870	1470
26	1440	e2430	e740	e1080	e1470	e7600	9070	6010	4210	1580	784	1640
27	1320	e2260	e735	e1400	e1450	e7300	8380	5370	4050	2360	783	1540
28	1230	e2120	e725	e1900	e1360	e6900	7730	4560	3480	2430	856	1370
29	1140	e1980	e710	e2350	---	e6510	7160	3890	2830	2100	1660	1230
30	1070	e1840	e700	e2500	---	6050	6640	3710	2340	1670	2030	1120
31	1020	---	e695	e2450	---	5420	---	4980	---	1350	1900	---
TOTAL	27653	99030	30880	37015	56330	132335	272680	138670	81230	35971	62416	25415
MEAN	892	3301	996	1194	2012	4269	9089	4473	2708	1160	2013	847
MAX	1650	4970	1730	2500	2580	10700	11800	6140	5930	2430	7020	1640
MIN	548	1210	695	780	1360	930	4490	3200	1170	345	415	465
CFSM	.63	2.33	.70	.84	1.42	3.01	6.41	3.15	1.91	.82	1.42	.60
IN.	.73	2.60	.81	.97	1.48	3.47	7.15	3.64	2.13	.94	1.64	.67

CAL YR 1989 TOTAL 918614 MEAN 2517 MAX 22000 MIN 223 CFSM 1.77 IN. 24.10
WTR YR 1990 TOTAL 999625 MEAN 2739 MAX 11800 MIN 345 CFSM 1.93 IN. 26.22

e Estimated

PENOBSCOT RIVER BASIN

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.--Discharge: August 1902 to current year.

Chemical analyses: Water year 1955.

Water temperatures: May 1987 to September 1989.

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. 21 to Mar. 31. Records good except for periods of ice effect, Nov. 21 to Mar. 31, 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. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--88 years, 602 ft³/s, 27.43 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) (ice jam)	Gage height (ft) *10.08	Date	Time	Discharge (ft ³ /s) *7,140	Gage height (ft) 8.84
Mar. 19	1145			Mar. 19	1200		

Minimum discharge, 47 ft³/s, Aug. 5-7, Sept. 6, 7, 14 and 15, gage height, 1.79 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	367	e250	e180	e520	e305	509	640	576	458	77	129
2	179	518	e240	e240	e480	e298	601	578	425	567	65	98
3	180	396	e230	e288	e450	e296	674	490	344	502	56	78
4	184	431	e220	e290	e425	e289	1210	420	346	386	52	64
5	162	381	e213	e262	e405	e278	2950	415	386	322	51	55
6	147	335	e205	e230	e388	e265	2610	727	310	264	47	49
7	142	379	e200	e200	e360	e253	2070	699	290	223	47	49
8	132	364	e195	e180	e338	e250	1560	1350	311	195	60	51
9	121	461	e190	e170	e315	e253	1270	979	278	184	83	49
10	111	1840	e186	e160	e340	e264	1340	794	313	183	79	49
11	120	1310	e180	e170	e500	e280	2750	2100	1310	153	230	51
12	242	927	e178	e200	e580	e300	2850	2130	1460	127	699	52
13	251	687	e173	e190	e405	e330	1860	1360	844	112	466	51
14	210	556	e170	e170	e365	e365	1460	1640	541	99	630	49
15	177	511	e167	e150	e345	e410	1800	1320	386	89	619	49
16	159	577	e165	e158	e335	e496	2980	991	313	83	358	57
17	152	2000	e163	e170	e325	e685	2730	812	269	80	252	68
18	155	1500	e159	e195	e310	e1340	2550	1070	257	71	192	65
19	155	1040	e157	e315	e300	e4320	1760	1230	578	65	158	56
20	165	789	e155	e380	e298	e3410	1490	1300	1980	58	123	61
21	931	e607	e155	e295	e282	e2460	1610	1030	1320	58	97	68
22	1060	e512	e151	e255	e284	e2120	1920	1030	918	64	85	70
23	708	e465	e149	e235	e380	e1800	1710	1050	721	65	70	649
24	507	e420	e147	e215	e570	e1760	1450	849	1660	135	62	950
25	401	e385	e145	e208	e650	e1260	1240	696	1960	332	57	536
26	339	e345	e144	e340	e375	e1030	1100	574	1240	613	62	325
27	303	e320	e142	e550	e330	e795	1020	485	832	337	69	250
28	279	e300	e140	e800	e315	e675	976	418	649	231	283	205
29	258	e280	e138	e680	---	e580	859	358	484	166	330	172
30	239	e265	e137	e610	---	e522	735	682	456	126	249	202
31	223	---	e135	e555	---	e516	---	851	---	96	180	---
TOTAL	8600	19268	5379	9041	10970	28205	49644	29068	21757	6444	5888	4657
MEAN	277	642	174	292	392	910	1655	938	725	208	190	155
MAX	1060	2000	250	800	650	4320	2980	2130	1980	613	699	950
MIN	111	265	135	150	282	250	509	358	257	58	47	49
CFSM	.93	2.16	.58	.98	1.31	3.05	5.55	3.15	2.43	.70	.64	.52
IN.	1.07	2.41	.67	1.13	1.37	3.52	6.20	3.63	2.72	.80	.74	.58

CAL YR 1989 TOTAL 191426 MEAN 524 MAX 6990 MIN 35 CFSM 1.76 IN. 23.90
WTR YR 1990 TOTAL 198921 MEAN 545 MAX 4320 MIN 47 CFSM 1.83 IN. 24.83

e Estimated

PENOBSCOT RIVER BASIN

59

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.--Discharge: October 1924 to September 1982, October 1984 to current year.
Chemical analyses: Water year 1954.

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: Nov. 18 to Jan. 10. Records good except for period of no gage-height record, Nov. 18 to Jan. 10, which is fair. Considerable regulation by Sebec Lake on Sebec River, 1,000 feet upstream, usable capacity 2,511,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--64 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, 2,840 ft³/s, Apr. 16, gage height, 6.17 ft, minimum daily, 36 ft³/s, Nov. 2-6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	698	37	e477	e318	629	431	1080	1340	693	714	146	102
2	679	36	e477	e70	644	430	1060	977	455	870	159	68
3	475	36	e477	e146	656	428	1050	320	403	831	91	67
4	397	36	e477	e329	656	426	1070	319	507	493	69	66
5	487	36	e477	e318	656	422	1220	319	579	279	68	67
6	561	36	e477	e318	656	445	1430	323	272	304	68	67
7	398	37	e477	e318	654	453	1570	184	282	285	68	67
8	397	361	e371	e171	651	461	1620	463	495	292	69	67
9	396	458	e371	e112	648	421	1620	484	910	290	101	66
10	293	460	e371	e112	646	394	1760	813	781	174	113	418
11	270	464	e371	138	444	458	2060	1010	986	124	419	564
12	298	504	e371	138	355	437	1980	1310	913	278	509	557
13	339	582	e371	129	356	396	1680	1510	964	273	338	550
14	342	580	e371	89	355	426	1880	1540	945	69	519	545
15	224	580	e371	62	327	430	2260	1540	923	69	896	540
16	38	799	e371	234	367	446	2510	1590	598	68	913	612
17	38	919	e371	556	367	594	2530	1750	170	67	885	652
18	38	e1070	e371	556	367	662	2630	1270	136	66	862	647
19	37	e1070	e321	555	366	400	2330	1060	302	65	811	371
20	162	e1070	e351	551	445	724	1940	1090	345	65	534	538
21	397	e1070	e424	451	482	1030	1900	1230	835	100	226	869
22	296	e1070	e424	275	606	1040	1910	1270	792	138	69	856
23	106	e1070	e424	350	641	1030	1910	1040	893	138	116	909
24	389	e848	e424	350	650	1040	1840	1060	1040	141	116	907
25	363	e583	e424	472	649	1040	1750	1020	1370	635	122	852
26	352	e583	e424	629	646	1040	1650	972	1490	846	150	335
27	198	e583	e424	629	566	1060	1300	897	1050	838	148	81
28	38	e583	e424	626	448	1100	1240	627	1050	353	206	185
29	37	e583	e424	624	---	1220	1500	619	975	138	235	363
30	37	e583	e424	626	---	1480	1430	920	691	86	232	363
31	37	---	e424	624	---	1270	---	1030	---	122	196	---
TOTAL	8817	16727	12756	10876	14933	21634	51710	29897	21845	9211	9454	12351
MEAN	284	558	411	351	533	698	1724	964	728	297	305	412
MAX	698	1070	477	629	656	1480	2630	1750	1490	870	913	909
MIN	37	36	321	62	327	394	1050	184	136	65	68	66

CAL YR 1989 TOTAL 216434 MEAN 593 MAX 3830 MIN 36
WTR YR 1990 TOTAL 220211 MEAN 603 MAX 2630 MIN 36

e Estimated

PENOBSCOT RIVER BASIN

01034000 PISCATAQUIS RIVER AT MEDFORD, ME

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

DRAINAGE AREA.--1,162 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: June 1924 to September 1982, and current year.

Chemical analysis: Water years 1952-53.

REVISED RECORDS.--WSP 1231: 1936. WSP 1301: 1925-29(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 14, 1929, nonrecording gage at site 1.8 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 21 to Mar. 21, Mar. 24-29. Records good except for periods of ice effect, Nov. 21 to Mar. 21, Mar. 24-29, and period of no gage-height record, Dec. 9 to Jan. 11, which are fair. Flow regulated by Sebec Lake 15 mi upstream (Reservoirs in Penobscot River basin) and other small reservoirs and powerplants above station. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--59 years, 2,355 ft³/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1, 1923 reached a stage of 20.8 ft, former site and datum, discharge not determined. Maximum discharge since at least 1923, 85,000 ft³/s, Apr. 1, 1987, gage height 18.65 ft, present datum, from rating curve extended above 32,000 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,100 ft³/s, Nov. 4, 1966, gage height, 15.58 ft; minimum, 99 ft³/s, Oct. 28, 1947, gage height, 1.28 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 19	1615	(ice jam)	*7.09	Apr. 16	1245	*11,500	7.04

Minimum discharge, 249 ft³/s, Sept. 8-10, gage height, 1.65 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1100	e1360	e940	e2000	e1500	2780	3890	3420	1990	601	550
2	1370	1870	e1300	e750	e1930	e1450	2790	3610	2420	2470	535	485
3	1240	1700	e1270	e900	e1860	e1380	2970	2650	1910	2320	502	413
4	1040	1700	e1250	e1100	e1800	e1300	4300	1970	1750	1840	414	336
5	1100	1630	e1220	e1280	e1730	e1280	9750	1830	2020	1460	374	376
6	1170	1450	e1180	e1150	e1680	e1230	10300	2410	1570	1220	346	337
7	1210	1390	e1170	e1100	e1630	e1200	8640	2520	1380	1020	326	277
8	872	1430	e1100	e880	e1550	e1180	6770	3260	1550	912	327	253
9	749	1860	e1040	e660	e1500	e1150	5670	3520	1680	923	369	251
10	785	4640	e1020	e700	e1600	e1200	5490	3120	1830	855	377	265
11	654	4720	e990	e760	e1840	e1230	8430	5010	4130	732	1280	798
12	842	3530	e985	e780	e1950	e1300	10100	7920	5860	695	4710	839
13	1060	2930	e975	e740	e1700	e1400	7500	6070	4130	777	3160	726
14	1180	2470	e965	e720	e1550	e1560	6040	6170	3100	564	3130	812
15	1010	2280	e960	e600	e1450	e1750	6330	5900	2470	484	3870	795
16	865	2460	e960	e560	e1370	e2250	10700	4810	1980	457	2990	813
17	549	4280	e960	e850	e1300	e3000	10600	4410	1380	430	2310	878
18	569	5420	e950	e1030	e1250	e4400	10400	4600	1060	410	1950	935
19	582	4150	e850	e1150	e1220	e8520	8460	4960	1340	397	1690	767
20	577	3420	e880	e1450	e1200	e8430	6810	5060	2530	362	1370	537
21	1370	e2840	e1000	e1620	e1300	e7250	6650	4450	3540	353	1170	1110
22	3590	e2380	e980	e1100	e1400	6910	7980	4320	2940	354	653	1150
23	2600	e2210	e975	e950	e1800	6270	7500	4340	2650	383	551	1510
24	1830	e2080	e970	e1000	e2230	e6090	6710	3930	4320	516	492	3340
25	1810	e1840	e970	e1100	e2400	e5390	5850	3450	6230	1630	416	2610
26	1580	e1690	e960	e1550	e2100	e4620	5560	3010	5220	3670	376	1800
27	1430	e1600	e960	e2300	e1750	e3870	5190	2690	3870	2820	402	1010
28	1070	e1550	e940	e2700	e1600	e3430	4940	2290	2940	1930	661	853
29	1010	e1520	e940	e2900	---	e3180	5040	1910	2660	1110	871	788
30	896	e1450	e935	e2400	---	3150	4400	2830	2140	883	901	919
31	798	---	e945	e2200	---	3090	---	4490	---	715	777	---
TOTAL	36898	73590	31960	37920	46690	99960	204650	121400	84020	34682	37901	26533
MEAN	1190	2453	1031	1223	1667	3225	6822	3916	2801	1119	1223	884
MAX	3590	5420	1360	2900	2400	8520	10700	7920	6230	3670	4710	3340
MIN	549	1100	850	560	1200	1150	2780	1830	1060	353	326	251
CFSM	1.02	2.11	.89	1.05	1.44	2.77	5.87	3.37	2.41	.96	1.05	.76
IN.	1.18	2.36	1.02	1.21	1.49	3.20	6.55	3.89	2.69	1.11	1.21	.85

WTR YR 1990 TOTAL 836204 MEAN 2291 MAX 10700 MIN 251 CFSM 1.97 IN. 26.77

e Estimated

PENOBSCOT RIVER BASIN

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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.

Chemical analyses: Water years 1966 to 1978.

Specific conductance: October 1973 to September 1978.

Water temperatures: July 1966 to September 1978.

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

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

REMARKS.--Estimated daily discharges: Nov. 26 to Mar. 29. Records good except for period of ice effect, Nov. 26 to Mar. 29, 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.

Telephone and satellite gage-height telemeters at station.

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

AVERAGE DISCHARGE.--88 years (water years 1903 to current year), 11,890 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, 39,300 ft³/s, Apr. 18, gage height, 10.81 ft; maximum gage height, 14.41 ft, Mar. 20 (backwater from ice); minimum daily discharge, 4,870 ft³/s, Aug. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7490	7320	e7900	e5850	e9950	e8300	15400	22300	20700	12200	7090	7250
2	7360	10700	e8050	e5560	e10200	e8450	15200	20700	17900	12400	6180	6540
3	7150	12000	e7000	e6400	e10100	e8100	15500	18200	15700	12000	6370	6070
4	6850	12300	e7400	e7100	e10000	e8250	17800	16200	12800	10800	6090	5700
5	7000	12200	e7650	e6600	e9700	e8050	29200	14500	12500	10200	6040	5580
6	6570	11500	e6900	e6550	e9300	e8250	37700	14400	11600	9310	5750	5380
7	6470	11200	e5500	e6400	e9000	e7950	37200	15200	10700	8420	5080	5430
8	6390	10400	e6950	e6350	e8600	e8200	33200	15600	10500	8270	4870	5390
9	6570	9440	e6590	e5700	e8300	e7900	29700	16000	10100	8420	4980	5420
10	6550	14700	e6600	e5850	e8200	e7900	28200	13500	9650	7330	5030	5980
11	6400	19400	e6620	e5810	e9000	e7700	31300	16600	13800	7230	5320	6280
12	6420	17500	e6560	e6000	e9600	e7950	35300	23500	17200	6830	13500	6260
13	7140	15700	e6540	e5900	e9610	e7850	31300	21900	14700	6910	18100	6120
14	7530	14000	e6200	e5600	e9550	e8400	27500	21600	12600	6650	20100	6450
15	7240	13100	e6050	e5300	e9750	e9300	26600	21100	11400	6440	19000	7010
16	6780	13300	e6000	e5000	e9300	e10500	34000	18900	10300	6260	19600	7200
17	6560	15500	e5980	e5600	e9000	e12700	37700	18100	9400	6350	16100	6990
18	6090	20500	e6000	e5900	e8900	e16000	38800	18500	8740	5910	11900	5850
19	6120	18400	e5700	e6500	e8400	e31000	36900	19900	9830	6090	9790	6280
20	6200	16400	e5950	e6900	e7700	e33000	33200	21300	15100	5140	8600	6180
21	6970	15700	e5900	e7200	e6900	e32100	31800	19200	19400	4940	8490	6570
22	10600	14400	e5700	e6450	e7200	e31100	34500	18600	21600	4960	8840	7280
23	11200	12200	e5800	e6750	e8100	e29400	34800	19500	23500	5490	7510	8270
24	9180	11600	e5780	e6300	e9500	e29000	33700	21400	25900	6030	7080	12300
25	8830	9830	e5800	e6000	e10000	e25800	31500	21700	30500	7950	5670	13100
26	7910	e10000	e5820	e7000	e9000	e22600	29700	20300	29400	10700	5300	11400
27	7100	e9570	e5830	e8200	e9200	e20700	27600	18900	24500	13700	4980	10100
28	6880	e9400	e5600	e10700	e8800	e18000	27600	16800	19800	12500	5230	9220
29	6660	e8800	e5700	e10800	---	e17300	27000	15100	17500	10800	5750	8310
30	6480	e8580	e5610	e10600	---	17800	24300	15800	13300	8940	6690	8800
31	5980	---	e5870	e11000	---	16400	---	21400	---	7770	7640	---
TOTAL	222670	385640	195550	211870	252860	485950	894200	576700	480620	256940	272670	218710
MEAN	7183	12850	6308	6835	9031	15680	29810	18600	16020	8288	8796	7290
MAX	11200	20500	8050	11000	10200	33000	38800	23500	30500	13700	20100	13100
MIN	5980	7320	5500	5000	6900	7700	15200	13500	8740	4940	4870	5380

CAL YR 1989 TOTAL 4140530 MEAN 11340 MAX 77800 MIN 3510

WTR YR 1990 TOTAL 4454380 MEAN 12200 MAX 38800 MIN 4870

e Estimated

PENOBSCOT RIVER BASIN

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 5 to Jan. 16, Jan. 20-24, Feb. 8, 18-21, and Mar. 5-8. Records good except for periods of ice effect, Dec. 5 to Jan. 16, Jan 20-24, Feb. 8, 18-21, and Mar. 5-8, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin). Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--11 years, 13,910 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, 44,500 ft³/s, Apr. 18, gage height, 10.99 ft; minimum daily discharge, 5,350 ft³/s, Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9380	8290	10400	e7200	13800	10900	18800	24400	23600	15000	8500	8220
2	8550	11300	9710	e7200	13200	10400	17600	22600	21500	15000	7760	7540
3	8620	14300	9520	e7100	13200	10400	18100	20600	19100	14500	7150	6690
4	8550	14800	9080	e7800	12700	9970	19400	17800	16400	13900	6920	6450
5	7980	14900	e9100	e8000	12600	e9800	26900	16900	15200	12300	7100	5980
6	7840	14400	e9200	e8000	12200	e9700	39200	15700	13900	11300	6550	6100
7	7610	13800	e9000	e8100	11600	e9700	42600	16200	13100	10700	6160	6040
8	7510	13200	e8900	e8300	e10900	e9600	39800	16700	11900	9920	5550	6030
9	7330	12000	e8200	e7900	10600	9460	35600	17700	11200	9400	5390	5890
10	7600	14100	e8500	e7400	10800	8910	32300	16500	11600	9500	5990	6150
11	7430	20000	e8800	e7600	11200	9410	34300	16700	13000	8160	6230	7010
12	7740	20700	e8800	e7700	12500	9570	40000	22700	18300	7980	11400	6850
13	8050	18900	e8600	e7700	13700	10100	38800	25300	18500	7230	19500	7200
14	8620	17000	e8200	e7500	13800	10800	34100	24500	16100	7680	20400	6690
15	8940	15500	e7800	e7200	13700	12000	31400	25200	13900	7560	20200	7180
16	8360	15200	e7700	e6800	13000	13700	35400	23400	12800	7240	19800	7680
17	8280	16500	e7700	7170	12100	16400	42300	21200	11700	7080	16500	7920
18	7820	20500	e8400	7760	e11400	20400	44000	20900	10900	7010	13300	7060
19	7550	21300	e7900	8100	e11300	25600	43400	21900	10200	6540	11200	6530
20	7460	19200	e7800	e8500	e10400	30700	39700	23300	11300	6750	9400	6210
21	7990	18100	e8000	e8700	e9540	35400	36600	23000	17100	6110	9530	7020
22	9960	16600	e7700	e8300	9310	35900	37500	21000	19800	5470	9770	7310
23	13300	14300	e7600	e8200	9610	37300	39000	21000	22000	5750	8670	8340
24	12400	12000	e7600	e8200	10100	36800	37900	22600	25400	6790	8240	10000
25	11200	12100	e7700	7890	11100	36600	35900	23400	29300	7930	6480	13200
26	10500	11600	e7400	8100	11300	33700	33500	22700	32400	11600	6040	12700
27	9720	12600	e6600	9380	11200	29800	31200	21800	29500	14900	5350	11200
28	8980	12000	e7000	11400	11300	26000	29800	19800	25300	14100	6090	10200
29	8620	10800	e7200	13600	---	23500	29400	17900	20300	12700	6430	9590
30	8240	10400	e7200	14400	---	21000	27000	17100	18700	10600	6950	9020
31	7880	---	e6700	14300	---	19900	---	21300	---	9580	7940	---
TOTAL	270010	446390	254010	265500	328160	593420	1011500	641800	534000	300280	296490	234000
MEAN	8710	14880	8194	8565	11720	19140	33720	20700	17800	9686	9564	7800
MAX	13300	21300	10400	14400	13800	37300	44000	25300	32400	15000	20400	13200
MIN	7330	8290	6600	6800	9310	8910	17600	15700	10200	5470	5350	5890

CAL YR 1989 TOTAL 4837680 MEAN 13250 MAX 81100 MIN 3540
WTR YR 1990 TOTAL 5175560 MEAN 14180 MAX 44000 MIN 5350

e Estimated

PENOBSCOT RIVER BASIN

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1979 to October 1984. Seasonal records November 1984 to current year.

pH: April 1979 to October 1984. Seasonal records November 1984 to current year.

WATER TEMPERATURE: April 1979 to October 1984. Seasonal records November 1984 to current year.

DISSOLVED OXYGEN: April 1979 to October 1984. Seasonal records November 1984 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 period November to April. 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 1980 to 1984.

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 1989 TO SEPTEMBER 1990

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
04...	1100	8360	54	7.2	11.0	12.0	0.7	750	10.8	102	100	59
FEB												
13...	0830	13300	53	6.8	-12.0	0.0	2.2	760	14.3	98	120	K 19
APR												
09...	1500	35000	38	6.8	12.0	3.0	1.5	760	14.6	109	41	K 9
AUG												
16...	1200	19500	44	7.1	30.0	22.5	1.8	760	8.7	99	38	>2000

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT												
04...	19	5.7	1.1	3.2	0.6	15	0	12	13	13	7.0	3.2
FEB												
13...	18	5.4	1.2	3.3	0.5	13	0	10	11	11	7.0	3.8
APR												
09...	14	4.1	0.86	1.9	0.4	9	0	8	9	8.0	4.5	2.3
AUG												
16...	19	5.8	1.1	2.5	0.5	13	0	11	13	13	3.8	2.5

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

PENOBSCOT RIVER BASIN

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 04...	0.1	3.8	27	32	<0.10	0.02	0.03	0.2	<0.01	<0.01	<0.01
FEB 13...	0.1	5.3	39	34	0.15	0.04	0.05	0.5	0.03	<0.01	<0.01
APR 09...	0.1	4.2	34	23	0.10	0.02	0.03	0.3	0.03	<0.01	<0.01
AUG 16...	<0.1	4.2	51	27	<0.10	0.08	0.10	0.7	0.11	0.01	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 04...	60	<1	3	<0.5	<1	<1	<3	1	130	1	<4	11
FEB 13...	80	<1	5	<0.5	2	<5	<3	<10	130	<10	<4	16
APR 09...	80	<1	3	<0.5	<1	<5	<3	<10	75	<10	<4	13
AUG 16...	100	<1	5	<0.5	<1	<1	<3	2	190	1	<4	19

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. 2 FINER THAN .062 MM (70331)
OCT 04...	<0.1	<10	1	<1	<1	29	<6	9	4	90	22
FEB 13...	<0.1	<10	<10	<1	1	30	<6	9	6	215	45
APR 09...	0.2	<10	<10	<1	<1	22	<6	4	9	850	81
AUG 16...	<0.1	<10	1	<1	<1	32	<6	4	5	263	86

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L) (22703)
AUG 1989* 24...	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.08	0.36
APR 1990 09...	Analysis will be published in the 1991 water year report.							
AUG 16...	Analysis will be published in the 1991 water year report.							

* Analysis from the 1989 water year.

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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[illegible]

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990[illegible]

PENOBSCOT RIVER BASIN

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

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WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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

01036390 - PENOBSCOT RIVER AT EDDINGTON. ME--Continued

WATER TEMPERATURE. (DEG. C). WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		
OCTOBER					NOVEMBER					DECEMBER					JANUARY		
1	10.8	10.4	10.6		---	---	---		---	---	---		---	---	---		
2	10.7	10.3	10.5		---	---	---		---	---	---		---	---	---		
3	10.3	10.1	10.2		---	---	---		---	---	---		---	---	---		
4	10.7	10.2	10.4		---	---	---		---	---	---		---	---	---		
5	10.9	10.6	10.7		---	---	---		---	---	---		---	---	---		
6	10.9	10.8	10.9		---	---	---		---	---	---		---	---	---		
7	11.1	10.8	10.9		---	---	---		---	---	---		---	---	---		
8	11.2	10.9	11.0		---	---	---		---	---	---		---	---	---		
9	11.3	11.1	11.2		---	---	---		---	---	---		---	---	---		
10	11.4	11.2	11.3		---	---	---		---	---	---		---	---	---		
11	11.4	11.3	11.3		---	---	---		---	---	---		---	---	---		
12	11.4	11.2	11.3		---	---	---		---	---	---		---	---	---		
13	11.3	11.0	11.2		---	---	---		---	---	---		---	---	---		
14	11.3	11.0	11.1		---	---	---		---	---	---		---	---	---		
15	11.3	11.1	11.2		---	---	---		---	---	---		---	---	---		
16	11.1	11.0	11.1		---	---	---		---	---	---		---	---	---		
17	11.3	11.1	11.2		---	---	---		---	---	---		---	---	---		
18	11.7	11.4	11.5		---	---	---		---	---	---		---	---	---		
19	12.0	11.7	11.8		---	---	---		---	---	---		---	---	---		
20	11.8	11.2	11.4		---	---	---		---	---	---		---	---	---		
21	11.3	11.0	11.1		---	---	---		---	---	---		---	---	---		
22	11.4	11.2	11.3		---	---	---		---	---	---		---	---	---		
23	11.8	11.6	11.7		---	---	---		---	---	---		---	---	---		
24	11.9	11.5	11.7		---	---	---		---	---	---		---	---	---		
25	11.6	11.4	11.5		---	---	---		---	---	---		---	---	---		
26	11.6	11.4	11.5		---	---	---		---	---	---		---	---	---		
27	11.9	11.4	11.5		---	---	---		---	---	---		---	---	---		
28	11.8	11.4	11.6		---	---	---		---	---	---		---	---	---		
29	11.8	11.5	11.6		---	---	---		---	---	---		---	---	---		
30	11.8	11.4	11.6		---	---	---		---	---	---		---	---	---		
31	11.6	10.9	11.3		---	---	---		---	---	---		---	---	---		
MONTH	12.0	10.1	11.2		---	---	---		---	---	---		---	---	---		

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	11.8	11.2	11.6
2	---	---	---	---	---	---	---	---	---	11.4	11.0	11.2
3	---	---	---	---	---	---	---	---	---	11.4	10.6	11.1
4	---	---	---	---	---	---	---	---	---	11.0	10.5	10.8
5	---	---	---	---	---	---	---	---	---	10.9	10.5	10.6
6	---	---	---	---	---	---	---	---	---	11.2	10.8	11.0
7	---	---	---	---	---	---	---	---	---	11.3	10.9	11.1
8	---	---	---	---	---	---	---	---	---	11.1	10.8	11.0
9	---	---	---	---	---	---	---	---	---	11.0	10.5	10.8
10	---	---	---	---	---	---	---	---	---	10.5	10.0	10.3
11	---	---	---	---	---	---	---	---	---	10.3	9.9	10.0
12	---	---	---	---	---	---	---	---	---	10.9	10.3	10.6
13	---	---	---	---	---	---	---	---	---	10.4	10.2	10.3
14	---	---	---	---	---	---	---	---	---	10.8	10.2	10.4
15	---	---	---	---	---	---	---	---	---	10.7	10.2	10.4
16	---	---	---	---	---	---	---	---	---	10.5	9.7	10.0
17	---	---	---	---	---	---	---	---	---	9.9	9.7	9.8
18	---	---	---	---	---	---	---	---	---	10.2	9.8	10.0
19	---	---	---	---	---	---	---	---	---	10.6	10.2	10.5
20	---	---	---	---	---	---	---	---	---	10.7	10.3	10.5
21	---	---	---	---	---	---	---	---	---	10.6	10.2	10.4
22	---	---	---	---	---	---	---	---	---	10.6	9.8	10.2
23	---	---	---	---	---	---	---	---	---	10.2	9.8	10.0
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	11.8	9.7	10.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	---	---	---	8.0	7.7	7.8	---	---	---
2	---	---	---	---	---	---	8.0	7.8	7.9	---	---	---
3	---	---	---	---	---	---	8.1	7.8	7.9	---	---	---
4	---	---	---	---	---	---	8.0	7.5	7.8	---	---	---
5	---	---	---	---	---	---	7.9	7.5	7.7	---	---	---
6	---	---	---	8.8	8.5	8.6	7.6	7.3	7.5	---	---	---
7	9.8	9.4	9.6	9.1	8.7	8.9	7.5	7.2	7.4	---	---	---
8	9.6	9.0	9.4	9.4	8.8	9.1	7.5	7.3	7.4	---	---	---
9	9.1	9.0	9.0	9.0	8.4	8.8	7.5	7.3	7.4	---	---	---
10	9.4	9.1	9.3	8.7	8.2	8.5	7.4	7.1	7.3	---	---	---
11	9.7	9.4	9.6	8.8	8.3	8.5	7.4	7.2	7.3	---	---	---
12	9.7	9.4	9.6	9.4	8.5	8.8	8.1	7.3	7.8	---	---	---
13	---	---	---	9.0	8.4	8.7	8.5	8.1	8.4	---	---	---
14	---	---	---	8.7	8.2	8.5	8.5	8.4	8.5	---	---	---
15	---	---	---	8.5	8.0	8.3	8.8	8.5	8.7	---	---	---
16	---	---	---	8.4	8.0	8.2	8.9	8.7	8.8	---	---	---
17	---	---	---	8.6	7.8	8.2	8.7	8.3	8.6	---	---	---
18	---	---	---	---	---	---	8.3	8.0	8.2	---	---	---
19	---	---	---	8.3	7.6	8.0	8.4	8.0	8.2	9.2	9.0	9.1
20	---	---	---	8.0	7.6	7.8	8.8	8.2	8.5	9.2	9.0	9.1
21	---	---	---	8.4	7.5	7.9	8.7	8.3	8.5	9.4	9.2	9.3
22	---	---	---	8.1	7.8	7.9	8.9	8.4	8.6	9.4	9.2	9.3
23	---	---	---	8.0	7.7	7.8	8.7	8.3	8.5	9.5	9.2	9.4
24	---	---	---	8.0	7.8	7.9	8.5	8.0	8.3	9.9	9.4	9.7
25	---	---	---	8.8	7.8	8.1	8.2	7.9	8.1	10.1	9.9	10.0
26	---	---	---	8.9	8.7	8.8	8.1	7.8	8.0	10.0	9.9	9.9
27	---	---	---	8.8	8.6	8.7	7.9	7.6	7.8	9.9	9.8	9.9
28	---	---	---	8.6	8.4	8.6	---	---	---	9.9	9.6	9.8
29	---	---	---	8.5	8.2	8.4	---	---	---	9.8	9.7	9.7
30	---	---	---	8.4	8.0	8.3	---	---	---	9.8	9.7	9.8
31	---	---	---	8.2	8.0	8.1	---	---	---	---	---	---
MONTH	9.8	9.0	9.4	9.4	7.5	8.4	8.9	7.1	8.0	10.1	9.0	9.6
PERIOD	12.8	7.1	9.9									

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 Georgia-Pacific Corporation, Northern Paper Division.
- 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 Georgia-Pacific Corporation, Northern Paper Division.
- 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 1989 TO SEPTEMBER 1990

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, 1989.....	37,420	3,284	1,148
Oct. 31.....	32,456	1,981	1,284
Nov. 30.....	34,044	3,352	1,866
Dec. 31.....	30,081	3,487	1,584
Jan. 31, 1990.....	25,353	3,479	1,393
Feb. 28.....	22,277	3,063	1,012
Mar. 31.....	26,363	3,517	1,556
Apr. 30.....	48,175	5,392	1,808
May 31.....	56,882	6,084	2,042
June 30.....	57,225	5,970	2,013
July 31.....	52,392	5,440	1,984
Aug. 31.....	49,020	5,144	1,954
Sept. 30.....	44,004	2,712	1,257

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

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.

Chemical analyses: Water years 1954-56.

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. 8-10, Dec. 12 to Jan. 1, Jan. 14-15, 20-22, Feb. 5-6, 20-21, 25-27, Mar. 1, 5-8, and 20. Records good including the periods of ice effect, Dec. 8-10, Dec. 12 to Jan. 1, Jan. 14-15, 20-22, Feb. 5-6, 20-21, 25-27, Mar. 1, and 5-8, and day of doubtful gage-height record, Mar. 20. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--52 years, 248 ft³/s, 23.23 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)
Mar. 21	1200	*1,450	*5.67	Apr. 16	0100	1,120	5.09

Minimum discharge, 27 ft³/s, Oct. 10, 11, gage height, 1.93 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	230	211	e108	244	e262	390	248	320	236	132	45
2	31	225	192	130	241	250	407	234	295	209	111	43
3	34	201	193	130	234	241	406	212	275	184	94	42
4	34	268	189	119	225	230	635	193	256	167	82	42
5	33	254	179	115	e211	e211	733	197	234	156	73	40
6	31	242	171	111	e203	e193	646	256	208	139	67	38
7	30	240	170	106	193	e180	610	236	189	122	63	38
8	29	230	e161	101	182	e166	553	244	176	109	61	40
9	29	283	e150	97	178	160	490	223	160	98	59	38
10	28	445	e137	94	228	158	461	209	162	90	55	38
11	35	411	130	97	310	181	853	418	238	82	208	37
12	63	345	e125	103	306	230	807	401	242	74	572	37
13	60	309	e115	103	287	263	683	381	209	68	355	37
14	51	287	e108	e99	273	277	633	693	195	62	302	35
15	47	275	e102	e91	264	333	740	564	180	57	288	36
16	47	285	e99	88	261	399	1050	497	165	53	259	38
17	53	372	e97	87	260	498	907	465	150	50	228	37
18	76	322	e96	98	248	929	881	508	136	48	196	35
19	71	286	e94	123	228	1060	782	476	123	45	169	33
20	78	268	e94	e115	e214	e1150	696	426	116	44	142	38
21	248	333	e91	e104	e198	e1390	700	379	110	48	121	40
22	204	319	e88	e102	188	e1260	689	365	101	51	105	41
23	160	306	e83	102	278	e1220	594	345	104	51	89	50
24	150	278	e82	101	369	e1120	526	311	275	76	80	59
25	145	259	e80	103	e332	e962	465	282	227	256	73	50
26	140	252	e78	134	e308	e833	412	257	265	288	67	45
27	133	239	e73	225	e292	e712	369	233	250	194	62	42
28	125	234	e70	232	282	606	336	210	246	179	57	40
29	118	253	e68	229	---	519	295	191	239	172	52	38
30	110	229	e67	239	---	444	265	382	237	154	50	40
31	104	---	e65	243	---	404	---	410	---	145	47	---
TOTAL	2529	8480	3658	3929	7037	16841	18014	10446	6083	3707	4319	1212
MEAN	81.6	283	118	127	251	543	600	337	203	120	139	40.4
MAX	248	445	211	243	369	1390	1050	693	320	288	572	59
MIN	28	201	65	87	178	158	265	191	101	44	47	33
CFSM	.56	1.95	.81	.87	1.73	3.75	4.14	2.32	1.40	.82	.96	.28
IN.	.65	2.18	.94	1.01	1.81	4.32	4.62	2.68	1.56	.95	1.11	.31

CAL YR 1989 TOTAL 91365 MEAN 250 MAX 2520 MIN 16 CFSM 1.73 IN. 23.44
WTR YR 1990 TOTAL 86255 MEAN 236 MAX 1390 MIN 28 CFSM 1.63 IN. 22.13

e Estimated

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

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

DRAINAGE AREA.--1,266 mi².

PERIOD OF RECORD.--Gage height: March 1895 to current year. Chemical analyses: Water year 1958.

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, 17.60 ft, June 20, 21; minimum observed, 13.98 ft, Oct. 16.

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

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.98	14.16	15.40	15.26	15.18	14.73	15.23	17.44	17.16	17.50	16.94	16.17
2	14.92	14.16	15.44	15.23	15.18	14.70	15.24	17.45	17.12	17.51	16.89	16.12
3	14.85	14.17	15.47	15.21	15.17	14.69	15.28	17.44	17.10	17.47	16.83	16.08
4	14.81	14.19	15.54	15.20	15.16	14.68	15.30	17.44	17.10	17.44	16.81	16.00
5	14.70	14.18	15.53	15.19	15.17	14.67	15.42	17.40	17.12	17.45	16.77	15.92
6	14.62	14.17	15.52	15.17	15.16	14.62	15.55	17.43	17.14	17.39	16.71	15.86
7	14.60	14.18	15.54	15.16	15.13	14.58	15.64	17.38	17.12	17.35	16.70	15.79
8	14.53	14.26	15.55	15.16	15.09	14.52	15.73	17.39	17.13	17.33	16.71	15.78
9	14.47	14.28	15.55	15.16	15.05	14.48	15.78	17.39	17.12	17.33	16.72	15.66
10	14.40	14.37	15.52	15.15	15.08	14.47	15.82	17.37	17.13	17.30	16.70	15.60
11	14.30	14.43	15.51	15.15	15.07	14.43	15.96	17.42	17.28	17.30	16.70	15.55
12	14.26	14.51	15.50	15.14	15.06	14.38	16.07	17.37	17.33	17.28	16.78	15.46
13	14.20	14.51	15.48	15.14	15.03	14.34	16.13	17.36	17.37	17.25	16.78	15.40
14	14.11	14.57	15.46	15.14	15.05	14.36	16.17	17.33	17.39	17.22	16.83	15.30
15	14.02	14.60	15.45	15.10	15.04	14.36	16.25	17.30	17.40	17.17	16.79	15.20
16	13.98	14.62	15.45	15.10	15.05	14.37	16.36	17.26	17.40	17.13	16.80	15.18
17	14.02	14.73	15.50	15.08	15.05	14.36	16.45	17.21	17.42	17.09	16.79	15.13
18	14.02	14.81	15.51	15.08	15.02	14.46	16.56	17.20	17.40	17.09	16.74	15.04
19	14.02	14.88	15.48	15.06	14.98	14.52	16.61	17.20	17.52	17.06	16.73	14.95
20	13.99	14.92	15.47	15.06	14.98	14.66	16.68	17.21	17.60	17.03	16.67	14.88
21	13.99	15.06	15.44	15.05	14.93	14.82	16.78	17.18	17.60	17.08	16.60	14.81
22	14.00	15.09	15.43	15.03	14.89	14.91	16.89	17.17	17.55	17.04	16.58	14.73
23	14.06	15.09	15.43	15.02	14.88	14.96	17.00	17.17	17.50	17.06	16.51	14.80
24	14.09	15.15	15.40	15.02	14.87	15.00	17.08	17.16	17.47	17.12	16.50	14.82
25	14.14	15.17	15.40	15.01	14.88	15.03	17.18	17.17	17.44	17.14	16.44	14.78
26	14.16	15.21	15.37	15.04	14.85	15.07	17.24	17.15	17.43	17.13	16.40	14.72
27	14.18	15.27	15.35	15.08	14.80	15.13	17.31	17.15	17.45	17.12	16.36	14.69
28	14.16	15.30	15.31	15.07	14.75	15.15	17.37	17.12	17.43	17.11	16.35	14.62
29	14.16	15.40	15.29	15.06	---	15.19	17.41	17.17	17.42	17.08	16.35	14.59
30	14.16	15.38	15.25	15.20	---	15.20	17.43	17.22	17.41	17.04	16.30	14.54
31	14.16	---	15.23	15.20	---	15.22	---	17.18	---	16.99	16.25	---
MAX	14.98	15.40	15.55	15.26	15.18	15.22	17.43	17.45	17.60	17.51	16.94	16.17
MIN	13.98	14.16	15.23	15.01	14.75	14.34	15.23	17.12	17.10	16.99	16.25	14.54
*	13042	16980	16532	16276	14846	16436	23532	22628	23730	21918	19444	14462
#	-2596	+3938	- 448	- 256	-1430	+1590	+7096	- 904	+1102	-1812	-2474	-4982
+	65	65	69	69	67	67	74	83	95	94	90	83

CAL YR 1989 # -3168

WTR YR 1990 # -1176

* 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 at West Outlet

KENNEBEC RIVER BASIN

01042500 KENNEBEC RIVER AT THE FORKS, ME

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

DRAINAGE AREA.--1,590 mi².

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

Chemical analyses: Water years 1952-53.

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.--89 years, 2,609 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, 9,670 ft³/s, Nov. 15, gage height, 6.63 ft; minimum daily, 432 ft³/s, Jan. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2280	1160	1830	1430	2160	2840	825	4880	2980	2330	2680	2210
2	4260	1130	511	2730	2020	2190	2470	5530	2620	3400	2660	2640
3	4780	1320	576	2720	847	2170	1900	6080	2220	3830	1780	2170
4	4340	534	3480	2650	596	1320	1600	6230	3250	3380	1080	3810
5	4340	571	2760	2660	2110	3760	1370	6530	3120	3390	844	3530
6	3730	969	2000	1270	2590	4100	1950	7090	2200	2780	2130	3090
7	3150	947	1970	1160	3250	4250	2120	7080	2900	2930	2580	2460
8	2720	1820	2620	2650	3110	3720	895	5740	2290	1570	2300	2840
9	3650	1360	1960	2510	2680	3740	1690	5250	1700	2850	2340	2590
10	3770	1640	713	2510	2080	1250	1380	5650	1650	3100	1210	3740
11	4300	1260	3080	2110	2180	1570	1890	7340	2530	2690	1670	3460
12	4320	750	3140	2180	3050	4060	2460	7300	1870	2780	1730	3380
13	4060	1680	2710	845	3370	3760	1510	6660	1980	2680	2240	3610
14	4530	1700	2570	1360	3360	3750	1580	7130	1910	1220	1740	3220
15	1310	2550	2750	2480	2480	3280	1350	6670	1840	1760	1680	2230
16	4230	2680	739	2420	3300	2790	2020	5790	1490	3180	1750	2040
17	3580	1600	755	2330	2740	857	1790	6330	1270	2750	2190	3310
18	3030	1340	3030	1660	883	1520	2030	6380	3010	2810	1560	3360
19	2980	1530	3070	1920	3030	2280	1920	6420	4170	2640	1730	3560
20	3040	1540	3100	960	3670	2150	1820	6350	4240	1960	2730	2990
21	1710	1830	3170	898	3470	1710	1770	5930	6130	864	3170	3200
22	1470	1820	3270	2130	3490	1630	2310	5080	6230	845	3200	2730
23	1190	739	2250	2180	2630	2300	2220	5170	5990	2080	3160	2770
24	1140	1570	1210	1930	1740	1140	2280	4780	6110	2330	2720	2710
25	1800	640	1830	1970	1060	1020	2470	4370	5900	1650	1130	2790
26	1760	605	3570	1890	3170	1560	2860	2940	4620	1910	973	3320
27	2050	1460	3720	860	4000	1500	3160	3250	3860	2210	3560	2650
28	671	1390	2710	432	4210	1930	4450	2450	3430	1360	3450	2750
29	598	1810	2910	2040	---	1870	4500	2500	3350	1270	2970	3120
30	1040	1860	2280	2230	---	1930	4770	3270	2760	2610	3200	1660
31	1140	---	1660	2180	---	714	---	3290	---	2780	3140	---
TOTAL	86969	41805	71944	59295	73276	72661	65360	169460	97620	73939	69297	87940
MEAN	2805	1393	2321	1913	2617	2344	2179	5466	3254	2385	2235	2931
MAX	4780	2680	3720	2730	4210	4250	4770	7340	6230	3830	3560	3810
MIN	598	534	511	432	596	714	825	2450	1270	845	844	1660

CAL YR 1989 TOTAL 870513 MEAN 2385 MAX 12100 MIN 245
WTR YR 1990 TOTAL 969566 MEAN 2656 MAX 7340 MIN 432

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.

Chemical analyses: Water years 1966 to 1978.

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. 2 to Nov. 29, Dec. 22 to Jan. 8, Jan. 14, 21, 30, Feb. 3-5, 18, 26, and Mar. 6-8. Records good except for period of no gage-height record, Oct. 2 to Nov. 29, period of doubtful gage-height record Dec. 22 to Jan. 8, and periods of ice effect, Jan. 14, 21, 30, Feb. 3-5, 18, 26, and Mar. 6-8, 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.--62 years (water years 1908-09, 1931 to current year), 4,432 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, 16,000 ft³/s, May 20, gage height, 10.43 ft; minimum daily, 1,970 ft³/s, Jan. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3570	e3450	4010	e3120	3060	4270	2630	7250	3890	4170	3100	4210
2	e4000	e3250	4050	e3000	2970	4050	2720	6900	4170	5030	3260	4270
3	e3800	e3280	3960	e2980	e3070	3790	2500	7100	3590	4770	2880	4370
4	e3950	e3340	4280	e2850	e3190	3950	2210	7010	4190	4450	3030	4040
5	e4200	e3380	4360	e2500	e3450	4310	4410	6930	4550	4770	3230	3940
6	e4200	e3370	4260	e2530	3620	e4320	6490	7550	3870	3890	2960	4490
7	e4180	e3360	4190	e2650	3810	e4330	5120	8650	4140	3740	3380	4520
8	e4150	e3400	4080	e2500	3870	e4200	3270	8110	3570	3610	3000	4240
9	e4200	e3000	4310	2610	3820	4230	2850	6840	3130	3540	2800	4290
10	e4100	e3100	4210	2690	3780	3990	3270	6980	3540	3140	2900	4280
11	e3900	e3100	4280	2580	3730	3860	5730	12600	3800	3100	3010	4220
12	e3700	e2530	4250	2630	3760	4460	6660	12000	3370	3190	4530	4230
13	e3880	e2750	3930	2610	3780	3930	4840	11300	3380	3260	4420	4250
14	e3930	e3000	3830	e2600	3800	3900	4120	10900	2930	3230	3210	4190
15	e3900	e3200	3850	2710	4100	3600	3950	10400	3460	3040	2590	4190
16	e3900	e3250	3790	2650	4300	3400	3990	9570	3240	3660	3080	4210
17	e3450	e3500	3730	2580	4400	2660	5180	10400	3410	2950	3570	4000
18	e2800	e3100	3780	2450	e4380	6160	5340	10900	3210	3310	3830	3650
19	e2780	e2380	3780	2490	4310	7740	4590	10100	4070	3070	4580	3790
20	e2900	e2550	3660	2510	4400	6420	4280	12200	6150	3160	4220	3430
21	e3050	e2680	3680	e2580	4680	4700	4330	9440	7490	2960	4050	3570
22	e3350	e3600	e3640	2630	4040	4450	4500	8350	8240	3050	4220	3150
23	e2400	e3450	e3540	2550	3870	3970	6090	7650	7960	3000	4390	4460
24	e2700	e3400	e3480	2540	3980	3910	5270	6330	9510	2860	4000	4660
25	e3380	e3400	e3420	2890	4120	3980	5150	6120	8950	3160	3960	3570
26	e3370	e3400	e3700	3170	e4100	3440	5960	5770	7090	3070	3980	3460
27	e3450	e3400	e3520	2720	4260	3540	5760	4150	5100	2710	4200	3460
28	e3600	e3600	e3320	2110	4040	2650	8270	4920	5370	2970	4100	3560
29	e3700	e4080	e3200	1970	---	2260	9710	5250	4870	3130	4150	3480
30	e3740	4090	e3150	e2280	---	2630	8090	4750	4210	3020	4430	3500
31	e3650	---	e3100	2780	---	2590	---	3980	---	3100	4300	---
TOTAL	111880	97390	118340	81460	108690	125690	147280	250400	144450	106110	113360	119680
MEAN	3609	3246	3817	2628	3882	4055	4909	8077	4815	3423	3657	3989
MAX	4200	4090	4360	3170	4680	7740	9710	12600	9510	5030	4580	4660
MIN	2400	2380	3100	1970	2970	2260	2210	3980	2930	2710	2590	3150

CAL YR 1989 TOTAL 1516610 MEAN 4155 MAX 27600 MIN 1180

WTR YR 1990 TOTAL 1524730 MEAN 4177 MAX 12600 MIN 1970

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.--Discharge: November and December 1901, June 1902 to May 1907, August 1925 to current year.

Monthly discharge only for some periods, published in WSP 1301.

Chemical analyses: Water years 1953-54, 1961.

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

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

REMARKS.--Estimated daily discharges: Nov. 21 to Mar. 18, and Mar. 22-27. Records good except for period of ice effect, Nov. 21 to Mar. 18, and period of doubtful gage-height record Mar. 22-27, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--69 years (water years 1903-06, 1926-current year), 720 ft³/s, 27.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,700 ft³/s, Apr. 1, 1987, gage height, 26.66 ft, from rating extended above 27,000 ft³/s on basis of slope-area measurements; 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)
Mar. 18	0900	*9,630	*11.12	May 11	1100	6,610	9.27
Apr. 4	2000	6,030	8.89				

Minimum discharge, 71 ft³/s, Sept. 2, gage height, 2.65 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	530	e338	e205	e710	e415	554	1160	497	422	110	86
2	269	681	e322	e260	e680	e400	726	987	414	486	103	84
3	299	512	e315	e430	e610	e396	746	735	367	412	97	82
4	321	644	e304	e395	e570	e393	3010	627	377	338	92	77
5	281	532	e293	e325	e520	e389	4640	666	389	319	89	75
6	261	477	e288	e264	e495	e375	3060	1140	347	295	89	75
7	251	714	e282	e236	e475	e363	2330	1120	341	265	117	79
8	243	660	e274	e220	e455	e350	1800	1580	354	245	360	82
9	229	963	e270	e206	e440	e352	1440	1160	322	235	514	82
10	215	2720	e265	e200	e510	e370	1490	809	407	242	244	83
11	228	1760	e260	e199	e820	e490	3360	4100	901	220	535	97
12	409	1140	e257	e206	e910	e660	2840	2870	1140	201	1140	97
13	356	723	e253	e220	e780	e735	1980	1830	652	191	507	90
14	296	562	e250	e214	e625	e800	1570	1990	471	181	722	86
15	265	546	e248	e205	e545	e970	1770	1540	378	173	670	94
16	249	722	e247	e200	e475	e1740	2530	1260	329	168	431	299
17	249	3090	e243	e228	e435	e3570	2430	1100	307	155	318	187
18	295	1850	e240	e260	e410	e8500	2190	1310	293	124	267	131
19	325	1350	e235	e323	e385	7030	1660	1680	369	123	234	111
20	345	896	e233	e370	e370	5570	1490	1570	1180	111	207	118
21	2160	e619	e230	e350	e355	5160	1510	1230	966	110	176	145
22	1590	e575	e228	e290	e345	e4500	1660	1140	900	112	188	127
23	1200	e520	e226	e258	e460	e3680	1730	928	721	122	178	400
24	751	e485	e224	e249	e880	e2110	1690	801	1330	331	170	460
25	481	e455	e222	e247	e1000	e1360	1610	707	1340	304	162	294
26	436	e430	e220	e370	e710	e1160	1400	623	973	229	158	236
27	404	e410	e219	e1180	e530	e912	1630	553	584	174	155	207
28	377	e392	e218	e1130	e435	817	1910	493	400	156	153	190
29	356	e375	e215	e910	---	674	1590	420	348	138	107	176
30	339	e354	e211	e780	---	530	1260	574	426	125	94	199
31	325	---	e210	e745	---	551	---	669	---	117	90	---
TOTAL	14090	25687	7840	11675	15935	55322	57606	37372	17823	6824	8477	4549
MEAN	455	856	253	377	569	1785	1920	1206	594	220	273	152
MAX	2160	3090	338	1180	1000	8500	4640	4100	1340	486	1140	460
MIN	215	354	210	199	345	350	554	420	293	110	89	75
CFSM	1.29	2.43	.72	1.07	1.61	5.06	5.44	3.42	1.68	.62	.77	.43
IN.	1.48	2.71	.83	1.23	1.68	5.83	6.07	3.94	1.88	.72	.89	.48

CAL YR 1989 TOTAL 270437 MEAN 741 MAX 10800 MIN 88 CFSM 2.10 IN. 28.50
WTR YR 1990 TOTAL 263200 MEAN 721 MAX 8500 MIN 75 CFSM 2.04 IN. 27.74

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.--Discharge: October 1929 to September 1979, June 1987 to current year.

Chemical analyses: Water year 1954.

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: Nov. 21 to Mar. 18. Records good except for period of ice effect, Nov. 21 to Mar. 18, and period of doubtful gage-height record, Dec. 20 to Jan. 2, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--54 years, (water years 1929-1979, 1988 to current year) 971 ft³/s 25.65 in/yr.

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 maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 18	1615	ice jam	*11.26	Apr. 5	0115	7,590	8.21
Mar. 18	1745	*8,630	8.59	May 11	1815	7,460	8.16

Minimum discharge 109 ft³/sec, Sept. 6, 7, gage height, 2.83 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	625	e435	e269	e1170	e880	1000	1190	914	773	189	134
2	240	1040	e420	e355	e1080	e850	1180	1100	742	695	167	128
3	278	752	e415	e650	e1010	e820	1350	951	624	647	152	123
4	356	968	e405	e720	e945	e810	3850	805	591	518	140	118
5	311	845	e395	e580	e890	e750	6200	839	658	478	131	113
6	266	673	e385	e535	e840	e670	3840	1780	564	497	124	111
7	249	861	e380	e483	e790	e590	2900	1420	524	393	130	110
8	240	912	e370	e435	e650	e535	2220	1650	663	337	295	112
9	228	1020	e360	e392	e610	e500	1840	1380	571	320	1220	111
10	203	3090	e355	e375	e750	e490	1810	1140	681	323	570	116
11	204	1810	e348	e418	e1090	e700	3780	4380	1300	306	747	119
12	351	1240	e342	e450	e1480	e880	3940	3820	2060	264	2640	129
13	456	985	e335	e430	e1210	e995	2450	2170	1130	238	1090	131
14	332	827	e330	e380	e1050	e1080	1960	3590	787	222	1080	125
15	297	776	e325	e338	e940	e1210	2200	2400	613	206	1300	135
16	259	871	e320	e326	e840	e1850	3440	1800	507	199	739	239
17	249	2750	e316	e360	e780	e2470	2710	1490	448	193	532	344
18	303	1880	e312	e415	e715	e6210	2530	1860	408	183	447	224
19	416	1250	e306	e530	e670	6320	1890	2730	383	181	357	178
20	421	1010	e302	e570	e630	4430	1650	2180	1390	185	298	171
21	2250	e866	e299	e600	e600	4700	1650	1590	1180	185	257	173
22	2110	e776	e295	e470	e570	3780	1910	1570	1150	187	228	191
23	1160	e683	e290	e375	e860	3320	1930	1510	1070	201	211	326
24	832	e620	e288	e345	e1250	2940	1920	1250	2560	375	198	688
25	696	e575	e285	e340	e1550	2170	1700	1080	1900	695	187	398
26	598	e530	e282	e510	e1300	1890	1560	931	1520	522	178	288
27	514	e500	e280	e1270	e1100	1520	1600	817	994	383	171	238
28	500	e480	e277	e2120	e960	1260	1910	724	769	312	164	210
29	454	e465	e275	e1580	---	1150	1730	645	618	264	157	191
30	408	e445	e272	e1370	---	1060	1440	1030	712	229	149	206
31	374	---	e270	e1250	---	1010	---	1310	---	206	141	---
TOTAL	15823	30125	10269	19241	26330	57840	70090	51132	28031	10717	14389	5880
MEAN	510	1004	331	621	940	1866	2336	1649	934	346	464	196
MAX	2250	3090	435	2120	1550	6320	6200	4380	2560	773	2640	688
MIN	203	445	270	269	570	490	1000	645	383	181	124	110
CFSM	.99	1.95	.64	1.21	1.83	3.63	4.55	3.21	1.82	.67	.90	.38
IN.	1.15	2.18	.74	1.39	1.91	4.19	5.07	3.70	2.03	.78	1.04	.43

CAL YR 1989 TOTAL 368933 MEAN 1011 MAX 20000 MIN 86 CFSM 1.97 IN. 26.70
WTR YR 1990 TOTAL 339867 MEAN 931 MAX 6320 MIN 110 CFSM 1.81 IN. 24.60

e Estimated

KENNEBEC RIVER BASIN

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

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

DRAINAGE AREA.--572 mi².

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

Chemical analyses: Water year 1952-53.

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: Dec. 1, 5, 8-10, 12, Jan. 27 to Feb. 7, Feb. 12-21, Feb. 25 to Mar. 1 and Mar. 6-8. Records good except for periods of ice effect, Dec. 1, 5, 8-10, 12, Jan. 27 to Feb. 7, Feb. 12-21, Feb. 25 to Mar. 1 and Mar. 6-8, 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. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--61 years (water years 1930 to current year), 955 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, 5,380 ft³/s, Mar. 23, gage-height, 7.62 ft, minimum daily, 35 ft³/s, July 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	573	e882	293	e1000	e690	1810	997	2050	1100	768	228
2	712	703	818	401	e1000	684	1720	930	1910	1130	687	199
3	689	859	809	367	e996	661	1680	828	1590	1220	524	210
4	659	997	793	377	e987	637	1720	667	1250	1230	318	200
5	661	1120	e770	302	e969	634	1900	660	1070	1080	317	159
6	551	1110	757	307	e951	e544	2100	766	849	919	170	340
7	470	1060	730	362	e908	e487	2210	787	748	753	45	652
8	479	1030	e596	349	841	e511	2200	822	726	595	80	644
9	584	1070	e388	338	753	508	2090	832	798	447	132	657
10	488	1230	e251	268	702	448	1960	823	852	206	203	623
11	528	1380	334	217	703	430	2210	987	1360	100	506	569
12	647	1430	e224	384	e744	474	2580	1170	1850	35	1250	539
13	606	1430	356	397	e778	552	2710	1270	1960	38	1600	521
14	343	1360	426	352	e778	663	2620	1700	1770	53	1690	476
15	326	1310	436	332	e770	964	2510	2050	1570	167	1600	410
16	265	1290	364	325	e770	1200	2690	2210	1360	198	1520	623
17	255	1410	269	344	e763	1510	2920	2250	1210	204	1390	629
18	351	1510	219	345	e712	2060	3060	2340	1030	198	1260	591
19	374	1500	286	333	e662	2690	3020	2360	1000	176	1160	550
20	370	1450	322	330	e648	3330	2850	2470	1020	175	952	643
21	383	1450	293	330	e635	3910	2700	2400	977	186	728	812
22	404	1380	308	330	596	4360	2570	2160	835	190	620	842
23	514	1270	437	331	569	4510	2450	2010	756	172	564	880
24	548	1180	439	330	594	4370	2310	1990	1120	209	500	843
25	588	1090	292	331	e691	4110	2120	1860	1330	311	446	770
26	677	1020	212	495	e704	3820	1920	1600	1420	1080	384	732
27	661	976	226	e843	e697	3460	1730	1350	1390	1330	258	694
28	616	940	367	e866	e690	3100	1490	1180	1350	1340	240	619
29	581	913	388	e979	---	2660	1270	1070	1320	1230	220	574
30	567	900	373	e1020	---	2290	1130	1320	1200	1050	222	536
31	543	---	235	e1020	---	2030	---	1770	---	885	245	---
TOTAL	16198	34941	13600	13598	21611	58297	66250	45629	37671	18007	20599	16765
MEAN	523	1165	439	439	772	1881	2208	1472	1256	581	664	559
MAX	758	1510	882	1020	1000	4510	3060	2470	2050	1340	1690	880
MIN	255	573	212	217	569	430	1130	660	726	35	45	159

CAL YR 1989 TOTAL 359564 MEAN 985 MAX 7540 MIN 15
WTR YR 1990 TOTAL 363166 MEAN 995 MAX 4510 MIN 35

e Estimated

01049130 JOHNSON BROOK AT SOUTH ALBION, ME

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

DRAINAGE AREA.--2.92 mi².

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

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

REMARKS.--Estimated daily discharges: Dec. 1-2, Dec. 5 to Jan. 1, and Jan. 4-8, 14-17, 19-24, 26, Feb. 3-8, 11-18, Feb. 23 to Mar. 3, and July 16 to Aug. 9. Records are good except for winter period, Dec. 1 to Mar. 3, and for flows below 1.5 ft³/s, which are fair, and period of no gage height record, July 16 to Aug. 9, which is poor.

AVERAGE DISCHARGE.--10 years, 4.57 ft³/s, 21.25 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)
Mar. 18	0900	40	10.01	May 30	1000	30	9.79
Apr. 11	1030	39	10.00	Aug. 11	1545	*47	*10.17
May 14	1400	34	9.88				

Minimum discharge, .14 ft³/s, Sept. 19, gage-height, 8.35 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	4.6	e3.2	e1.9	5.9	e4.8	4.7	1.7	7.6	1.7	e.83	.20
2	.26	8.1	e3.1	2.0	5.6	e4.5	5.4	3.6	5.8	1.4	e.72	.61
3	.40	7.0	3.5	1.7	e4.8	e4.2	6.1	2.4	2.9	1.3	e.66	.81
4	.33	8.8	2.5	e1.7	e4.5	4.0	14	1.9	2.8	1.3	e.60	.40
5	.26	8.9	e1.7	e1.9	e4.2	3.8	16	2.7	2.2	1.4	e.55	.36
6	.25	7.4	e1.6	e2.1	e4.5	3.9	11	3.9	2.1	.96	e.62	.30
7	.25	6.5	e1.9	e2.0	e4.2	3.9	7.5	4.0	1.7	.82	e.64	.49
8	.21	5.8	e1.7	e1.9	e2.8	3.9	6.2	4.2	1.7	.72	e.56	.49
9	.18	5.7	e1.6	1.8	3.0	3.0	5.4	3.6	1.7	.86	e.50	.32
10	.15	8.9	e1.5	1.8	7.4	3.1	4.1	1.9	1.8	.70	.63	.42
11	.54	8.9	e1.4	1.9	e9.5	4.8	26	9.8	4.0	.47	20	.42
12	1.5	7.0	e1.3	2.0	e8.3	5.4	24	9.1	3.4	.45	27	.38
13	1.2	5.0	e1.2	2.1	e7.1	8.2	13	9.8	2.8	.46	18	.29
14	1.2	3.9	e1.2	e2.0	e6.2	9.7	8.9	28	2.4	.33	7.3	.29
15	.96	3.4	e1.2	e1.8	e5.4	12	14	22	2.0	.28	3.9	.39
16	.91	3.8	e1.1	e1.6	e5.0	14	21	10	1.7	e.26	2.7	.41
17	1.0	6.2	e1.1	e1.5	e4.5	19	18	6.5	1.5	e.28	2.2	.28
18	1.4	8.3	e1.0	3.7	e4.2	38	14	8.9	1.3	e.24	1.8	.22
19	1.5	4.5	e1.0	e3.0	4.0	37	9.4	9.2	1.1	e.21	1.6	.16
20	1.3	6.8	e.97	e2.7	3.6	34	7.6	8.0	.83	e.41	1.3	.49
21	6.6	6.4	e.94	e2.6	3.3	34	9.1	5.9	.59	e.43	1.1	.39
22	9.5	5.0	e.90	e2.5	3.1	27	8.7	6.4	.67	e.35	1.0	.29
23	7.3	4.4	e.88	e2.4	e16	22	6.9	5.2	1.8	e.64	.89	1.1
24	5.0	3.6	e.86	e2.3	e14	14	5.8	4.3	5.1	e1.5	.80	.66
25	3.6	3.1	e.83	2.3	e9.8	10	4.7	3.6	3.2	e3.0	.65	.49
26	2.4	3.2	e.81	e5.7	e6.8	8.0	4.1	3.2	2.5	e2.0	.65	.47
27	2.0	3.1	e.79	9.1	e5.4	6.5	3.8	2.8	2.0	e2.2	.61	.47
28	2.3	3.5	e.77	8.6	e5.0	5.5	3.5	2.4	2.2	e1.7	.51	.43
29	2.1	4.0	e.75	8.4	---	4.5	3.0	2.1	1.5	e1.4	.41	.42
30	1.7	3.6	e.73	8.3	---	3.8	2.7	15	2.5	e1.1	.34	.36
31	1.4	---	e.94	7.3	---	4.8	---	14	---	e.94	.25	---
TOTAL	57.99	169.4	42.97	100.6	168.1	361.3	288.6	216.1	73.39	29.81	99.32	12.81
MEAN	1.87	5.65	1.39	3.25	6.00	11.7	9.62	6.97	2.45	.96	3.20	.43
MAX	9.5	8.9	3.5	9.1	16	38	26	28	7.6	3.0	27	1.1
MIN	.15	3.1	.73	1.5	2.8	3.0	2.7	1.7	.59	.21	.25	.16
CFSM	.64	1.93	.47	1.11	2.06	3.99	3.29	2.39	.84	.33	1.10	.15
IN.	.74	2.16	.55	1.28	2.14	4.60	3.68	2.75	.93	.38	1.27	.16

CAL YR 1989 TOTAL 1622.04 MEAN 4.44 MAX 54 MIN .03 CFSM 1.52 IN. 20.66
WTR YR 1990 TOTAL 1620.39 MEAN 4.44 MAX 38 MIN .15 CFSM 1.52 IN. 20.64

e Estimated

KENNEBEC RIVER BASIN

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

LOCATION.--Lat 44°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-83-1: 1979(M). WDR ME-86-1:1984, 1985. 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: Oct. 1 to Oct. 21, Oct. 26 to Apr. 3, July 18 to Aug. 11, and Aug. 23 to Sept. 30. Records good including period of ice effect Dec. 1 to Mar. 16, and other estimated periods. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--12 years, 8,898 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, 32,500 ft³/s, Mar. 19, gage height, 14.31 ft; minimum daily, 3,870 ft³/s, July 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5740	e6860	e7260	e4890	e7750	e8040	e8320	12600	11600	8870	e4930	e4920
2	e5830	e8230	e7140	e5280	e7650	e8100	e9200	11900	9900	8560	e4850	e4870
3	e5880	e7580	e7080	e5810	e7540	e7800	e9550	11300	8870	9460	e4650	e4860
4	e6370	e8380	e6900	e5910	e7340	e7860	13800	11100	7260	7960	e4250	e4760
5	e6190	e8240	e6880	e5240	e7150	e7720	23000	10300	6100	8250	e4300	e4660
6	e5530	e7620	e7090	e5020	e7320	e7550	21100	13200	8190	8290	e4280	e5030
7	e5720	e7860	e7090	e4970	e7490	e7310	18200	13400	7160	6890	e4110	e5690
8	e5670	e8330	e6820	e4860	e7260	e7230	14900	15800	6820	6100	e4610	e5370
9	e5740	e8840	e6500	e4760	e7070	e7060	12900	13700	7000	5830	e7130	e5330
10	e5450	e17600	e6500	e4640	e7460	e6900	12600	12100	7060	5610	e5570	e5230
11	e5470	e13800	e6610	e4430	e8340	e7370	17900	19600	9270	4770	e6370	e5140
12	e6110	e9960	e6460	e4890	e9270	e7950	24100	25900	13200	4610	10800	e5330
13	e6720	e8690	e6410	e4900	e8720	e8580	18700	19300	11100	4380	9670	e5250
14	e5820	e7970	e5840	e4570	e8390	e9090	15800	23200	8940	4560	8680	e5050
15	e5550	e8100	e5830	e4460	e8260	e10700	14900	21800	7670	4660	8800	e5060
16	e5450	e8410	e5810	e4700	e8040	e12400	20200	18300	7290	4760	6890	e5500
17	e5310	e16400	e5560	e4780	e7950	e15500	19200	17600	6970	4750	7130	e5910
18	e4980	e14400	e5630	e4790	e7800	e26000	19400	18900	6840	e4790	6980	e5360
19	e5200	e10100	e5660	e5030	e7660	e31000	16900	20100	6520	e4080	6960	e4990
20	e5470	e8840	e5720	e5100	e7590	e24000	15200	20200	9650	e3870	6770	e5080
21	e12300	e8320	e5520	e5210	e7370	e23500	14400	19300	12500	e4120	6130	e5220
22	12100	e8190	e5420	e4790	e7400	e21000	14800	15700	12700	e4240	6810	e5320
23	9370	e8140	e5250	e4670	e7810	e20500	15000	15600	12700	e4320	e5780	e6170
24	6990	e7570	e5290	e4750	e9010	e19500	15200	14000	16500	e4880	e5450	e8470
25	6770	e7400	e5180	e4800	e10200	e16800	13900	12800	17700	e6230	e5270	e6560
26	e6660	e7390	e5170	e6050	e9550	e15200	13800	11800	15400	e6490	e5190	e5600
27	e6500	e7150	e5120	e8050	e8520	e13000	13200	10600	11600	e5910	e5100	e5460
28	e6270	e6910	e5120	e10100	e8380	e11000	14200	9120	9930	e5760	e5000	e5360
29	e6160	e7020	e4850	e8300	---	e9190	15800	8650	9990	e5700	e4950	e5190
30	e5860	e7150	e4760	e7540	---	e8340	14500	10400	9580	e5400	e4990	e5290
31	e5770	---	e4780	e7670	---	e8190	---	12800	---	e5070	e5040	---
TOTAL	198950	271450	185250	170960	224290	394380	470670	471070	296010	179170	187440	162030
MEAN	6418	9048	5976	5515	8010	12720	15690	15200	9867	5780	6046	5401
MAX	12300	17600	7260	10100	10200	31000	24100	25900	17700	9460	10800	8470
MIN	4980	6860	4760	4430	7070	6900	8320	8650	6100	3870	4110	4660

CAL YR 1989 TOTAL 3333100 MEAN 9132 MAX 68500 MIN 3080
WTR YR 1990 TOTAL 3211670 MEAN 8799 MAX 31000 MIN 3870

e Estimated

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to October 1984. Seasonal records November 1984 to current year.

pH: October 1978 to October 1984. Seasonal records November 1984 to current year.

WATER TEMPERATURE: October 1978 to October 1984. Seasonal records November 1984 to current year.

DISSOLVED OXYGEN: October 1978 to October 1984. Seasonal records November 1984 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 period November to April. 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, 7.7 units, July 11, 1990; 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 1979 to 1984.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
02...	1430	E 5830	72	7.2	17.0	14.5	--	760	10.2	100	120	K 26
DEC												
18...	1600	E 5630	71	7.0	-10.0	0.0	1.5	760	14.5	99	130	K 38
JAN												
24...	1030	E 4750	89	7.1	0.0	0.0	2.3	760	14.0	96	210	160
APR												
04...	1030	11800	77	7.2	6.5	3.0	4.8	740	13.7	105	110	140
JUN												
06...	1130	7840	73	7.4	15.0	17.0	2.2	760	9.5	99	48	--
AUG												
09...	1200	E 7130	76	7.2	23.0	24.5	1.2	760	7.6	91	130	120

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT (MG/L AS CO3) (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT												
02...	22	6.5	1.3	5.3	0.8	19	0	16	16	16	7.0	6.5
DEC												
18...	19	5.6	1.2	5.9	0.7	16	0	13	15	15	8.0	5.7
JAN												
24...	23	6.9	1.3	7.5	0.9	20	0	16	18	18	9.0	8.5
APR												
04...	25	7.4	1.5	5.1	0.8	19	0	16	17	18	6.4	7.1
JUN												
06...	20	6.0	1.2	6.2	0.7	20	0	16	17	18	8.7	5.6
AUG												
09...	19	5.7	1.2	8.7	0.7	18	0	15	17	17	6.2	11

E Estimated daily discharge.

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

KENNEBEC RIVER BASIN

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01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 02...	<0.1	4.3	22	42	0.13	0.03	0.04	0.3	<0.01	<0.01	<0.01
DEC 18...	<0.1	4.7	52	41	0.17	0.07	0.09	0.2	0.02	<0.01	0.02
JAN 24...	<0.1	4.9	72	50	0.25	0.11	0.14	0.5	0.05	0.02	0.01
APR 04...	0.1	4.8	54	44	0.20	0.03	0.04	<0.2	0.02	<0.01	<0.01
JUN 06...	<0.1	3.4	76	42	0.10	<0.01	--	0.5	0.02	0.01	0.01
AUG 09...	<0.1	3.5	51	46	<0.10	0.03	0.04	0.4	0.02	<0.01	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC, DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 02...	30	<1	4	<0.5	<1	<1	<3	2	93	1	<4	14
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 24...	50	<1	4	<0.5	<1	<1	<3	<10	85	<10	<4	24
APR 04...	60	<1	4	<0.5	<1	<5	<3	<10	72	<10	<4	20
JUN 06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	40	<1	4	<0.5	2	<1	<3	3	73	1	<4	12

DATE	MERCURY, DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 02...	<0.1	<10	8	<1	<1	32	<6	4	2	31	100
DEC 18...	--	--	--	--	--	--	--	--	5	76	60
JAN 24...	0.2	<10	<10	<1	<1	35	<6	12	4	51	62
APR 04...	<0.1	<10	<10	<1	<1	35	<6	5	15	478	97
JUN 06...	--	--	--	--	--	--	--	--	5	106	81
AUG 09...	<0.1	<10	1	<1	<1	27	<6	20	4	77	69

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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[illegible]

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SPECIFIC CONDUCTANCE. (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990[illegible]

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

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WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER TEMPERATURE. (DEG. C). WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

PERIOD

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 good except for period of doubtful gage-height record Oct. 1 to Nov. 9, which is poor. Some regulation at low flow by Maranacook Lake Outlet dam 0.3 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--13 years, 53.8 ft³/s, 22.34 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, 197 ft³/s, Mar. 21, gage height, 3.21 ft, minimum, 5.0 ft³/s, Oct. 19, Nov. 8, gage height, 1.37 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	8.5	18	17	46	59	112	79	85	36	29	17
2	8.2	7.7	18	17	45	57	107	75	81	34	25	17
3	8.0	7.5	21	17	44	55	106	69	74	32	24	14
4	7.4	7.6	20	17	45	54	158	65	70	30	23	12
5	7.2	7.6	19	18	46	51	180	65	65	29	23	12
6	7.3	6.4	19	18	46	49	175	68	60	27	24	15
7	7.6	5.8	20	18	45	47	168	78	58	24	27	16
8	7.8	6.3	17	18	42	45	151	88	55	22	26	13
9	7.0	8.1	18	18	40	44	139	84	53	25	26	12
10	7.1	9.3	18	18	44	44	131	81	52	27	27	12
11	7.2	9.8	17	18	50	43	145	96	54	24	31	12
12	7.2	10	17	18	53	44	151	99	54	24	31	12
13	7.0	8.5	16	18	53	48	144	103	52	24	30	12
14	7.0	8.5	16	19	53	55	135	134	50	23	30	11
15	7.1	8.6	16	18	52	63	137	129	47	23	29	12
16	6.7	9.3	17	18	57	72	150	128	46	22	27	11
17	6.5	9.2	18	18	57	85	150	118	42	23	26	11
18	6.2	9.9	18	18	60	120	146	118	40	23	26	11
19	5.5	10	18	18	61	143	134	117	38	25	21	11
20	6.8	10	17	18	57	155	126	114	37	24	18	11
21	8.5	13	17	19	53	187	127	109	35	23	19	11
22	8.5	12	17	19	52	195	128	105	33	21	18	11
23	7.0	14	17	20	53	193	120	102	36	22	20	13
24	6.9	15	16	20	61	185	113	95	44	25	21	12
25	6.8	15	16	21	64	177	107	99	45	27	21	11
26	7.0	16	16	24	64	164	102	110	44	29	18	11
27	6.8	17	16	30	62	150	99	103	41	29	15	11
28	6.9	18	16	33	61	138	94	95	41	30	18	11
29	7.1	18	15	35	---	129	88	85	38	30	19	12
30	7.1	17	15	46	---	121	83	92	37	31	17	11
31	8.1	---	15	47	---	118	---	90	---	31	17	---
TOTAL	224.0	323.6	534	671	1466	3090	3906	2993	1507	819	726	368
MEAN	7.23	10.8	17.2	21.6	52.4	99.7	130	96.5	50.2	26.4	23.4	12.3
MAX	8.5	18	21	47	64	195	180	134	85	36	31	17
MIN	5.5	5.8	15	17	40	43	83	65	33	21	15	11
CFSM	.22	.33	.53	.66	1.60	3.05	3.98	2.95	1.54	.81	.72	.38
IN.	.25	.37	.61	.76	1.67	3.52	4.44	3.40	1.71	.93	.83	.42

CAL YR 1989 TOTAL 22045.2 MEAN 60.4 MAX 532 MIN 5.5 CFSM 1.85 IN. 25.08
WTR YR 1990 TOTAL 16627.6 MEAN 45.6 MAX 195 MIN 5.5 CFSM 1.39 IN. 18.92

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

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

REMARKS.--Telephone gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 167.70 ft, Mar. 26; minimum daily elevation, 164.43 ft, Jan. 19-21.

CAL YR 1989	MAX 168.58	MIN 163.94
WTR YR 1990	MAX 167.70	MIN 164.43

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.--Discharge: June 1890 to September 1964, October 1976 to current year.

Chemical analyses: Water years 1954-56.

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

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

REMARKS.--No estimated daily discharges. Records good except for periods of doubtful gage-height record Nov. 13, 19, 21-25, Nov. 27 to Dec. 15, Jan. 31, Feb. 1, 3-8, 12, 13, 15-22, Feb. 24 to Mar. 2, Mar. 5-8, 19, 21-30, Apr. 6, 8, 9, 12-14, 18 and 19. 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.--88 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, 1,900 ft³/s, Apr. 5, gage height, 7.28 ft; minimum daily, 16 ft³/s, Sept. 5, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	357	230	116	241	307	748	341	661	217	208	38
2	20	356	230	115	228	295	778	319	631	216	209	31
3	24	341	230	116	228	289	888	317	595	146	114	31
4	27	327	228	118	230	279	1400	319	634	108	49	30
5	27	327	225	118	236	264	1690	321	507	103	50	16
6	34	333	223	118	233	250	1530	341	376	105	96	16
7	21	355	223	118	230	233	1110	353	354	107	125	17
8	21	370	223	118	230	230	779	365	286	107	124	19
9	21	469	223	117	230	231	686	396	214	109	122	20
10	109	626	223	117	234	231	665	427	214	109	122	49
11	216	600	223	118	222	236	880	972	216	110	129	54
12	214	513	223	118	244	240	1090	1250	213	109	129	62
13	217	543	223	118	260	286	1100	808	212	109	187	74
14	232	510	223	118	266	371	988	1000	211	107	210	129
15	254	486	189	118	257	580	991	874	168	106	210	216
16	283	483	116	118	258	683	1170	643	112	106	204	213
17	320	514	116	119	261	685	1140	626	111	68	191	214
18	311	499	116	122	258	1030	991	655	111	24	106	215
19	306	479	116	121	250	1270	788	658	111	24	106	210
20	321	459	116	119	244	1270	694	646	110	70	108	129
21	439	493	116	118	239	1430	770	564	109	125	109	114
22	408	514	116	118	239	1260	837	513	112	121	52	121
23	377	514	113	119	245	1060	822	549	119	123	23	123
24	337	324	112	171	267	960	765	536	171	128	51	149
25	327	230	112	229	317	847	629	532	233	191	41	133
26	333	231	112	229	331	819	448	524	246	225	61	120
27	321	230	112	233	324	862	377	515	241	221	48	121
28	315	230	112	235	315	853	371	503	232	302	17	122
29	317	230	112	237	---	834	369	475	224	400	31	120
30	300	230	113	240	---	750	358	525	219	373	39	122
31	320	---	114	242	---	731	---	626	---	276	41	---
TOTAL	6791	12173	5163	4531	7117	19666	25852	17493	7953	4645	3312	3028
MEAN	219	406	167	146	254	634	862	564	265	150	107	101
MAX	439	626	230	242	331	1430	1690	1250	661	400	210	216
MIN	19	230	112	115	222	230	358	317	109	24	17	16

CAL YR 1989 TOTAL 127634.8 MEAN 350 MAX 2760 MIN 8.6
WTR YR 1990 TOTAL 117724 MEAN 323 MAX 1690 MIN 16

01049550 TOGUS STREAM AT TOGUS, MAINE

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

DRAINAGE AREA.--23.7 mi².

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

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

REMARKS.--Estimated daily discharges: Oct. 1-8, 12-15, 27-31, Dec. 15-31, Jan. 15, 21-23, Feb. 4-6, 16-17, 21, 26-27, Mar. 1, 5-8, 13-14, and 22-27. Records good except for periods of unknown stage-discharge relationship, Oct. 1-8, 12-15, 27-31, Mar. 13-14 and 22-27, and periods of ice effect, Dec. 15-31, Jan. 15, 21-23, Feb. 4-6, 16-17, 21, 26-27, and Mar. 1, 5-8, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--9 years, 40.7 ft³/s, 23.32 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)
Mar. 21	0900	*275	*4.79	No other peak greater than base discharge.			

Minimum discharge, 2.3 ft³/s, Oct. 9, gage height, 2.90 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.0	38	36	20	41	e48	75	22	51	29	16	5.7
2	e3.6	31	32	18	40	46	79	23	46	27	13	5.5
3	e5.4	34	33	17	38	44	79	22	41	25	10	5.8
4	e5.0	44	31	17	e37	41	135	21	37	24	9.3	5.0
5	e4.4	35	30	17	e35	e38	138	26	34	24	9.1	4.7
6	e4.6	32	29	17	e34	e35	117	32	30	21	9.0	4.6
7	e3.7	31	30	16	33	e33	101	28	29	19	9.1	4.7
8	e2.8	30	28	16	31	e31	88	29	28	17	8.5	5.0
9	2.5	51	26	15	31	30	78	26	27	16	8.3	4.1
10	2.7	85	25	15	49	30	75	26	29	15	7.3	4.3
11	5.3	62	24	16	57	36	136	72	45	13	41	4.2
12	e4.5	48	22	17	53	44	121	57	41	12	50	3.9
13	e3.5	43	21	16	50	e50	103	62	34	10	40	3.7
14	e3.0	39	20	16	48	e56	89	112	30	9.4	34	3.6
15	e2.6	37	e18	e15	45	72	112	87	27	8.2	30	3.9
16	3.0	48	e17	15	e45	82	145	76	25	9.1	27	4.0
17	3.8	84	e16	15	e43	115	117	68	23	7.9	24	3.9
18	5.2	63	e15	18	42	224	108	76	20	7.5	21	3.5
19	4.0	51	e14	19	40	216	92	74	20	7.0	21	3.2
20	10	47	e13	17	37	218	89	68	20	7.4	18	4.5
21	29	94	e12	e16	e34	270	111	60	18	7.9	16	3.8
22	19	75	e12	e16	33	e232	104	61	17	7.0	15	3.7
23	14	61	e11	e16	59	e215	91	57	22	9.1	13	7.6
24	11	88	e10	17	78	e186	81	52	51	16	11	5.4
25	8.8	46	e9.5	18	71	e154	71	48	47	35	10	5.0
26	7.7	43	e8.9	30	e63	e132	66	43	49	31	9.1	4.4
27	e16	41	e8.4	39	e59	e109	61	38	40	27	8.6	4.0
28	e24	42	e7.9	36	55	97	56	35	36	24	8.0	4.3
29	e22	44	e7.4	37	---	85	38	33	32	21	7.2	4.3
30	e20	38	e7.1	47	---	77	20	69	33	18	6.7	5.2
31	e19	---	e9.8	44	---	76	---	60	---	17	6.2	---
TOTAL	273.1	1505	584.0	648	1281	3122	2776	1563	982	521.5	516.4	135.5
MEAN	8.81	50.2	18.8	20.9	45.7	101	92.5	50.4	32.7	16.8	16.7	4.52
MAX	29	94	36	47	78	270	145	112	51	35	50	7.6
MIN	2.5	30	7.1	15	31	30	20	21	17	7.0	6.2	3.2
CFSM	.37	2.12	.79	.88	1.93	4.25	3.90	2.13	1.38	.71	.70	.19
IN.	.43	2.36	.92	1.02	2.01	4.90	4.36	2.45	1.54	.82	.81	.21

CAL YR 1989 TOTAL 14635.6 MEAN 40.1 MAX 400 MIN 2.3 CFSM 1.69 IN. 22.97
WTR YR 1990 TOTAL 13907.5 MEAN 38.1 MAX 270 MIN 2.5 CFSM 1.61 IN. 21.83

e Estimated

Reservoirs in Kennebec River Basin

- 01038500 BRASSUA LAKE on Moose River, 4 mi southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ between elevations 1,043.0 ft and 1,073.0 ft. Elevation record furnished by Kennebec Water Power Co.
- 01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft³ between gage heights 1.0 ft and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p. 73).
- 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 1989 TO SEPTEMBER 1990

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
Sept. 30, 1989.....	8,472	490	733	604	8,075	2,854
Oct. 31.....	7,630	26	783	0	7,640	2,704
Nov. 30.....	7,338	0	585	0	6,435	2,868
Dec. 31.....	4,743	0	600	0	3,299	2,753
Jan. 31, 1990.....	3,124	0	540	0	2,680	2,866
Feb. 28.....	2,055	0	520	0	1,404	2,943
Mar. 31.....	3,083	369	612	186	4,611	2,619
Apr. 30.....	8,528	994	853	586	10,045	2,683
May 31.....	8,626	870	788	586	11,477	2,951
June 30.....	8,833	952	762	604	11,509	2,918
July 31.....	8,392	842	744	550	10,153	2,874
Aug. 31.....	8,264	705	751	550	8,277	2,912
Sept. 30.....	7,771	476	853	577	6,776	2,772

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.--Discharges: July 1941 to current year.

Chemical analyses: 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. 20 to Mar. 18, and Sept. 29, 30. Records good except for period of ice effect, Nov. 20 to Mar. 17, and periods of no gage-height record, Mar. 18, and Sept. 29, 30, which are fair.

Several observations of water temperature and specific conductance were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--49 years, 348 ft³/s, 31.09 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 18	unknown	*6,020	*9.05	No other peak greater than base discharge.			
Minimum discharge, 43 ft ³ /s, Aug. 5, 6, gage height, 1.48 ft.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	435	e127	e63	e223	e245	286	716	157	253	68	69
2	111	435	e120	e94	e200	e220	397	617	139	196	64	60
3	131	282	e115	e160	e180	e200	363	476	131	164	56	54
4	138	287	e110	e155	e170	e190	953	390	255	157	49	48
5	119	222	e108	e150	e164	e185	1600	443	335	727	45	45
6	117	240	e105	e144	e158	e180	899	647	211	386	65	46
7	163	542	e101	e137	e155	e170	606	539	199	230	395	46
8	158	413	e99	e128	e153	e160	474	496	288	178	995	56
9	133	566	e97	e118	e156	e150	407	396	201	205	602	52
10	116	1030	e95	e110	e250	e140	478	439	396	199	276	51
11	105	572	e93	e103	e470	e135	1690	1080	836	145	917	61
12	109	439	e91	e98	e420	e165	1300	845	643	121	1030	54
13	112	345	e90	e93	e375	e230	663	605	337	108	511	64
14	102	308	e89	e91	e330	e330	547	1040	243	93	782	64
15	91	384	e87	e86	e290	e500	644	673	192	82	567	60
16	99	450	e86	e80	e255	e1140	796	591	186	79	361	155
17	176	1110	e84	e75	e230	e3720	1020	490	209	74	269	111
18	206	598	e83	e80	e240	e4770	921	579	160	125	199	77
19	173	414	e80	e200	e190	2410	641	578	197	113	173	75
20	210	e310	e79	e175	e170	1450	726	551	281	81	144	100
21	904	e230	e77	e140	e155	987	1280	468	605	104	123	147
22	608	e205	e76	e130	e168	689	1530	504	820	82	110	101
23	374	e193	e75	e118	e540	659	1630	452	613	180	99	357
24	281	e184	e73	e114	e640	611	1270	373	994	959	89	257
25	231	e176	e72	e112	e445	490	1290	315	488	418	81	140
26	203	e167	e71	e410	e365	433	1210	274	329	214	77	104
27	189	e160	e70	e460	e315	319	1740	244	246	145	73	86
28	185	e153	e69	e395	e270	296	1800	220	205	154	105	76
29	168	e147	e67	e330	---	275	1270	197	178	123	117	e74
30	154	e134	e66	e290	---	256	872	208	326	97	149	e105
31	145	---	e65	e250	---	256	---	185	---	78	89	---
TOTAL	6132	11131	2720	5089	7677	21961	29303	15631	10400	6270	8680	2795
MEAN	198	371	87.7	164	274	708	977	504	347	202	280	93.2
MAX	904	1110	127	460	640	4770	1800	1080	994	959	1030	357
MIN	91	134	65	63	153	135	286	185	131	74	45	45
CFSM	1.30	2.44	.58	1.08	1.80	4.66	6.43	3.32	2.28	1.33	1.84	.61
IN.	1.50	2.72	.67	1.25	1.88	5.37	7.17	3.83	2.55	1.53	2.12	.68

CAL YR 1989 TOTAL 126079 MEAN 345 MAX 4020 MIN 21 CFSM 2.27 IN. 30.86
WTR YR 1990 TOTAL 127789 MEAN 350 MAX 4770 MIN 45 CFSM 2.30 IN. 31.27

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."
Chemical analyses: Water years 1955, 1958.

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: Jan. 3-26 and Feb. 1-22. Records excellent including period of no gage-height record, Jan. 3-26 and Feb. 1-22. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (Reservoirs in Androscoggin River Basin), combined usable capacity, 28,100,000,000 ft³, with final regulation at Errol Dam, 0.4 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--85 years, 1,900 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, 5,430 ft³/s, Mar. 21, gage-height, 5.01 ft; minimum daily, 1,040 ft³/s, Nov 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2350	1740	1420	1480	e1880	2040	2030	2530	1600	1890	2010	1680
2	2350	1740	1430	1480	e1960	1990	2030	2530	1600	1950	2070	1740
3	2350	1750	1450	e1460	e1970	2050	2040	2520	1600	1910	2100	1770
4	2350	1750	1470	e1440	e1880	2140	1990	2520	1600	1810	2100	1760
5	2360	1750	1470	e1440	e1810	2270	1630	2220	1600	1760	2090	1760
6	2360	1750	1510	e1450	e1830	2300	1640	2120	1600	1760	2090	1760
7	2210	1610	1540	e1450	e1840	2260	1650	2070	1720	1760	2100	1770
8	2140	1540	1510	e1450	e2010	2330	1650	1850	1650	1750	2110	1770
9	2140	1550	1540	e1440	e2120	2420	1640	1730	1570	1750	2350	1770
10	2140	1210	1530	e1440	e1960	2460	1430	1760	1600	1690	2470	1770
11	2140	1040	1510	e1440	e1860	2400	1330	1760	1720	1660	2480	1770
12	2140	1170	1540	e1440	e1930	2430	1650	1770	2250	1660	2590	1760
13	2080	1320	1590	e1440	e2070	2170	1630	1770	2630	1660	2670	1780
14	1450	1390	1670	e1440	e2120	2160	1650	1590	2380	1660	2680	1780
15	2500	1420	1700	e1440	e2150	2100	1630	1910	2260	1660	3150	1780
16	2460	1390	1710	e1440	e2150	2310	1650	2380	2010	1670	3340	1770
17	2150	1170	1630	e1440	e2120	2700	1660	2650	1890	1630	3190	1770
18	2170	1060	1590	e1450	e2180	2970	1650	2650	1900	1620	2710	1770
19	2150	1300	1590	e1450	e2280	4200	1650	2660	1790	1600	2470	1840
20	2140	1410	1590	e1450	e2300	5140	1660	2670	2160	1680	2460	1880
21	2140	1370	1590	e1450	e2320	4360	1660	3640	1990	1720	2450	1870
22	2150	1410	1600	e1450	e2320	2700	1670	4410	1990	1720	2190	1870
23	2150	1410	1600	e1450	2060	2700	1670	4190	2420	1780	2390	1880
24	2150	1410	1730	e1450	1910	2660	1980	4100	3060	1870	2120	1880
25	1930	1400	1600	e1490	1880	2650	2560	3550	3320	1930	1780	1880
26	1790	1400	1600	e1640	1990	2300	2570	2540	2990	1980	1670	1880
27	1930	1390	1480	1720	2110	2050	2540	2270	2860	2010	1670	1880
28	1950	1190	1440	1740	2050	2040	2530	2270	2290	2010	1670	1880
29	1950	1120	1440	1740	---	2060	2530	2080	1820	2010	1680	1870
30	1950	1390	1460	1750	---	2040	2520	1850	1760	2010	1680	1880
31	1710	---	1480	1750	---	2060	---	1380	---	2010	1680	---
TOTAL	65930	42550	48010	46590	57060	78460	56120	75940	61630	55580	70210	54220
MEAN	2127	1418	1549	1503	2038	2531	1871	2450	2054	1793	2265	1807
MAX	2500	1750	1730	1750	2320	5140	2570	4410	3320	2010	3340	1880
MIN	1450	1040	1420	1440	1810	1990	1330	1380	1570	1600	1670	1680

CAL YR 1989 TOTAL 743840 MEAN 2038 MAX 9460 MIN 1040
WTR YR 1990 TOTAL 712300 MEAN 1952 MAX 5140 MIN 1040

e Estimated

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi 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, Azischoos, 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.

AVERAGE DISCHARGE.--77 years, 2,460 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, 11,000 ft³/s, Mar. 18, gage height, 7.83 ft; minimum daily, 1,470 ft³/s, Nov. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2470	2160	1740	1750	2140	2450	2570	3470	1730	2130	2060	1780
2	2520	2380	1710	1720	2320	2440	2770	3400	1760	2200	2050	1760
3	2600	2260	1780	1730	2290	2380	2800	3230	1820	2020	2100	1880
4	2620	2280	1720	1730	2260	2410	4360	3090	2110	1960	2130	1850
5	2610	2190	1680	1700	2140	2490	4700	3140	2090	2310	2130	1870
6	2660	2180	1760	1690	2110	2620	3610	3150	1850	2200	2200	1850
7	2690	2340	1830	1680	2110	2550	3020	2990	1810	1940	2400	1860
8	2350	2160	1720	1670	2150	2560	2710	2780	1790	1890	3300	1850
9	2300	2310	1740	1660	2380	2590	2490	2430	1860	1960	3230	1910
10	2300	2800	1750	1660	2560	2710	2580	2440	1900	1920	2950	1950
11	2320	2020	1810	1650	2520	2760	3460	3520	2570	1750	4980	1910
12	2380	1780	1760	1670	2450	2930	4160	3300	2770	1790	4600	1870
13	2310	1850	1730	1650	2470	2970	3150	2830	2930	1810	3740	1840
14	2260	1830	1740	1620	2550	2970	2760	3510	2800	1810	4450	1930
15	2160	1930	1810	1610	2500	3380	2870	2980	2420	1800	4140	1970
16	2290	2170	1940	1640	2560	4140	3230	3090	2260	1820	4110	2100
17	2380	3090	1900	1630	2510	6370	3210	3330	2020	1790	3810	1970
18	2660	2140	1810	1760	2500	9950	3220	3510	2010	1820	3520	1920
19	2630	1880	1780	1890	2490	7680	2840	3470	1940	1710	3060	1920
20	2680	2030	1780	1820	2640	7400	2740	3370	2740	1710	2700	2050
21	3910	2020	1780	1820	2270	7270	2830	3500	2500	1990	2630	2050
22	3490	1850	1750	1760	2770	4790	3210	4830	2680	1880	2520	2040
23	2940	1820	1760	1730	2940	3920	3230	4970	2650	1960	2390	2210
24	2720	1730	1810	1730	2890	4030	3070	4480	3780	2520	2370	2250
25	2640	1790	1850	1720	2700	3720	3450	4400	3760	2370	2070	2110
26	2300	1810	1820	2150	2560	3550	3680	3520	3540	2210	1840	2060
27	2060	1780	1760	2540	2590	2800	3850	2680	3080	2150	1840	2040
28	2270	1820	1600	2430	2610	2630	4040	2590	2910	2130	1800	2020
29	2260	1470	1590	2320	---	2570	3850	2550	2070	2140	1800	1990
30	2390	1580	1580	2250	---	2530	3580	2410	2040	2150	1800	2110
31	2190	---	1670	2160	---	2570	---	2320	---	2080	1830	---
TOTAL	78360	61450	54460	56540	68980	116130	98040	101280	72190	61920	86550	58920
MEAN	2528	2048	1757	1824	2464	3746	3268	3267	2406	1997	2792	1964
MAX	3910	3090	1940	2540	2940	9950	4700	4970	3780	2520	4980	2250
MIN	2060	1470	1580	1610	2110	2380	2490	2320	1730	1710	1800	1760

CAL YR 1989 TOTAL 953870 MEAN 2613 MAX 10500 MIN 1380
WTR YR 1990 TOTAL 914820 MEAN 2506 MAX 9950 MIN 1470

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.--1959 (discharge measurement only), 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. 23 to Mar. 15. Records good except for period of ice effect, Nov. 23 to Mar. 15, which is fair. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--26 years, 183 ft³/s, 35.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s, Mar. 31, 1987, gage height, 13.03 ft; minimum, 7.6 ft³/s, July 16, 1971, gage height, 1.89 ft.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 20	2315	4280	7.91	Apr. 4	1015	4510	8.06
Nov. 16	1945	6840	9.40	May 11	0245	4250	7.89
Mar. 15	1700	ice jam	*12.88	Aug. 11	0315	*7830	9.94
Mar. 17	1500	2600	6.68	Aug. 14	0430	3200	7.16

Minimum discharge, 14 ft³/s, Aug. 5, 6, gage height, 2.91 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	522	e96	e45	e105	e104	155	301	146	85	19	32
2	35	240	e90	e195	e99	e98	190	272	124	74	18	31
3	103	205	e84	e135	e96	e93	191	195	110	65	17	30
4	67	205	e79	e100	e93	e88	2270	167	146	58	16	28
5	51	150	e74	e86	e90	e85	1240	258	123	139	15	28
6	49	198	e70	e76	e88	e84	532	295	105	85	21	29
7	55	287	e67	e70	e86	e81	364	253	108	61	178	31
8	49	219	e63	e65	e85	e80	278	247	102	52	686	34
9	43	931	e60	e62	e85	e78	236	220	89	49	166	29
10	39	675	e57	e58	e200	e77	249	216	235	50	90	35
11	42	309	e55	e55	e215	e101	795	1740	373	42	2520	38
12	50	232	e53	e53	e137	e125	456	477	255	38	487	30
13	46	183	e51	e51	e104	e158	285	445	151	37	222	30
14	41	165	e49	e48	e91	e211	239	1070	116	33	1380	29
15	38	157	e47	e45	e82	e1200	278	423	95	31	360	99
16	41	1700	e46	e43	e87	1400	332	310	84	31	206	107
17	51	1120	e45	e41	e135	2020	352	272	79	30	155	50
18	154	411	e44	e150	e110	1320	319	412	72	27	116	40
19	93	288	e43	e490	e95	576	235	297	67	25	102	37
20	890	240	e42	e220	e77	440	231	239	74	24	83	44
21	1520	218	e41	e150	e72	383	271	327	78	29	70	45
22	388	166	e40	e108	e77	292	313	372	102	27	63	38
23	225	e151	e39	e92	e480	326	351	292	278	45	56	193
24	171	e134	e39	e80	e335	297	305	238	328	86	53	87
25	141	e122	e38	e73	e200	230	267	203	188	52	51	56
26	124	e118	e38	e590	e150	202	276	179	152	40	50	46
27	111	e114	e37	e430	e125	167	412	161	105	31	45	42
28	101	e110	e36	e220	e110	162	378	146	93	28	45	39
29	93	e106	e36	e150	---	147	290	132	75	26	42	37
30	87	e101	e35	e123	---	138	238	256	96	23	38	58
31	89	---	e35	e111	---	148	---	193	---	21	34	---
TOTAL	5022	9777	1629	4215	3709	10911	12328	10608	4149	1444	7404	1452
MEAN	162	326	52.5	136	132	352	411	342	138	46.6	239	48.4
MAX	1520	1700	96	590	480	2020	2270	1740	373	139	2520	193
MIN	35	101	35	41	72	77	155	132	67	21	15	28
CFSM	2.33	4.68	.76	1.95	1.90	5.06	5.90	4.92	1.99	.67	3.43	.70
IN.	2.68	5.23	.87	2.25	1.98	5.83	6.59	5.67	2.22	.77	3.96	.78

CAL YR 1989 TOTAL 69318 MEAN 190 MAX 5260 MIN 15 CFSM 2.73 IN. 37.05
WTR YR 1990 TOTAL 72648 MEAN 199 MAX 2520 MIN 15 CFSM 2.86 IN. 38.83

e Estimated

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 1964 to September 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS	SPE- CIFIC CON- DUCT- ANCE	PH (STAND- ARD	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF	STREP- TOCOCCHI FECAL, KF AGAR	
		(CFS) (00061)	(US/CM) (00095)	(UNITS) (00400)	(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MM OF HG) (00025)	(MG/L) (00300)	(00301)	(COLS./ 100 ML) (31625)	(COLS. PER 100 ML) (31673)	
OCT													
03...	1200	125	21	6.6	12.0	11.0	0.4	730	10.7	101	K 8	K 14	
FEB													
05...	1000	E 90	20	6.3	-8.0	0.0	1.1	740	14.2	100	<1	<1	
APR													
05...	1600	914	15	5.8	9.0	3.0	1.1	730	13.3	103	<1	<1	
AUG													
07...	0900	67	21	6.8	19.0	18.5	0.6	750	9.0	98	>60	>100	
DATE		HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT													
03...	5	1.4	0.45	1.2	0.5	4	0	3	4	4.0	4.0	0.5	
FEB													
05...	6	1.4	0.50	1.2	0.4	3	0	2	3	4.0	4.0	0.6	
APR													
05...	4	1.1	0.31	0.7	0.3	1	0	1	2	2.0	3.7	0.6	
AUG													
07...	5	1.4	0.45	1.4	0.5	4	0	4	5	7.8	3.5	0.5	
DATE		FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	
OCT													
03...	0.1	7.2	<1	17	<0.10	<0.01	--	<0.2	<0.01	<0.01	<0.01	<0.01	
FEB													
05...	0.1	6.6	21	16	<0.10	<0.01	--	<0.2	0.03	<0.01	<0.01	<0.01	
APR													
05...	0.1	3.9	14	11	<0.10	<0.01	--	0.3	<0.01	<0.01	<0.01	<0.01	
AUG													
07...	<0.1	7.4	16	17	<0.10	<0.01	--	<0.2	<0.01	<0.01	<0.01	<0.01	

E Estimated daily discharge.

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

ANDROSCOGGIN RIVER BASIN

01054200 WILD RIVER AT GILEAD, ME--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 03...	80	<1	3	<0.5	<1	<1	<3	<1	53	<1	<4	3
FEB 05...	70	<1	4	<0.5	6	<5	<3	<10	26	<10	<4	<1
APR 05...	190	<1	4	<0.5	<1	<5	<3	<10	27	<10	<4	13
AUG 07...	30	<1	4	<0.5	<1	<1	<3	<1	39	<1	<4	5

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. # FINER THAN .062 MM (70331)
OCT 03...	<0.1	<10	<1	<1	<1	12	<6	5	1	0.34	67
FEB 05...	<0.1	<10	<10	<1	<1	13	<6	8	--	--	--
APR 05...	<0.1	<10	<10	<1	1	11	<6	10	4	9.9	60
AUG 07...	<0.1	<10	<1	<1	<1	13	<6	6	3	0.54	69

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS- SOLVED EXTRAC- TION (UG/L) (22703)
SEP 1989*								
05...	1.0	<0.4	1.9	<0.4	1.5	<0.4	0.06	0.57
APR 1990								
05...	Analysis will be published in the 1991 water year report.							
AUG								
07...	Analysis will be published in the 1991 water year report.							

* Analysis from the 1989 water year.

ANDROSCOGGIN RIVER BASIN

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.--Discharge: May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

Chemical analyses: Water year 1953.

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 and in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REMARKS.--No estimated daily discharges. Records good. Prior to Nov. 19, 1979, discharge computed from flow over dams and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (Reservoirs in Androscoggin River Basin), with final regulation at Errol Dam about 84 mi upstream. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

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

AVERAGE DISCHARGE.--98 years, 3,730 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, 26,200 ft³/s, Mar. 18, gage height 12.29 ft; minimum daily, 1,730 ft³/s, Dec. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2880	3280	2070	2090	3060	3630	3960	5380	3460	3180	2390	2120
2	2890	4280	1730	2240	3040	3520	4410	5690	2760	3110	2370	2090
3	3100	3690	2000	2210	3200	3520	4550	5000	2680	3040	2380	2170
4	3280	3890	2310	2180	2980	3460	10700	4530	2980	2760	2360	2160
5	3140	3590	2200	2220	2920	3290	15800	4390	3340	3120	2410	2160
6	3060	3290	2380	2190	2780	3340	10300	5510	2880	3590	2460	2150
7	3030	3790	2450	2170	2840	3330	7260	5020	2770	2940	2790	2160
8	3020	3850	2360	2080	2780	3260	5800	4750	2760	2630	5400	2170
9	2760	4290	2250	2080	2810	3300	5020	4260	2610	2600	5800	2060
10	2740	7940	2250	2110	3190	3350	4750	4110	3030	2800	4210	2220
11	2830	5650	2340	2080	3790	3550	6990	10500	4190	2560	12100	2310
12	3010	4040	2400	2070	3750	3940	8790	9880	5600	2370	12900	2280
13	3010	3420	2180	2080	3440	4500	6680	6530	4450	2310	7560	2220
14	2800	3270	1970	2010	3370	5400	5360	9450	4130	2250	10200	2190
15	2710	3370	2130	1890	3380	6250	5080	7810	3660	2210	9110	2390
16	2620	3410	2240	1980	3090	9490	5990	5950	3230	2190	6360	2980
17	2750	13000	2330	2020	3240	14400	6070	5640	2980	2160	5650	2640
18	3190	7070	2220	2020	3180	23900	6150	6220	2770	2190	5020	2380
19	3550	4640	2130	2500	3180	18100	5410	6350	2720	2100	4500	2310
20	3470	3880	2190	2600	3220	12900	4800	5760	3030	2030	3940	2440
21	10800	3810	2200	2460	3050	12300	4770	5660	3730	2130	3580	2460
22	7560	3370	2090	2300	2980	10500	5450	6730	3580	2320	3410	2480
23	5260	2760	2010	2210	3950	7800	5860	7590	3780	2360	3100	2840
24	4410	2330	2130	2190	5930	7370	5800	7140	6230	2860	3140	3140
25	3990	2610	2100	2140	4940	6510	5370	6260	5820	3270	2900	2810
26	3610	2910	2290	2550	4150	5940	5640	6030	5290	2870	2530	2590
27	3270	2900	2150	4910	3650	5170	6420	4760	4670	2710	2390	2520
28	3100	2580	2120	4300	3690	4550	7260	3750	3990	2580	2320	2460
29	3140	2550	1910	3840	---	3970	6600	4190	3590	2530	2280	2400
30	3140	2230	1920	3420	---	3520	5710	3700	3030	2510	2360	2450
31	3060	---	1910	3110	---	3720	---	4090	---	2450	2150	---
TOTAL	111180	121690	66960	76250	95580	207780	192750	182630	109740	80730	140070	71750
MEAN	3586	4056	2160	2460	3414	6703	6425	5891	3658	2604	4518	2392
MAX	10800	13000	2450	4910	5930	23900	15800	10500	6230	3590	12900	3140
MIN	2620	2230	1730	1890	2780	3260	3960	3700	2610	2030	2150	2060

CAL YR 1989 TOTAL 1534840 MEAN 4205 MAX 37000 MIN 1650
WTR YR 1990 TOTAL 1457110 MEAN 3992 MAX 23900 MIN 1730

01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi 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.--Discharge: June 1929 to current year.

Chemical analyses: Water year 1956.

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: Oct. 10 to Nov. 7, and Nov. 23 to Mar. 17. Records good except for period of ice effect, Nov. 23 to Mar. 17, and period of no gage-height record, Oct. 10 to Nov. 7, which are fair.

Several observations of water temperature and specific conductance were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--61 years, 199 ft³/s, 27.89 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	Unknown	*5,740	*7.68	May 11	0745	2,710	5.68
Mar. 18	0030	4,500	6.95	Aug. 11	0900	3,220	6.07

Minimum discharge, 13 ft³/s, Aug. 5, 6, gage height, 1.11 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	e287	e82	e47	e143	e135	190	375	131	141	22	25
2	87	e262	e79	e67	e125	e125	228	338	108	146	20	24
3	250	e189	e77	e120	e114	e113	207	252	98	108	17	22
4	168	e259	e74	e104	e108	e96	1430	208	132	93	15	20
5	129	e183	e72	e98	e105	e85	1140	306	123	255	13	19
6	118	e170	e70	e93	e100	e78	598	373	103	157	19	21
7	130	e420	e68	e87	e99	e74	423	347	115	104	82	24
8	115	273	e67	e82	e98	e72	324	328	126	84	621	30
9	102	684	e65	e76	e98	e69	284	259	97	105	240	24
10	e91	811	e64	e72	e135	e67	332	260	185	102	109	33
11	e84	388	e63	e69	e400	e78	1010	1630	742	68	1770	39
12	e189	291	e61	e66	e310	e100	616	621	401	57	713	31
13	e133	230	e60	e63	e255	e145	375	420	203	53	265	41
14	e108	206	e59	e61	e215	e210	312	571	145	44	920	34
15	e94	208	e58	e59	e180	e307	442	356	115	39	359	128
16	e91	368	e57	e58	e160	e726	578	289	104	37	204	192
17	e119	821	e55	e56	e148	e2060	586	258	99	34	152	76
18	e242	343	e54	e58	e157	2560	436	449	84	47	113	51
19	e170	255	e53	e88	e117	933	331	462	111	41	107	47
20	e300	222	e52	e115	e105	637	361	324	222	38	79	70
21	e2160	212	e51	e90	e98	544	434	283	154	66	65	71
22	e610	171	e50	e80	e106	388	607	296	170	40	58	48
23	e333	e153	e49	e75	e300	383	759	255	339	54	52	254
24	e246	e128	e48	e72	e520	313	667	218	535	226	47	143
25	e206	e114	e48	e70	e270	263	595	189	314	107	43	85
26	e183	e108	e47	e500	e210	234	559	168	178	78	42	61
27	e170	e104	e46	e850	e175	198	872	153	127	49	38	53
28	e181	e101	e46	e430	e150	187	836	138	102	37	45	46
29	e173	e93	e45	e250	---	178	615	123	87	31	35	41
30	e133	e85	e45	e195	---	157	424	212	202	32	30	83
31	e123	---	e44	e165	---	161	---	175	---	28	27	---
TOTAL	7329	8139	1809	4316	5001	11676	16571	10636	5652	2501	6322	1836
MEAN	236	271	58.4	139	179	377	552	343	188	80.7	204	61.2
MAX	2160	821	82	850	520	2560	1430	1630	742	255	1770	254
MIN	84	85	44	47	98	67	190	123	84	28	13	19
CFSM	2.44	2.80	.60	1.44	1.84	3.89	5.70	3.54	1.94	.83	2.10	.63
IN.	2.81	3.12	.69	1.66	1.92	4.48	6.36	4.08	2.17	.96	2.43	.70

CAL YR 1989 TOTAL 83676.5 MEAN 229 MAX 6330 MIN 9.5 CFSM 2.37 IN. 32.12
WTR YR 1990 TOTAL 81788 MEAN 224 MAX 2560 MIN 13 CFSM 2.31 IN. 31.40

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.--Discharge: August 1941 to current year.

Chemical analyses: Water year 1955, 1961.

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: Nov. 21 to Mar 18. Records good except for period of ice effect, Nov. 21 to Mar. 18, which is fair. Several observations of water temperature and specific conductance were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--49 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)
Mar. 19	1400	1,840	4.45	Apr. 5	0800	*1,970	*4.57

Minimum discharge, 23 ft³/s, Sept. 5, 6, 9, gage height, 1.03 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	223	e153	e115	e235	e260	386	245	450	220	57	29
2	56	314	e148	e135	e220	e250	440	241	328	192	58	27
3	77	280	e145	e150	e205	e240	514	219	256	158	51	26
4	97	347	e140	e140	e195	e230	1150	198	223	134	41	24
5	87	337	e136	e130	e185	e220	1900	223	221	133	36	23
6	75	278	e132	e120	e175	e200	1510	389	194	143	34	23
7	70	261	e129	e113	e165	190	1090	408	180	121	37	24
8	64	247	e126	e108	e160	e175	845	445	173	100	68	24
9	59	288	e123	e102	e155	e170	693	392	161	92	154	23
10	53	504	e120	e98	e170	e180	611	330	183	89	130	24
11	58	532	e117	e100	e230	e220	882	795	263	80	157	24
12	84	389	e114	e110	e440	e270	1070	1060	400	72	222	25
13	103	301	e111	e104	e360	e350	848	803	340	67	197	25
14	90	247	e109	e100	e300	e470	675	1240	243	61	152	25
15	76	224	e107	e92	e255	e720	647	1260	178	57	136	34
16	72	247	e105	e86	e225	e814	787	888	148	54	113	52
17	82	413	e103	e83	e205	e972	747	684	129	52	91	49
18	122	446	e101	e94	e190	e1500	716	687	116	50	76	40
19	141	354	e99	e115	e180	1800	618	709	106	47	76	34
20	149	290	e97	e130	e170	1580	516	606	503	46	66	35
21	358	e261	e95	e125	e165	1620	496	519	579	61	56	34
22	482	e232	e94	e118	e155	1490	533	513	416	55	50	33
23	352	e213	e92	e112	e200	1240	476	510	368	62	46	64
24	252	e194	e90	e108	e490	1090	414	448	597	161	43	83
25	213	e181	e88	e105	e410	875	367	382	755	240	42	83
26	191	e175	e87	e170	e360	729	347	321	534	199	40	75
27	173	e169	e85	e410	e320	604	329	279	388	143	38	66
28	161	e166	e84	e370	e285	511	299	251	282	111	36	61
29	152	e161	e83	e330	---	451	270	225	232	85	34	58
30	140	e155	e82	e280	---	405	250	394	220	70	31	68
31	129	---	e90	e250	---	382	---	606	---	60	31	---
TOTAL	4281	8429	3385	4603	6805	20208	20426	16270	9166	3215	2399	1215
MEAN	138	281	109	148	243	652	681	525	306	104	77.4	40.5
MAX	482	532	153	410	490	1800	1900	1260	755	240	222	83
MIN	53	155	82	83	155	170	250	198	106	46	31	23
CFSM	.82	1.66	.65	.88	1.44	3.86	4.03	3.11	1.81	.61	.46	.24
IN.	.94	1.86	.75	1.01	1.50	4.45	4.50	3.58	2.02	.71	.53	.27

CAL YR 1989 TOTAL 107393 MEAN 294 MAX 5650 MIN 21 CFSM 1.74 IN. 23.64
WTR YR 1990 TOTAL 100402 MEAN 275 MAX 1900 MIN 23 CFSM 1.63 IN. 22.10

e Estimated

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME

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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, 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, 2.1 mg/L, July 25, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 160 microsiemens, Jan. 26; minimum, 36 microsiemens, Mar. 19, 20.

pH: Maximum, 7.2 units, Dec. 2; minimum, 6.2 units, Aug. 14.

WATER TEMPERATURE: Maximum, 27.0°C, Aug. 1; minimum, 0.0°C, Jan. 22, Feb. 20, 25-27.

DISSOLVED OXYGEN: Maximum, 14.8 mg/L, Mar. 19; minimum, 2.1 mg/L, July 25.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	117	114	116	84	78	81	126	117	122	146	143	145
2	115	112	114	90	82	86	134	122	125	148	144	145
3	116	110	113	101	88	95	135	123	126	147	141	145
4	113	112	113	102	99	100	124	121	123	146	138	144
5	113	112	112	107	102	104	121	110	116	143	134	139
6	112	111	111	108	102	105	114	112	113	141	134	139
7	113	111	112	105	96	101	114	112	113	145	138	142
8	118	112	114	103	95	100	116	112	113	149	141	145
9	117	114	115	98	94	96	115	113	114	151	146	148
10	117	114	116	97	95	96	127	115	121	150	145	148
11	115	114	114	97	95	96	131	122	125	149	143	146
12	114	111	113	95	86	91	131	126	128	147	145	146
13	117	113	114	85	75	79	131	127	129	147	144	146
14	119	114	115	76	73	74	131	129	130	146	144	145
15	121	115	117	76	60	70	133	130	131	147	144	146
16	124	120	122	72	64	67	136	132	133	150	146	148
17	123	121	122	77	71	73	141	132	136	152	149	150
18	123	122	122	99	80	91	143	137	140	151	148	150
19	123	122	123	98	83	91	143	139	141	152	40	117
20	124	123	123	84	67	73	142	138	140	154	133	148
21	127	124	125	68	55	61	140	138	139	155	152	153
22	---	---	---	60	56	57	143	139	141	155	152	154
23	---	---	---	70	62	64	145	140	143	155	153	154
24	---	---	---	75	66	71	147	143	145	155	154	154
25	---	---	---	88	70	78	146	144	145	159	154	156
26	---	---	---	93	84	88	146	143	145	160	156	158
27	---	---	---	98	89	93	144	144	144	156	152	154
28	---	---	---	105	93	98	144	141	143	153	145	149
29	---	---	---	120	97	106	144	140	143	145	142	143
30	---	---	---	124	107	116	143	141	142	144	139	143
31	---	---	---	---	---	---	144	142	143	143	122	138
MONTH	127	110	116	124	55	87	147	110	132	160	40	146

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

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SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	139	110	129	---	---	---	78	76	76	67	62	64
2	127	99	112	---	---	---	80	78	79	65	63	64
3	118	96	102	---	---	---	90	80	84	68	65	66
4	100	97	98	---	---	---	91	89	90	71	67	69
5	106	98	100	---	---	---	89	71	83	72	70	71
6	101	100	100	94	92	93	69	42	51	72	71	72
7	104	100	102	94	92	92	42	40	41	79	71	73
8	107	102	105	97	93	95	46	41	43	82	76	80
9	109	105	107	101	98	99	51	46	48	81	76	79
10	111	107	109	105	101	104	57	50	53	77	73	75
11	109	107	109	106	105	105	65	56	60	74	72	73
12	109	107	109	107	106	107	74	65	69	73	66	70
13	109	108	108	106	104	105	76	72	75	71	58	63
14	108	107	108	105	103	104	73	60	66	57	42	48
15	111	109	110	103	96	101	61	59	60	55	43	48
16	110	106	109	98	92	95	60	59	59	56	54	55
17	108	103	106	91	78	86	67	60	63	54	50	52
18	105	100	102	78	52	65	70	67	69	---	---	---
19	102	97	100	51	36	43	71	69	70	---	---	---
20	107	99	102	40	36	38	71	70	71	---	---	---
21	108	105	106	44	40	42	71	68	69	---	---	---
22	108	106	107	49	45	47	71	68	69	---	---	---
23	110	105	108	49	49	49	74	71	72	---	---	---
24	108	105	106	---	---	---	77	75	76	---	---	---
25	111	107	109	---	---	---	80	74	78	69	68	69
26	115	109	113	---	---	---	74	71	72	69	62	66
27	110	101	106	61	57	59	71	67	69	63	60	61
28	105	91	96	65	61	62	73	69	71	62	61	62
29	---	---	---	67	65	66	73	69	70	65	61	62
30	---	---	---	71	67	68	71	66	69	67	64	66
31	---	---	---	76	70	73	---	---	---	75	67	69
MONTH	139	91	106	107	36	78	91	40	67	82	42	66
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	80	72	77	79	76	77	148	135	144	110	101	104
2	87	79	83	80	78	79	141	134	136	113	107	111
3	86	84	85	83	80	81	135	129	131	113	111	112
4	85	83	84	91	84	87	133	126	129	113	112	112
5	84	82	83	94	85	90	128	126	126	117	113	114
6	83	82	82	95	91	93	129	126	127	127	117	122
7	83	82	82	98	94	96	131	129	130	131	123	127
8	87	82	84	101	98	99	132	131	131	125	122	123
9	101	88	95	105	101	103	143	132	134	136	124	126
10	97	93	95	105	102	103	143	133	139	147	129	137
11	99	95	97	105	103	104	135	101	119	156	143	151
12	100	97	99	104	101	103	126	77	101	155	152	153
13	106	98	102	103	102	103	77	42	58	152	144	147
14	107	104	105	103	102	103	54	41	46	152	144	151
15	107	93	101	108	103	105	51	43	47	150	144	148
16	96	85	91	111	105	107	52	49	50	145	143	144
17	91	82	86	115	107	112	52	48	50	143	142	143
18	87	83	85	118	112	114	50	49	50	142	142	142
19	86	85	86	122	115	119	55	50	53	142	142	142
20	88	85	86	124	118	120	58	54	56	143	142	142
21	91	86	88	125	121	122	61	56	59	143	142	142
22	94	88	92	127	124	125	67	59	63	142	136	139
23	97	90	95	133	125	128	72	65	68	140	133	138
24	103	96	100	150	131	136	77	68	72	134	132	133
25	103	97	101	156	143	150	81	73	78	135	133	134
26	100	96	97	156	152	154	84	77	80	135	133	134
27	96	81	88	158	155	157	91	80	85	135	129	132
28	86	77	82	156	150	154	91	86	89	132	129	130
29	81	74	77	154	151	152	94	89	91	133	129	131
30	78	75	77	152	148	151	98	91	94	135	129	133
31	---	---	---	151	146	148	104	95	99	---	---	---
MONTH	107	72	89	158	76	115	148	41	91	156	101	133
YEAR	160	36	103									

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

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PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.8	6.8	6.8	6.6	6.3	6.5	7.1	7.0	7.0	6.8	6.7	6.8
2	6.8	6.8	6.8	6.6	6.5	6.6	7.2	7.0	7.1	6.8	6.7	6.8
3	6.9	6.8	6.8	6.7	6.6	6.7	---	---	---	6.8	6.7	6.8
4	6.9	6.8	6.8	6.7	6.6	6.6	7.0	7.0	7.0	6.8	6.8	6.8
5	6.9	6.8	6.8	6.7	6.6	6.7	7.0	6.7	6.8	6.8	6.7	6.7
6	6.9	6.9	6.9	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.7	6.8
7	6.9	6.9	6.9	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.7	6.8
8	6.9	6.9	6.9	6.8	6.7	6.8	6.8	6.7	6.7	6.8	6.8	6.8
9	7.0	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.8	6.8
10	7.0	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.7	6.8	6.8	6.8
11	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.7	6.8	6.8	6.8
12	6.9	6.9	6.9	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.8	6.8
13	6.9	6.9	6.9	6.8	6.7	6.8	6.8	6.7	6.8	6.8	6.7	6.7
14	7.0	6.9	6.9	6.8	6.7	6.8	6.7	6.7	6.7	6.7	6.7	6.7
15	7.0	6.9	6.9	6.7	6.6	6.7	6.8	6.7	6.8	6.8	6.7	6.7
16	7.0	6.9	6.9	6.8	6.7	6.7	7.0	6.9	6.9	6.8	6.7	6.7
17	7.0	6.9	6.9	6.7	6.7	6.7	6.9	6.8	6.9	6.8	6.7	6.7
18	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.7	6.8
19	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.9	6.9	6.7	6.7	6.7
20	7.0	7.0	7.0	6.9	6.7	6.8	6.9	6.8	6.9	6.8	6.7	6.8
21	7.0	6.9	7.0	6.8	6.5	6.6	6.9	6.8	6.8	6.8	6.7	6.8
22	---	---	---	6.5	6.4	6.5	6.9	6.8	6.8	6.8	6.7	6.8
23	---	---	---	6.7	6.5	6.6	6.8	6.8	6.8	6.8	6.7	6.7
24	---	---	---	6.8	6.7	6.7	6.9	6.8	6.9	6.8	6.7	6.7
25	---	---	---	6.8	6.7	6.8	6.9	6.8	6.9	6.8	6.7	6.8
26	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	6.9	6.8	6.8
27	---	---	---	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.8
28	---	---	---	7.0	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.8
29	---	---	---	7.1	6.7	6.9	6.8	6.7	6.8	6.8	6.8	6.8
30	---	---	---	7.1	7.0	7.1	6.8	6.8	6.8	6.8	6.8	6.8
31	---	---	---	---	---	---	6.8	6.8	6.8	6.8	6.7	6.8
MONTH	7.0	6.8	6.9	7.1	6.3	6.7	7.2	6.7	6.8	6.9	6.7	6.8

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

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

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PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.8	6.7	6.7	6.5	6.4	6.5	7.0	6.5	6.6	6.5	6.4	6.5
2	6.8	6.7	6.7	6.6	6.4	6.5	7.1	6.6	6.9	6.5	6.4	6.5
3	6.9	6.8	6.8	6.6	6.4	6.5	7.1	6.7	6.9	6.7	6.5	6.6
4	7.0	6.8	6.9	6.5	6.4	6.5	6.9	6.7	6.7	6.6	6.5	6.6
5	7.0	6.8	6.9	6.7	6.4	6.6	6.7	6.5	6.6	6.6	6.5	6.5
6	6.9	6.7	6.8	6.7	6.5	6.6	6.7	6.5	6.6	6.5	6.5	6.5
7	6.8	6.6	6.7	6.6	6.5	6.6	6.7	6.6	6.6	6.5	6.5	6.5
8	6.6	6.5	6.6	6.6	6.5	6.6	6.6	6.6	6.6	6.6	6.5	6.6
9	6.6	6.5	6.6	6.6	6.5	6.5	6.6	6.4	6.5	6.6	6.5	6.6
10	6.7	6.5	6.6	6.6	6.4	6.5	6.6	6.5	6.5	6.6	6.5	6.6
11	6.7	6.6	6.6	6.6	6.4	6.5	6.5	6.5	6.5	6.6	6.6	6.6
12	6.6	6.5	6.6	6.6	6.5	6.5	6.6	6.5	6.5	6.6	6.6	6.6
13	6.6	6.6	6.6	6.7	6.5	6.6	6.5	6.3	6.4	6.6	6.6	6.6
14	6.6	6.6	6.6	6.6	6.5	6.6	6.5	6.2	6.3	6.6	6.6	6.6
15	6.6	6.5	6.6	6.6	6.5	6.5	6.5	6.3	6.4	6.7	6.6	6.6
16	6.7	6.6	6.6	6.6	6.4	6.5	6.5	6.4	6.5	6.7	6.6	6.6
17	6.6	6.5	6.6	6.6	6.4	6.5	6.5	6.3	6.4	6.7	6.6	6.6
18	6.6	6.5	6.6	6.5	6.4	6.5	6.4	6.3	6.3	6.7	6.7	6.7
19	6.7	6.5	6.6	6.6	6.4	6.5	6.6	6.4	6.5	6.7	6.7	6.7
20	6.7	6.6	6.6	6.5	6.5	6.5	6.7	6.3	6.5	6.7	6.7	6.7
21	6.6	6.5	6.5	6.5	6.4	6.5	6.5	6.3	6.4	6.8	6.7	6.7
22	6.5	6.4	6.5	6.6	6.4	6.5	6.5	6.4	6.4	6.7	6.7	6.7
23	6.5	6.4	6.4	6.7	6.5	6.6	6.5	6.4	6.4	6.8	6.7	6.7
24	6.5	6.3	6.4	6.7	6.4	6.5	6.5	6.4	6.4	6.7	6.7	6.7
25	6.5	6.4	6.5	6.6	6.4	6.5	6.6	6.4	6.5	6.7	6.7	6.7
26	6.5	6.5	6.5	6.5	6.4	6.5	6.5	6.3	6.4	6.8	6.7	6.8
27	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.8	6.7	6.8
28	6.6	6.4	6.5	6.5	6.5	6.5	6.6	6.4	6.5	6.8	6.7	6.8
29	6.5	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.5	6.8	6.7	6.8
30	6.6	6.4	6.5	6.6	6.5	6.5	6.5	6.4	6.5	6.9	6.7	6.9
31	---	---	---	6.6	6.4	6.5	6.5	6.4	6.5	---	---	---
MONTH	7.0	6.3	6.6	6.7	6.4	6.5	7.1	6.2	6.5	6.9	6.4	6.6
YEAR	7.2	6.2	6.7									

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

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OXYGEN DISSOLVED (DO), (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	8.9	8.5	8.7	11.2	10.5	11.0	13.9	13.6	13.7	12.4	12.2	12.3
2	9.0	8.7	8.8	11.1	10.8	11.0	14.0	13.7	13.8	12.4	12.2	12.3
3	9.1	8.8	8.9	10.8	10.5	10.7	13.9	13.7	13.8	12.5	12.3	12.3
4	9.1	8.8	8.9	10.6	10.4	10.5	13.8	13.6	13.7	12.7	12.2	12.4
5	9.1	8.9	9.0	10.4	10.3	10.4	13.7	12.7	13.2	12.6	12.2	12.4
6	9.1	9.0	9.1	10.8	10.3	10.5	13.0	12.0	12.9	12.6	12.1	12.4
7	9.1	9.0	9.1	11.2	10.6	10.9	13.1	12.9	13.0	12.4	11.9	12.2
8	9.1	8.9	9.0	11.2	10.8	10.9	13.2	13.0	13.1	12.3	12.0	12.1
9	9.3	9.0	9.1	11.8	11.1	11.4	13.3	13.0	13.1	12.4	12.1	12.2
10	9.4	9.1	9.2	12.2	11.3	11.8	13.4	13.0	13.2	12.4	12.1	12.2
11	9.6	9.3	9.4	12.3	12.0	12.2	13.5	13.1	13.3	12.5	12.0	12.3
12	9.8	9.5	9.6	12.4	12.2	12.3	13.5	13.2	13.4	12.5	12.1	12.3
13	9.9	9.6	9.8	12.4	12.3	12.4	13.6	13.3	13.5	12.4	12.0	12.2
14	9.9	9.7	9.8	12.4	12.3	12.4	13.7	13.4	13.6	12.5	12.0	12.2
15	10.0	9.8	9.8	12.4	12.3	12.3	13.8	13.1	13.5	12.4	12.1	12.2
16	10.0	9.8	9.9	12.5	12.3	12.4	13.4	13.0	13.2	12.6	12.2	12.3
17	10.1	9.9	10.0	12.5	12.5	12.5	13.4	13.0	13.2	12.5	12.2	12.3
18	10.2	10.1	10.1	12.5	12.3	12.4	13.4	13.1	13.2	12.5	12.1	12.3
19	10.3	10.2	10.2	12.4	12.3	12.4	13.5	13.1	13.3	12.4	11.8	12.1
20	10.2	10.1	10.1	12.3	12.2	12.3	13.4	13.1	13.2	12.6	12.1	12.3
21	10.4	10.2	10.3	12.6	12.3	12.4	13.5	13.0	13.2	12.6	12.1	12.3
22	---	---	---	13.0	12.6	12.8	13.2	12.9	13.1	12.6	12.1	12.4
23	---	---	---	13.2	13.0	13.1	13.2	12.8	13.0	12.6	12.1	12.3
24	---	---	---	13.3	13.1	13.2	13.1	12.9	13.0	12.5	12.1	12.3
25	---	---	---	13.6	13.1	13.3	13.2	12.8	13.0	12.8	12.1	12.4
26	---	---	---	13.8	13.4	13.5	13.2	12.9	13.0	13.0	12.5	12.8
27	---	---	---	13.9	12.8	13.4	12.8	12.0	12.4	13.2	12.5	12.9
28	---	---	---	13.3	12.6	12.9	12.7	12.4	12.6	13.1	12.8	13.0
29	---	---	---	14.0	12.5	13.1	12.6	12.3	12.4	13.0	12.7	12.9
30	---	---	---	14.0	13.4	13.8	12.5	12.4	12.4	13.5	12.7	12.9
31	---	---	---	---	---	---	12.5	12.3	12.4	14.1	12.9	13.2
MONTH	10.4	8.5	9.5	14.0	10.3	12.1	14.0	12.0	13.1	14.1	11.8	12.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	14.1	13.0	13.4	14.6	14.1	14.3	13.1	13.0	13.1	10.5	10.3	10.4
2	14.4	13.5	14.0	14.7	14.4	14.6	13.1	12.9	13.0	10.5	10.2	10.3
3	14.4	13.6	14.1	14.6	14.4	14.6	12.9	12.7	12.8	10.4	10.0	10.3
4	14.2	14.1	14.2	14.5	14.3	14.4	12.7	12.5	12.7	10.3	10.1	10.2
5	14.2	13.7	14.0	14.3	13.9	14.1	12.5	12.2	12.3	10.4	10.2	10.3
6	14.1	13.9	14.1	13.9	13.8	13.8	13.0	12.5	12.8	10.3	10.0	10.2
7	14.1	13.9	14.0	13.8	13.6	13.7	13.0	12.9	13.0	10.1	9.7	10.0
8	14.0	13.9	13.9	13.8	13.6	13.6	12.9	12.7	12.8	10.1	9.8	10.0
9	14.0	13.9	13.9	13.8	13.7	13.8	12.7	12.5	12.6	10.3	10.0	10.2
10	13.9	13.8	13.9	13.9	13.8	13.9	12.5	12.4	12.5	10.5	10.2	10.3
11	13.8	13.6	13.8	13.9	13.8	13.9	12.4	12.3	12.4	10.4	10.2	10.3
12	13.8	13.6	13.7	13.8	13.6	13.7	12.4	12.1	12.2	10.3	9.9	10.1
13	13.6	13.5	13.6	13.6	13.6	13.6	12.1	12.0	12.0	10.4	9.9	10.2
14	13.5	13.4	13.5	13.5	13.5	13.5	12.5	12.1	12.2	10.9	10.4	10.7
15	13.8	13.5	13.6	13.5	13.4	13.5	12.6	12.4	12.5	10.8	10.6	10.7
16	14.1	13.7	13.8	13.7	13.5	13.6	12.6	12.5	12.5	10.6	10.4	10.5
17	14.1	13.8	13.9	14.0	13.7	13.8	12.5	12.2	12.4	10.6	10.4	10.5
18	14.0	13.7	13.8	14.3	14.0	14.1	12.2	12.0	12.1	---	---	---
19	14.1	13.8	13.9	14.8	14.3	14.6	12.0	11.9	12.0	---	---	---
20	13.9	13.6	13.8	14.7	14.4	14.6	12.0	11.9	12.0	---	---	---
21	14.0	13.7	13.9	14.4	14.2	14.3	12.2	11.9	12.0	---	---	---
22	14.1	13.9	14.0	14.2	13.9	14.0	12.2	12.1	12.2	---	---	---
23	14.1	14.0	14.0	14.2	14.0	14.1	12.2	12.0	12.1	---	---	---
24	14.0	13.8	13.9	---	---	---	11.9	11.8	11.9	---	---	---
25	13.9	13.7	13.9	---	---	---	11.9	11.5	11.7	10.1	9.9	10.0
26	14.1	13.5	13.6	---	---	---	11.5	11.3	11.5	10.2	9.9	10.0
27	14.1	13.6	13.9	13.3	13.2	13.2	11.4	10.9	11.2	10.2	9.8	9.9
28	14.2	13.9	14.0	13.2	13.0	13.1	11.1	10.8	10.9	9.8	9.4	9.6
29	---	---	---	13.0	12.9	13.0	11.0	10.7	10.9	9.9	9.2	9.3
30	---	---	---	13.0	12.9	12.9	10.8	10.5	10.6	9.2	8.7	9.0
31	---	---	---	13.1	12.9	13.0	---	---	---	8.7	8.2	8.4
MONTH	14.4	13.0	13.9	14.8	12.9	13.8	13.1	10.5	12.2	10.9	8.2	10.1

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.--Discharge: September 1913 to April 1924, October 1931 to current year.

Chemical analyses: Water year 1958.

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: Nov. 21 to Mar. 17. Records good except for period of ice-effect, Nov. 21 to Mar. 17, which is fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--69 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)
Mar. 18	1300	*1,250	*6.23	May 14	0915	1,020	5.82
Apr. 4	1930	1,100	5.97				

Minimum discharge, 4.9 ft³/s, Aug. 5, 6, gage height, 1.66 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	140	e57	e40	e94	e110	169	116	129	58	8.4	10
2	26	141	e53	e58	e88	e105	213	112	103	55	6.9	11
3	80	120	e52	e66	e84	e100	228	91	87	47	6.3	8.7
4	65	203	e51	e60	e82	e94	764	88	104	39	6.0	7.9
5	48	150	e51	e55	e78	e87	945	129	94	57	5.0	7.5
6	40	128	e50	e51	e74	e80	617	204	77	53	4.9	7.3
7	39	147	e50	e48	e72	e77	432	159	77	39	7.4	7.3
8	34	131	e49	e46	e70	e72	326	223	73	32	213	7.6
9	29	206	e48	e44	e67	e70	266	179	64	29	158	7.7
10	29	403	e47	e43	e80	e72	254	145	85	29	74	8.1
11	49	258	e46	e44	e130	e87	524	756	219	24	270	8.9
12	122	188	e46	e46	e120	e124	462	533	219	31	544	9.3
13	85	144	e45	e47	e110	e165	318	355	137	31	180	9.7
14	62	123	e45	e42	e100	e210	258	887	100	29	151	9.2
15	50	115	e44	e39	e95	e280	284	517	77	22	106	14
16	47	135	e43	e37	e90	e358	362	349	62	15	65	37
17	55	277	e42	e36	e86	e580	313	275	53	12	45	23
18	116	210	e41	e38	e80	1160	304	321	46	9.7	32	17
19	105	158	e41	e57	e78	875	241	266	42	7.3	28	14
20	109	133	e40	e55	e74	672	209	220	92	6.4	24	15
21	560	e124	e39	e53	e70	806	225	218	93	6.2	19	17
22	342	e108	e38	e50	e68	594	238	252	89	6.2	16	16
23	203	e94	e37	e48	e120	507	203	221	89	13	16	32
24	142	e80	e37	e46	e210	446	175	186	164	79	16	37
25	114	e70	e36	e45	e180	330	156	162	138	47	15	26
26	97	e68	e35	e78	e150	277	152	144	127	34	15	21
27	85	e67	e35	e168	e130	220	141	138	93	22	14	18
28	77	e66	e35	e140	e120	187	129	117	71	17	13	17
29	69	e65	e34	e120	---	167	115	97	55	13	12	20
30	63	e63	e33	e110	---	150	110	179	61	14	11	15
31	60	---	e33	e100	---	154	---	178	---	10	10	---
TOTAL	3032	4315	1333	1910	2800	9216	9133	7817	2920	886.8	2091.9	459.2
MEAN	97.8	144	43.0	61.6	100	297	304	252	97.3	28.6	67.5	15.3
MAX	560	403	57	168	210	1160	945	887	219	79	544	37
MIN	26	63	33	36	67	70	110	88	42	6.2	4.9	7.3
CFSM	1.33	1.96	.59	.84	1.36	4.04	4.14	3.43	1.32	.39	.92	.21
IN.	1.53	2.18	.67	.97	1.42	4.66	4.62	3.96	1.48	.45	1.06	.23

CAL YR 1989 TOTAL 51091.3 MEAN 140 MAX 3320 MIN 5.0 CFSM 1.90 IN. 25.86
WTR YR 1990 TOTAL 45913.9 MEAN 126 MAX 1160 MIN 4.9 CFSM 1.71 IN. 23.24

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.

Chemical analyses: Water years 1052-56, 1966 to 1975.

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.--No estimated daily discharges. Records excellent. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Azischoos, 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. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--62 years, 6,129 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, 35,200 ft³/s, Mar. 19, gage height, 11.33 ft; minimum daily, 1,570 ft³/s, July 14, 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4330	4780	3210	2970	5200	5830	7480	8150	4880	5640	2520	2400
2	2390	5490	2590	3080	5000	5760	7580	7970	6030	5730	2870	2060
3	2020	6860	2440	3270	4810	5710	7710	8220	6040	5660	2570	1830
4	4150	5980	2890	3340	4640	5780	13000	6940	5560	5000	2690	1690
5	3130	5920	3240	3350	3510	5750	26900	6970	4460	4270	2840	3090
6	3700	5230	3140	3250	4680	5750	22600	8270	3850	4170	2570	3120
7	3570	5030	3040	3310	5170	5730	15900	8660	3790	3900	2730	2810
8	3520	6240	3270	3360	5060	4810	12600	8240	3950	4180	3580	1620
9	3500	5890	3420	3410	5050	5640	10600	8160	4480	3990	8680	1780
10	3540	10100	3410	3310	5170	5740	10400	7210	4810	3990	7640	2780
11	3310	11700	3250	3310	3990	5770	11300	10000	5590	3890	6610	2520
12	3650	8050	3160	3330	4450	6130	16200	20100	8670	3750	20900	2570
13	3960	5870	3160	3110	5510	7260	14000	13400	8690	3500	13700	2610
14	4590	5690	3250	2810	5820	7420	11000	14800	6280	1570	10600	2560
15	4460	5530	3230	2680	6030	7750	10700	17200	5740	1570	13600	3100
16	3950	6120	3080	2560	5410	11000	11900	12100	5110	2590	12100	3900
17	3550	10300	3000	2520	4750	17700	12000	11600	4720	3880	7180	3580
18	3780	14300	3010	2750	4720	30100	12200	10300	4750	3290	6220	3130
19	3690	8760	3100	2920	4830	33200	11200	11200	5120	2560	5810	3110
20	3920	6700	3040	2950	4970	26300	9450	10600	4310	2250	5630	3180
21	9580	7040	3060	3300	4730	23000	9700	10000	5970	2240	4430	3140
22	16400	6940	3050	3380	4760	21700	9670	10000	6880	2400	5120	2180
23	10300	6890	3130	3350	5040	16700	9620	11400	6090	2360	4550	3340
24	7600	6130	3080	3330	7110	15200	10200	11100	8410	4890	3700	3680
25	6520	4550	3080	4030	9050	13200	9890	9740	10400	5060	3850	3660
26	5580	3730	3000	4710	8170	12000	9280	9870	9240	5010	3820	3670
27	5390	4030	3050	4270	6650	10400	8990	9360	7520	4290	3230	3650
28	4700	4230	3190	5650	6140	9940	10700	7490	7010	3150	3250	3620
29	4800	4150	2900	6650	---	9410	10000	6720	5840	2370	3350	3180
30	4640	3700	2970	5960	---	7570	10100	8820	5840	3650	3170	1710
31	4070	---	2990	5230	---	7490	---	5520	---	3160	2420	---
TOTAL	152290	195930	95430	111450	150420	355740	352870	310110	180030	113960	181930	85270
MEAN	4913	6531	3078	3595	5372	11480	11760	10000	6001	3676	5869	2842
MAX	16400	14300	3420	6650	9050	33200	26900	20100	10400	5730	20900	3900
MIN	2020	3700	2440	2520	3510	4810	7480	5520	3790	1570	2420	1620

CAL YR 1989 TOTAL 2379250 MEAN 6518 MAX 61900 MIN 1340
WTR YR 1990 TOTAL 2285430 MEAN 6261 MAX 33200 MIN 1570

ANDROSCOGGIN RIVER BASIN

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME
(National stream-quality accounting network station)

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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 mi .

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED	COLI- FORM, FECAL, 0.7	STREP- TOCOCCI KF AGAR
		(US/CM) (00095)	(00400)	(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MM OF HG) (00025)	(MG/L) (00300)	(PER- CENT SATUR- ATION) (00301)	UM-MF (COLS./ 100 ML) (31625)	(COLS. PER 100 ML) (31673)		
OCT 12...	0900	3840	122	7.1	8.0	10.5	2.6	760	10.7	96	130	78	
DEC 19...	1000	3260	150	7.0	-4.0	0.0	2.7	760	13.7	94	100	44	
FEB 07...	1000	5440	107	6.9	1.5	0.0	3.2	760	14.2	97	190	K 32	
APR 03...	0830	8110	81	7.0	5.0	3.0	2.1	760	13.5	101	1800	390	
JUN 05...	0800	4690	87	7.0	14.0	17.0	3.0	760	8.7	90	78	K 15	
AUG 08...	1330	3770	129	7.0	24.5	23.5	1.8	770	7.1	83	K 32	K 38	
DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
OCT 12...	20	6.3	1.0	14	1.3	18	0	15	16	15	13	15	
DEC 19...	20	6.3	1.0	20	1.2	21	0	17	18	18	15	18	
FEB 07...	18	5.4	1.1	12	1.1	14	0	11	13	12	12	12	
APR 03...	16	4.7	0.91	9.1	0.9	12	0	9	10	10	8.3	10	
JUN 05...	14	4.5	0.79	10	1.7	15	0	12	14	14	9.9	10	
AUG 08...	19	6.1	1.0	19	1.5	21	0	17	18	18	15	21	

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

ANDROSCOGGIN RIVER BASIN

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01059400 - ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 12...	0.1	5.4	81	66	0.18	0.04	0.05	0.5	0.05	0.02	0.02
DEC 19...	0.1	6.8	105	80	0.23	0.02	0.03	0.4	0.03	0.01	0.03
FEB 07...	0.1	6.5	85	59	0.30	0.11	0.14	0.4	0.39	1.40	0.02
APR 03...	<0.1	5.7	52	47	0.20	0.05	0.06	<0.2	0.02	<0.01	<0.01
JUN 05...	<0.1	4.7	52	50	0.20	0.07	0.09	0.4	0.02	0.01	<0.01
AUG 08...	<0.1	4.9	87	80	0.20	0.05	0.06	0.6	0.04	0.02	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 12...	100	<1	8	<0.5	<1	1	<3	1	170	1	<4	30
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	100	<1	9	<0.5	<1	<5	<3	<10	110	<10	<4	41
APR 03...	90	<1	7	<0.5	<1	<5	<3	<10	100	<10	<4	39
JUN 05...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	80	<1	8	<0.5	1	<1	<3	3	190	1	<4	15

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. 7 FINER THAN .062 MM (70331)
OCT 12...	<0.1	<10	1	<1	<1	29	<6	5	6	62	70
DEC 19...	--	--	--	--	--	--	--	--	2	18	75
FEB 07...	<0.1	<10	<10	<1	<1	32	<6	10	2	29	100
APR 03...	<0.1	<10	<10	<1	<1	25	<6	9	9	197	100
JUN 05...	--	--	--	--	--	--	--	--	6	76	84
AUG 08...	<0.1	<10	4	<1	<1	28	<6	<3	6	61	76

Reservoirs in Androscoggin River Basin

- 01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft³ 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 ft³ 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 ft³ 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 ft³ 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 ft³ 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 ft³ 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 ft³ 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 ft³ 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 1989 TO SEPTEMBER 1990

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1989	1,105	5,302	3,696	6,660
OCT. 31. . . .	837	4,815	2,832	5,932
NOV. 30. . . .	392	5,834	3,069	6,268
DEC. 31. . . .	937	4,402	3,381	5,098
JAN. 31, 1990	1,045	2,838	3,233	4,968
FEB. 28. . . .	1,188	568	2,978	5,072
MAR. 31. . . .	737	3,620	2,339	5,960
APR. 30. . . .	1,122	7,402	4,195	9,162
MAY 31. . . .	1,306	8,226	5,633	9,360
JUNE 30. . . .	1,306	8,190	5,691	9,531
JULY 31. . . .	1,272	7,295	4,862	8,635
AUG. 31. . . .	1,071	6,830	4,158	8,185
SEPT. 30. . . .	1,071	5,586	3,252	7,318

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1989	2,378	2,016	342	1,632
OCT. 31. . . .	1,920	2,455	383	1,592
NOV. 30. . . .	2,034	2,246	386	1,694
DEC. 31. . . .	1,884	2,295	474	1,632
JAN. 31, 1990	2,091	2,366	408	1,632
FEB. 28. . . .	2,205	2,309	474	1,719
MAR. 31. . . .	2,224	2,312	616	1,805
APR. 30. . . .	2,944	2,409	592	1,790
MAY 31. . . .	2,866	2,253	604	1,934
JUNE 30. . . .	2,788	2,429	640	1,822
JULY 31. . . .	2,846	2,420	568	1,755
AUG. 31. . . .	2,748	2,336	520	1,639
SEPT. 30. . . .	2,300	2,404	463	1,569

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: Nov. 24, Dec. 1 to Jan. 25, and Feb. 17 to 22. Records good except for periods of ice effect, Nov. 24, Dec. 1 to Jan. 25, and Feb. 17-22, 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. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--41 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)
Mar. 21	0730	1,650	3.50	Apr. 5	0145	*2,620	*4.33

Minimum daily discharge, 35 ft³/s, Sept 5-8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	402	e150	e118	230	266	272	193	344	159	58	36
2	43	451	e112	e130	217	239	395	190	223	124	53	36
3	54	282	e100	e140	206	237	481	168	168	103	49	37
4	62	473	e99	e125	192	235	2000	150	143	90	46	37
5	55	386	e98	e115	175	218	2280	171	128	86	43	35
6	49	255	e98	e110	167	191	1190	296	112	83	43	35
7	50	210	e98	e105	154	168	677	254	108	72	43	35
8	48	186	e97	e100	149	148	449	225	108	66	50	35
9	45	258	e96	e95	151	139	368	203	111	64	67	37
10	42	575	e94	e90	245	150	332	182	134	62	60	38
11	43	417	e92	e92	421	208	808	637	188	59	253	37
12	67	278	e89	e95	444	353	933	644	286	54	423	36
13	71	196	e88	e98	383	506	554	428	184	53	289	37
14	55	170	e87	e90	316	656	396	947	135	51	160	36
15	52	151	e86	e82	263	756	507	720	109	49	105	38
16	53	163	e85	e74	222	835	1100	416	97	47	81	77
17	78	285	e84	e68	e203	906	748	315	90	45	68	61
18	229	266	e83	e78	e195	1400	544	403	83	43	60	45
19	177	193	e82	e115	e180	1380	411	383	78	42	56	39
20	182	173	e81	e110	e170	1250	339	301	122	40	53	41
21	692	328	e80	e103	e162	1610	388	259	298	46	50	44
22	562	364	e79	e95	e155	1310	545	277	236	48	47	44
23	283	241	e78	e92	358	921	427	252	239	50	45	80
24	185	e191	e77	e90	681	724	338	217	815	98	44	97
25	138	159	e76	e88	607	509	288	193	660	314	44	63
26	112	146	e75	159	495	410	269	169	359	304	43	52
27	95	134	e74	364	384	344	252	151	236	177	42	48
28	88	157	e73	412	315	287	229	136	171	111	43	45
29	81	229	e72	375	---	258	203	125	135	85	41	43
30	89	181	e71	299	---	234	189	489	167	72	40	44
31	70	---	e70	255	---	235	---	640	---	64	39	---
TOTAL	3894	7900	2724	4362	7840	17083	17912	10134	6267	2761	2538	1368
MEAN	126	263	87.9	141	280	551	597	327	209	89.1	81.9	45.6
MAX	692	575	150	412	681	1610	2280	947	815	314	423	97
MIN	42	134	70	68	149	139	189	125	78	40	39	35
CFSM	.89	1.87	.62	1.00	1.99	3.91	4.23	2.32	1.48	.63	.58	.32
IN.	1.03	2.08	.72	1.15	2.07	4.51	4.73	2.67	1.65	.73	.67	.36

CAL YR 1989 TOTAL 100656 MEAN 276 MAX 6930 MIN 30 CFSM 1.96 IN. 26.56
WTR YR 1990 TOTAL 84783 MEAN 232 MAX 2280 MIN 35 CFSM 1.65 IN. 22.37

e Estimated

01064000 PRESUMPSCOT 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.--Discharge: Jan. 1887 to current year.
Chemical analyses: Water years 1953, 1971.

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.--103 years, 657 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	254	554	670	831	819	819	655	819	831	400	819
2	350	254	554	670	831	819	819	655	831	831	400	819
3	350	254	554	670	819	819	350	655	831	400	400	819
4	350	254	554	670	819	831	350	655	831	400	400	831
5	350	254	554	670	819	831	350	655	831	400	400	655
6	350	254	554	670	819	831	350	655	819	400	400	670
7	350	254	554	655	831	819	350	655	819	400	400	670
8	350	254	554	670	831	819	350	655	998	400	400	670
9	254	254	554	670	831	819	350	655	985	400	400	670
10	254	254	554	670	831	819	350	350	985	392	392	655
11	254	254	554	670	831	819	350	350	985	400	400	655
12	254	254	554	670	831	819	350	350	985	400	400	655
13	254	254	554	655	831	819	350	350	985	400	400	831
14	254	254	554	655	831	819	350	350	985	400	400	356
15	254	254	554	670	831	819	350	350	985	400	400	670
16	254	254	554	670	831	819	350	350	985	400	392	300
17	254	254	554	670	831	695	350	350	985	400	392	300
18	254	944	554	670	831	695	350	819	985	400	670	300
19	254	727	554	670	831	831	350	831	985	400	670	300
20	254	827	554	670	831	831	350	819	985	400	670	300
21	254	827	554	670	819	831	350	819	985	400	423	300
22	254	590	554	670	819	831	350	819	985	400	778	300
23	254	590	554	670	819	831	670	819	985	400	670	277
24	254	590	554	670	819	831	670	831	985	400	655	277
25	254	594	554	670	819	831	670	831	985	400	670	277
26	254	554	554	670	819	831	670	831	50	400	670	277
27	254	554	554	670	819	831	670	831	50	400	670	277
28	254	554	554	670	819	831	670	831	50	400	670	277
29	254	554	670	670	---	831	670	831	50	400	670	277
30	254	554	670	670	---	831	670	1830	831	400	415	277
31	254	---	670	670	---	831	---	1830	---	400	831	---
TOTAL	8642	12777	17522	20725	23124	25333	13998	22267	24555	13254	15908	14761
MEAN	279	426	565	669	826	817	467	718	818	428	513	492
MAX	350	944	670	670	831	831	819	1830	998	831	831	831
MIN	254	254	554	655	819	695	350	350	50	392	392	277

CAL YR 1989 TOTAL 243073 MEAN 666 MAX 3310 MIN 50
WTR YR 1990 TOTAL 212866 MEAN 583 MAX 1830 MIN 50

01064118 PRESUMPSCOT RIVER AT WESTBROOK, ME

LOCATION.--Lat 43°41'13", long 70°20'49", Cumberland County, Hydrologic Unit 01060001, on right bank, 0.4 mi downstream from Cumberland Street Bridge in Westbrook, under S. D. Warren owned bridge.

DRAINAGE AREA.--577 mi².

PERIOD OF RECORD.--October 1975 to current year. Prior to October 1984, published as "near West Falmouth".

GAGE.--Water-stage recorder. Datum of gage is 17.39 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 13, 1984, at site 4.1 mi. downstream at datum 6.24 ft lower.

REMARKS.--Estimated daily discharges: Nov. 29 to Jan. 19, Apr. 28 to May 4, May 6-12, May 25, June 3-7, 24-29, July 3-29, Aug. 1-2, Aug. 29-30, Sept. 14-25, Sept. 28-30. Records fair, except for estimated daily discharges, which are poor. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--15 years, 955 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, 3,350 ft³/s, Apr. 4, gage height 13.04 ft; minimum daily, 185 ft³/s, June 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	415	1140	e704	e788	1100	1110	1260	e850	1770	1160	e458	779
2	394	690	e666	e800	1070	1160	1380	e840	1220	967	e453	979
3	408	549	e654	e810	1050	1140	1220	e830	e1100	e503	446	1100
4	409	969	e653	e795	1130	1160	2530	e805	e1010	e490	460	1050
5	408	547	e652	e785	1090	1100	1870	843	e980	e486	400	843
6	397	482	e652	e780	1080	1060	800	e951	e970	e483	451	699
7	415	418	e652	e760	1190	1020	1130	e909	e965	e472	401	789
8	405	508	e651	e770	1060	991	882	e880	1000	e466	414	709
9	400	515	e650	e765	1010	996	640	e858	1090	e464	441	644
10	366	1070	e648	e760	1180	1020	822	e532	1200	e462	427	641
11	353	645	e646	e762	1410	1200	1460	e987	1250	e459	811	653
12	316	477	e644	e765	1340	1340	1250	e994	1260	e454	602	650
13	388	497	e642	e753	1230	1460	1050	764	1230	e453	638	885
14	388	433	e641	e745	1120	1570	759	1400	1030	e451	485	e392
15	406	388	e640	e752	1030	1560	999	916	1060	e449	484	e708
16	391	511	e639	e744	987	1650	1470	617	1020	e447	461	e377
17	501	573	e638	e738	1080	1720	1090	596	1130	e445	533	e361
18	682	485	e637	e748	1050	2010	1080	1030	1130	e443	790	e345
19	436	534	e636	e785	1100	1850	840	1310	998	e442	721	e339
20	545	502	e635	770	1050	1740	628	1150	1110	e440	584	e341
21	1240	913	e634	808	1020	1950	815	1150	1190	e446	512	e344
22	732	1120	e633	766	959	1670	1030	1210	1250	e448	563	e344
23	487	918	e632	793	1460	1610	860	1190	1340	e450	742	e357
24	387	690	e631	788	1730	1550	1130	1010	e1800	e498	750	e374
25	435	677	e630	695	1460	1390	1010	e1020	e1640	e810	720	e340
26	444	697	e629	792	1310	1270	991	983	e409	e670	809	357
27	417	736	e628	1250	1250	1150	1020	1140	e286	e577	978	305
28	415	880	e627	1160	1130	1190	e900	1110	e221	e511	676	e322
29	377	e1040	e742	1130	---	1160	e870	1090	e185	e485	516	e320
30	373	e810	e741	1000	---	1130	e860	1900	979	473	e711	e321
31	387	---	e740	962	---	1150	---	2160	---	408	e455	---
TOTAL	14117	20414	20247	25519	32676	42077	32646	32025	31823	16212	17892	16668
MEAN	455	680	653	823	1167	1357	1088	1033	1061	523	577	556
MAX	1240	1140	742	1250	1730	2010	2530	2160	1800	1160	978	1100
MIN	316	388	627	695	959	991	628	532	185	408	400	305

CAL YR 1989 TOTAL 334613 MEAN 917 MAX 8530 MIN 225
WTR YR 1990 TOTAL 302316 MEAN 828 MAX 2530 MIN 185

e Estimated

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME
(National stream-quality accounting network station)

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LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, Hydrologic Unit 01060001, on right bank 50 ft. upstream from bridge on Blackstrap Road, 0.1 mi downstream from Maine Turnpike, 0.6 mi downstream from Meader Brook, 0.9 mi upstream from Piscataqua River, and 1.5 mi south of West Falmouth.

DRAINAGE AREA.--598 mi².

PERIOD OF RECORD.--Water years 1973-74; 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to October 1984. Seasonal records November 1984 to current year.

pH: July 1976 to October 1984. Seasonal records November 1984 to current year.

WATER TEMPERATURE: July 1976 to October 1984. Seasonal records November 1984 to current year.

DISSOLVED OXYGEN: July 1976 to October 1984. Seasonal records November 1984 to current year.

DISCHARGE: October 1975 to September 1984.

INSTRUMENTATION.--Water-quality monitor since July 1976. Continuous flow through system. Suction lift pump located in shelter house. Pump intake located 30 ft streamward from right bank.

REMARKS.--Beginning in water year 1985, monitor not operated during period November to April. Other interruptions in the record were due to malfunctions of the monitor or pumping system. Beginning in the 1985 water year, water-discharge records for the Presumpscot River at Westbrook (station 01064118) are used for computation of mean daily discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 375 microsiemens, Jan. 8, 1979; minimum, 21 microsiemens, July 28, 1982.

pH: Maximum, 9.4 units, Dec. 7, 1977; minimum, 5.3 units, May 22, 1978.

WATER TEMPERATURE: Maximum, 29.0°C, July 21, 1977, Aug. 8, 9, 1980, Aug. 6, 7, 11, 1988; minimum, 0.0°C, on many days during winter periods 1977 to 1984.

DISSOLVED OXYGEN: Maximum, 15.0 mg/L, Jan. 30, 1983; minimum, 4.4 mg/L, Aug. 8, 1980.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	
OCT 12...	1230	328	170	7.3	13.0	12.0	4.6	760	10.1	94	K 710	92	
DEC 15...	0930	E 663	117	7.3	-13.0	0.5	1.7	760	14.4	100	>1500	430	
FEB 07...	1300	1230	93	7.0	5.0	1.0	2.2	750	14.2	101	270	100	
APR 03...	1200	1260	97	7.2	6.0	4.5	2.8	760	13.0	101	>180	65	
JUN 04...	0900	1250	84	7.1	20.5	17.0	4.0	750	9.3	98	120	55	
AUG 08...	1015	429	118	7.2	22.0	24.0	3.1	770	7.4	87	480	670	
DATE		HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 12...	26	8.6	1.1	22	1.5	32	0	26	27	27	15	21	
DEC 15...	19	6.0	0.91	14	0.8	20	0	16	17	17	10	15	
FEB 07...	16	5.0	0.89	11	1.0	15	0	12	13	13	8.0	12	
APR 03...	17	5.3	0.97	12	1.1	15	0	13	14	14	8.2	14	
JUN 04...	15	4.9	0.79	9.6	0.8	15	0	12	13	14	6.7	14	
AUG 08...	18	5.7	0.87	17	1.2	23	0	19	19	20	9.3	21	

E Estimated discharge.

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

PRESUMPCOT RIVER BASIN

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01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 12...	0.1	2.7	94	89	0.18	0.03	0.04	0.3	0.05	0.03	0.03
DEC 15...	0.1	2.8	67	60	0.16	0.06	0.08	0.2	0.04	0.03	0.03
FEB 07...	0.1	3.0	72	49	0.17	0.05	0.06	0.3	0.03	0.04	<0.01
APR 03...	0.1	3.4	52	53	0.10	0.04	0.05	0.7	0.01	<0.01	<0.01
JUN 04...	<0.1	2.4	42	47	0.10	0.02	0.03	0.4	0.02	0.02	<0.01
AUG 08...	<0.1	2.6	64	69	<0.10	0.02	0.03	0.4	0.03	<0.01	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 12...	30	<1	12	<0.5	<1	2	<3	<1	76	1	<4	59
DEC 15...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	40	<1	9	<0.5	<1	20	<3	<10	130	10	<4	21
APR 03...	50	<1	6	<0.5	<1	<5	<3	<10	54	<10	<4	21
JUN 04...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	30	<1	6	<0.5	<1	<1	<3	1	95	2	<4	41

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. 7 FINER THAN .062 MM (70331)
OCT 12...	<0.1	<10	1	<1	<1	39	<6	5	4	3.5	100
DEC 15...	--	--	--	--	--	--	--	--	4	7.2	35
FEB 07...	0.2	<10	<10	<1	1	32	<6	9	--	--	--
APR 03...	<0.1	<10	<10	<1	1	28	<6	10	2	6.8	100
JUN 04...	--	--	--	--	--	--	--	--	7	24	80
AUG 08...	<0.1	<10	<1	<1	<1	29	<6	4	16	19	69

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	185	150	166	---	---	---	---	---	---	---	---	---
2	194	160	181	---	---	---	---	---	---	---	---	---
3	169	153	159	---	---	---	---	---	---	---	---	---
4	160	140	153	---	---	---	---	---	---	---	---	---
5	162	133	152	---	---	---	---	---	---	---	---	---
6	169	160	164	---	---	---	---	---	---	---	---	---
7	167	139	153	---	---	---	---	---	---	---	---	---
8	143	130	135	---	---	---	---	---	---	---	---	---
9	134	121	128	---	---	---	---	---	---	---	---	---
10	146	131	142	---	---	---	---	---	---	---	---	---
11	178	144	161	---	---	---	---	---	---	---	---	---
12	173	155	163	---	---	---	---	---	---	---	---	---
13	185	156	174	---	---	---	---	---	---	---	---	---
14	212	186	202	---	---	---	---	---	---	---	---	---
15	205	187	194	---	---	---	---	---	---	---	---	---
16	256	184	207	---	---	---	---	---	---	---	---	---
17	262	173	222	---	---	---	---	---	---	---	---	---
18	168	109	133	---	---	---	---	---	---	---	---	---
19	167	122	152	---	---	---	---	---	---	---	---	---
20	182	147	162	---	---	---	---	---	---	---	---	---
21	161	113	128	---	---	---	---	---	---	---	---	---
22	162	114	150	---	---	---	---	---	---	---	---	---
23	158	145	151	---	---	---	---	---	---	---	---	---
24	173	148	166	---	---	---	---	---	---	---	---	---
25	157	151	154	---	---	---	---	---	---	---	---	---
26	150	129	135	---	---	---	---	---	---	---	---	---
27	153	127	133	---	---	---	---	---	---	---	---	---
28	162	149	156	---	---	---	---	---	---	---	---	---
29	156	146	151	---	---	---	---	---	---	---	---	---
30	158	140	150	---	---	---	---	---	---	---	---	---
31	164	140	151	---	---	---	---	---	---	---	---	---
MONTH	262	109	159	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	108	95	99	
2	---	---	---	---	---	---	---	---	96	91	93	
3	---	---	---	---	---	---	---	---	107	91	97	
4	---	---	---	---	---	---	---	---	108	101	105	
5	---	---	---	---	---	---	---	---	111	97	104	
6	---	---	---	---	---	---	---	---	106	93	98	
7	---	---	---	---	---	---	---	---	111	105	107	
8	---	---	---	---	---	---	---	---	108	99	102	
9	---	---	---	---	---	---	---	---	109	101	104	
10	---	---	---	---	---	---	---	---	134	115	127	
11	---	---	---	---	---	---	---	---	140	95	116	
12	---	---	---	---	---	---	---	---	129	109	116	
13	---	---	---	---	---	---	---	---	135	122	131	
14	---	---	---	---	---	---	---	---	120	96	107	
15	---	---	---	---	---	---	---	---	133	110	116	
16	---	---	---	---	---	---	---	---	140	119	126	
17	---	---	---	---	---	---	---	---	140	129	134	
18	---	---	---	---	---	---	---	---	145	102	126	
19	---	---	---	---	---	---	---	---	104	93	98	
20	---	---	---	---	---	---	---	---	99	87	93	
21	---	---	---	---	---	---	---	---	92	88	90	
22	---	---	---	---	---	---	---	---	94	86	89	
23	---	---	---	---	---	---	---	---	101	93	96	
24	---	---	---	---	---	---	---	---	109	95	99	
25	---	---	---	---	---	---	---	---	106	96	102	
26	---	---	---	---	---	---	---	---	99	78	90	
27	---	---	---	---	---	---	---	---	82	76	80	
28	---	---	---	---	---	---	---	---	91	80	85	
29	---	---	---	---	---	---	---	---	90	78	86	
30	---	---	---	---	---	---	---	---	101	70	85	
31	---	---	---	---	---	---	---	---	72	66	68	
MONTH	---	---	---	---	---	---	---	---	145	66	102	

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989[illegible]

PRESUMPCOT RIVER BASIN

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.0	15.0	15.5	---	---	---	---	---	---	---	---	---
2	16.0	15.5	16.0	---	---	---	---	---	---	---	---	---
3	17.0	16.0	16.5	---	---	---	---	---	---	---	---	---
4	16.5	15.0	15.5	---	---	---	---	---	---	---	---	---
5	15.0	15.0	15.0	---	---	---	---	---	---	---	---	---
6	15.0	14.5	15.0	---	---	---	---	---	---	---	---	---
7	14.5	14.0	14.5	---	---	---	---	---	---	---	---	---
8	14.0	14.0	14.0	---	---	---	---	---	---	---	---	---
9	14.0	13.0	13.5	---	---	---	---	---	---	---	---	---
10	13.0	12.5	12.5	---	---	---	---	---	---	---	---	---
11	12.5	12.5	12.5	---	---	---	---	---	---	---	---	---
12	12.5	12.0	12.5	---	---	---	---	---	---	---	---	---
13	13.0	12.5	12.5	---	---	---	---	---	---	---	---	---
14	13.0	12.5	12.5	---	---	---	---	---	---	---	---	---
15	13.0	13.0	13.0	---	---	---	---	---	---	---	---	---
16	13.5	13.0	13.5	---	---	---	---	---	---	---	---	---
17	14.0	12.5	13.5	---	---	---	---	---	---	---	---	---
18	12.5	11.0	12.0	---	---	---	---	---	---	---	---	---
19	11.0	10.5	11.0	---	---	---	---	---	---	---	---	---
20	10.5	10.0	10.0	---	---	---	---	---	---	---	---	---
21	10.5	10.0	10.0	---	---	---	---	---	---	---	---	---
22	10.5	10.0	10.0	---	---	---	---	---	---	---	---	---
23	10.0	9.5	10.0	---	---	---	---	---	---	---	---	---
24	10.0	9.5	10.0	---	---	---	---	---	---	---	---	---
25	10.0	9.5	9.5	---	---	---	---	---	---	---	---	---
26	10.5	9.5	9.5	---	---	---	---	---	---	---	---	---
27	11.5	10.5	11.0	---	---	---	---	---	---	---	---	---
28	12.5	11.5	12.0	---	---	---	---	---	---	---	---	---
29	13.0	12.5	13.0	---	---	---	---	---	---	---	---	---
30	13.5	13.0	13.5	---	---	---	---	---	---	---	---	---
31	14.0	13.5	13.5	---	---	---	---	---	---	---	---	---
MONTH	17.0	9.5	12.5	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	11.5	11.0	11.0
2	---	---	---	---	---	---	---	---	---	12.5	11.0	11.5
3	---	---	---	---	---	---	---	---	---	12.5	11.0	12.0
4	---	---	---	---	---	---	---	---	---	13.0	11.5	12.0
5	---	---	---	---	---	---	---	---	---	12.0	11.0	11.5
6	---	---	---	---	---	---	---	---	---	11.0	10.5	10.5
7	---	---	---	---	---	---	---	---	---	11.5	10.5	11.0
8	---	---	---	---	---	---	---	---	---	11.5	10.5	11.0
9	---	---	---	---	---	---	---	---	---	12.5	10.5	11.5
10	---	---	---	---	---	---	---	---	---	13.0	12.5	12.5
11	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
12	---	---	---	---	---	---	---	---	---	14.0	12.0	13.0
13	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
14	---	---	---	---	---	---	---	---	---	13.0	12.0	12.5
15	---	---	---	---	---	---	---	---	---	14.0	12.0	13.0
16	---	---	---	---	---	---	---	---	---	15.0	13.5	14.0
17	---	---	---	---	---	---	---	---	---	15.0	14.0	14.5
18	---	---	---	---	---	---	---	---	---	14.0	13.0	13.5
19	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
20	---	---	---	---	---	---	---	---	---	13.0	11.5	13.0
21	---	---	---	---	---	---	---	---	---	13.0	12.0	12.5
22	---	---	---	---	---	---	---	---	---	11.5	11.0	11.5
23	---	---	---	---	---	---	---	---	---	11.5	11.0	11.5
24	---	---	---	---	---	---	---	---	---	12.0	11.0	11.5
25	---	---	---	---	---	---	---	---	---	13.5	11.5	12.5
26	---	---	---	---	---	---	---	---	---	14.0	12.5	13.0
27	---	---	---	---	---	---	---	---	---	15.0	13.0	14.0
28	---	---	---	---	---	---	---	---	---	16.0	14.0	15.0
29	---	---	---	---	---	---	---	---	---	15.5	14.5	15.0
30	---	---	---	---	---	---	---	---	---	15.5	14.0	14.5
31	---	---	---	---	---	---	---	---	---	14.5	13.5	14.0
MONTH	---	---	---	---	---	---	---	---	---	16.0	10.5	12.5

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

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OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

[illegible]

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	10.7	10.5	10.6
2	---	---	---	---	---	---	---	---	---	10.7	10.5	10.6
3	---	---	---	---	---	---	---	---	---	10.7	10.5	10.6
4	---	---	---	---	---	---	---	---	---	10.6	10.5	10.6
5	---	---	---	---	---	---	---	---	---	10.6	10.5	10.6
6	---	---	---	---	---	---	---	---	---	11.0	10.6	10.8
7	---	---	---	---	---	---	---	---	---	10.7	10.6	10.7
8	---	---	---	---	---	---	---	---	---	11.0	10.5	10.7
9	---	---	---	---	---	---	---	---	---	10.8	10.4	10.7
10	---	---	---	---	---	---	---	---	---	10.3	10.0	10.1
11	---	---	---	---	---	---	---	---	---	10.2	9.8	10.0
12	---	---	---	---	---	---	---	---	---	10.3	10.0	10.2
13	---	---	---	---	---	---	---	---	---	10.1	10.0	10.0
14	---	---	---	---	---	---	---	---	---	10.5	10.1	10.3
15	---	---	---	---	---	---	---	---	---	10.4	9.8	10.2
16	---	---	---	---	---	---	---	---	---	9.9	9.6	9.8
17	---	---	---	---	---	---	---	---	---	9.6	9.6	9.6
18	---	---	---	---	---	---	---	---	---	10.0	9.6	9.8
19	---	---	---	---	---	---	---	---	---	10.1	10.0	10.1
20	---	---	---	---	---	---	---	---	---	10.3	10.1	10.2
21	---	---	---	---	---	---	---	---	---	10.4	10.2	10.3
22	---	---	---	---	---	---	---	---	---	10.7	10.4	10.6
23	---	---	---	---	---	---	---	---	---	10.6	10.5	10.5
24	---	---	---	---	---	---	---	---	---	10.7	10.5	10.6
25	---	---	---	---	---	---	---	---	---	10.5	10.2	10.4
26	---	---	---	---	---	---	---	---	---	10.3	10.0	10.2
27	---	---	---	---	---	---	---	---	---	10.1	9.6	9.9
28	---	---	---	---	---	---	---	---	---	9.8	9.4	9.7
29	---	---	---	---	---	---	---	---	---	9.8	9.4	9.6
30	---	---	---	---	---	---	---	---	---	10.0	9.5	9.7
31	---	---	---	---	---	---	---	---	---	10.4	9.9	10.2
MONTH	---	---	---	---	---	---	---	---	---	11.0	9.4	10.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	10.4	9.9	10.2	9.0	8.7	8.8	7.6	7.3	7.4	7.3	7.1	7.2
2	9.9	9.5	9.8	8.8	8.7	8.7	7.4	6.9	7.1	7.3	7.1	7.2
3	9.6	9.2	9.5	8.7	8.4	8.7	7.5	6.9	7.1	7.4	6.9	7.2
4	9.2	8.9	9.1	8.4	8.2	8.3	7.5	7.2	7.4	7.7	7.3	7.5
5	9.1	8.9	9.0	8.2	8.0	8.1	7.5	7.1	7.3	7.7	7.5	7.6
6	9.1	8.9	9.1	8.3	8.0	8.1	7.4	7.1	7.3	7.6	7.4	7.5
7	9.1	9.0	9.1	8.3	8.0	8.2	7.5	7.1	7.2	7.7	7.3	7.5
8	9.1	8.9	9.0	8.3	7.6	7.9	7.5	7.3	7.4	8.3	7.8	8.0
9	9.0	8.9	9.0	7.5	6.7	7.2	7.6	7.4	7.5	8.5	8.2	8.4
10	9.1	8.9	9.1	7.5	7.0	7.3	7.6	7.3	7.4	8.4	8.3	8.4
11	9.4	9.1	9.2	7.5	6.9	7.1	7.6	7.4	7.5	8.6	8.3	8.4
12	9.7	9.4	9.5	8.1	7.3	7.8	7.9	7.6	7.8	8.5	8.4	8.5
13	9.5	9.3	9.4	8.1	7.8	7.9	7.8	7.5	7.7	8.5	8.3	8.4
14	9.4	9.2	9.3	8.0	7.8	7.9	7.5	7.2	7.3	8.4	8.2	8.3
15	9.2	9.0	9.2	8.0	7.8	7.9	7.3	7.0	7.1	8.3	8.1	8.1
16	9.1	8.9	9.0	7.9	7.6	7.7	7.2	6.7	6.9	8.5	8.2	8.3
17	9.0	8.8	8.9	7.8	7.6	7.7	7.1	6.8	6.9	8.8	8.4	8.5
18	8.8	8.5	8.7	7.8	7.5	7.6	7.2	7.0	7.1	8.7	8.7	8.7
19	8.6	8.4	8.5	7.7	7.4	7.5	7.3	6.9	7.0	8.7	8.4	8.5
20	8.7	8.5	8.6	7.7	7.3	7.4	7.4	7.1	7.3	8.5	8.1	8.3
21	8.8	8.8	8.8	7.6	6.9	7.3	7.4	7.1	7.3	8.5	8.0	8.2
22	8.9	8.8	8.8	7.6	7.3	7.4	7.4	7.2	7.3	8.5	8.3	8.4
23	8.9	8.6	8.7	7.6	7.3	7.4	7.3	7.2	7.2	8.4	7.6	8.1
24	9.0	8.9	9.0	7.7	7.3	7.5	7.3	7.1	7.2	8.2	8.0	8.1
25	8.9	8.7	8.8	8.0	7.4	7.8	7.1	6.8	6.9	8.4	8.2	8.3
26	8.9	8.6	8.8	8.2	8.0	8.1	6.9	6.7	6.7	8.5	8.2	8.3
27	8.6	8.1	8.3	8.1	8.0	8.1	7.7	6.6	7.3	8.3	7.8	8.1
28	8.1	8.0	8.1	7.9	7.8	7.8	7.5	7.3	7.4	7.9	7.7	7.8
29	8.0	7.7	7.9	7.9	7.7	7.8	7.3	6.7	7.0	7.9	7.8	7.9
30	9.0	7.5	8.2	7.8	7.6	7.7	6.6	6.1	6.3	8.0	7.8	7.9
31	---	---	---	7.7	7.5	7.6	7.1	6.2	6.5	---	---	---
MONTH	10.4	7.5	9.0	9.0	6.7	7.8	7.9	6.1	7.2	8.8	6.9	8.1
PERIOD	11.0	6.1	8.7									

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. 25 to Mar. 14, and July 3-10. Records good except for period of ice-effect, Nov. 25 to Mar. 14, and period of no gage-height record, July 3-10, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--67 years (water years 1904-09, 1930 to current year), 934 ft³/s, 32.94 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)
Oct. 21	0645	14,300	9.53	May 14	0600	9,100	8.06
Nov. 17	0200	13,800	9.38	Aug. 11	1000	*17,600	*10.42
Mar. 18	0330	9,600	8.21	Aug. 14	0945	9,100	8.06
May 11	0845	11,900	8.84				

Minimum discharge, 190 ft³/s, Aug. 4, 5, gage height, 2.38 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	306	1400	e560	e480	e600	e700	910	1860	805	706	269	362
2	307	1200	e530	e990	e585	e675	1060	1820	724	618	225	349
3	826	991	e500	e720	e570	e615	1000	1360	668	e540	260	336
4	641	1220	e475	e450	e560	e570	4350	1150	732	e500	275	318
5	480	958	e450	e490	e550	e515	4850	1290	688	e480	194	301
6	430	918	e430	e450	e540	e475	2650	1520	623	e850	248	305
7	455	1190	e405	e420	e530	e450	2020	1270	604	e710	986	299
8	426	1110	e385	e390	e520	e445	1670	1240	567	e610	6060	323
9	375	2100	e370	e370	e510	e435	1440	1140	542	e540	1960	303
10	346	3770	e365	e365	e765	e430	1400	1230	805	e490	1110	300
11	340	2000	e350	e360	e1330	e425	3880	7000	1130	447	12700	311
12	369	1550	e345	e350	e985	e430	3070	2990	1150	408	4920	288
13	351	1280	e330	e310	e750	e520	1970	2300	795	389	2390	272
14	326	1140	e325	e305	e650	e1550	1650	6390	655	366	5660	268
15	311	1130	e315	e300	e605	1840	1720	3110	581	335	2810	317
16	320	2730	e305	e315	e560	3560	1920	2290	528	324	1830	575
17	380	7340	e300	e330	e540	6100	1830	1960	493	308	1440	360
18	806	2600	e290	e410	e510	7520	1780	2560	462	294	1170	301
19	692	1900	e285	e940	e460	3610	1470	1970	440	281	989	280
20	1350	1590	e280	e550	e430	2730	1390	1650	468	277	845	280
21	9450	1490	e275	e450	e385	2520	1450	1760	503	303	749	312
22	2970	1210	e270	e385	e450	2000	1650	1750	558	304	674	301
23	1790	1090	e265	e360	e1100	1870	1720	1530	694	340	614	736
24	1360	940	e260	e350	e1930	1750	1760	1370	1770	540	574	569
25	1130	e845	e255	e340	e1190	1460	1590	1230	939	459	547	396
26	980	e790	e250	e1400	e750	1330	1540	1120	735	423	522	341
27	866	e730	e248	e2700	e735	1110	2240	1030	598	422	481	309
28	780	e680	e245	e1330	e720	1050	2510	955	525	351	447	290
29	719	e640	e242	e985	---	994	2030	879	485	384	460	276
30	671	e600	e240	e680	---	939	1540	1020	793	379	440	306
31	648	---	e235	e620	---	917	---	959	---	322	390	---
TOTAL	31201	47132	10380	18895	19810	49535	60060	59703	21060	13700	52239	10284
MEAN	1006	1571	335	610	707	1598	2002	1926	702	442	1685	343
MAX	9450	7340	560	2700	1930	7520	4850	7000	1770	850	12700	736
MIN	306	600	235	300	385	425	910	879	440	277	194	268
CFSM	2.61	4.08	.87	1.58	1.84	4.15	5.20	5.00	1.82	1.15	4.38	.89
IN.	3.01	4.55	1.00	1.83	1.91	4.79	5.80	5.77	2.03	1.32	5.05	.99

CAL YR 1989 TOTAL 360238 MEAN 987 MAX 16600 MIN 165 CFSM 2.56 IN. 34.81

WTR YR 1990 TOTAL 393999 MEAN 1079 MAX 12700 MIN 194 CFSM 2.80 IN. 38.07

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 September 1990 (discontinued).
Chemical analyses: 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 excellent. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³.

AVERAGE DISCHARGE.--48 years, 685 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, 3,700 ft³/s, Aug. 12, gage height, 7.91 ft; minimum, 140 ft³/s, Aug. 3-7; minimum daily, 140 ft³/s, Aug. 5, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	714	615	361	693	787	1050	561	414	542	259	155
2	385	713	580	361	636	774	1020	500	264	540	256	158
3	351	734	581	371	610	757	1150	503	279	490	203	157
4	291	785	567	381	615	745	1320	665	386	424	141	160
5	292	815	538	476	609	727	1640	911	434	427	140	162
6	207	828	519	520	596	703	1850	1070	435	423	140	166
7	164	951	523	505	590	678	1840	796	435	423	142	173
8	170	989	493	518	583	654	1740	632	435	421	435	177
9	178	1020	478	548	478	604	1610	632	436	420	1230	177
10	182	1390	465	540	413	577	1490	634	440	418	1660	328
11	192	1600	453	531	439	572	1590	842	464	416	2620	398
12	203	1540	442	494	490	574	1910	1040	507	413	3580	389
13	215	1220	430	467	532	590	2010	1150	543	280	3510	384
14	219	1030	417	462	563	673	1900	2160	564	162	3060	343
15	222	986	402	454	582	773	1800	2610	676	163	2650	273
16	364	968	410	447	707	907	1780	2590	743	162	1910	271
17	746	1110	398	440	775	1190	1750	2470	740	162	1280	271
18	855	1200	384	433	735	1740	1700	2080	620	162	788	271
19	846	1190	374	384	702	2280	1610	1870	548	162	700	270
20	925	1130	460	350	683	2430	1350	1770	480	162	552	270
21	1600	1110	491	353	654	2480	1240	1660	442	162	398	201
22	2210	987	462	354	637	2470	1220	1590	517	163	397	145
23	2430	857	438	354	687	2380	1190	1490	551	225	397	147
24	2270	826	417	355	746	2250	1160	1210	546	474	395	152
25	1910	786	400	356	810	2050	906	986	549	386	395	158
26	1650	758	388	427	834	1860	811	942	546	384	393	165
27	1060	733	373	529	817	1570	740	896	539	306	261	171
28	827	721	362	548	805	1330	696	850	536	258	150	175
29	785	700	350	563	---	1240	697	615	369	266	150	177
30	740	658	342	586	---	1160	697	662	419	254	150	192
31	701	---	342	635	---	1100	---	739	---	254	151	---
TOTAL	23574	29049	13894	14103	18021	38625	41467	37126	14857	9904	28493	6636
MEAN	760	968	448	455	644	1246	1382	1198	495	319	919	221
MAX	2430	1600	615	635	834	2480	2010	2610	743	542	3580	398
MIN	164	658	342	350	413	572	696	500	264	162	140	145

CAL YR 1989 TOTAL 248143 MEAN 680 MAX 3320 MIN 154
WTR YR 1990 TOTAL 275749 MEAN 755 MAX 3580 MIN 140

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.--Discharge: July 1916 to current year.

Chemical analyses: Water year 1954.

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. 2 to Mar. 2 and Mar. 5-8. Records good except for periods of ice effect, Dec. 2 to Mar. 2 and Mar. 5-8, 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. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--74 years, 880 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, 3,990 ft³/s, Aug. 13, gage height, 6.54 ft; minimum daily, 184 ft³/s, Aug. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	930	839	e515	e890	e1120	1490	969	958	740	326	201
2	457	921	e815	e675	e820	e1070	1490	816	529	717	316	207
3	546	945	e775	e600	e790	1040	1540	766	494	694	304	206
4	424	1140	e750	e555	e790	1030	2260	800	519	570	228	213
5	377	1100	e700	e665	e785	e990	2460	1090	615	600	184	198
6	365	1070	e655	e680	e765	e950	2500	1470	620	567	189	219
7	246	1120	e650	e640	e760	e925	2470	1320	621	543	213	198
8	231	1250	e615	e630	e750	e875	2320	958	626	529	470	228
9	233	1370	e595	e670	e640	841	2140	915	613	534	1240	207
10	243	1700	e580	e640	e600	790	1990	899	639	526	1710	236
11	263	1990	e565	e640	e860	817	2580	1270	748	512	2500	444
12	300	1900	e550	e610	e800	889	2780	1490	812	505	3580	428
13	291	1680	e535	e565	e770	992	2680	1540	762	496	3920	433
14	287	1330	e520	e535	e770	1150	2550	2370	750	271	3530	417
15	287	1260	e500	e540	e775	1280	2490	3120	760	234	3050	372
16	307	1240	e500	e550	e885	1480	2540	3000	922	230	2500	360
17	663	1430	e495	e560	e945	1870	2410	2960	889	226	1780	331
18	1120	1510	e475	e565	e895	2710	2340	2870	862	219	1090	324
19	1060	1490	e465	e680	e850	3080	2170	2450	709	222	845	312
20	1140	1430	e550	e525	e820	3300	1970	2260	793	213	797	311
21	1870	1460	e580	e495	e775	3620	1750	2150	691	226	530	321
22	2530	1370	e550	e475	e780	3430	1760	2110	692	211	482	198
23	2610	1130	e520	e470	e1040	3230	1680	1960	771	276	473	210
24	2660	1060	e500	e465	e1240	3000	1600	1770	826	634	473	197
25	2310	1020	e480	e465	e1210	2730	1450	1360	779	610	473	208
26	2000	978	e465	e870	e1200	2490	1170	1270	741	535	471	199
27	1590	949	e450	e1380	e1150	2210	1130	1200	709	493	455	204
28	1040	924	e440	e970	e1140	1810	1010	1130	688	354	251	215
29	976	925	e430	e875	---	1680	989	1000	651	360	214	215
30	919	862	e420	e800	---	1590	982	1070	549	335	206	233
31	874	---	e415	e830	---	1530	---	1210	---	329	210	---
TOTAL	28669	37484	17379	20135	24495	54519	58691	49563	21338	13511	33010	8045
MEAN	925	1249	561	650	875	1759	1956	1599	711	436	1065	268
MAX	2660	1990	839	1380	1240	3620	2780	3120	958	740	3920	444
MIN	231	862	415	465	600	790	982	766	494	211	184	197

CAL YR 1989 TOTAL 334057 MEAN 915 MAX 4550 MIN 188

WTR YR 1990 TOTAL 366839 MEAN 1005 MAX 3920 MIN 184

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: Nov. 30 to Mar. 19. Records good except for period of ice effect, Nov. 30 to Mar. 19, which is 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. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--74 years, 2,702 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, 10,200 ft³/s, Mar. 21, gage height, 8.39 ft.; minimum daily 546 ft³/s, Aug. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	2700	e2460	e1400	e2300	e2900	4400	3900	3170	2080	848	1060
2	1120	2680	e2170	e1380	e2200	e2800	4220	3690	2640	2070	877	1410
3	1590	2820	e2050	e1350	e2100	e2700	4170	3560	2230	1940	848	1080
4	1240	3170	e1850	e1320	e2200	e2600	5250	3490	2270	1760	671	952
5	1290	3120	e1700	e1300	e2180	e2550	5700	3630	2240	1900	650	840
6	1180	3070	e1550	e1400	e2150	e2500	6130	3930	2110	1760	546	945
7	1090	3080	e1500	e1360	e2100	e2500	6720	3740	2070	1800	685	921
8	1060	3190	e1550	e1350	e2050	e2400	7060	3370	2060	1720	1230	949
9	1180	3420	e1650	e1400	e2030	e2350	6970	3280	1990	1710	3330	920
10	1050	4000	e1800	e1380	e2000	e2300	6610	3220	2020	1700	3860	1310
11	1060	4680	e2100	e1300	e2200	e2250	7330	3700	2140	1560	4590	1150
12	1150	4930	e2350	e1250	e2250	e2350	7400	4320	2360	1420	6510	1070
13	1130	4840	e1900	e1200	e2260	e2550	7340	4870	2380	1420	7850	1080
14	1050	4410	e1650	e1160	e2300	e2800	7310	6360	2350	1150	8590	1040
15	920	4190	e1450	e1200	e2200	e3250	7230	7450	2300	957	8440	989
16	940	4050	e1330	e1120	e2300	e3860	7120	7770	2290	1090	8060	1030
17	1260	4170	e1360	e1110	e2400	e4590	6700	8120	2240	925	7270	1030
18	1780	4550	e1400	e1100	e2300	e5760	6490	8190	2030	909	6110	1060
19	1820	4990	e1330	e1300	e2250	e7130	6100	7470	1900	885	5220	1010
20	2030	5300	e1350	e1200	e2000	8840	5700	6930	1910	788	4510	1000
21	3120	5350	e1400	e1100	e2100	10100	5340	6510	1890	789	3760	930
22	4880	5020	e1350	e1140	e2050	9980	5210	6210	1820	773	3270	805
23	5320	4490	e1280	e1150	e2500	9670	4890	5820	1890	845	2930	807
24	5530	4060	e1200	e1150	e2900	9090	4710	5440	1940	1300	2720	649
25	5290	3720	e1180	e1170	e2950	8290	4530	4720	2060	1370	2420	662
26	4910	3430	e1150	e1300	e3000	7480	4160	4360	2150	1330	2110	846
27	4300	3200	e1140	e1530	e3100	6620	3990	4030	2120	1250	2250	955
28	3510	3050	e1130	e1900	e3000	5790	3810	3770	2070	1100	1720	914
29	3200	2910	e1120	e2200	---	5360	3810	3400	2010	1070	1440	913
30	2950	e2600	e1110	e2210	---	4900	3870	3490	1920	1030	1430	850
31	2720	---	e1100	e2220	---	4670	---	3540	---	947	1430	---
TOTAL	70820	115190	47660	42650	65370	150930	170270	152280	64570	41348	106175	29177
MEAN	2285	3840	1537	1376	2335	4869	5676	4912	2152	1334	3425	973
MAX	5530	5350	2460	2220	3100	10100	7400	8190	3170	2080	8590	1410
MIN	920	2600	1100	1100	2000	2250	3810	3220	1820	773	546	649

CAL YR 1989 TOTAL 993954 MEAN 2723 MAX 17900 MIN 499
WTR YR 1990 TOTAL 1056440 MEAN 2894 MAX 10100 MIN 546

e Estimated

SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME--Continued

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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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
03...	0900	1850	41	6.8	18.0	14.0	0.5	740	10.0	100	28	26
DEC												
19...	1415	E 1330	45	6.4	-1.0	0.0	1.4	760	13.8	95	K 17	K 2
FEB												
05...	1430	E 2180	44	6.4	-4.0	0.0	1.0	750	14.3	99	K 8	K 5
APR												
05...	1015	5620	33	6.3	7.5	4.0	1.4	740	12.9	101	K 10	K 12
JUN												
05...	1200	2220	38	6.6	17.0	18.5	1.0	750	8.7	94	24	K 6
AUG												
07...	1300	694	45	6.8	21.0	24.0	0.6	760	7.8	93	>60	85

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY LAB AS CACO3 (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT												
03...	9	2.8	0.44	3.7	0.6	6	0	5	7	7.0	4.0	4.4
DEC												
19...	10	3.0	0.51	4.0	0.5	6	0	5	6	6.0	4.0	4.9
FEB												
05...	9	2.9	0.54	4.3	1.0	6	0	5	6	6.0	4.0	5.2
APR												
05...	7	2.3	0.36	3.2	0.4	3	0	3	4	5.0	3.5	4.1
JUN												
05...	8	2.6	0.42	3.5	0.5	5	0	5	6	6.0	3.3	5.0
AUG												
07...	10	3.2	0.54	4.4	0.7	8	0	7	8	8.4	3.0	6.8

E Estimated daily discharge.

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

SACO RIVER BASIN

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01066000 SACO RIVER AT CORNISH, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 03...	0.3	6.6	4	26	<0.10	<0.01	--	<0.2	<0.01	<0.01	<0.01
DEC 19...	0.3	8.1	38	29	0.14	0.01	0.01	<0.2	<0.01	<0.01	<0.01
FEB 05...	0.2	8.1	37	30	0.15	0.02	0.03	<0.2	0.01	<0.01	<0.01
APR 05...	0.1	6.0	31	22	0.10	<0.01	--	0.2	0.02	<0.01	<0.01
JUN 05...	0.1	5.7	17	24	0.10	<0.01	--	0.3	0.01	<0.01	<0.01
AUG 07...	<0.1	5.7	32	29	0.10	0.01	0.01	0.2	<0.01	<0.01	<0.01

DATE	ALUM- INIUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 03...	50	<1	3	<0.5	<1	<1	<3	2	100	1	<4	10
DEC 19...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	70	<1	4	<0.5	1	<5	<3	<10	93	<10	<4	11
APR 05...	90	<1	4	<0.5	<1	<5	<3	<10	86	<10	<4	18
JUN 05...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	30	<1	5	<0.5	<1	<1	<3	1	190	1	<4	12

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. Z FINER THAN .062 MM (70331)
OCT 03...	<0.1	<10	<1	<1	<1	20	<6	7	7	35	14
DEC 19...	--	--	--	--	--	--	--	--	4	14	67
FEB 05...	0.2	<10	<10	<1	<1	23	<6	8	9	53	76
APR 05...	<0.1	<10	<10	<1	<1	17	<6	15	10	152	59
JUN 05...	--	--	--	--	--	--	--	--	18	108	29
AUG 07...	<0.1	<10	1	<1	<1	24	<6	4	4	7.5	5

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 good. Flow regulated by Great East and Lovell Lakes, and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--22 years, 193 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, 541 ft³/s, Mar. 19, 22, gage height, 4.17 ft; minimum daily, 36 ft³/s, Sept. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	214	221	88	172	215	222	176	339	182	48	38
2	155	213	218	88	172	215	222	225	255	183	48	37
3	196	213	218	88	172	213	224	228	221	149	43	37
4	197	216	192	88	172	211	382	207	203	124	38	36
5	159	219	172	90	245	211	492	205	179	110	38	36
6	134	234	171	90	295	211	347	208	129	99	39	37
7	113	243	169	90	210	209	302	211	123	99	39	37
8	98	240	167	90	140	203	311	219	123	98	288	37
9	158	299	167	90	140	199	295	212	121	80	457	37
10	190	352	167	90	141	197	281	204	124	55	272	37
11	177	352	124	90	143	197	358	304	170	54	57	154
12	171	349	90	90	149	197	443	366	204	54	58	202
13	196	277	90	88	154	200	417	370	204	54	106	221
14	219	218	90	88	178	208	361	481	179	54	187	241
15	217	218	90	88	211	276	360	491	153	54	213	225
16	217	219	90	108	211	341	421	441	134	55	210	225
17	214	222	90	132	209	343	412	403	115	55	151	225
18	212	225	90	132	208	377	359	401	77	55	90	225
19	211	229	90	132	205	505	309	420	61	55	90	225
20	212	229	89	132	201	503	251	396	82	52	90	225
21	218	234	88	132	197	511	218	376	106	45	91	225
22	272	231	88	132	197	515	224	372	241	46	89	225
23	293	229	88	131	183	446	234	341	322	46	88	225
24	270	226	88	130	176	400	230	321	311	47	66	225
25	242	225	88	130	178	378	223	302	299	47	50	178
26	223	222	88	176	197	366	169	281	199	47	49	99
27	218	222	88	215	212	353	128	260	127	47	49	50
28	218	222	88	215	215	303	133	157	128	47	48	75
29	218	222	88	192	---	222	142	130	159	47	49	110
30	217	222	88	172	---	222	155	237	180	47	50	110
31	215	---	88	172	---	222	---	380	---	48	43	---
TOTAL	6198	7236	3763	3769	5283	9169	8625	9325	5268	2235	3234	4059
MEAN	200	241	121	122	189	296	287	301	176	72.1	104	135
MAX	293	352	221	215	295	515	492	491	339	183	457	241
MIN	98	213	88	88	140	197	128	130	61	45	38	36

CAL YR 1989 TOTAL 59879 MEAN 164 MAX 1040 MIN 33
WTR YR 1990 TOTAL 68164 MEAN 187 MAX 515 MIN 36

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously water years)	Measurements	
					Date	Discharge (ft ³ /s)
KENNEBEC RIVER BASIN						
Moose River	Moosehead Lake	Lat 45°39'50", long 69°48'41", Somerset County, 3,000 ft below dam at outlet of Barssua Lake near Rockwood	716	1979 1980 1985	08-29-90	594 980 1360 1760
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	10-10-89 08-17-90	9.75 9.50 42.5
ANDROSCOGGIN RIVER BASIN						
Kennebago River	Mooselookmaguntic Lake	Lat 45°06'00", long 70°46'42", Franklin County about 300 ft downstream from dam at outlet of Kennebago Lake		1987	09-06-90	38.7 40.8 117 279

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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)											
JAN 1990						JUL					
08...	1445	784	0.0	0.0	80	09...	1400	750	20.0	21.0	46
MAY											
01...	1345	14900	8.0	14.0	24						
01010070 BIG BLACK RIVER NEAR DEPOT MTN, ME (LAT 46 53 38N LONG 069 45 08W)											
JAN 1990						AUG					
09...	0800	115	0.0	-10.0	106	15...	1530	722	20.0	24.0	57
JUL											
10...	0750	50	17.5	16.0	77						
01010500 ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44N LONG 069 05 25W)											
NOV 1989						MAY					
15...	1000	4540	1.0	0.0	41	09...	1115	8050	8.0	19.0	42
JAN 1990						JUL					
17...	1020	880	0.0	-8.0	82	17...	1430	637	24.0	28.0	67
MAR						SEP					
13...	1010	765	0.0	5.0	98	18...	0900	1580	10.0	5.0	73
01011000 ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14N LONG 069 04 51W)											
JAN 1990						JUL					
17...	1240	451	0.0	-2.0	73	18...	0800	623	21.0	24.0	56
MAR						SEP					
13...	1215	498	--	6.5	71	18...	1140	766	12.0	12.0	55
MAY											
09...	1345	3890	9.0	21.0	38						
01013500 FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14N LONG 068 34 56W)											
NOV 1989						MAY					
14...	1320	682	4.0	-1.0	40	09...	1630	4860	7.0	22.0	60
JAN 1990						JUL					
17...	1600	355	0.0	-5.0	85	18...	1110	441	22.0	24.0	66
MAR						SEP					
12...	1745	417	0.0	5.0	60	17...	1700	194	15.0	13.0	71
01014000 ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27N LONG 068 35 35W)											
NOV 1989						MAY					
16...	0840	7100	3.0	0.0	60	09...	1930	20600	8.0	19.0	60
JAN 1990						JUL					
17...	1445	2070	0.0	-3.0	95	18...	1355	2000	24.0	26.0	139
MAR						SEP					
13...	1550	2100	--	--	106	19...	0850	2650	12.0	12.0	82
01015800 AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21N LONG 068 22 23W)											
NOV 1989						MAY					
13...	1410	2100	2.0	3.0	33	08...	1130	3380	9.0	14.0	38
JAN 1990						JUL					
16...	1030	383	0.0	0.0	79	16...	1245	329	24.0	32.0	62
MAR											
12...	1340	452	0.0	2.0	57						

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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)											
JAN 1990						MAY					
16...	1500	700	0.0	-1.0	70	08...	1530	5590	10.0	19.0	64
MAR						JUN					
14...	1140	1060	0.0	5.0	80	15...	0840	1560	20.0	18.0	52
APR						JUL					
19...	1300	8780	5.0	4.0	43	16...	1415	522	26.0	31.0	67
ST. CROIX RIVER BASIN											
01018500 ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08N LONG 067 25 47W)											
OCT 1989						JUN					
24...	1300	329	8.0	8.0	33	12...	0930	455	19.0	22.0	29
MAY 1990											
01...	1100	1350	8.0	15.0	26						
01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23N LONG 067 46 06W)											
JAN 1990						SEP					
04...	1130	144	0.0	4.0	25	11...	1340	1260	20.0	20.0	28
JUN											
12...	1130	256	19.0	26.0	26						
22...	1055	456	18.0	20.0	25						
DENNY'S RIVER BASIN											
01021200 DENNY'S RIVER AT DENNYSVILLE, ME (LAT 44 54 03N LONG 067 14 56W)											
JAN 1990						JUN					
03...	1405	99	0.0	2.0	25	21...	1605	154	21.0	26.0	34
FEB						SEP					
27...	0900	193	0.0	-4.0	14	11...	0910	62	17.0	15.0	38
APR											
30...	1540	238	12.0	18.0	32						
PLEASANT RIVER BASIN											
01022260 PLEASANT RIVER NEAR EPPING, ME (SW SITE 13) (LAT 44 41 52N LONG 067 47 16W)											
JAN 1990						SEP					
03...	1010	95	0.0	4.0	33	10...	1825	33	17.0	22.0	30
JUN											
21...	1245	80	18.0	24.0	27						

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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)											
JAN 1990						JUN					
02...	1450	402	0.0	-3.0	34	21...	1030	249	19.0	22.0	29
APR						SEP					
30...	1200	486	11.0	14.0	26	10...	1410	136	17.0	20.0	27
PENOBSCOT RIVER BASIN											
01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18N LONG 068 18 07W)											
JAN 1990						FEB					
10...	1315	1000	0.0	3.5	60	26...	1415	1710	0.0	-10.5	--
01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31N LONG 069 18 55W)											
JAN 1990						JUL					
11...	1240	171	0.0	-1.0	44	17...	1135	84	24.0	28.0	52
FEB						SEP					
27...	1130	324	0.0	-12.0	--	18...	0910	67	13.0	8.5	61
01033000 SEBEC RIVER AT SEBEC, ME (LAT 45 16 12N LONG 069 06 44W)											
MAY 1990						JUL					
09...	1000	502	10.0	14.0	25	17...	0815	63	24.0	23.0	26
01034000 PISCATAQUIS RIVER AT MEDFORD, ME (LAT 45 15 40N LONG 068 52 07W)											
JAN 1990						SEP					
11...	1030	767	0.0	-2.0	48	17...	1430	896	19.0	13.5	34
FEB											
27...	0930	1770	0.0	-15.0	--						
01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12N LONG 068 38 56W)											
JAN 1990						MAY					
10...	1130	6170	0.0	3.0	47	08...	0855	14100	10.0	9.5	46
FEB						JUL					
26...	1100	8600	0.0	-10.0	--	19...	1200	5900	24.5	28.0	58
SHEEPSCOT RIVER BASIN											
01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23N LONG 069 35 38W)											
MAR 1990						SEP					
16...	1430	411	1.5	16.0	51	26...	1015	46	15.0	19.0	63
JUL											
03...	0900	195	21.0	22.0	45						

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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)
KENNEBEC RIVER BASIN											
01042500 KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25N LONG 069 57 48W)											
MAY 1990											
16...	1035	5930	9.5	16.0	25						
01046500 KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06N LONG 069 53 12W)											
MAY 1990											
16...	1150	9800	10.5	17.0	28						
01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09N LONG 069 57 20W)											
JAN 1990						APR					
23...	1150	257	0.0	-7.0	--	30...	1135	1220	10.0	17.5	26
FEB						JUL					
28...	0930	434	0.0	-9.0	50	11...	1055	218	20.0	18.5	40
01048000 SANDY RIVER NEAR MERCER, ME (LAT 44 42 26N LONG 069 56 21W)											
OCT 1989						APR					
30...	0915	411	10.0	12.0	51	30...	1035	1550	12.0	17.0	34
JAN 1990						JUL					
02...	1230	356	0.0	-1.0	65	11...	0810	323	20.0	17.0	58
MAR											
05...	0830	742	0.0	-10.0	60						
01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00N LONG 069 24 56W)											
JAN 1990						JUL					
09...	0930	357	0.0	-3.0	146	06...	1045	917	23.0	22.0	83
MAY						SEP					
15...	1200	2100	14.0	19.0	76	24...	0850	867	16.0	10.0	127
01049130 JOHNSON BROOK AT SOUTH ALBION, ME (LAT 44 29 53N LONG 069 29 12W)											
MAR 1990						JUL					
15...	1230	10	1.0	9.0	104	03...	1430	1.2	24.0	27.0	116
MAY						SEP					
15...	1315	21	15.5	21.0	89	24...	1110	0.65	13.0	14.0	145
01049373 MILL STREAM AT WINTHROP, ME (LAT 44 18 24N LONG 069 58 18W)											
MAY 1990						SEP					
14...	0930	135	10.5	15.0	71	25...	0905	12	15.5	11.5	74
JUL											
02...	0900	35	23.0	21.0	71						
01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15N LONG 069 47 25W)											
MAR 1990						JUL					
14...	1350	346	2.0	11.5	72	02...	1515	230	22.5	22.5	81
MAY						SEP					
17...	0730	605	15.0	16.0	74	25...	1105	186	16.0	15.5	82

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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)
KENNEBEC RIVER BASIN--Continued											
01049550 TOGUS STREAM AT TOGUS, ME (LAT 44 15 57N LONG 069 41 55W)											
MAR 1990						JUL					
15...	0830	70	2.0	8.0	63	03...	1245	24	22.5	24.5	52
MAY						SEP					
14...	1400	114	15.0	23.0	52	26...	0905	4.9	13.5	--	90
ANDROSCOGGIN RIVER BASIN											
01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40N LONG 071 03 25W)											
JAN 1990						JUL					
03...	0800	123	0.0	-2.0	38	13...	0910	113	15.0	14.0	34
MAR						SEP					
05...	1330	186	0.0	-5.5	42	12...	0915	56	15.0	14.5	41
MAY											
04...	1005	381	7.0	9.5	26						
01053500 ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57N LONG 071 07 46W)											
MAY 1990						JUL					
04...	0730	2450	9.5	8.0	27	13...	1150	1650	19.0	20.0	25
01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33N LONG 070 32 50W)											
MAY 1990											
03...	0900	4750	12.0	11.0	61						
01055000 SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32N LONG 070 35 17W)											
NOV 1989						APR					
07...	1220	407	5.5	8.5	20	11...	1305	1230	2.0	8.0	--
JAN 1990						MAY					
03...	1330	103	0.0	2.0	27	03...	1200	250	8.0	16.0	19
MAR						JUL					
06...	1115	78	0.0	-10.0	27	18...	0830	36	20.5	24.0	27
01055500 NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10N LONG 070 13 49W)											
JAN 1990						JUN					
18...	0900	94	0.0	6.0	78	19...	1400	98	23.0	30.0	64
APR						SEP					
11...	1205	827	5.0	12.0	50	06...	1400	22	21.5	25.0	94
01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08N LONG 070 32 16W)											
OCT 1989						APR					
11...	1000	28	7.0	4.5	56	11...	1545	599	6.0	6.0	34
DEC						JUN					
15...	1115	44	0.0	-10.0	55	19...	0915	38	21.0	22.0	59
28...	1230	35	0.0	-10.0	55	SEP					
JAN 1990						05...	1030	6.6	17.0	17.0	75
17...	1155	36	0.0	4.0	58						

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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)
ROYAL RIVER BASIN											
		01060000	ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57N LONG 070 10 45W)								
JAN 1990						JUN					
18...	1300	78	1.0	15.0	130	20...	1515	116	20.0	18.0	98
APR						SEP					
05...	1400	2120	3.0	8.0	48	05...	1500	34	20.0	21.0	132
SACO RIVER BASIN											
		01064500	SACO RIVER NEAR CONWAY, NH (LAT 43 59 27N LONG 071 05 29W)								
OCT 1989						APR					
18...	1130	983	8.0	5.0	41	05...	1315	4920	2.0	5.0	28
JAN 1990											
16...	1230	314	0.0	5.0	50						
		01065500	OSSIPPEE RIVER AT CORNISH, ME (LAT 43 48 26N LONG 070 47 55W)								
JAN 1990						SEP					
17...	1500	557	0.0	6.0	48	07...	1215	187	21.0	22.0	41
AUG											
03...	1430	262	26.5	30.0	44						
PISCATAQUA RIVER BASIN											
		01072100	SALMON FALLS RIVER AT MILTON, NH (LAT 43 24 50 N LONG 070 59 15W)								
DEC 1989						JUL					
08...	0945	173	3.0	---	45	10...	0700	58	24.0	---	72
JAN 1990						SEP					
25...	1050	111	2.0	---	---	11...	0905	210	27.0	---	87

GROUND-WATER LEVELS

145

AROOSTOOK COUNTY

464807068284401. Local number, ARW 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 twice a month.

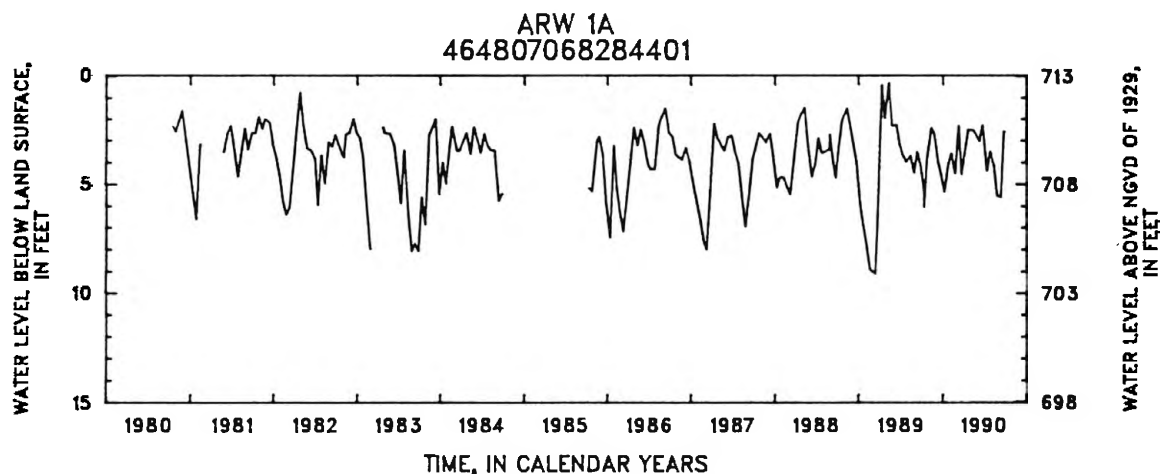
DATUM.--Elevation of land-surface datum is 713 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of 1.5 in. pipe coupling, at land-surface datum.

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 measured, 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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 11	5.23	Dec 12	4.02	Feb 09	3.60	Apr 24	2.50	Jun 12	3.05	Aug 13	4.15
12	6.10	25	4.60	25	4.55	May 15	2.52	26	2.30	28	5.58
24	3.90	Jan 09	5.40	Mar 13	2.32			Jul 14	4.43	Sep 13	5.62
Nov 13	2.43	26	4.10	25	4.59			28	3.51	26	2.60
25	2.68										



GROUND-WATER LEVELS

AROSTOOK COUNTY--Continued

471457068353001. Local number, ARW 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 of 1929, from topographic map. Measuring point: Floor of recorder shelter at land-surface datum, which is 3.0 ft above the general land surface.

REMARKS.--Record lost between December 23 and January 17, doubtful gage-height record.

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

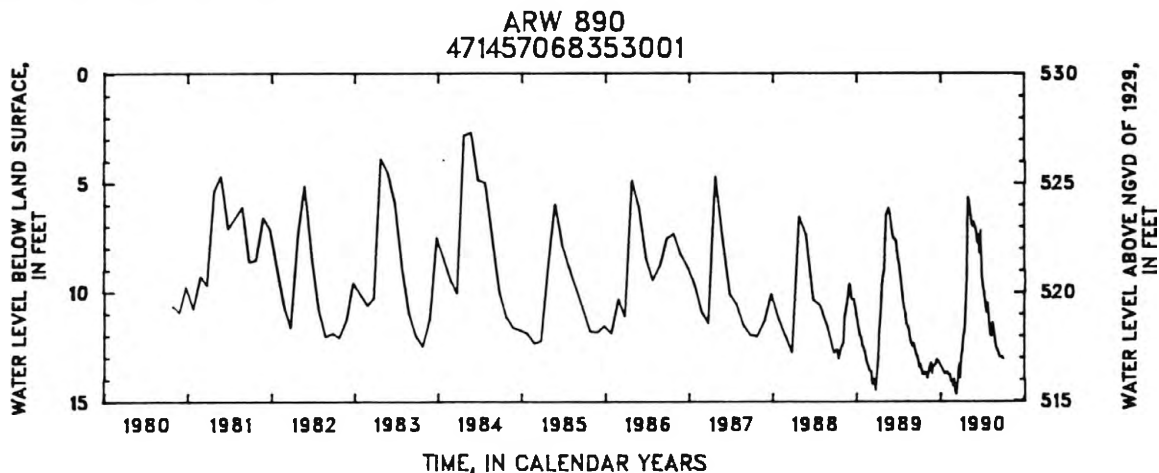
REVISED RECORDS.--WDR ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.52 ft below land-surface datum, May 02, 1984; lowest measured, 15.28 ft below land-surface datum, Jan. 22 and 23, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.53	13.58	13.54	---	13.69	14.00	13.02	5.49	7.14	9.38	11.50	12.63
2	13.37	13.70	13.63	---	13.80	14.11	13.02	5.51	7.42	9.47	11.62	12.60
3	13.25	13.67	13.46	---	13.96	14.50	13.05	5.63	7.35	9.51	11.86	12.66
4	13.25	13.74	13.34	---	13.85	14.56	12.86	5.75	7.19	9.52	12.07	12.68
5	13.33	13.98	13.38	---	13.81	14.58	12.68	5.81	7.26	9.71	12.00	12.64
6	13.40	13.80	13.32	---	13.77	14.54	12.76	5.83	7.36	9.95	11.94	12.67
7	13.46	13.74	13.34	---	13.84	14.50	12.79	5.98	7.37	10.05	11.87	12.64
8	13.64	13.74	13.31	---	13.91	14.48	12.63	6.16	7.59	10.16	11.87	12.82
9	13.57	13.66	13.29	---	13.83	14.58	12.35	6.24	7.75	10.03	11.92	12.86
10	13.64	13.69	13.29	---	13.80	14.70	12.04	6.36	7.78	10.07	12.05	12.78
11	13.62	13.77	13.28	---	13.91	14.59	11.82	6.39	7.83	10.21	12.01	12.82
12	13.61	13.74	13.24	---	14.09	14.48	11.81	6.77	7.97	10.33	11.95	12.85
13	13.67	13.77	13.19	---	14.03	14.31	12.14	6.81	7.99	10.56	11.98	12.88
14	13.76	13.67	13.13	---	14.03	14.39	12.34	6.81	8.08	10.73	11.80	12.92
15	13.82	13.49	13.09	---	14.12	14.23	11.84	6.86	8.19	10.72	11.49	12.94
16	13.60	13.43	13.02	---	14.01	14.25	11.56	6.87	8.32	10.69	11.27	12.95
17	13.66	13.67	13.05	---	14.04	14.12	11.33	6.94	8.33	10.76	11.41	13.02
18	13.77	13.59	13.12	13.64	14.15	13.96	11.23	6.93	8.23	10.86	11.54	12.99
19	13.78	13.40	13.21	13.84	14.07	13.90	11.12	7.00	8.26	10.87	11.66	13.00
20	13.81	13.25	13.19	13.96	14.07	13.51	10.76	7.04	8.25	10.97	11.72	13.01
21	13.69	13.23	13.13	13.95	14.01	13.05	10.38	6.97	8.18	11.17	11.72	13.22
22	13.77	13.44	13.19	13.82	14.06	13.06	9.96	6.88	8.28	11.21	11.79	13.27
23	13.72	13.68	---	13.77	14.02	12.91	9.24	6.80	8.45	11.09	11.91	13.10
24	13.69	13.73	---	13.75	14.21	13.22	8.62	6.74	8.44	11.03	12.10	13.05
25	13.69	13.78	---	13.69	14.33	13.28	7.95	6.83	8.60	11.08	12.26	12.98
26	13.75	13.61	---	13.59	14.25	12.99	7.51	6.92	8.69	11.23	12.36	13.01
27	13.81	13.56	---	13.94	14.10	12.96	7.20	6.92	8.74	11.38	12.32	13.04
28	14.03	13.38	---	14.08	13.98	12.92	6.72	6.88	8.84	11.44	12.30	13.20
29	13.95	13.41	---	14.00	---	13.09	6.08	6.93	9.07	11.40	12.30	13.16
30	13.81	13.42	---	13.74	---	13.16	5.66	6.88	9.33	11.36	12.42	13.08
31	13.71	---	---	13.70	---	13.00	---	7.00	---	11.43	12.60	---
LOW	14.03	13.98	13.63	14.08	14.33	14.70	13.05	7.04	9.33	11.44	12.60	13.27
HIGH	13.25	13.23	13.02	13.59	13.69	12.91	5.66	5.49	7.14	9.38	11.27	12.60

WTR YR 1990 HIGH 5.49 LOW 14.70



GROUND-WATER LEVELS

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AROOSTOOK COUNTY--Continued

463642069344601. Local number, ARW 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 of 1929, from topographic map. Measuring point: Electric tape gage index, at land-surface datum, which is 2.8 ft above the general land surface.

REMARKS.--Record lost between January 08 and March 22, doubtful gage-height record.

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

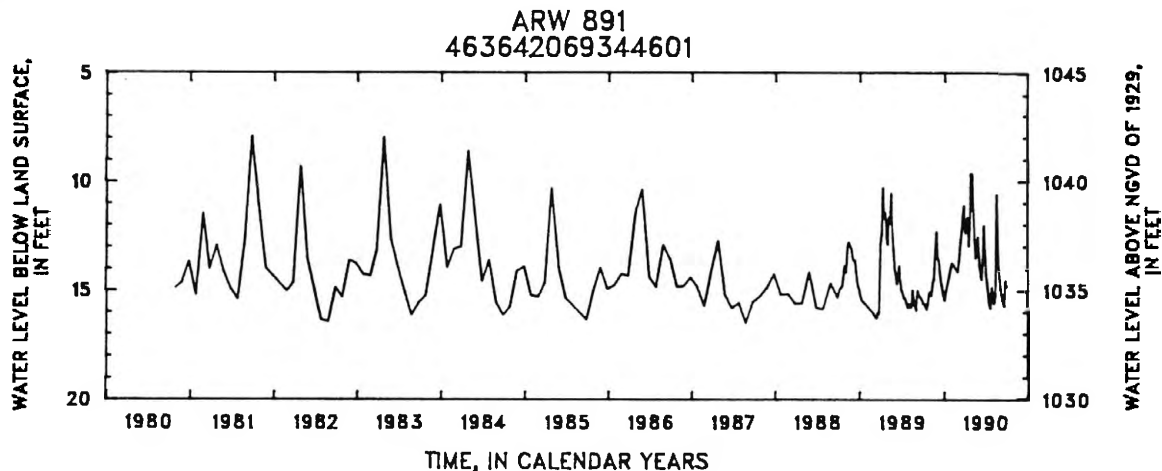
REVISED RECORDS.--WDR ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.96 ft below land-surface datum, Apr. 26, 1983; lowest measured, 16.97 ft below land-surface datum, Sept. 07, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.71	15.27	13.30	15.36	---	---	12.55	9.84	14.03	14.37	15.52	14.51
2	15.71	15.11	13.46	15.19	---	---	12.69	10.08	14.19	14.45	15.59	14.62
3	15.62	15.16	13.44	15.19	---	---	12.81	10.44	14.27	14.59	15.66	14.79
4	15.59	15.20	13.51	15.19	---	---	12.84	10.89	14.15	14.67	15.64	14.91
5	15.63	15.26	13.65	15.12	---	---	11.88	11.36	14.15	14.69	15.64	14.96
6	15.69	15.24	13.75	15.04	---	---	10.37	11.71	14.30	14.82	15.67	15.09
7	15.66	15.20	13.84	15.05	---	---	10.21	12.05	14.36	14.94	15.66	15.12
8	15.66	15.17	14.08	---	---	---	10.67	12.37	14.46	15.06	15.40	15.17
9	15.69	15.04	14.20	---	---	---	11.32	12.65	14.53	15.12	15.15	15.19
10	15.79	14.64	14.27	---	---	---	11.64	12.90	14.56	15.25	15.28	15.29
11	15.81	14.46	14.33	---	---	---	11.90	12.86	13.39	15.32	15.31	15.38
12	15.82	14.54	14.42	---	---	---	12.26	12.82	12.90	15.41	15.01	15.40
13	15.83	14.61	14.50	---	---	---	12.59	13.05	13.34	15.51	14.83	15.47
14	15.88	14.62	14.56	---	---	---	12.84	13.32	13.63	15.57	10.90	15.49
15	15.91	14.52	14.66	---	---	---	12.99	13.58	13.86	15.66	10.59	15.49
16	15.88	13.91	14.69	---	---	---	12.96	13.65	13.99	15.73	11.42	15.55
17	15.74	12.78	14.72	---	---	---	12.55	13.75	14.12	15.79	12.08	15.60
18	15.63	12.64	14.78	---	---	---	12.40	13.48	13.88	15.81	12.53	15.67
19	15.65	13.02	14.87	---	---	---	12.65	13.04	12.00	15.85	12.57	15.74
20	15.64	13.23	14.94	---	---	---	12.19	12.73	12.04	15.85	12.80	15.76
21	15.41	13.42	15.03	---	---	---	11.41	12.84	12.50	15.89	13.19	15.78
22	15.06	13.01	15.14	---	---	---	10.61	12.79	12.79	15.96	13.51	15.75
23	15.09	12.57	15.16	---	---	10.83	9.88	12.17	13.07	15.87	13.76	15.25
24	15.15	12.48	15.22	---	---	10.88	9.62	12.20	13.19	15.00	13.93	14.25
25	15.19	12.32	15.24	---	---	11.10	9.61	12.57	13.18	14.86	14.07	14.54
26	15.24	12.54	15.28	---	---	11.23	9.74	12.85	13.36	15.08	14.23	14.80
27	15.28	12.90	15.38	---	---	11.45	9.75	13.09	13.53	15.17	14.30	14.85
28	15.32	12.98	15.39	---	---	11.76	9.29	13.34	13.79	15.16	14.32	14.90
29	15.33	13.04	15.49	---	---	11.93	9.38	13.48	14.02	15.28	14.24	14.94
30	15.34	13.20	15.53	---	---	12.23	9.66	13.64	14.20	15.36	14.24	14.80
31	15.36	---	15.50	---	---	12.41	---	13.85	---	15.44	14.41	---
LOW	15.91	15.27	15.53	15.36	---	12.41	12.99	13.85	14.56	15.96	15.67	15.78
HIGH	15.06	12.32	13.30	15.04	---	10.83	9.29	9.84	12.00	14.37	10.59	14.25

WTR YR 1990 HIGH 9.29 LOW 15.96



GROUND-WATER LEVELS

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-bored observation well, diameter 2 in., October 1986. Measured depth 20 ft, screened depth 15 to 20 ft.

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

DATUM.--Elevation of land-surface datum is 409 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.94 ft above land-surface datum.

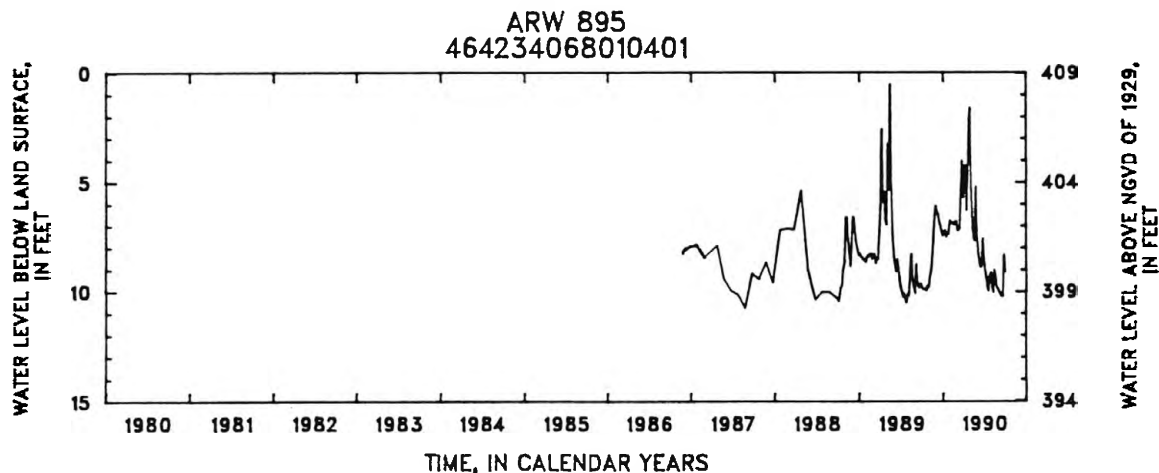
PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.17 ft below land-surface datum, May 16, 1989; lowest measured, 10.96 ft below land-surface datum, Sept. 08-09, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.89	9.85	6.24	7.53	6.71	6.88	5.97	2.53	7.75	8.71	9.35	9.89
2	9.91	9.71	6.39	7.51	6.70	6.81	6.09	3.35	8.01	8.85	9.51	9.90
3	9.92	9.49	6.39	7.46	6.66	6.80	6.14	3.96	8.19	8.90	9.64	9.95
4	9.92	9.37	6.47	7.33	6.77	7.14	5.68	4.59	8.34	8.95	9.75	10.01
5	9.92	9.32	6.47	7.30	6.85	7.25	4.39	5.33	8.29	9.08	9.85	10.06
6	9.92	9.32	6.30	7.25	6.81	7.14	3.17	5.94	8.35	9.17	9.92	10.10
7	9.92	9.33	6.29	7.36	6.83	7.09	2.63	6.22	8.45	9.24	9.98	10.12
8	9.92	9.34	6.33	7.42	6.88	7.12	3.42	6.46	8.56	9.33	10.02	10.12
9	9.92	9.33	6.40	7.40	6.92	7.17	3.74	6.79	8.59	9.40	10.04	10.12
10	9.92	9.08	6.43	7.24	6.91	7.20	4.22	7.09	8.74	9.38	10.06	10.12
11	9.92	8.49	6.53	7.29	7.01	7.37	4.91	7.26	8.82	9.48	10.06	10.12
12	9.91	8.30	6.60	7.31	7.07	7.45	5.57	7.29	8.81	9.56	9.98	10.14
13	9.90	8.32	6.69	7.33	6.93	7.31	5.84	7.27	8.66	9.64	9.59	10.18
14	9.92	8.40	6.79	7.46	6.90	7.20	6.19	7.41	8.80	9.73	9.29	10.22
15	9.93	8.50	6.81	7.55	6.86	7.13	6.33	7.63	8.92	9.80	9.03	10.24
16	9.95	8.41	6.74	7.48	6.84	7.01	6.01	7.82	9.05	9.87	8.86	10.25
17	9.96	7.99	6.77	7.44	6.84	6.77	5.27	7.98	9.12	9.82	8.87	10.25
18	9.96	7.51	6.96	7.40	6.99	6.51	4.85	8.06	9.19	9.82	8.96	10.25
19	9.97	7.37	7.06	7.39	7.05	6.02	4.85	7.87	9.16	9.94	9.25	10.25
20	9.98	7.54	7.01	7.34	6.98	5.41	4.91	7.71	8.85	10.01	9.39	10.25
21	9.98	7.80	7.12	7.39	6.91	4.87	4.44	7.60	8.45	10.05	9.48	10.25
22	9.95	8.17	6.93	7.45	6.90	4.59	3.30	7.45	8.23	10.08	9.57	10.26
23	9.80	7.60	6.90	7.37	6.97	4.25	2.63	6.61	8.07	10.11	9.63	10.14
24	9.72	6.59	7.03	7.35	6.89	4.07	2.33	5.46	7.92	9.92	9.72	9.09
25	9.73	6.55	7.26	7.40	6.81	4.03	2.25	5.21	7.59	9.21	9.82	8.32
26	9.73	6.49	7.36	7.34	6.93	4.16	2.28	5.60	7.47	8.56	9.90	8.36
27	9.75	6.40	7.37	7.25	6.85	4.40	2.35	6.22	7.73	8.45	9.96	8.59
28	9.78	6.32	7.31	7.20	6.82	4.77	1.71	6.72	8.02	8.43	9.90	8.81
29	9.81	6.20	7.34	7.15	---	5.11	1.15	7.08	8.30	8.58	9.87	8.98
30	9.82	6.07	7.45	6.89	---	5.44	1.58	7.32	8.52	8.89	9.93	9.11
31	9.85	---	7.48	6.76	---	5.74	---	7.57	---	9.14	9.91	---
LOW	9.98	9.85	7.48	7.55	7.07	7.45	6.33	8.06	9.19	10.11	10.06	10.26
HIGH	9.72	6.07	6.24	6.76	6.66	4.03	1.15	2.53	7.47	8.43	8.86	8.32

WTR YR 1990 HIGH 1.15 LOW 10.26



GROUND-WATER LEVELS

149

AROOSTOOK COUNTY--Continued

464239067574401. Local number, ARW 905.

LOCATION.--Lat 46°42'57", long 67°57'44", 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 479 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 January 19 and March 14, June 22 and July 16, and September 18 and September 30,

doubtful gage-height record; record lost between August 01 and September 17 because recorder was vandalized.

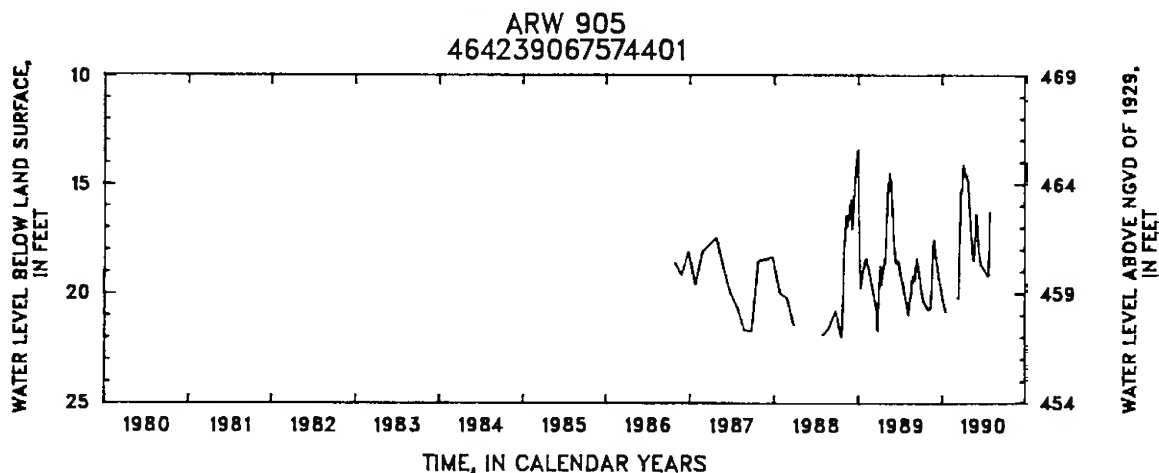
PERIOD OF RECORD.--August 1986 to September 1990. Records prior to October 1986 have not been published but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.77 ft below land-surface datum, Jan. 04, 1989; lowest measured, 22.95 ft below land-surface datum, Mar. 16, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.99	20.72	18.02	20.15	---	---	15.38	15.81	16.39	---	---	---
2	20.04	20.73	18.09	20.26	---	---	15.48	16.05	16.45	---	---	---
3	20.09	20.71	18.15	20.30	---	---	15.46	16.29	16.60	---	---	---
4	20.16	20.69	18.27	20.32	---	---	14.90	16.39	16.79	---	---	---
5	20.23	20.70	18.39	20.40	---	---	14.10	16.52	16.96	---	---	---
6	20.30	20.68	18.47	20.44	---	---	14.00	16.74	17.11	---	---	---
7	20.35	20.68	18.57	20.49	---	---	14.10	16.97	17.30	---	---	---
8	20.39	20.69	18.70	20.53	---	---	14.28	17.17	17.50	---	---	---
9	20.42	20.69	18.73	20.58	---	---	14.37	17.32	17.65	---	---	---
10	20.45	20.69	18.82	20.63	---	---	14.39	17.49	17.81	---	---	---
11	20.44	20.67	18.94	20.70	---	---	14.38	17.63	17.97	---	---	---
12	20.44	20.58	19.02	20.74	---	---	14.47	17.81	18.10	---	---	---
13	20.45	20.33	19.08	20.83	---	---	14.61	17.95	18.22	---	---	---
14	20.49	20.04	19.15	20.86	---	---	14.69	18.08	18.33	---	---	---
15	20.51	19.86	19.22	20.87	---	20.23	14.70	18.17	18.43	---	---	---
16	20.51	19.66	19.25	20.87	---	20.23	14.53	18.26	18.52	---	---	---
17	20.54	19.44	19.34	20.89	---	20.24	14.37	18.33	18.61	19.02	---	---
18	20.57	19.03	19.41	20.90	---	20.13	14.45	18.39	18.65	19.07	---	---
19	20.58	18.55	19.45	---	---	19.29	14.52	18.47	18.69	19.14	---	---
20	20.59	18.04	19.49	---	---	17.64	14.56	18.54	18.71	19.22	---	---
21	20.61	17.75	19.57	---	---	17.04	14.65	18.59	18.71	19.28	---	---
22	20.67	17.63	19.66	---	---	16.69	14.70	18.65	---	19.33	---	---
23	20.73	17.54	19.70	---	---	16.33	14.77	18.68	---	19.37	---	---
24	20.74	17.53	19.73	---	---	15.74	14.83	18.52	---	19.40	---	---
25	20.74	17.55	19.77	---	---	15.36	14.90	18.12	---	19.17	---	---
26	20.77	17.58	19.88	---	---	15.14	15.01	17.62	---	18.42	---	---
27	20.76	17.68	19.97	---	---	15.12	15.19	17.02	---	17.05	---	---
28	20.76	17.71	20.00	---	---	15.11	15.38	16.63	---	16.35	---	---
29	20.76	17.83	20.06	---	---	15.16	15.53	16.45	---	16.28	---	---
30	20.75	17.91	20.08	---	---	15.21	15.66	16.36	---	16.26	---	---
31	20.75	---	20.10	---	---	15.28	---	16.37	---	16.29	---	---
LOW	20.77	20.73	20.10	20.90	---	20.24	15.66	18.68	18.71	19.40	---	---
HIGH	19.99	17.53	18.02	20.15	---	15.11	14.00	15.81	16.39	16.26	---	---

WTR YR 1990 HIGH 14.00 LOW 20.90



GROUND-WATER LEVELS

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.--Wash-bored observation well, diameter 2 in., October 1986 measured depth 40 ft, screened depth 35 to 40 ft.

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

DATUM.--Elevation of land-surface datum is 431 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 01 and October 12 and between March 20 and April 18, doubtful gage-height record.

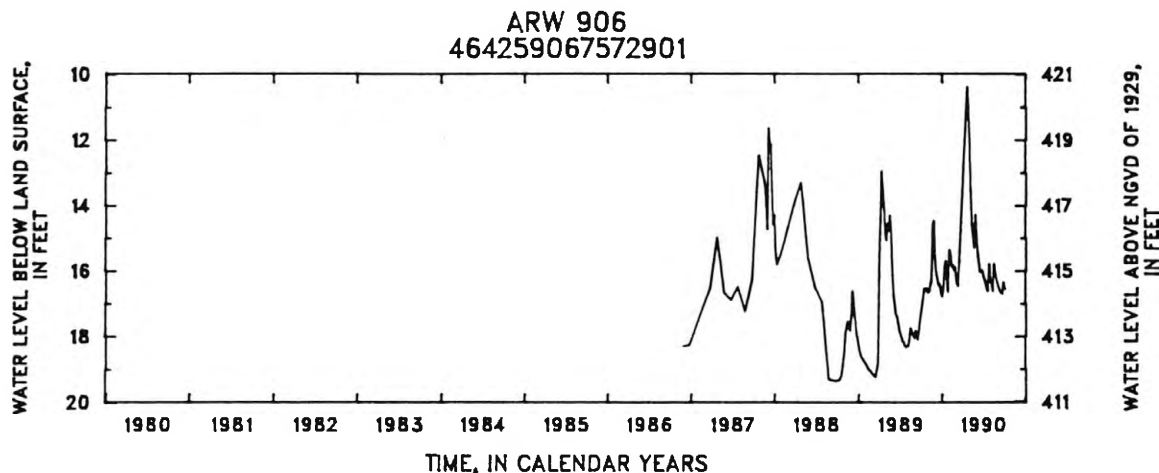
PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.71 ft below land-surface datum, Apr. 21, 1990; lowest measured, 19.38 ft below land-surface datum, Oct. 01-03, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16.61	15.77	16.81	15.26	16.28	---	12.27	15.13	16.24	16.35	16.42
2	---	16.52	15.88	16.81	15.10	16.39	---	12.54	15.24	16.25	16.32	16.45
3	---	16.63	15.96	16.84	15.07	16.43	---	12.92	15.34	16.27	16.36	16.49
4	---	16.65	16.04	16.80	15.31	16.43	---	13.24	15.42	16.29	16.40	16.52
5	---	16.64	16.11	16.55	15.53	16.43	---	13.54	15.49	16.29	16.43	16.54
6	---	16.66	16.17	16.33	15.68	16.42	---	13.81	15.54	16.33	16.47	16.57
7	---	16.68	16.18	16.22	15.85	16.42	---	14.00	15.60	16.38	16.48	16.59
8	---	16.69	16.18	16.20	15.95	16.43	---	14.22	15.65	16.41	16.58	16.61
9	---	16.69	16.21	16.13	16.00	16.45	---	14.41	15.74	16.44	16.66	16.61
10	---	16.45	16.26	15.91	15.91	16.48	---	14.64	15.81	16.45	16.66	16.62
11	---	16.34	16.30	15.68	15.79	16.45	---	14.68	15.87	16.45	16.48	16.64
12	---	16.33	16.35	15.60	15.71	16.28	---	14.68	15.93	16.47	15.86	16.66
13	16.52	16.33	16.40	15.52	15.72	16.10	---	14.82	15.99	16.51	15.99	16.68
14	16.52	16.33	16.45	15.51	15.78	15.96	---	14.95	16.04	16.54	15.89	16.69
15	16.53	16.29	16.47	15.69	15.82	15.77	---	15.05	16.08	16.57	15.78	16.69
16	16.53	15.89	16.52	15.93	15.90	15.51	---	15.15	16.11	16.60	15.82	16.69
17	16.50	15.18	16.55	16.16	15.96	15.06	---	15.27	15.92	16.62	15.83	16.69
18	16.51	14.78	16.51	16.34	15.94	14.18	---	15.25	15.99	16.61	15.88	16.69
19	16.55	14.62	16.41	16.32	15.96	13.50	10.36	15.23	16.01	16.64	15.93	16.71
20	16.61	14.58	16.41	16.27	16.00	---	10.38	15.33	16.01	16.65	16.01	16.72
21	16.57	14.60	16.49	16.26	16.11	---	9.71	15.41	16.01	16.66	16.06	16.72
22	16.46	14.53	16.55	16.39	16.20	---	9.84	15.30	15.99	16.69	16.11	16.73
23	16.49	14.46	16.59	16.53	16.12	---	10.32	14.58	15.98	16.70	16.16	16.52
24	16.52	14.44	16.63	16.62	15.91	---	10.74	14.29	16.00	16.03	16.21	16.21
25	16.53	14.46	16.67	16.68	15.89	---	10.97	14.28	16.01	15.79	16.25	16.35
26	16.56	14.50	16.71	16.62	15.97	---	11.25	14.35	16.07	15.82	16.29	16.44
27	16.61	14.89	16.74	16.35	16.09	---	11.34	14.47	16.13	15.98	16.32	16.48
28	16.63	15.22	16.77	15.91	16.18	---	11.48	14.62	16.14	16.09	16.34	16.52
29	16.65	15.46	16.79	15.61	---	---	11.83	14.78	16.18	16.19	16.36	16.55
30	16.66	15.63	16.80	15.38	---	---	12.08	14.90	16.21	16.27	16.36	16.57
31	16.68	---	16.81	15.36	---	---	---	15.00	---	16.33	16.39	---
LOW	16.68	16.69	16.81	16.84	16.20	16.48	12.08	15.41	16.21	16.70	16.66	16.73
HIGH	16.46	14.44	15.77	15.36	15.07	13.50	9.71	12.27	15.13	15.79	15.78	16.21

WTR YR 1990 HIGH 9.71 LOW 16.84



GROUND-WATER LEVELS

151

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.--Wash-bored observation well, diameter 2 in., October 1986 measured depth 28 ft, screened depth 18 to 28 ft.

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

DATUM.--Elevation of land-surface datum is 652 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.77 ft above land-surface datum.

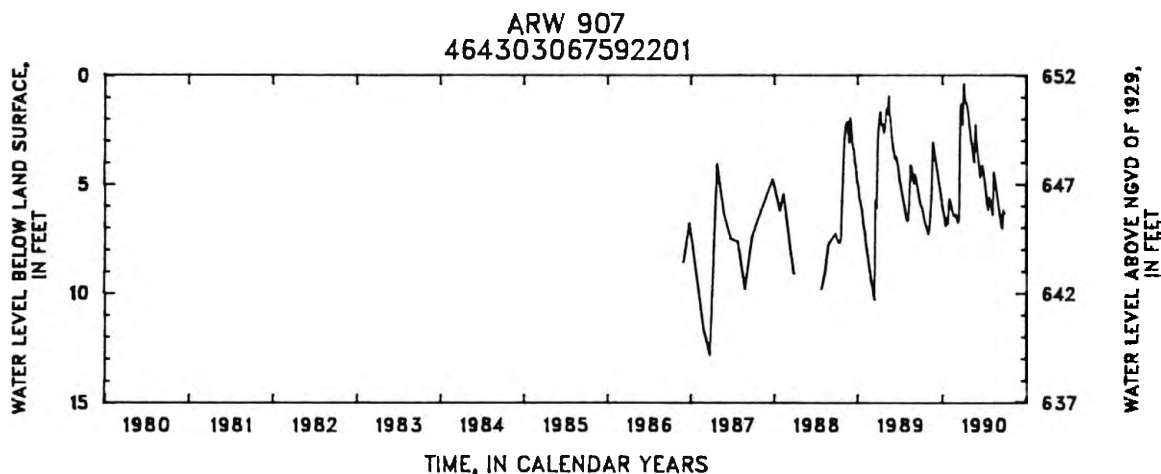
PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.36 ft below land-surface datum, Apr. 05, 1990; lowest measured, 12.96 ft below land-surface datum, Mar. 29, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.04	7.33	3.92	5.99	5.60	6.42	2.36	2.48	3.28	4.61	5.84	5.83
2	6.05	7.37	3.99	6.18	5.72	6.41	2.13	2.61	3.40	4.72	5.89	5.90
3	6.03	7.35	3.86	6.23	5.77	6.52	1.79	2.77	3.50	4.79	5.97	6.06
4	6.06	7.29	3.97	6.22	5.74	6.56	.71	2.86	3.62	4.85	6.06	6.12
5	6.12	7.19	4.12	6.33	5.82	6.64	.36	2.90	3.76	4.95	6.12	6.15
6	6.18	7.08	4.23	6.35	5.85	6.68	.55	2.94	3.85	5.13	6.18	6.21
7	6.20	7.10	4.31	6.42	5.91	6.71	.72	3.03	3.94	5.21	6.25	6.28
8	6.28	7.11	4.42	6.47	6.00	6.71	.91	3.14	4.03	5.32	6.31	6.41
9	6.34	7.02	4.43	6.54	6.00	6.74	1.10	3.19	4.11	5.33	6.37	6.44
10	6.44	6.45	4.44	6.56	6.03	6.79	1.15	3.30	4.20	5.38	6.45	6.47
11	6.46	6.11	4.54	6.65	6.09	6.79	1.29	3.21	4.30	5.52	6.28	6.59
12	6.48	5.98	4.61	6.67	6.18	6.74	1.48	3.28	4.42	5.63	5.45	6.64
13	6.51	5.96	4.68	6.80	6.19	6.65	1.64	3.36	4.52	5.76	5.37	6.73
14	6.62	5.83	4.75	6.92	6.26	6.64	1.65	3.51	4.61	5.85	4.89	6.77
15	6.69	5.63	4.86	6.96	6.33	6.53	1.26	3.78	4.73	5.93	4.45	6.81
16	6.70	4.84	4.83	6.98	6.23	6.38	.72	3.88	4.77	5.96	4.42	6.89
17	6.80	4.03	4.97	7.03	6.32	5.69	.78	3.99	4.38	6.04	4.49	6.96
18	6.85	3.50	5.10	6.91	6.43	3.37	1.03	3.87	4.41	6.10	4.57	7.01
19	6.89	3.25	5.16	6.72	6.31	1.93	1.29	3.93	4.49	6.16	4.70	7.05
20	6.90	3.06	5.17	6.59	6.50	1.46	1.41	4.04	4.35	6.24	4.82	7.08
21	6.90	3.06	5.22	6.60	6.55	1.42	1.37	4.10	4.30	6.33	4.85	7.14
22	6.93	3.22	5.38	6.62	6.50	1.63	1.39	3.79	4.18	6.43	4.94	7.18
23	7.00	3.27	5.51	6.74	6.43	1.61	1.58	2.76	4.18	6.49	5.04	6.85
24	7.01	3.32	5.52	6.82	6.42	1.30	1.76	2.20	4.11	6.04	5.15	6.31
25	7.03	3.40	5.52	6.88	6.48	1.31	1.88	2.27	4.14	5.61	5.24	6.21
26	7.08	3.42	5.59	6.62	6.52	1.48	1.99	2.42	4.20	5.48	5.33	6.19
27	7.10	3.62	5.80	6.14	6.43	1.71	2.08	2.59	4.27	5.52	5.40	6.22
28	7.15	3.53	5.86	5.87	6.42	1.86	2.23	2.77	4.33	5.55	5.45	6.28
29	7.22	3.71	5.98	5.80	---	2.07	2.33	2.93	4.43	5.62	5.51	6.34
30	7.27	3.77	6.00	5.57	---	2.20	2.40	2.98	4.49	5.70	5.66	6.36
31	7.33	---	6.01	5.68	---	2.30	---	3.14	---	5.78	5.75	---
LOW	7.33	7.37	6.01	7.03	6.55	6.79	2.40	4.10	4.77	6.49	6.45	7.18
HIGH	6.03	3.06	3.86	5.57	5.60	1.30	.36	2.20	3.28	4.61	4.42	5.83

WTR YR 1990 HIGH .36 LOW 7.37



GROUND-WATER LEVELS

CUMBERLAND COUNTY

435453070013601. Local number, CW 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 before March 27; monthly measurement with chalked tape by USGS personnel after March 27.

DATUM.--Elevation of land-surface datum is 139 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Electric tape gage index, 2.93 ft above land-surface datum.

REMARKS.--Record lost between October 20 and November 02, doubtful gage-height record.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.95 ft below land-surface datum, June 09, 1984; lowest measured, 36.41 ft below land-surface datum, Feb. 10, 1966.

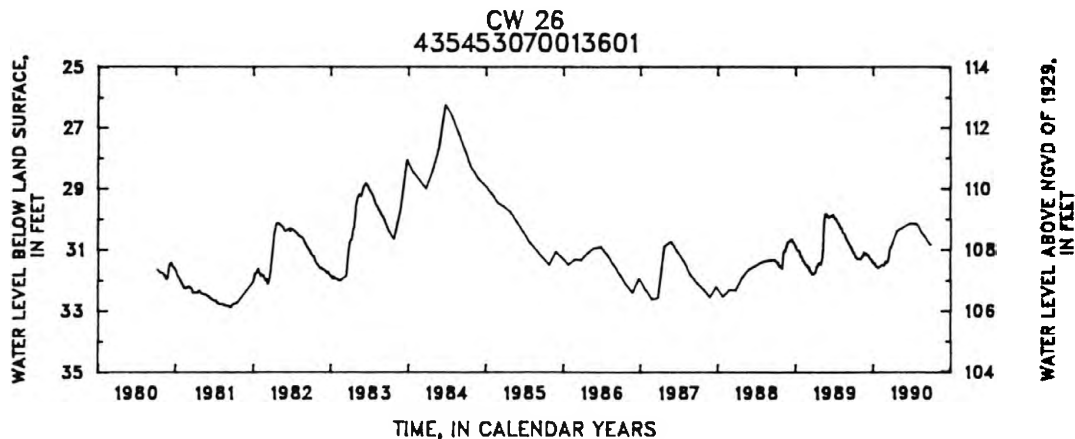
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.14	---	31.23	31.38	31.52	31.37	---	---	---	---	---	---
2	31.12	---	31.20	31.46	31.54	31.34	---	---	---	---	---	---
3	31.11	31.34	31.10	31.47	31.57	31.37	---	---	---	---	---	---
4	31.14	31.37	31.16	31.42	31.52	31.39	---	---	---	---	---	---
5	31.17	31.34	31.18	31.48	31.55	31.43	---	---	---	---	---	---
6	31.17	31.29	31.18	31.47	31.54	31.44	---	---	---	---	---	---
7	31.20	31.29	31.23	31.49	31.55	31.45	---	---	---	---	---	---
8	31.21	31.28	31.26	31.49	31.56	31.41	---	---	---	---	---	---
9	31.23	31.24	31.24	31.51	31.53	31.41	---	---	---	---	---	---
10	31.26	31.25	31.21	31.47	31.51	31.42	---	---	---	---	---	---
11	31.24	31.21	31.24	31.50	31.55	31.42	---	---	---	---	---	---
12	31.26	31.28	31.25	31.49	31.55	31.41	---	---	---	---	---	---
13	31.26	31.24	31.25	31.56	31.50	31.37	---	---	---	---	---	---
14	31.30	31.21	31.26	31.59	31.52	31.34	---	---	---	---	---	---
15	31.31	31.20	31.29	31.57	31.52	31.28	---	---	---	---	---	---
16	31.30	31.16	31.23	31.58	31.45	31.21	---	---	---	---	---	---
17	31.33	31.24	31.31	31.57	31.50	31.14	---	---	---	---	---	---
18	31.35	31.22	31.34	31.54	31.53	31.14	---	---	---	---	---	---
19	31.34	31.21	31.35	31.62	31.44	31.12	---	---	---	---	---	---
20	---	31.10	31.33	31.58	31.54	31.04	---	---	---	---	---	---
21	---	31.18	31.36	31.58	31.52	31.02	---	---	---	e 30.48	---	---
22	---	31.24	31.38	31.59	31.47	31.00	---	---	---	---	---	---
23	---	31.21	31.41	31.62	31.45	30.95	---	---	---	---	---	---
24	---	31.21	31.38	31.61	31.47	30.99	---	---	---	---	---	---
25	---	31.18	31.35	31.62	31.48	30.94	---	---	---	---	---	---
26	---	31.15	31.35	31.58	31.47	30.93	e 30.39	---	---	---	---	---
27	---	31.22	31.42	31.65	31.39	e 30.95	---	---	---	---	---	---
28	---	31.12	31.41	31.61	31.39	---	---	e 30.14	---	---	e 30.86	---
29	---	31.19	31.45	31.58	---	---	---	---	---	---	---	---
30	---	31.14	31.44	31.51	---	---	---	---	e 30.18	---	---	---
31	---	---	31.40	31.57	---	---	---	---	---	---	---	---

e Instantaneous water level

LOW	31.35	31.37	31.45	31.65	31.57	31.45	---	---	---	---	---	---
HIGH	31.11	31.10	31.10	31.38	31.39	30.93	---	---	---	---	---	---

WTR YR 1990 HIGH 30.14 LOW 31.65



GROUND-WATER LEVELS

153

CUMBERLAND COUNTY--Continued

435902070171301. Local number, CW 1382.

LOCATION.--Lat 43°59'02", long 70°17'13", Hydrologic Unit 01060001, about 1.6 mi north of New Gloucester. Owner:

U.S. Geological Survey.

AQUIFER.--Glacial till.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 9 ft, screened depth 2 to 9 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel before April 03; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 03.

DATUM.--Elevation of land-surface datum is 339 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.38 ft above land-surface datum.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.42 ft below land-surface datum, Apr. 04, 1990; lowest measured, 4.98 ft below land-surface datum, Sept. 14, 1990.

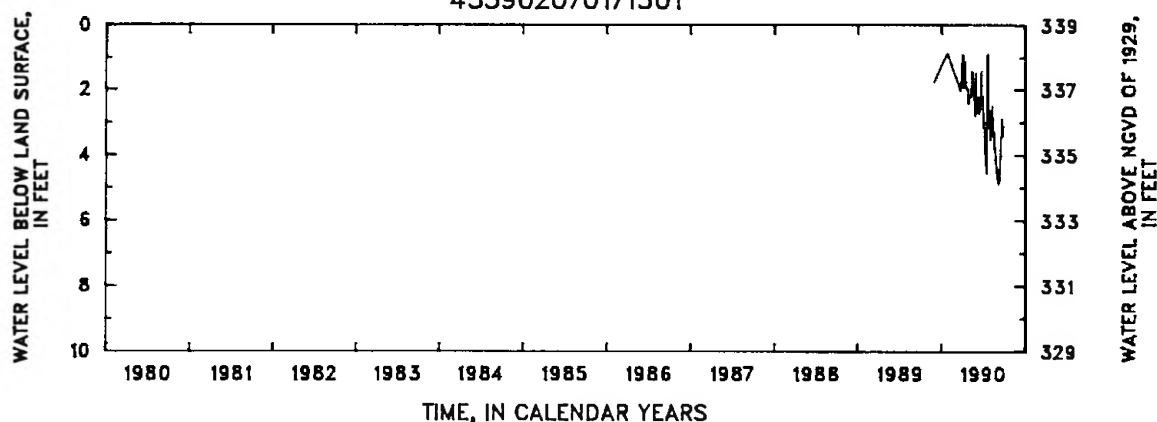
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	2.39	1.94	2.24	2.83	4.44
2	---	---	---	---	---	---	---	2.54	2.22	2.53	3.04	4.50
3	---	---	---	---	---	---	---	.97	2.70	2.40	2.71	3.22
4	---	---	---	---	---	---	---	.42	2.73	2.47	2.85	3.40
5	---	---	---	---	---	---	---	.89	2.22	2.70	2.70	3.57
6	---	---	---	---	---	---	1.32	1.80	2.78	2.99	3.70	4.73
7	---	---	---	---	---	---	1.66	2.07	2.82	3.21	3.67	4.77
8	---	---	---	---	---	---	1.92	1.90	2.99	3.33	3.37	4.87
9	---	---	---	---	---	---	2.06	2.10	2.91	3.34	3.05	4.88
10	---	---	---	---	---	---	1.98	2.22	2.67	3.47	3.17	4.90
11	---	---	---	---	---	---	.68	.88	1.91	3.67	1.51	4.92
12	---	---	---	---	---	---	1.22	1.56	1.91	3.79	1.45	4.96
13	---	---	---	---	---	---	1.67	1.13	2.31	3.91	1.94	4.97
14	---	---	---	---	---	---	1.86	.78	2.55	4.00	2.21	4.98
15	---	---	---	---	---	---	1.13	1.44	2.77	4.09	2.49	4.79
16	---	---	---	---	---	---	.88	1.78	2.94	4.20	2.71	3.97
17	---	---	---	---	---	---	1.07	1.84	3.05	4.32	2.85	3.74
18	---	---	---	---	---	---	1.35	1.12	3.12	4.39	2.99	3.79
19	---	---	---	---	---	---	1.83	1.62	3.28	4.49	3.16	3.87
20	---	---	---	---	---	---	1.96	1.97	2.57	4.59	3.30	3.86
21	---	---	---	---	---	---	1.20	1.82	2.23	4.61	3.43	3.82
22	---	---	---	---	---	---	1.12	1.76	2.38	4.65	3.54	3.83
23	---	---	---	---	---	---	1.61	2.02	1.90	4.59	3.65	3.06
24	---	---	---	---	---	---	1.93	2.21	1.10	3.43	3.76	2.77
25	---	---	---	---	---	---	2.01	2.37	1.43	.87	3.83	2.89
26	---	---	---	e .85	---	---	2.03	2.50	1.80	1.22	3.87	3.06
27	---	---	---	---	---	e 2.07	2.15	2.62	2.13	1.77	3.91	3.15
28	---	---	---	---	---	---	2.36	2.71	2.39	2.05	4.01	3.17
29	---	e 1.77	---	---	---	---	2.48	2.79	2.52	2.28	4.11	3.26
30	---	---	---	---	---	---	2.45	1.12	1.89	2.49	4.25	3.12
31	---	---	---	---	---	---	---	1.48	---	2.65	4.37	---

e Instantaneous water level

LOW	---	---	---	---	---	---	2.48	2.79	3.28	4.65	4.37	4.98
HIGH	---	---	---	---	---	---	.42	.78	1.10	.87	1.45	2.77

WTR YR 1990 HIGH .42 LOW 4.98

CW 1382
435902070171301

GROUND-WATER LEVELS

CUMBERLAND COUNTY--Continued

435653070201801. Local number, CW 1383.

LOCATION.--Lat 43°56'53", long 70°20'18", Hydrologic Unit 01060001, about 3.0 mi southwest of New Gloucester.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., screen slot size 0.010 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

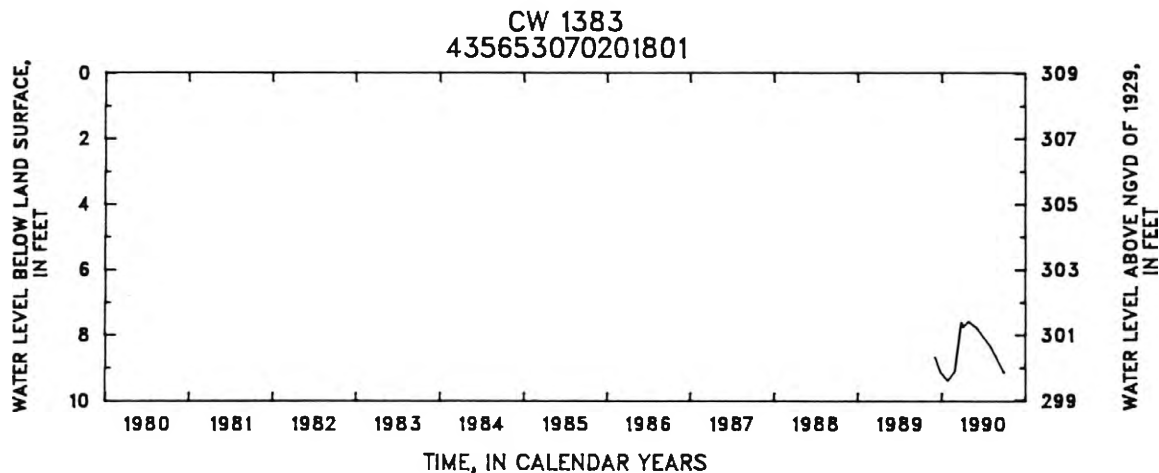
DATUM.--Elevation of land-surface datum is 309 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.93 ft above land-surface datum.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.58 ft below land-surface datum, Apr. 26, 1990;
lowest measured, 9.40 ft below land-surface datum, Jan. 26, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Nov 29	8.67	Jan 26	9.40	Mar 27	7.60	Apr 03	7.76	May 29	7.77	Aug 21	8.62
Dec 27	9.15	Feb 27	9.11			Apr 26	7.58	Jul 31	8.35	Sep 28	9.15



GROUND-WATER LEVELS

155

FRANKLIN COUNTY

451128070280301. Local number, FW 893.

LOCATION.--Lat 45°11'28", long 70°28'03", Hydrologic Unit 01030002, approximately 150 ft 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.--Wash-bored observation well, diameter 2 in., August 1985 measured depth 20 ft, screened depth 15 to 20 ft.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch before April 04; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 04.

DATUM.--Elevation of land-surface datum is 1169 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: File mark on 6" casing inside of shelter, which is 3.20 ft above the general land surface.

REMARKS--Record lost between April 04 and September 30 because recorder was vandalized.

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 measured, 6.00 ft below land-surface datum, Apr. 23, 1987; lowest measured, 9.99 ft below land-surface datum, Feb. 11, 1987.

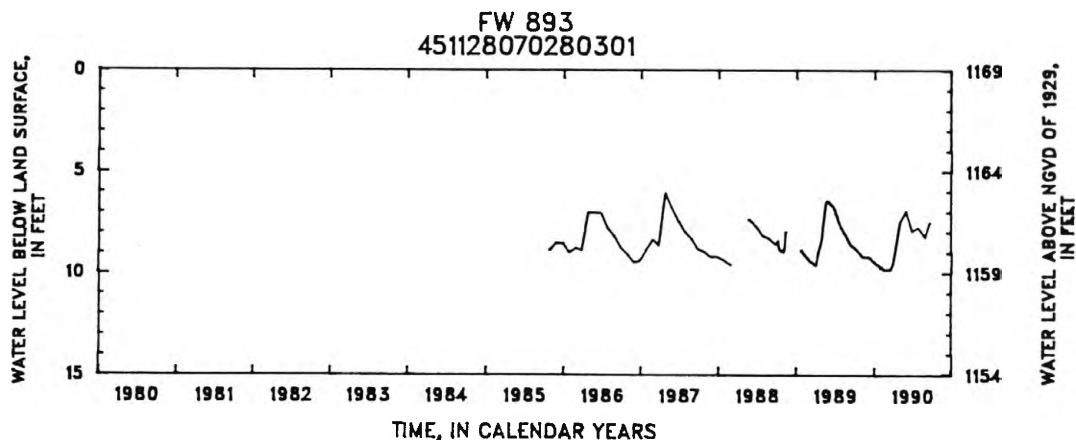
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.80	9.16	9.23	9.49	9.72	9.87	9.42	e 7.50	---	---	---	---
2	8.81	9.19	9.24	9.51	9.72	9.86	9.37	---	---	---	---	---
3	8.81	9.20	9.24	9.52	9.72	9.87	9.31	---	---	---	---	---
4	8.83	9.21	9.23	9.52	9.72	9.87	e 9.25	---	---	---	---	---
5	8.84	9.22	9.24	9.53	9.72	9.87	---	---	---	---	---	---
6	8.85	9.22	9.25	9.52	9.72	9.87	---	---	---	---	---	---
7	8.86	9.22	9.26	9.53	9.73	9.88	---	---	---	---	---	---
8	8.87	9.22	9.27	9.56	9.74	9.88	---	---	---	---	---	---
9	8.88	9.22	9.28	9.57	9.82	9.88	---	---	---	---	---	---
10	8.89	9.23	9.28	9.57	9.83	9.88	---	---	---	---	---	---
11	8.92	9.23	9.29	9.58	9.83	9.88	---	---	---	---	---	---
12	8.93	9.23	9.30	9.58	9.84	9.89	---	---	---	---	---	---
13	8.93	9.24	9.30	9.59	9.84	9.88	---	---	---	---	---	---
14	8.95	9.24	9.31	9.60	9.86	9.88	---	---	---	---	---	---
15	8.96	9.24	9.31	9.61	9.86	9.88	---	---	---	---	---	---
16	8.97	9.24	9.32	9.62	9.86	9.88	---	---	---	---	---	---
17	8.98	9.24	9.33	9.62	9.86	9.88	---	---	---	---	---	---
18	8.99	9.24	9.38	9.62	9.87	9.87	---	---	---	---	---	---
19	8.99	9.24	9.39	9.64	9.86	9.84	---	---	---	---	---	---
20	9.00	9.24	9.39	9.64	9.86	9.81	---	---	---	---	---	e 7.53
21	9.01	9.24	9.40	9.65	9.86	9.78	---	---	---	---	---	---
22	9.03	9.24	9.41	9.65	9.86	9.75	---	---	---	---	---	---
23	9.04	9.23	9.43	9.66	9.86	9.71	---	---	---	---	---	---
24	9.07	9.23	9.43	9.67	9.86	9.68	---	---	---	---	---	---
25	9.08	9.23	9.44	9.68	9.87	9.66	---	---	---	---	---	---
26	9.09	9.23	9.43	9.67	9.87	9.63	---	---	---	---	---	---
27	9.10	9.23	9.45	9.69	9.87	9.61	---	---	---	---	---	---
28	9.12	9.23	9.47	9.43	9.87	9.59	---	---	e 7.96	---	---	---
29	9.13	9.23	9.49	9.39	---	9.57	---	---	---	---	---	---
30	9.14	9.23	9.49	9.72	---	9.52	---	e 6.95	---	---	e 8.27	---
31	9.16	---	9.49	9.72	---	9.47	---	---	---	---	---	---

e Instantaneous water level

LOW	9.16	9.24	9.49	9.72	9.87	9.89	9.42	---	---	---	---	---
HIGH	8.80	9.16	9.23	9.39	9.72	9.47	9.31	---	---	---	---	---

WTR YR 1990 HIGH 6.95 LOW 9.89



GROUND-WATER LEVELS

FRANKLIN COUNTY--Continued

443831070002601. Local number, FW 901.

LOCATION.--Lat 44°38'31", long 70°00'26", Hydrologic Unit 01030003, about 0.5 mi 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 25 to 35 feet, screen slot size 0.006 in.

INSTRUMENTATION.--Electronic water-level recorder--daily-mean values stored based on 24 hourly measurements.

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.

REMARKS.--Record lost between October 01 and October 15 and between March 31 and August 30 because recorder malfunctioned; well also sampled for water quality.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.69 ft below land-surface datum, May 14, 1989; lowest measured, 20.64 ft below land-surface datum, Oct. 18, 1987.

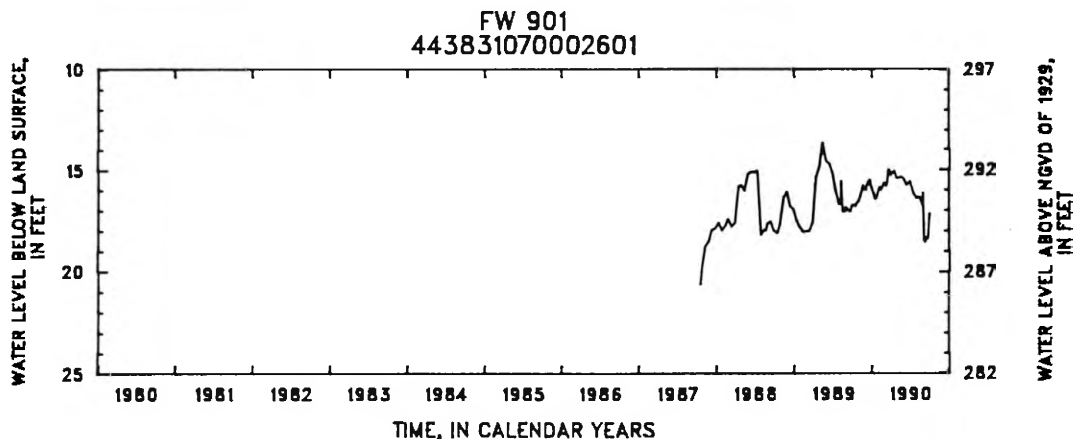
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16.59	16.13	15.91	16.01	15.61	---	---	---	---	---	17.67
2	---	16.49	15.96	15.99	16.05	15.62	---	---	---	---	---	18.17
3	---	16.53	15.90	16.01	16.03	15.65	---	---	---	---	---	18.57
4	---	16.56	15.97	16.04	15.98	15.71	---	---	---	---	---	18.66
5	---	16.44	16.02	16.08	15.94	15.77	---	---	---	---	---	18.55
6	---	16.44	16.04	16.14	15.91	15.82	---	---	---	---	---	18.56
7	---	16.46	16.09	16.18	15.93	15.84	---	---	---	---	---	18.52
8	---	16.34	15.87	16.21	15.93	15.84	---	---	---	---	---	18.77
9	---	16.28	15.79	16.22	15.90	15.84	---	---	---	---	---	18.70
10	---	16.23	15.74	16.22	15.89	15.85	---	---	---	---	---	18.60
11	---	16.23	15.74	16.23	15.89	15.85	---	---	---	---	---	18.67
12	---	16.28	15.71	16.26	15.89	15.80	---	---	---	---	---	18.65
13	---	16.19	15.67	16.36	15.88	15.75	---	---	---	---	---	18.63
14	---	16.20	15.66	16.42	15.93	15.70	---	---	e 15.79	---	---	18.56
15	---	16.10	15.60	16.44	15.90	15.64	---	e 15.39	---	---	e 16.38	18.36
16	16.91	16.08	15.55	16.46	15.85	15.52	---	---	---	---	---	18.51
17	16.96	16.08	15.54	16.46	15.89	15.35	e 15.08	---	---	e 16.20	---	18.56
18	16.97	16.07	15.56	16.47	15.86	15.21	---	---	---	---	---	18.56
19	16.88	15.91	15.55	16.48	15.86	15.15	---	---	---	---	---	18.50
20	16.70	15.79	15.54	16.46	15.91	15.01	---	---	---	---	---	18.44
21	16.67	15.94	15.54	16.44	15.90	14.96	---	---	---	---	---	18.53
22	16.70	15.99	15.60	16.40	15.84	14.93	---	---	---	---	---	18.43
23	16.70	16.04	15.64	16.42	15.77	14.97	---	---	---	---	---	18.26
24	16.68	16.04	15.59	16.42	15.73	15.01	---	---	---	---	---	18.36
25	16.67	15.97	15.55	16.38	15.74	15.02	---	---	---	---	---	18.36
26	16.66	16.09	15.61	16.33	15.72	15.08	---	---	---	---	---	18.34
27	16.68	15.97	15.70	16.24	15.67	15.15	---	---	---	---	---	18.34
28	16.71	16.03	15.79	16.19	15.65	15.20	---	---	---	---	---	18.32
29	16.70	16.02	15.87	16.08	---	e 15.32	e 15.46	---	---	---	---	18.31
30	16.70	16.12	15.90	16.05	---	e 15.31	---	---	e 15.60	---	e 16.80	18.26
31	16.56	---	15.86	16.05	---	---	---	e 15.48	---	e 16.44	16.17	---

e Instantaneous water level

LOW	16.97	16.59	16.13	16.48	16.05	15.85	---	---	---	---	16.17	18.77
HIGH	16.56	15.79	15.54	15.91	15.65	14.93	---	---	---	---	16.17	17.67

WTR YR 1990 HIGH 14.93 LOW 18.77



GROUND-WATER LEVELS

157

FRANKLIN COUNTY--Continued

450539070301301. Local number, FW 908.

LOCATION.--Lat 45°05'39", long 70°30'13", Hydrologic Unit 01030002, about 4.3 mi southwest of Stratton. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 22 ft, screened depth 11.8 to 21.8 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel before April 04; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 04.

DATUM.--Elevation of land-surface datum is 1,338 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.20 ft above land-surface datum.

REMARKS.--No measurements made between October 01 and March 29.

PERIOD OF RECORD.--September 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.64 ft below land-surface datum, Apr. 11, 1990; lowest measured, 4.85 ft below land-surface datum, Sept. 22, 1990.

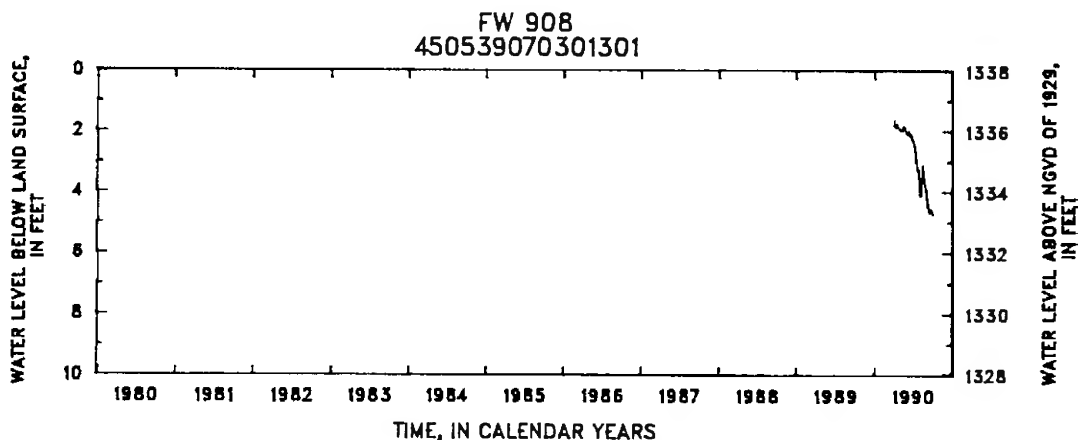
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1.99	2.13	2.34	3.88	4.08
2	---	---	---	---	---	---	---	2.03	2.18	2.37	3.95	4.13
3	---	---	---	---	---	---	---	2.06	2.16	2.42	4.04	4.21
4	---	---	---	---	---	---	1.67	2.06	2.04	2.43	4.10	4.27
5	---	---	---	---	---	---	1.78	1.99	2.12	2.46	4.18	4.32
6	---	---	---	---	---	---	1.85	1.92	2.13	2.53	4.23	4.37
7	---	---	---	---	---	---	1.89	1.96	2.11	2.57	4.19	4.41
8	---	---	---	---	---	---	1.94	1.91	2.15	2.61	3.96	4.46
9	---	---	---	---	---	---	1.96	1.96	2.13	2.61	3.90	4.51
10	---	---	---	---	---	---	1.91	1.97	1.99	2.66	3.98	4.55
11	---	---	---	---	---	---	1.64	1.72	1.83	2.74	3.16	4.59
12	---	---	---	---	---	---	1.80	1.85	1.96	2.78	3.12	4.64
13	---	---	---	---	---	---	1.89	1.83	2.07	2.85	3.25	4.67
14	---	---	---	---	---	---	1.89	1.71	2.13	2.92	3.05	4.70
15	---	---	---	---	---	---	1.75	1.83	2.19	2.99	3.12	4.71
16	---	---	---	---	---	---	1.77	1.85	2.24	3.07	3.20	4.70
17	---	---	---	---	---	---	1.80	1.88	2.28	3.13	3.28	4.72
18	---	---	---	---	---	---	1.85	1.80	2.29	3.13	3.35	4.76
19	---	---	---	---	---	---	1.88	1.78	2.21	3.23	3.41	4.80
20	---	---	---	---	---	---	1.88	1.84	2.10	3.30	3.47	4.81
21	---	---	---	---	---	---	1.82	1.89	2.17	3.35	3.53	4.82
22	---	---	---	---	---	---	1.86	1.90	2.21	3.43	3.58	4.85
23	---	---	---	---	---	---	1.89	1.92	2.15	3.35	3.64	4.64
24	---	---	---	---	---	---	1.90	1.95	2.15	3.19	3.71	4.57
25	---	---	---	---	---	---	1.91	1.99	2.25	3.27	3.77	4.60
26	---	---	---	---	---	---	1.93	2.02	2.31	3.38	3.83	4.63
27	---	---	---	---	---	---	1.95	2.06	2.36	3.47	3.86	4.66
28	---	---	---	---	---	---	1.98	2.09	2.39	3.56	3.88	4.71
29	---	---	---	---	---	e 1.81	1.98	2.11	2.39	3.63	3.90	4.75
30	---	---	---	---	---	---	1.98	1.99	2.29	3.72	3.96	4.75
31	---	---	---	---	---	---	---	2.06	---	3.80	4.02	---

e Instantaneous water level

LOW	---	---	---	---	---	---	1.98	2.11	2.39	3.80	4.23	4.85
HIGH	---	---	---	---	---	---	1.64	1.71	1.83	2.34	3.05	4.08

WTR YR 1990 HIGH 1.64 LOW 4.85



GROUND-WATER LEVELS

HANCOCK COUNTY

444950068220601. Local number, HW 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 of 1929, from topographic map. Measuring point: Top edge of hole in base of recorder shelter, 0.65 ft below land-surface datum. The measuring point is 1.4 ft above the general land surface.

REMARKS.--Record lost between January 28 and February 27, doubtful gage-height record.

PERIOD OF RECORD.--November 1943 to current year. Records for May 15-30, 1979; April 26-30, 1981; and the monthly summary for January 1981 are unreliable and should not be used.

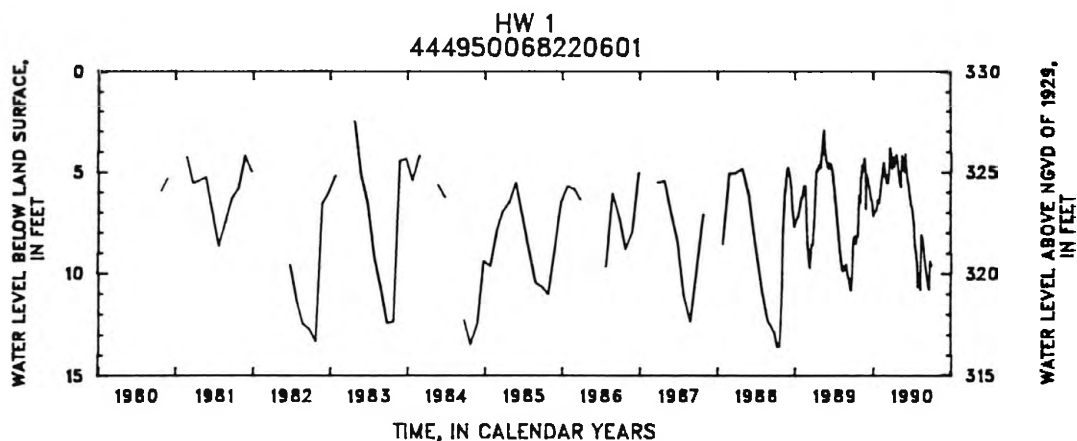
REVISED RECORDS.--WDR ME-82-1: 1981, WDR ME-84-1: 1980, 1981.

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 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.33	5.67	5.14	7.11	---	5.39	4.90	5.16	4.36	6.65	10.10	9.52
2	8.36	5.31	5.24	7.06	---	5.40	4.83	5.27	4.50	6.72	10.19	9.60
3	8.33	5.40	5.20	7.05	---	5.42	4.78	5.42	4.61	6.82	10.26	9.74
4	8.21	5.32	5.25	7.04	---	5.48	4.48	5.50	4.71	6.94	10.33	9.88
5	8.21	5.28	5.32	7.01	---	5.60	4.28	5.52	4.86	7.05	10.40	9.94
6	8.27	5.24	5.40	6.98	---	5.60	4.42	5.48	4.99	7.20	10.49	10.04
7	8.30	5.26	5.57	6.98	---	5.60	4.52	5.55	5.09	7.35	10.58	10.12
8	8.38	5.33	5.65	6.97	---	5.59	4.61	5.64	5.24	7.49	10.67	10.20
9	8.40	5.22	5.65	7.00	---	5.59	4.73	5.72	5.35	7.58	10.76	10.23
10	8.59	4.66	5.65	6.99	---	5.59	4.77	5.79	5.44	7.71	10.87	10.27
11	8.64	4.70	5.69	6.93	---	5.67	4.08	4.98	5.12	7.86	10.83	10.33
12	8.36	4.75	5.89	6.80	---	5.48	3.97	4.89	5.15	8.02	8.94	10.38
13	8.15	4.89	5.93	6.84	---	5.25	4.12	5.02	5.33	8.17	8.19	10.43
14	8.13	4.91	5.93	6.89	---	5.18	4.21	4.10	5.46	8.30	8.08	10.49
15	8.15	4.97	5.94	6.90	---	5.10	4.18	4.19	5.59	8.43	8.10	10.53
16	8.16	4.80	6.00	6.97	---	4.83	3.80	4.28	5.72	8.55	8.19	10.63
17	8.26	3.92	6.17	7.05	---	4.58	3.89	4.39	5.83	8.69	8.29	10.69
18	8.29	4.16	6.28	6.79	---	3.71	3.91	4.37	5.92	8.81	8.38	10.76
19	8.24	4.28	6.32	6.49	---	3.66	4.07	4.41	6.03	8.93	8.35	10.81
20	8.16	4.33	6.35	6.40	---	3.82	4.15	4.46	6.16	9.06	8.27	10.86
21	6.89	4.40	6.36	6.41	---	3.60	4.17	4.55	6.28	9.19	8.30	10.88
22	6.24	4.62	6.36	6.44	---	3.81	4.22	4.63	6.40	9.32	8.38	10.84
23	6.28	4.74	6.36	6.52	---	3.84	4.33	4.71	6.50	9.43	8.48	10.42
24	6.28	4.82	6.36	6.56	---	4.04	4.47	4.77	6.47	9.54	8.60	9.63
25	6.30	4.92	6.48	6.57	---	4.17	4.56	4.87	6.50	9.68	8.71	9.41
26	6.33	4.93	6.83	6.57	---	4.27	4.66	4.95	6.60	9.73	8.81	9.36
27	6.36	5.05	6.91	6.57	---	4.40	4.75	5.04	6.69	9.76	8.89	9.40
28	6.40	5.04	7.04	---	5.30	4.41	4.90	5.15	6.76	9.81	8.99	9.49
29	6.45	5.07	7.04	---	---	4.41	5.05	5.25	6.86	9.87	9.10	9.57
30	6.50	5.09	7.12	---	---	4.47	5.11	4.49	6.74	9.94	9.26	9.65
31	6.55	---	7.23	---	---	4.88	---	4.12	---	10.02	9.41	---
LOW	8.64	5.67	7.23	7.11	5.30	5.67	5.11	5.79	6.86	10.02	10.87	10.88
HIGH	6.24	3.92	5.14	6.40	5.30	3.60	3.80	4.10	4.36	6.65	8.08	9.36

WTR YR 1990 HIGH 3.60 LOW 10.88



GROUND-WATER LEVELS

159

HANCOCK COUNTY--Continued

444950068220602. Local number, HW 1A.

LOCATION.--Lat 44°49'55", long 68°21'59", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi west of the intersection with State Highway 181 in Amherst. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 47 ft, screened depth 37.5 to 47 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 04.

DATUM.--Elevation of land-surface datum is 344 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.49 ft above land-surface datum.

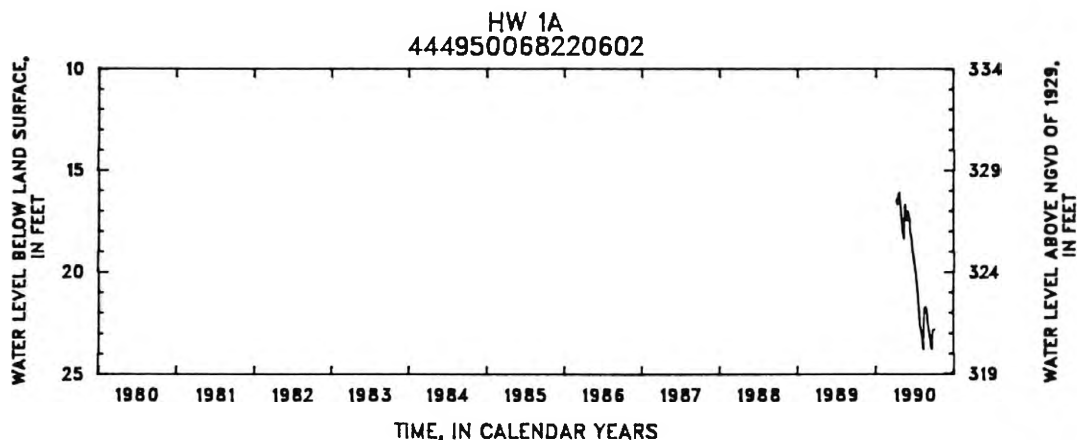
PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.82 ft below land-surface datum, Apr. 17, 1990; lowest measured, 23.85 ft below land-surface datum, Aug. 09 and Sept. 21, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	17.52	17.04	19.60	23.10	22.57
2	---	e 18.97	---	---	---	---	---	17.78	17.04	19.71	23.07	22.57
3	---	---	---	---	---	---	---	17.87	17.12	19.75	23.09	22.81
4	---	---	---	---	---	---	16.54	18.01	17.22	19.85	23.10	22.83
5	---	---	---	---	---	---	16.42	18.01	17.40	19.96	23.15	22.89
6	---	---	---	---	---	---	16.56	18.01	17.58	20.15	23.50	23.00
7	---	---	---	---	---	---	16.46	18.12	17.73	20.29	23.54	23.07
8	---	---	---	---	---	---	16.57	18.28	17.94	20.33	23.63	23.14
9	---	---	---	---	---	---	16.70	18.32	18.03	20.46	23.85	23.18
10	---	---	---	---	---	---	16.69	18.40	18.09	20.54	23.83	23.24
11	---	---	---	---	---	---	16.29	18.11	18.22	20.74	23.72	23.32
12	---	---	---	---	---	---	16.03	17.85	18.13	20.84	22.64	23.38
13	---	---	---	---	---	---	15.96	17.93	18.21	21.03	22.06	23.43
14	---	---	---	---	---	---	16.06	17.34	18.26	21.12	21.86	23.47
15	---	---	---	---	---	---	16.14	16.84	18.36	21.12	21.81	23.70
16	---	---	---	---	---	---	15.93	16.61	18.49	21.33	21.88	23.69
17	---	---	---	---	---	---	15.82	16.71	18.62	21.45	21.74	23.64
18	---	---	---	---	---	---	15.84	16.73	18.72	21.55	21.80	23.70
19	---	---	---	---	---	---	16.03	16.91	18.83	21.74	21.70	23.78
20	---	---	---	---	---	---	16.09	17.04	19.01	21.84	21.72	23.81
21	---	---	---	---	---	---	16.19	17.03	19.35	21.98	21.59	23.85
22	---	---	---	---	---	---	16.34	17.16	19.24	22.04	21.61	23.80
23	---	---	---	---	---	---	16.49	17.27	19.27	22.20	21.74	23.48
24	---	---	---	---	---	---	16.69	17.37	19.20	22.40	21.80	23.00
25	---	---	---	---	---	---	16.78	17.52	19.30	22.67	21.88	22.85
26	---	---	---	---	---	---	16.91	17.61	19.43	22.76	21.86	22.75
27	---	---	---	---	---	---	17.01	17.64	19.47	22.81	21.98	22.77
28	---	---	---	---	---	---	17.30	17.81	19.61	22.70	22.08	22.82
29	---	---	---	---	---	---	17.42	17.84	19.77	22.76	22.20	22.85
30	---	---	---	---	---	---	17.48	17.45	19.68	22.85	22.38	22.82
31	---	---	---	---	---	---	---	17.01	---	22.89	22.52	---
e Instantaneous water level												
LOW	---	---	---	---	---	---	17.48	18.40	19.77	22.89	23.85	23.85
HIGH	---	---	---	---	---	---	15.82	16.61	17.04	19.60	21.59	22.57

WTR YR 1990 HIGH 15.82 LOW 23.85



GROUND-WATER LEVELS

HANCOCK COUNTY--Continued

441440068182701. Local number, HW 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 plogger by local observer twice a month.

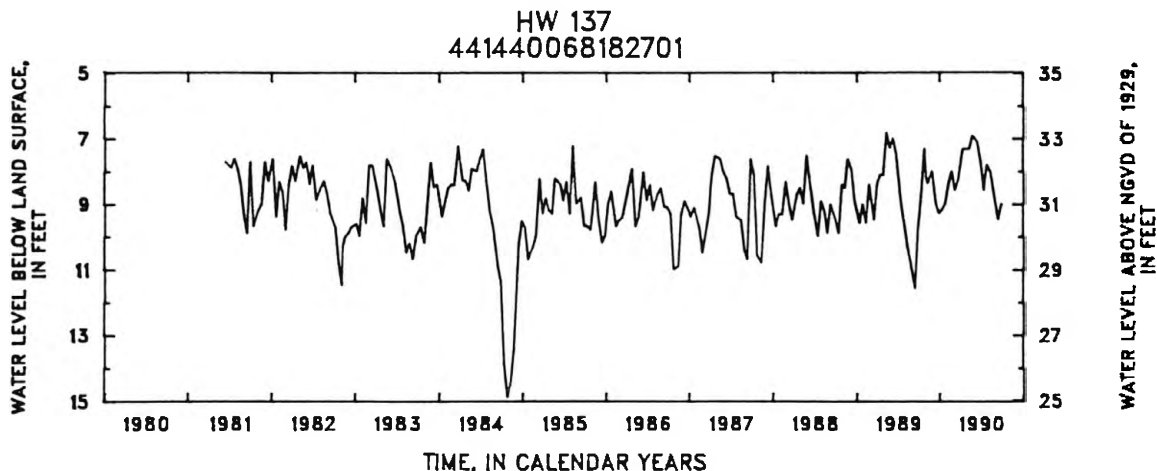
DATUM.--Elevation of land-surface datum is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

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, 6.8 ft below land-surface datum, May 11, 1989; lowest measured, 14.9 ft below land-surface datum, Oct. 25, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 12	8.7	Dec 14	9.0	Feb 08	8.4	Apr 12	7.3	Jun 14	7.1	Aug 09	8.0
26	7.3	28	9.3	22	8.0	10	7.3	28	7.7	23	8.6
Nov 02	8.2	Jan 11	9.2	Mar 08	8.6	24	6.9	Jul 12	8.6	Sep 13	9.5
09	8.4	25	9.0	22	8.3			26	7.8	27	9.0
29	8.0										



GROUND-WATER LEVELS

161

KENNEBEC COUNTY

441849069442001. Local number, KW 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.--Digital water-level recorder--60-minute punch before November 27; monthly measurement with chalked tape by USGS personnel after November 27.

DATUM.--Elevation of land-surface datum is 220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of shelter house floor, 0.07 ft below land-surface datum.

REMARKS.--Record lost between November 06 and November 27, doubtful gage-height record.

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

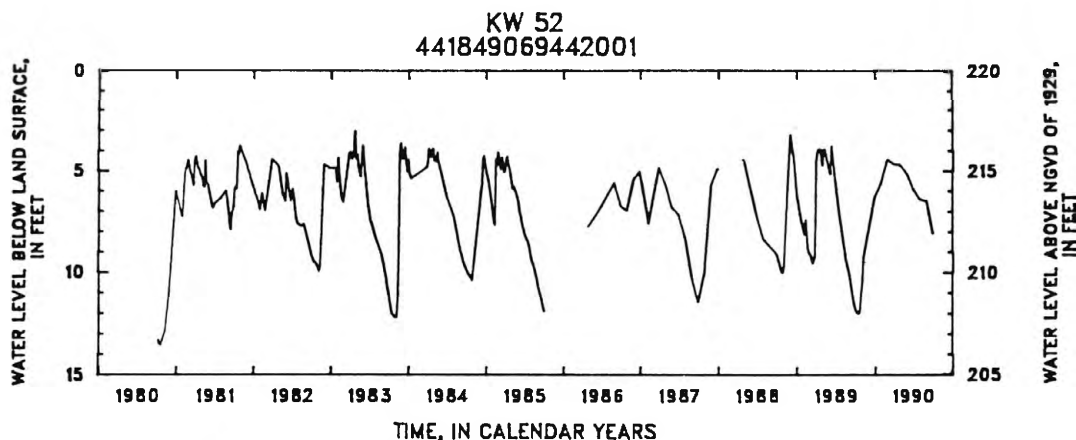
REVISED RECORDS.--WDR ME-82-1: 1978, 1979, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.91 ft below land-surface datum, May 12, 1989; lowest measured, 15.61 ft below land-surface datum, Nov. 28-30, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.90	10.41	---	---	---	---	---	---	---	---	---	---
2	11.92	10.19	---	---	---	---	---	---	---	---	---	---
3	11.94	9.95	---	---	---	---	---	---	---	---	---	---
4	11.96	9.68	---	---	---	---	---	---	---	---	---	---
5	11.97	9.32	---	---	---	---	---	---	---	---	---	---
6	11.98	---	---	---	---	---	---	---	---	---	---	---
7	11.99	---	---	---	---	---	---	---	---	---	---	---
8	12.00	---	---	---	---	---	---	---	---	---	---	---
9	12.02	---	---	---	---	---	---	---	---	---	---	---
10	12.03	---	---	---	---	---	---	---	---	---	---	---
11	12.05	---	---	---	---	---	---	---	---	---	---	---
12	12.06	---	---	---	---	---	---	---	---	---	---	---
13	12.06	---	---	---	---	---	---	---	---	---	---	---
14	12.06	---	---	---	---	---	---	---	---	---	---	---
15	12.06	---	---	---	---	---	---	---	---	---	---	---
16	12.06	---	---	---	---	---	---	---	---	---	---	---
17	12.05	---	---	---	---	---	---	---	---	---	---	---
18	12.04	---	---	---	---	---	---	---	---	---	---	---
19	12.00	---	---	---	---	---	---	---	---	---	---	---
20	11.96	---	---	---	---	---	---	---	---	---	---	---
21	11.69	---	---	---	---	---	---	---	---	---	---	---
22	11.43	---	---	---	---	---	---	---	---	---	---	---
23	11.31	---	---	---	---	---	---	---	---	---	---	---
24	11.20	---	---	---	---	---	---	---	---	---	---	---
25	11.10	---	---	e 5.65	---	---	---	---	---	---	---	---
26	11.00	---	---	---	e 4.44	---	e 4.72	---	---	---	---	---
27	10.89	---	e 6.35	---	---	---	---	---	---	---	---	---
28	10.79	---	---	---	---	---	---	---	e 5.95	---	---	e 8.13
29	10.71	---	---	---	---	---	---	---	---	---	---	---
30	10.62	---	---	---	---	e 4.69	---	---	---	e 6.46	---	---
31	10.51	---	---	---	---	---	---	e 5.20	---	---	e 6.54	---
e Instantaneous water level												
LOW	12.06	10.41	---	---	---	---	---	---	---	---	---	---
HIGH	10.51	9.32	---	---	---	---	---	---	---	---	---	---

WTR YR 1990 HIGH 4.44 LOW 12.06



GROUND-WATER LEVELS

KENNEBEC COUNTY--Continued

440918069564001. Local number, KW 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 before January 25; monthly measurement with chalked tape by USGS personnel after January 25.

DATUM.--Elevation of land-surface datum is 300 ft above National Geodetic Vertical Datum of 1929, from topographic map. 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 measured, 38.76 ft below land-surface datum, June 02, 1984; lowest measured, 51.57 ft below land-surface datum, Mar. 15, 1989.

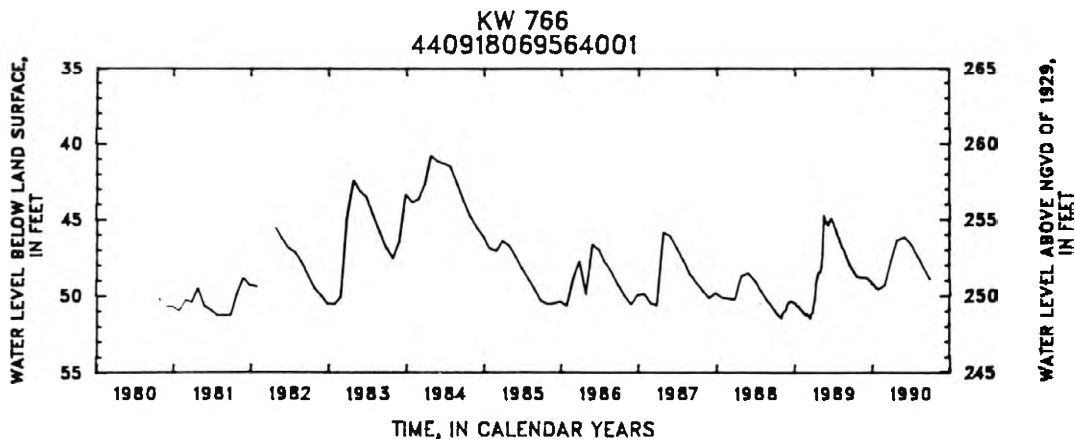
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.46	48.86	48.91	49.30	---	---	---	---	---	---	---	---
2	48.49	48.87	48.92	49.32	---	---	---	---	---	---	---	---
3	48.50	48.88	48.89	49.33	---	---	---	---	---	---	---	---
4	48.51	48.87	48.90	49.33	---	---	---	---	---	---	---	---
5	48.54	48.88	48.92	49.34	---	---	---	---	---	---	---	---
6	48.56	48.88	48.93	49.35	---	---	---	---	---	---	---	---
7	48.57	48.89	48.94	49.36	---	---	---	---	---	---	---	---
8	48.59	48.89	48.95	49.38	---	---	---	---	---	---	---	---
9	48.61	48.90	48.96	49.39	---	---	---	---	---	---	---	---
10	48.65	48.89	48.96	49.41	---	---	---	---	---	---	---	---
11	48.70	48.89	48.98	49.46	---	---	---	---	---	---	---	---
12	48.70	48.89	49.00	49.49	---	---	---	---	---	---	---	---
13	48.72	48.90	49.01	49.51	---	---	---	---	---	---	---	---
14	48.75	48.90	49.03	49.52	---	---	---	---	---	---	---	---
15	48.77	48.91	49.05	49.53	---	---	---	---	---	---	---	---
16	48.79	48.91	49.05	49.54	---	---	---	---	---	---	---	---
17	48.80	48.90	49.06	49.55	---	---	---	---	---	---	---	---
18	48.80	48.90	49.08	49.56	---	---	---	---	---	---	---	---
19	48.82	48.91	49.09	49.58	---	---	---	---	---	---	---	---
20	48.85	48.90	49.10	49.59	---	---	---	---	---	---	---	---
21	48.80	48.88	49.12	49.62	---	---	---	---	---	---	---	---
22	48.79	48.89	49.13	49.63	---	---	---	---	---	---	---	---
23	48.79	48.88	49.15	49.63	---	---	---	---	---	---	---	---
24	48.79	48.89	49.16	49.65	---	---	---	---	---	---	---	---
25	48.80	48.89	49.16	e 49.66	---	---	---	---	---	---	---	---
26	48.81	48.89	49.17	---	---	---	e 46.37	---	---	---	---	---
27	48.82	48.90	49.21	---	e 49.35	---	---	---	---	---	---	---
28	48.83	48.88	49.26	---	---	---	---	---	e 46.62	---	---	e 48.95
29	48.84	48.89	49.28	---	---	---	---	---	---	---	---	---
30	48.85	48.89	49.30	---	---	e 47.67	---	---	---	---	---	---
31	48.87	---	49.31	---	---	---	---	e 46.18	---	e 47.46	---	---

e Instantaneous water level

LOW	48.87	48.91	49.31	49.65	---	---	---	---	---	---	---	---
HIGH	48.46	48.86	48.89	49.30	---	---	---	---	---	---	---	---

WTR YR 1990 HIGH 46.18 LOW 49.65



GROUND-WATER LEVELS

163

KENNEBEC COUNTY--Continued

440810069553601. Local number, KW 872A.

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 before January 25; monthly measurement with chalked tape by USGS personnel after January 25.

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 of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum, which is 2.2 ft above the general land surface.

REMARKS.--Record lost between November 27 and January 25, doubtful gage-height record.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.47 ft below land-surface datum, May 12, 1989; lowest measured, 19.58 ft below land-surface datum, Sept. 18, 1989.

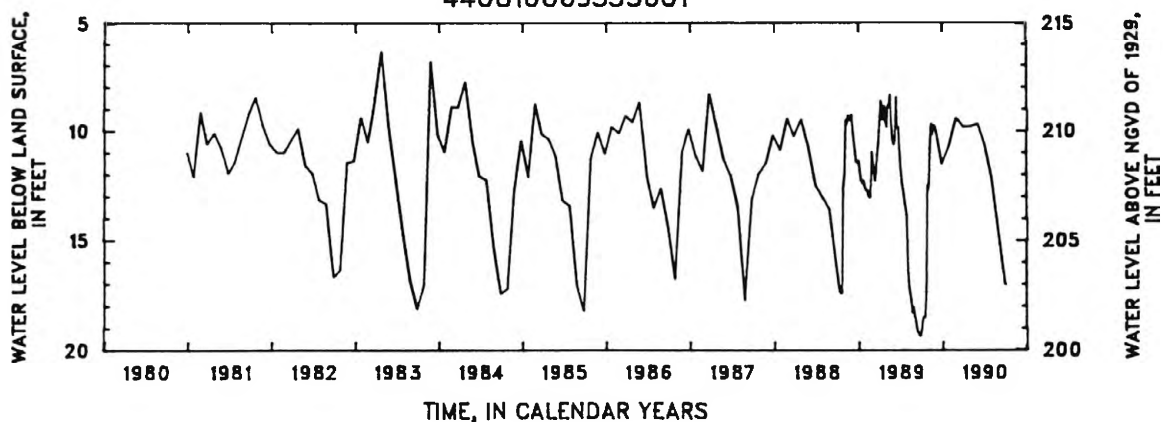
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.25	12.39	---	---	---	---	---	---	---	---	---	---
2	18.94	11.76	---	---	---	---	---	---	---	---	---	---
3	18.80	11.56	---	---	---	---	---	---	---	---	---	---
4	18.68	11.12	---	---	---	---	---	---	---	---	---	---
5	18.63	10.85	---	---	---	---	---	---	---	---	---	---
6	18.49	10.80	---	---	---	---	---	---	---	---	---	---
7	18.57	10.81	---	---	---	---	---	---	---	---	---	---
8	18.53	10.84	---	---	---	---	---	---	---	---	---	---
9	18.41	10.64	---	---	---	---	---	---	---	---	---	---
10	18.52	9.69	---	---	---	---	---	---	---	---	---	---
11	18.49	9.68	---	---	---	---	---	---	---	---	---	---
12	18.46	9.86	---	---	---	---	---	---	---	---	---	---
13	18.31	10.05	---	---	---	---	---	---	---	---	---	---
14	18.49	10.12	---	---	---	---	---	---	---	---	---	---
15	18.52	10.22	---	---	---	---	---	---	---	---	---	---
16	18.28	10.09	---	---	---	---	---	---	---	---	---	---
17	18.15	9.59	---	---	---	---	---	---	---	---	---	---
18	17.83	9.54	---	---	---	---	---	---	---	---	---	---
19	17.62	9.70	---	---	---	---	---	---	---	---	---	---
20	17.36	9.74	---	---	---	---	---	---	---	---	---	---
21	15.81	9.43	---	---	---	---	---	---	---	---	---	---
22	13.01	9.34	---	---	---	---	---	---	---	---	---	---
23	12.65	9.48	---	---	---	---	---	---	---	---	---	---
24	12.54	9.66	---	---	---	---	---	---	---	---	---	---
25	12.50	9.80	---	e 10.80	---	---	---	---	---	---	---	---
26	12.51	9.89	---	---	---	---	e 9.84	---	---	---	---	---
27	12.55	---	e 11.57	---	e 9.41	---	---	---	---	---	---	---
28	12.59	---	---	---	---	---	---	---	e 10.59	---	---	e 17.06
29	12.62	---	---	---	---	---	---	---	---	---	---	---
30	12.65	e 9.94	---	---	---	e 9.84	---	---	---	---	---	---
31	12.69	---	---	---	---	---	---	e 9.68	---	e 12.15	---	---

e Instantaneous water level

LOW	19.25	12.39	---	---	---	---	---	---	---	---	---	---
HIGH	12.50	9.34	---	---	---	---	---	---	---	---	---	---

WTR YR 1990 HIGH 9.34 LOW 19.25

KW 872A
440810069553601

GROUND-WATER LEVELS

KENNEBEC COUNTY--Continued

441533069452401. Local number, KW 881.

LOCATION.--Lat 44°15'33", long 69°45'24", Hydrologic Unit 01030003, on unimproved road, about 0.5 mi east of State Highway 8, in Augusta. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

INSTRUMENTATION.--Electronic water-level recorder--daily-mean values stored based on 24 hourly measurements.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 20 ft, screened 10 to 20 ft.

DATUM.--Elevation of land-surface datum is 210 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of pipe, at land-surface datum, which is 3.05 ft above the general land surface.

REMARKS.--Record lost between October 01 and January 18, doubtful gage-height record.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.73 ft below land-surface datum, Apr. 04, 1990; lowest measured, 7.73 ft below land-surface datum, Sept. 16, 1988.

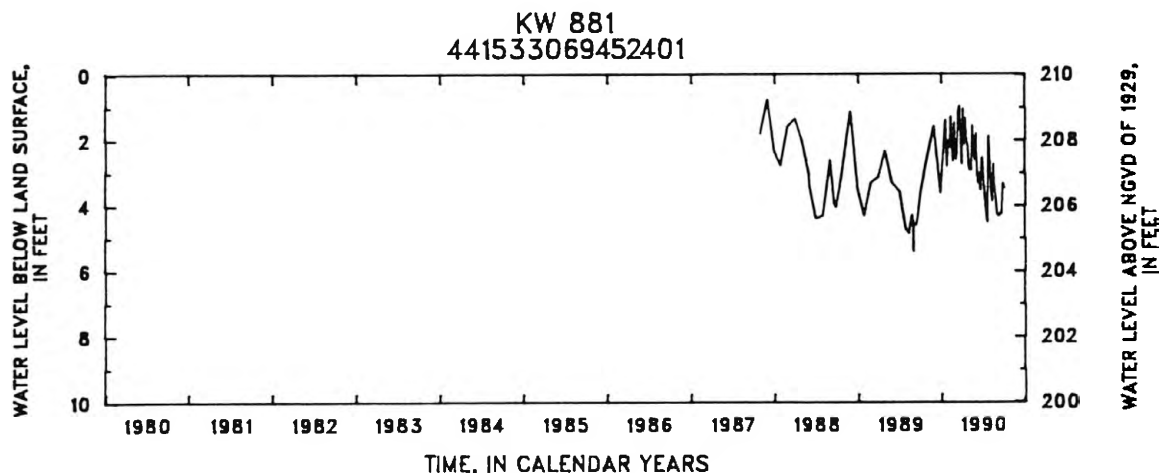
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	2.11	2.21	2.38	2.83	2.33	3.00	2.88	4.34
2	---	---	---	---	1.99	2.31	1.30	2.94	2.55	3.13	3.09	4.35
3	---	---	---	---	1.88	2.43	1.23	3.03	2.69	3.22	3.26	4.36
4	---	---	---	---	1.98	2.51	.73	3.07	2.84	3.30	3.42	4.37
5	---	---	---	---	2.25	2.62	1.04	2.94	3.04	3.43	3.57	4.35
6	---	---	---	---	2.36	2.70	1.41	2.80	3.17	3.54	3.67	4.38
7	---	---	---	---	2.49	2.79	1.73	2.88	3.25	3.66	3.71	4.37
8	---	---	---	---	2.59	2.85	2.04	2.95	3.32	3.73	3.77	4.39
9	---	---	---	---	2.38	2.83	2.24	2.94	3.36	3.75	3.82	4.38
10	---	---	---	---	1.29	2.39	2.16	2.94	3.34	3.84	3.90	4.35
11	---	---	---	---	1.17	1.60	.82	1.04	2.93	3.96	2.38	4.38
12	---	---	---	---	1.44	1.30	1.23	1.76	2.55	4.04	1.51	4.39
13	---	---	---	---	1.68	1.23	1.70	1.55	2.71	4.12	2.16	4.39
14	---	---	---	---	2.05	1.26	1.95	.96	2.85	4.17	2.49	4.37
15	---	---	---	---	2.22	1.12	1.33	1.56	3.02	4.25	2.74	4.27
16	---	---	---	---	2.23	1.17	.95	1.90	3.16	4.31	2.94	4.28
17	---	---	---	---	2.40	1.10	1.16	2.11	3.26	4.39	3.08	4.34
18	---	---	---	e 1.39	2.52	.80	1.38	1.85	3.32	4.43	3.19	4.39
19	---	---	---	1.31	2.45	1.17	1.80	2.00	3.45	4.49	3.35	4.40
20	---	---	---	1.76	2.67	.96	1.96	2.15	3.55	4.54	3.46	4.28
21	---	---	---	2.16	2.71	.76	1.31	2.27	3.60	4.55	3.53	4.28
22	---	---	---	2.38	2.58	1.19	1.29	2.32	3.66	4.59	3.62	4.24
23	---	---	---	2.61	1.13	1.36	1.73	2.41	3.59	4.51	3.68	3.35
24	---	---	---	2.73	1.16	1.75	2.03	2.51	3.05	4.26	3.77	3.24
25	---	---	---	2.77	1.46	1.98	2.20	2.63	2.57	1.88	3.81	3.33
26	e 2.63	---	---	1.72	1.72	2.16	2.36	2.71	1.81	1.75	3.88	3.43
27	---	---	e 3.65	1.30	1.83	2.39	2.47	2.83	2.26	1.79	3.93	3.52
28	---	---	---	1.37	2.05	2.53	2.64	2.95	2.57	1.46	3.98	3.58
29	---	e 1.57	---	1.41	---	2.70	2.76	3.03	2.76	2.01	4.07	3.61
30	---	---	---	1.62	---	2.75	2.80	1.67	2.86	2.39	4.21	3.46
31	---	---	---	2.01	---	2.72	---	1.85	---	2.65	4.29	---

e Instantaneous water level

LOW	---	---	---	2.77	2.71	2.85	2.80	3.07	3.66	4.59	4.29	4.40
HIGH	---	---	---	1.30	1.13	.76	.73	.96	1.81	1.46	1.51	3.24

WTR YR 1990 HIGH .73 LOW 4.59



GROUND-WATER LEVELS

165

KENNEBEC COUNTY--Continued

442233069490701. Local number, KW 882.

LOCATION.--Lat 44°22'33", long 69°49'07", Hydrologic Unit 01030003, about 4.5 mi northwest of Augusta. Owner:

U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 16 ft, screened depth 11 to 16 ft, screen slot size 0.018 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel before April 05; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 05.

DATUM.--Elevation of land-surface datum is 208 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.03 ft above land-surface datum.

REMARKS.--Record lost between June 11 and June 28, doubtful gage-height record.

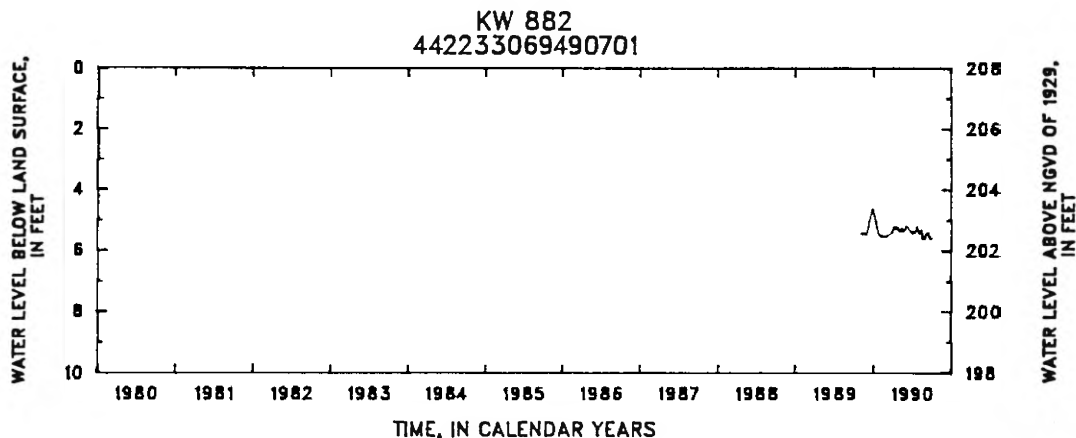
PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.60 ft below land-surface datum, Dec. 27, 1989; lowest measured, 5.69 ft below land-surface datum, Aug. 23, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	5.37	5.33	5.43	5.35	5.58
2	---	e 5.47	---	---	---	---	---	5.41	5.31	5.46	5.41	5.51
3	---	---	---	---	---	---	---	5.45	5.25	5.44	5.43	5.51
4	---	---	---	---	---	---	---	5.43	5.20	5.43	5.44	5.52
5	---	---	---	---	---	---	5.29	5.32	5.19	5.44	5.45	5.47
6	---	---	---	---	---	---	5.29	5.34	5.09	5.43	5.44	5.46
7	---	---	---	---	---	---	5.29	5.43	5.03	5.43	5.42	5.41
8	---	---	---	---	---	---	5.33	5.51	5.01	5.42	5.46	5.46
9	---	---	---	---	---	---	5.35	5.46	5.02	5.35	5.44	5.46
10	---	---	---	---	---	---	5.30	5.41	4.94	5.39	5.44	5.44
11	---	---	---	---	---	---	5.16	5.30	---	5.41	5.30	5.57
12	---	---	---	---	---	---	5.25	5.40	---	5.42	5.26	5.60
13	---	---	---	---	---	---	5.32	5.32	---	5.42	5.28	5.56
14	---	---	---	---	---	---	5.31	5.19	---	5.41	5.28	5.51
15	---	---	---	---	---	---	5.21	5.26	---	5.40	5.32	5.42
16	---	---	---	---	---	---	5.16	5.28	---	5.41	5.41	5.44
17	---	---	---	---	---	---	5.17	5.28	---	5.44	5.55	5.48
18	---	---	---	---	---	---	5.26	5.25	---	5.44	5.57	5.57
19	---	---	---	---	---	---	5.29	5.28	---	5.42	5.59	5.58
20	---	---	---	---	---	---	5.26	5.33	---	5.39	5.65	5.54
21	---	---	---	---	---	---	5.22	5.32	---	5.39	5.62	5.60
22	---	---	---	---	---	---	5.24	5.30	---	5.42	5.64	5.59
23	---	---	---	---	---	---	5.26	5.33	---	5.34	5.69	5.47
24	---	---	---	---	---	---	5.31	5.36	---	5.29	5.64	5.59
25	---	---	---	e 5.52	---	---	5.30	5.39	---	5.22	5.59	5.62
26	---	---	---	---	e 5.57	---	5.31	5.36	---	5.27	5.56	5.62
27	---	---	e 4.60	---	---	---	5.33	5.37	---	5.28	5.54	5.63
28	---	---	---	---	---	---	5.37	5.37	e 5.41	5.25	5.59	5.63
29	---	e 5.46	---	---	---	---	5.39	5.37	5.44	5.29	5.67	5.64
30	---	---	---	---	---	e 5.42	5.38	5.24	5.39	5.33	5.68	5.60
31	---	---	---	---	---	---	---	5.31	---	5.34	5.67	---
e Instantaneous water level												
LOW	---	---	---	---	---	---	5.39	5.51	5.39	5.46	5.69	5.64
HIGH	---	---	---	---	---	---	5.16	5.19	5.01	5.22	5.26	5.41

WTR YR 1990 HIGH 4.60 LOW 5.69



GROUND-WATER LEVELS

OXFORD COUNTY

444637070552301. Local number, OW 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.--Weekly measurement with chalked tape by local observer.

DATUM.--Elevation of land-surface datum is 1,450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of concrete pipe, 1.8 ft above land-surface datum.

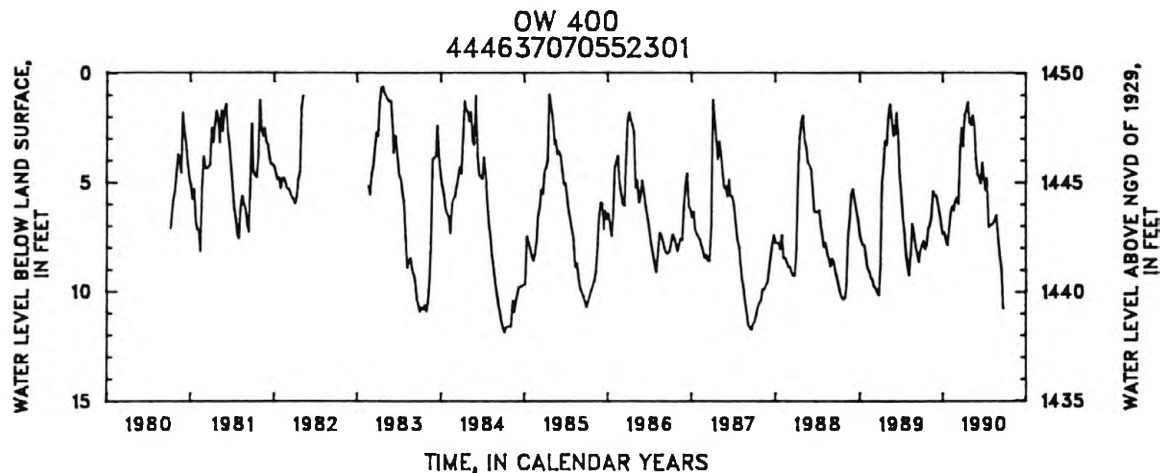
REMARKS.--Prior to 1973 well was used for domestic supply.

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. 09, 16, 23, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 01	7.6	Dec 03	5.6	Feb 04	6.4	Apr 01	3.4	Jun 03	4.7	Aug 12	6.9
08	7.7	10	6.0	11	6.1	08	1.9	10	4.8	26	6.5
10	7.9	17	6.4	18	6.3	15	1.7	17	5.1	26	7.6
15	8.1	31	7.4	25	5.8	22	1.3	24	4.1	09	8.4
22	7.9	Jan 07	7.3	Mar 04	5.7	28	2.3	Jul 08	5.4	16	9.0
29	7.1	14	7.7	11	6.0	May 06	2.4	15	4.8	23	10.8
Nov 05	7.0	21	7.9	18	3.7	13	1.9	22	7.1		
12	6.6	28	7.2	25	2.5	20	2.4	29	7.0		
19	5.4					27	3.9				
26	5.6										



GROUND-WATER LEVELS

167

OXFORD COUNTY--Continued

443647070552302. Local number, OW 400A.

LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 23.6 ft, screened depth 18.6 to 23.6 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Weekly measurement with chalked tape by local observer.

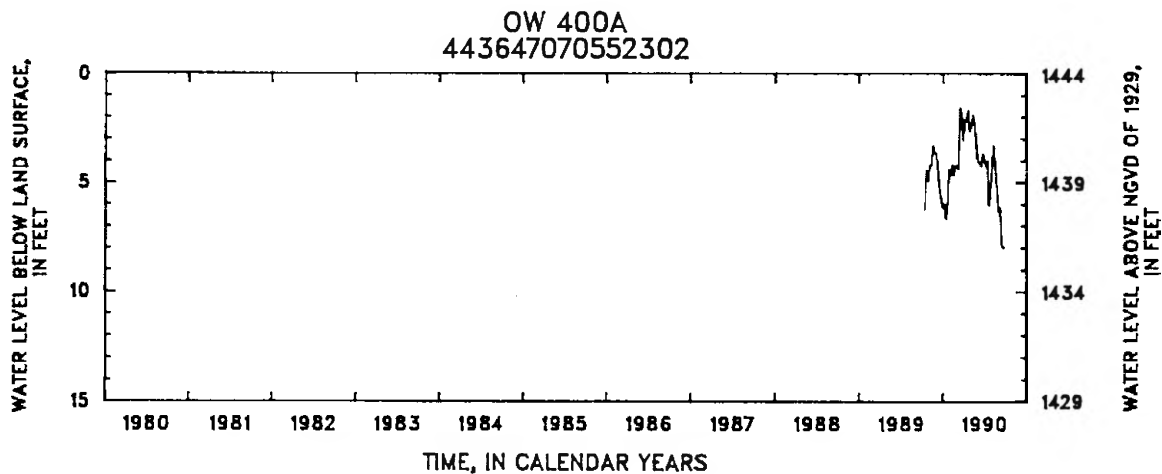
DATUM.--Elevation of land-surface datum is 1,444 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.60 ft below land-surface datum, Mar. 18, 1990; lowest measured, 8.00 ft below land-surface datum, Sept. 23, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 10	6.21	Dec 03	3.70	Feb 04	4.70	Apr 01	3.10	Jun 03	4.10	Aug 12	3.30
15	6.30	10	4.40	11	4.20	08	2.10	10	4.10	26	5.20
22	4.40	17	5.30	18	4.70	15	2.20	17	4.30	Sep 02	6.40
29	5.00	31	6.20	25	4.20	22	1.70	24	3.70	09	6.20
Nov 05	4.20	Jan 07	6.00	Mar 04	4.30	28	2.70	Jul 08	4.30	16	7.90
12	4.20	14	6.70	11	4.40	May 06	2.40	15	4.00	23	8.00
19	3.30	21	6.00	18	1.60	13	1.90	22	6.10		
26	3.70	28	4.40	25	2.00	20	2.40	29	5.60		
						27	3.30				



GROUND-WATER LEVELS

OXFORD COUNTY--Continued

440642070583401. Local number, OW 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, screened depth 35 to 40 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

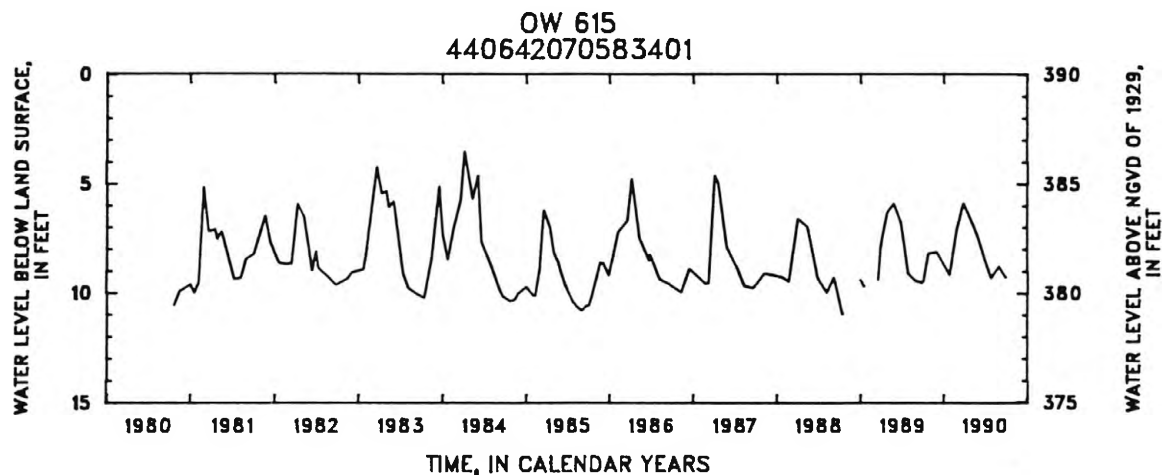
DATUM.--Elevation of land-surface datum is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum, which is 2.9 ft above the general land surface.

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. 01, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 03	9.48	Nov 30	8.12	Feb 27	7.09	Apr 26	6.61	Jun 27	8.44	Aug 31	8.80
24	8.18	Jan 26	9.20	Mar 28	5.88	May 29	7.47	Jul 27	9.35	Sep 28	9.29



GROUND-WATER LEVELS

169

OXFORD COUNTY--Continued

440642070583402. Local number, OW 615A.

LOCATION.--Lat 44°06'42", long 70°58'34", Hydrologic Unit 01060002, at the intersection of State Highway 113 and the 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 2 in., depth 32 ft, screened depth 26.6 to 31.6 ft, screen slot size 0.010 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel before April 03; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 03.

DATUM.--Elevation of land-surface datum is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.48 ft above land-surface datum.

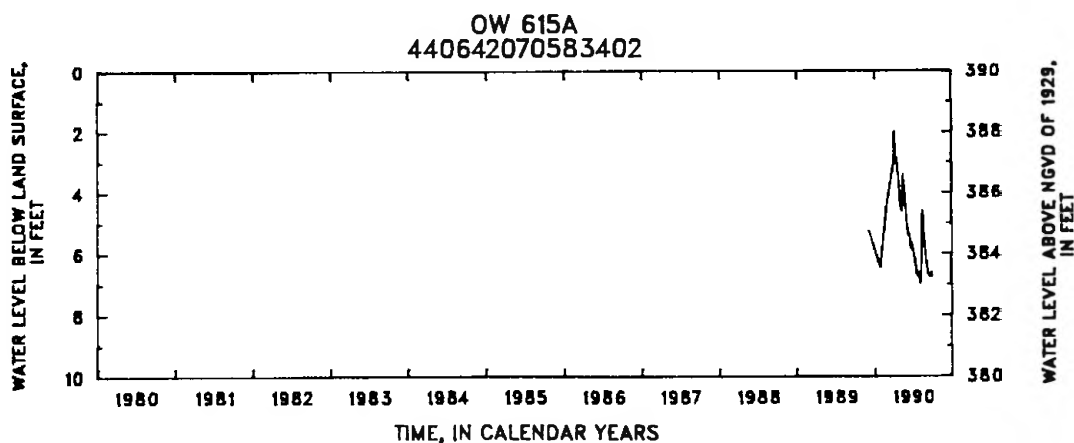
PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.00 ft below land-surface datum, Apr. 05, 1990; lowest measured, 7.08 ft below land-surface datum, Aug. 07, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	4.36	4.91	5.87	6.88	6.21
2	---	---	---	---	---	---	---	4.41	5.01	5.89	6.92	6.26
3	---	---	---	---	---	---	2.90	4.52	5.12	5.94	6.95	6.33
4	---	---	---	---	---	---	2.07	4.60	5.19	5.99	7.01	6.40
5	---	---	---	---	---	---	2.00	4.60	5.29	6.06	7.05	6.45
6	---	---	---	---	---	---	2.24	4.47	5.37	6.10	7.07	6.50
7	---	---	---	---	---	---	2.46	4.53	5.43	6.14	7.08	6.54
8	---	---	---	---	---	---	2.67	4.54	5.53	6.19	6.72	6.61
9	---	---	---	---	---	---	2.85	4.58	5.58	6.23	6.45	6.67
10	---	---	---	---	---	---	2.91	4.66	5.47	6.29	6.32	6.70
11	---	---	---	---	---	---	2.38	3.98	5.30	6.34	5.58	6.74
12	---	---	---	---	---	---	2.55	3.90	5.14	6.38	4.77	6.77
13	---	---	---	---	---	---	2.80	3.91	5.17	6.44	4.62	6.81
14	---	---	---	---	---	---	2.95	3.26	5.28	6.50	4.54	6.83
15	---	---	---	---	---	---	2.90	3.40	5.42	6.54	4.59	6.79
16	---	---	---	---	---	---	2.85	3.59	5.56	6.59	4.71	6.75
17	---	---	---	---	---	---	2.95	3.72	5.65	6.62	4.84	6.74
18	---	---	---	---	---	---	3.05	3.52	5.72	6.69	4.95	6.74
19	---	---	---	---	---	---	3.25	3.65	5.81	6.74	5.09	6.77
20	---	---	---	---	---	---	3.37	3.84	5.88	6.79	5.23	6.81
21	---	---	---	---	---	---	3.39	3.82	5.95	6.82	5.33	6.83
22	---	---	---	---	---	---	3.42	3.81	5.95	6.86	5.43	6.84
23	---	---	---	---	---	---	3.56	3.96	5.90	6.88	5.53	6.80
24	---	---	---	---	---	---	3.71	4.09	5.74	6.78	5.63	6.72
25	---	---	---	---	---	---	3.82	4.23	5.68	6.69	5.70	6.69
26	---	---	---	e 6.50	---	---	3.92	4.37	5.69	6.66	5.78	6.69
27	---	---	---	---	e 4.38	---	4.01	4.52	5.40	6.65	5.84	6.70
28	---	---	e 6.51	---	---	e 3.15	4.14	4.65	5.60	6.66	5.90	6.73
29	---	---	---	---	---	---	4.28	4.76	5.87	6.69	5.99	6.75
30	---	e 5.28	---	---	---	---	4.34	4.74	5.88	6.73	6.06	6.78
31	---	---	---	---	---	---	---	4.78	---	6.82	6.14	---
e Instantaneous water level												
LOW	---	---	---	---	---	---	4.34	4.78	5.95	6.88	7.08	6.84
HIGH	---	---	---	---	---	---	2.00	3.26	4.91	5.87	4.54	6.21

WTR YR 1990 HIGH 2.00 LOW 7.08



GROUND-WATER LEVELS

OXFORD COUNTY--Continued

442515070481002. Local number, OW 616A.

LOCATION.--Lat 44°25'15", long 70°48'10", 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 2 in., depth 27 ft; screened depth 16.9 to 21.9 ft, screen slot size 0.008 in; screened depth 21.9 to 26.9 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel before April 03; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 03.

DATUM.--Elevation of land-surface datum is 650 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.05 ft above land-surface datum.

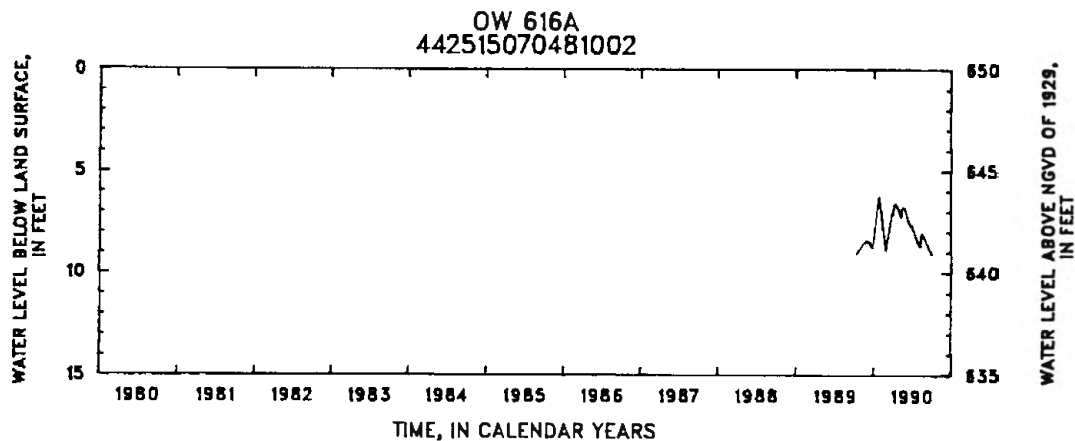
PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.21 ft below land-surface datum, Jan. 26, 1990; lowest measured, 9.11 ft below land-surface datum, Sept. 30, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	7.00	7.03	7.75	8.62	8.37
2	---	---	---	---	---	---	---	7.04	7.06	7.79	8.64	8.41
3	---	---	---	---	---	---	7.18	7.08	7.08	7.82	8.66	8.45
4	---	---	---	---	---	---	7.07	7.11	7.11	7.83	8.69	8.47
5	---	---	---	---	---	---	6.86	7.09	7.16	7.87	8.71	8.49
6	---	---	---	---	---	---	6.76	7.15	7.19	7.90	8.74	8.52
7	---	---	---	---	---	---	6.65	7.20	7.24	7.93	8.78	8.54
8	---	---	---	---	---	---	6.63	7.23	7.28	7.97	8.60	8.60
9	---	---	---	---	---	---	6.63	7.26	7.30	7.97	8.63	8.62
10	e 9.05	---	---	---	---	---	6.60	7.28	7.34	8.00	8.70	8.65
11	---	---	---	---	---	---	6.59	6.90	7.37	8.04	8.18	8.66
12	---	---	---	---	---	---	6.60	6.98	7.38	8.07	8.29	8.69
13	---	---	---	---	---	---	6.59	6.96	7.43	8.10	8.37	8.73
14	---	---	---	---	---	---	6.59	6.84	7.48	8.11	7.87	8.73
15	---	---	---	---	---	---	6.59	6.79	7.51	8.14	8.08	8.69
16	---	---	---	---	---	---	6.64	6.74	7.55	8.17	8.13	8.73
17	---	---	---	---	---	---	6.65	6.71	7.57	8.23	8.08	8.79
18	---	---	---	---	---	---	6.70	6.70	7.57	8.24	8.07	8.82
19	---	---	---	---	---	---	6.72	6.72	7.62	8.26	8.07	8.85
20	---	---	---	---	---	---	6.72	6.78	7.65	8.29	8.09	8.87
21	---	---	---	---	---	---	6.74	6.80	7.69	8.32	8.10	8.89
22	---	---	---	---	---	---	6.77	6.80	7.73	8.35	8.11	8.91
23	---	---	---	---	---	---	6.81	6.78	7.65	8.37	8.14	8.90
24	e 8.80	---	---	---	---	---	6.83	6.76	7.53	8.39	8.17	8.94
25	---	---	---	---	---	---	6.85	6.80	7.65	8.42	8.22	8.97
26	---	---	---	e 6.21	---	---	6.87	6.81	7.71	8.45	8.24	9.00
27	---	---	---	---	e 8.93	---	6.88	6.84	7.68	8.50	8.26	9.03
28	---	---	e 8.77	---	---	---	6.91	6.88	7.65	8.52	8.28	9.07
29	---	---	---	---	---	e 7.03	6.97	6.91	7.68	8.55	8.31	9.09
30	e 8.35	---	---	---	---	---	6.99	6.91	7.70	8.58	8.34	9.11
31	---	---	---	---	---	---	---	6.97	---	8.59	8.36	---
e Instantaneous water level												
LOW	---	---	---	---	---	---	7.07	7.28	7.73	8.59	8.78	9.11
HIGH	---	---	---	---	---	---	6.59	6.70	7.03	7.75	7.87	8.37

WTR YR 1990 HIGH 6.21 LOW 9.11



GROUND-WATER LEVELS

171

OXFORD COUNTY--Continued

440823070291501. Local number, OW 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 ft above National Geodetic Vertical Datum of 1929, from topographic map. 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.

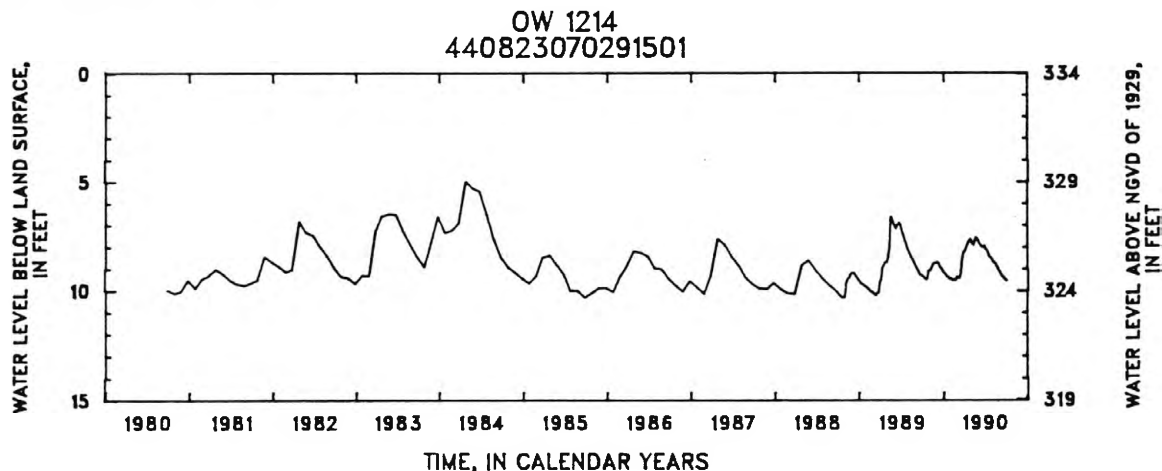
REVISED RECORDS.--WDR ME-82-1: 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.07 ft below land-surface datum, June 03, 1984; lowest measured, 10.37 ft below land-surface datum, Oct. 20-22, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.38	9.07	8.72	9.21	9.47	9.43	8.24	7.73	7.76	8.07	8.61	9.14
2	9.39	9.07	8.73	9.21	9.49	9.43	8.24	7.74	7.78	8.09	8.63	9.15
3	9.39	9.07	8.72	9.23	9.52	9.43	8.24	7.82	7.79	8.10	8.67	9.18
4	9.39	9.07	8.72	9.24	9.52	9.43	8.20	7.84	7.80	8.11	8.69	9.19
5	9.41	9.06	8.74	9.25	9.54	9.44	8.14	7.84	7.86	8.14	8.71	9.21
6	9.42	9.04	8.76	9.28	9.55	9.45	8.10	7.85	7.87	8.15	8.73	9.23
7	9.42	9.03	8.78	9.30	9.55	9.45	8.07	7.87	7.88	8.17	8.74	9.25
8	9.45	9.02	8.79	9.31	9.57	9.46	8.04	7.90	7.91	8.18	8.74	9.29
9	9.47	8.97	8.79	9.31	9.57	9.46	8.02	7.92	7.92	8.19	8.73	9.30
10	9.48	8.95	8.82	9.31	9.58	9.47	8.00	7.93	7.92	8.19	8.74	9.31
11	9.49	8.93	8.85	9.33	9.55	9.47	7.97	7.91	7.93	8.21	8.75	9.33
12	9.49	8.91	8.90	9.34	9.54	9.43	7.95	7.89	7.95	8.23	8.75	9.34
13	9.49	8.88	8.93	9.36	9.53	9.36	7.92	7.84	7.97	8.26	8.77	9.35
14	9.51	8.81	8.93	9.37	9.52	9.31	7.89	7.78	7.99	8.28	8.77	9.37
15	9.52	8.79	8.95	9.39	9.52	9.26	7.86	7.72	8.00	8.33	8.79	9.38
16	9.52	8.77	8.96	9.40	9.52	9.21	7.84	7.66	8.02	8.37	8.80	9.38
17	9.53	8.76	8.97	9.41	9.53	9.08	7.80	7.62	8.03	8.41	8.82	9.40
18	9.53	8.76	9.01	9.41	9.55	8.93	7.78	7.60	8.04	8.43	8.85	9.42
19	9.53	8.76	9.03	9.42	9.55	8.78	7.78	7.57	8.05	8.44	8.89	9.43
20	9.50	8.74	9.03	9.42	9.57	8.69	7.75	7.57	8.02	8.47	8.91	9.45
21	9.43	8.73	9.05	9.44	9.59	8.59	7.73	7.57	7.98	8.48	8.93	9.47
22	9.32	8.73	9.06	9.46	9.59	8.50	7.71	7.57	7.98	8.50	8.95	9.48
23	9.23	8.73	9.08	9.48	9.59	8.44	7.71	7.58	7.98	8.52	8.96	9.48
24	9.19	8.73	9.08	9.49	9.51	8.40	7.71	7.60	7.98	8.52	8.98	9.49
25	9.12	8.73	9.09	9.51	9.47	8.35	7.69	7.62	7.98	8.52	9.00	9.51
26	9.10	8.72	9.09	9.52	9.47	8.30	7.68	7.64	7.99	8.54	9.00	9.52
27	9.09	8.72	9.15	9.49	9.45	8.27	7.68	7.65	8.00	8.55	9.02	9.54
28	9.08	8.71	9.16	9.46	9.43	8.25	7.68	7.70	8.02	8.56	9.04	9.55
29	9.08	8.71	9.17	9.45	---	8.24	7.72	7.73	8.04	8.59	9.04	9.55
30	9.08	8.71	9.19	9.43	---	8.24	7.72	7.72	8.04	8.60	9.06	9.56
31	9.08	---	9.21	9.46	---	8.24	---	7.73	---	8.61	9.10	---
LOW	9.53	9.07	9.21	9.52	9.59	9.47	8.24	7.93	8.05	8.61	9.10	9.56
HIGH	9.08	8.71	8.72	9.21	9.43	8.24	7.68	7.57	7.76	8.07	8.61	9.14

WTR YR 1990 HIGH 7.57 LOW 9.59



GROUND-WATER LEVELS

PENOBSCOT COUNTY

445319068560101. Local number, PEW 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 of 1929, from topographic map. Measuring point: Floor of fiberglass shelter, 0.36 ft above land-surface datum, which is 4.3 ft above the general land surface.

REMARKS.--Record lost between May 09 and July 17, doubtful gage-height record; record lost between September 19 and September 30 because recorder stopped.

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

REVISED RECORDS.--WDR 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 measured, 14.92 ft below land-surface datum, Apr. 26, 1983; lowest measured, 26.93 ft below land-surface datum, Sept. 30, 1987.

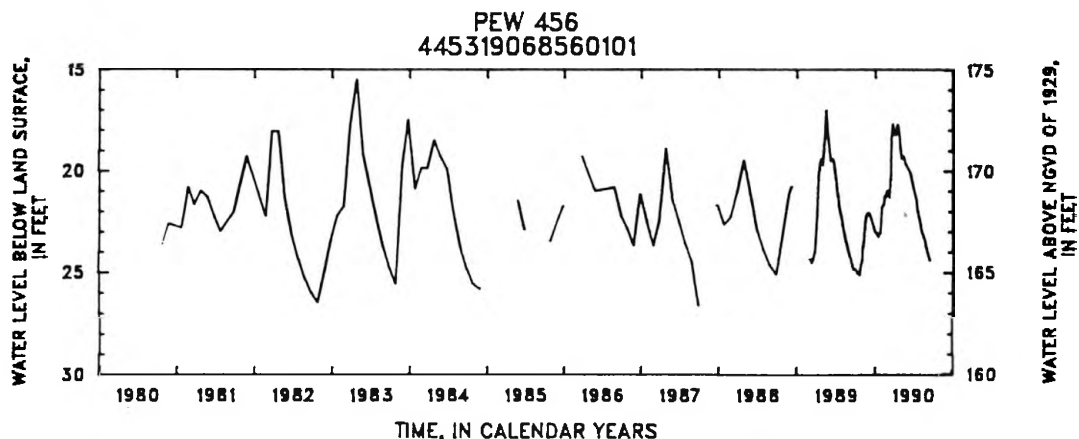
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.80	24.43	22.09	22.99	21.76	21.04	18.35	18.94	---	---	22.60	23.89
2	24.92	24.24	22.11	23.04	21.74	21.04	18.39	19.04	---	e 20.90	22.68	23.93
3	24.93	24.07	22.05	23.06	21.76	21.07	18.45	19.22	---	---	22.73	23.98
4	24.95	23.93	22.07	23.06	21.72	21.09	18.42	19.34	---	---	22.79	24.03
5	24.97	23.76	22.12	23.08	21.72	21.16	18.13	19.43	---	---	22.85	24.07
6	24.99	23.59	22.17	23.10	21.71	21.22	17.96	19.46	---	---	22.81	24.10
7	25.01	23.48	22.20	23.11	21.73	21.27	17.94	19.56	---	---	22.86	24.14
8	25.03	23.39	22.26	23.12	21.75	21.29	18.02	19.67	---	---	23.01	24.18
9	25.05	23.29	22.27	23.15	21.73	21.30	18.16	---	---	---	23.06	24.23
10	25.08	23.14	22.28	23.15	21.64	21.33	18.24	---	---	---	23.12	24.27
11	25.09	22.95	22.30	23.17	21.41	21.26	18.15	---	---	---	23.15	24.31
12	25.10	22.82	22.34	23.16	21.28	21.05	17.96	---	---	---	23.05	24.35
13	25.10	22.74	22.36	23.19	21.23	20.77	17.87	---	---	---	23.02	24.39
14	25.11	22.62	22.40	23.24	21.21	20.59	17.87	---	---	---	23.06	24.42
15	25.12	22.54	22.44	23.27	21.23	20.43	17.92	e 19.30	---	e 21.45	23.12	24.45
16	25.12	22.47	22.45	23.27	21.17	20.17	17.76	---	e 20.12	---	23.18	24.49
17	25.14	22.41	22.50	23.29	21.18	19.82	17.64	---	---	---	23.23	24.53
18	25.15	22.35	22.57	23.26	21.26	19.07	17.58	---	---	21.86	23.26	24.82
19	25.16	22.27	22.61	23.18	21.20	18.47	17.70	---	---	21.93	23.31	---
20	25.17	22.18	22.63	23.09	21.27	18.32	17.76	---	---	21.99	23.36	---
21	25.11	22.12	22.66	23.05	21.32	18.05	17.80	---	---	22.07	23.41	---
22	24.90	22.16	22.71	23.04	21.29	17.90	17.87	---	---	22.15	23.45	---
23	24.80	22.16	22.76	23.04	21.18	17.71	17.98	---	---	22.21	23.49	---
24	24.72	22.14	22.78	23.05	20.98	17.73	18.13	---	---	22.26	23.54	---
25	24.66	22.12	22.78	23.06	20.97	17.68	18.25	e 19.67	---	22.28	23.59	---
26	24.62	22.09	22.81	22.99	21.01	17.70	18.34	---	---	22.29	23.64	---
27	24.58	22.11	22.88	22.54	20.99	17.83	18.45	---	---	22.32	23.67	---
28	24.55	22.08	22.92	22.15	21.01	17.92	18.59	---	---	22.36	23.71	---
29	24.53	22.09	22.96	21.97	---	18.08	18.76	---	---	22.43	23.74	---
30	24.51	22.07	22.99	21.81	---	18.20	18.86	---	---	22.48	23.80	---
31	24.50	---	23.01	21.82	---	18.26	---	---	---	22.54	23.85	---

e Instantaneous water level

LOW	25.17	24.43	23.01	23.29	21.76	21.33	18.86	19.67	---	22.54	23.85	24.82
HIGH	24.50	22.07	22.05	21.81	20.97	17.68	17.58	18.94	---	21.86	22.60	23.89

WTR YR 1990 HIGH 17.58 LOW 25.17



GROUND-WATER LEVELS

173

PISCATAQUIS COUNTY

452829069322101. Local number, PIW 2.

LOCATION.--Lat 45°28'29", long 69°32'21", Hydrologic Unit 01030001, approximately 1.0 mi 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 ft, screened depth 14 to 24 feet, screen slot size 0.006 in.

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

DATUM.--Elevation of land-surface datum is 1,087 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.24 ft above land-surface datum.

REMARKS.--Record lost between March 16 and May 09, doubtful gage-height record; well also sampled for water quality.

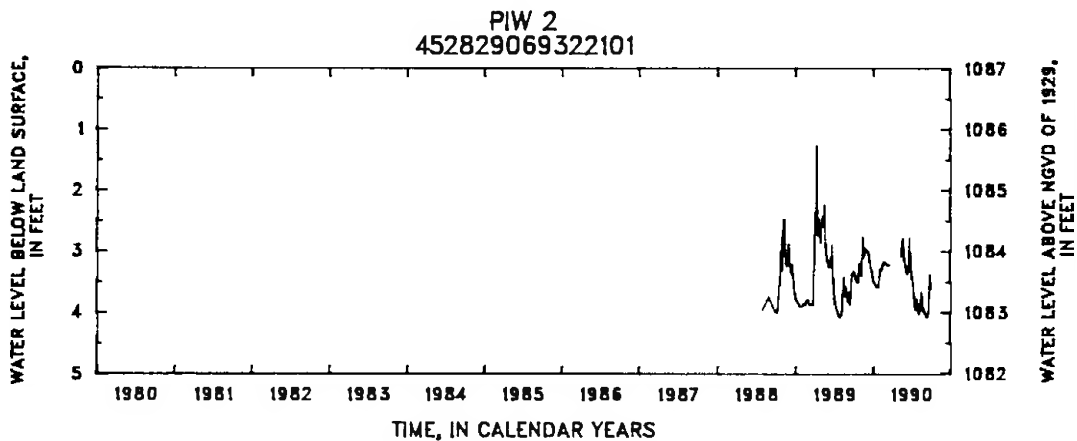
PERIOD OF RECORD.--July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.27 ft below land-surface datum, Apr. 10, 1989; lowest measured, 4.13 ft below land-surface datum, Aug. 06, 1988, and Aug. 04-05, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.38	3.41	3.04	3.49	3.30	3.22	---	---	3.29	3.40	4.01	3.99
2	3.43	3.42	3.04	3.43	3.31	3.23	---	---	3.35	3.15	4.03	4.01
3	3.42	3.42	3.03	3.49	3.31	3.23	---	---	3.41	3.21	4.05	4.04
4	3.40	3.42	3.00	3.52	3.32	3.23	---	---	3.34	3.32	4.06	4.06
5	3.40	3.42	3.00	3.53	3.32	3.23	---	---	3.34	3.42	4.05	4.07
6	3.42	3.42	3.00	3.53	3.32	3.23	---	---	3.40	3.50	4.06	4.07
7	3.44	3.43	3.00	3.54	3.32	3.23	---	---	3.44	3.58	4.06	4.08
8	3.46	3.43	3.02	3.55	3.32	3.23	---	---	3.45	3.65	3.99	4.08
9	3.47	3.32	3.04	3.57	3.32	3.23	---	---	3.47	3.69	3.97	4.09
10	3.50	2.78	3.06	3.58	3.32	3.23	---	3.10	3.40	3.70	3.97	4.09
11	3.54	2.88	3.09	3.59	3.21	3.23	---	2.53	2.93	3.75	3.78	4.09
12	3.53	3.01	3.12	3.60	3.18	3.23	---	2.53	2.89	3.80	3.55	4.09
13	3.53	3.08	3.17	3.60	3.18	3.23	---	2.77	3.09	3.83	3.64	4.09
14	3.53	3.12	3.20	3.60	3.18	3.23	---	2.83	3.23	3.87	3.69	4.09
15	3.53	3.12	3.22	3.60	3.18	3.23	---	2.88	3.34	3.91	3.68	4.08
16	3.53	3.07	3.23	3.60	3.18	---	---	2.98	3.43	3.94	3.70	3.98
17	3.53	2.47	3.23	3.60	3.18	---	---	3.03	3.48	3.97	3.75	3.97
18	3.54	2.71	3.25	3.60	3.18	---	---	2.97	3.45	3.97	3.80	3.99
19	3.54	2.86	3.29	3.61	3.18	---	---	2.91	3.15	3.97	3.85	4.01
20	3.53	2.95	3.31	3.61	3.19	---	---	2.80	2.79	3.99	3.89	4.03
21	3.09	2.99	3.32	3.60	3.19	---	---	2.87	2.94	3.99	3.94	4.04
22	2.93	2.99	3.33	3.60	3.19	---	---	2.92	3.06	3.99	3.98	4.04
23	3.04	2.99	3.34	3.60	3.19	---	---	2.94	3.14	3.98	4.00	3.37
24	3.13	2.99	3.35	3.60	3.19	---	---	3.01	3.05	3.79	4.01	3.20
25	3.20	2.99	3.35	3.61	3.19	---	---	3.06	3.11	3.78	4.01	3.39
26	3.23	3.01	3.36	3.45	3.19	---	---	3.11	3.20	3.78	4.01	3.50
27	3.27	3.06	3.41	3.09	3.20	---	---	3.17	3.29	3.78	3.99	3.57
28	3.32	3.08	3.46	3.17	3.22	---	---	3.22	3.38	3.83	3.86	3.63
29	3.34	3.04	3.50	3.27	---	---	---	3.26	3.45	3.88	3.91	3.66
30	3.38	3.04	3.52	3.29	---	---	---	3.26	3.48	3.92	3.92	3.62
31	3.40	---	3.53	3.29	---	---	---	3.24	---	3.96	3.95	---
LOW	3.54	3.43	3.53	3.61	3.32	3.23	---	3.26	3.48	3.99	4.06	4.09
HIGH	2.93	2.47	3.00	3.09	3.18	3.22	---	2.53	2.79	3.15	3.55	3.20

WTR YR 1990 HIGH 2.47 LOW 4.09



GROUND-WATER LEVELS

SOMERSET COUNTY

445148069513301. Local number, SMW 61.

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

Owner: U.S. Geological Survey.

AQUIFER.--Glaciomarine deposits of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in, September 1984 measured depth 40 ft, screened depth 35 to 40 ft, screen slot size 0.010 in.

INSTRUMENTATION.--Measurement with chalked tape by local observer twice a month.

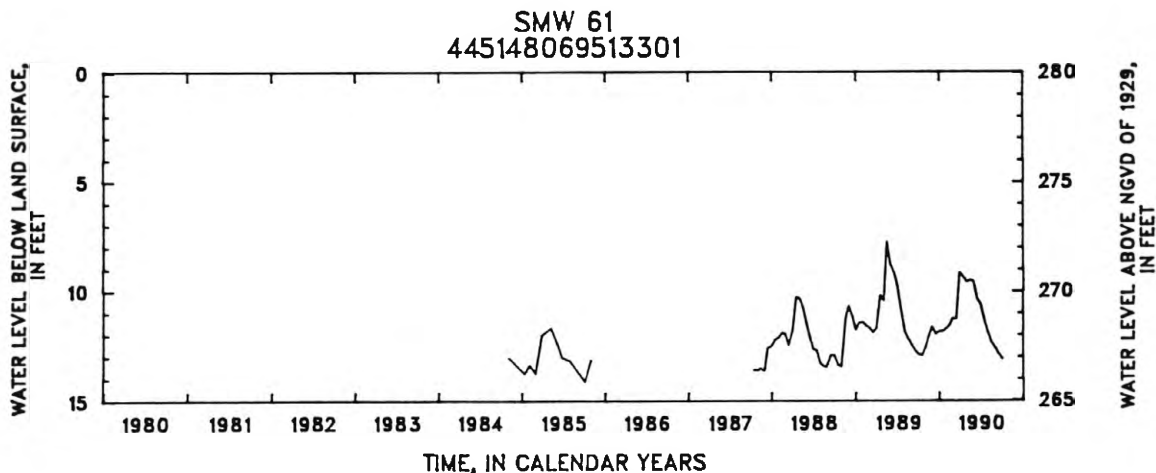
DATUM.--Elevation of land-surface datum is 280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.75 ft below land-surface datum, May 14, 1989; lowest measured, 14.16 ft below land-surface datum, Oct. 04, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 16	12.98	Dec 14	11.99	Feb 15	11.56	Apr 17	9.40	Jun 14	10.39	Aug 15	12.39
30	12.64	30	11.85	27	11.26	29	9.59	30	10.62	30	12.62
Nov 15	12.08	Jan 16	11.84	Mar 15	11.27	May 15	9.51	Jul 17	11.42	Sep 12	12.85
29	11.65	31	11.72	30	9.16	30	9.58	31	11.93	30	13.13



GROUND-WATER LEVELS

175

WALDO COUNTY

443407069020901. Local number, WOW 82.

LOCATION.--Lat 44°34'07", long 69°02'09", Hydrologic Unit 01020005, about 3.5 mi southwest of Monroe. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 33 ft, screened depth 28 to 33 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel before April 05; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 05.

DATUM.--Elevation of land-surface datum is 315 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.62 ft above land-surface datum.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.14 ft below land-surface datum, July 04, 1990; lowest measured, 16.11 ft below land-surface datum, Nov. 02, 1989.

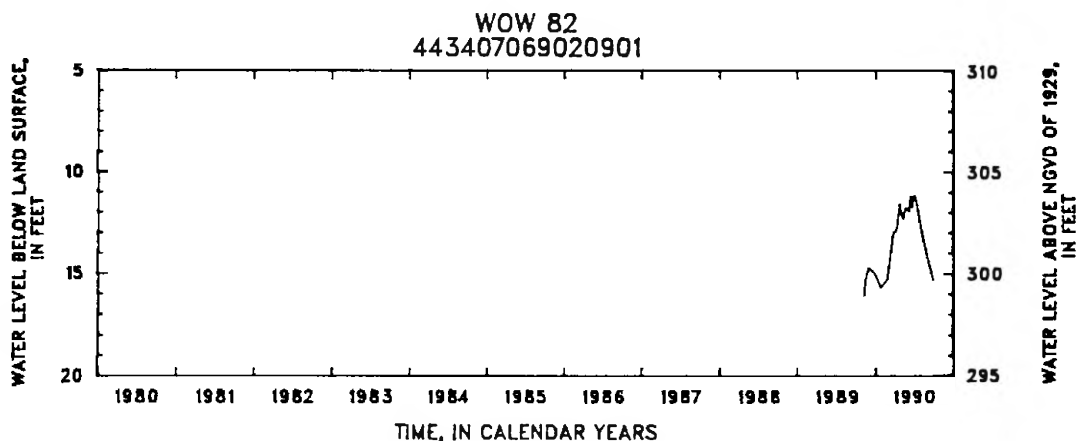
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	11.99	11.90	11.19	12.58	14.15
2	---	e 16.11	---	---	---	---	---	12.02	11.88	11.19	12.66	14.19
3	---	---	---	---	---	---	---	12.06	11.86	11.16	12.71	14.23
4	---	---	---	---	---	---	---	12.08	11.85	11.14	12.76	14.27
5	---	---	---	---	---	---	13.30	12.09	11.89	11.17	12.82	14.30
6	---	---	---	---	---	---	13.23	12.16	11.90	11.21	12.88	14.34
7	---	---	---	---	---	---	13.15	12.21	11.92	11.24	12.94	14.38
8	---	---	---	---	---	---	13.06	12.26	11.95	11.28	12.98	14.44
9	---	---	---	---	---	---	13.00	12.30	11.96	11.29	13.03	14.47
10	---	---	---	---	---	---	12.95	12.35	11.98	11.35	13.10	14.51
11	---	---	---	---	---	---	12.90	12.34	12.02	11.42	13.14	14.56
12	---	---	---	---	---	---	12.87	12.37	11.97	11.46	13.19	14.62
13	---	---	---	---	---	---	12.80	12.38	11.90	11.51	13.22	14.65
14	---	e 15.31	---	---	---	---	12.69	12.35	11.47	11.57	13.29	14.68
15	---	---	---	---	---	---	12.56	12.28	11.18	11.62	13.34	14.69
16	---	---	---	---	---	---	12.49	12.12	11.47	11.67	13.39	14.75
17	---	---	---	---	---	---	12.39	12.01	11.58	11.72	13.43	14.81
18	---	---	---	---	---	---	12.29	11.93	11.48	11.79	13.47	14.85
19	---	---	---	---	---	---	12.19	11.89	11.61	11.84	13.54	14.89
20	---	---	---	---	---	---	12.08	11.86	11.76	11.89	13.59	14.92
21	---	---	---	---	---	---	11.98	11.82	11.78	11.95	13.62	14.96
22	---	---	---	---	---	---	11.94	11.79	11.82	12.03	13.66	14.99
23	---	---	---	---	---	---	11.90	11.77	11.88	12.09	13.74	15.03
24	---	---	---	---	---	---	11.90	11.79	11.87	12.14	13.79	15.11
25	---	---	---	e 15.72	---	---	11.89	11.78	11.74	12.21	13.83	15.15
26	---	---	---	---	e 15.29	---	11.88	11.78	11.55	12.27	13.86	15.18
27	---	---	e 15.01	---	---	e 13.00	11.89	11.79	11.39	12.33	13.89	15.22
28	---	---	---	---	---	---	11.94	11.81	11.30	12.38	13.96	15.26
29	---	e 14.71	---	---	---	---	11.99	11.85	11.23	12.45	14.00	15.29
30	---	---	---	---	---	---	11.99	11.84	11.20	12.49	14.05	15.33
31	---	---	---	---	---	---	---	11.90	---	12.54	14.09	---

e Instantaneous water level

LOW	---	---	---	---	---	---	13.23	12.38	12.02	12.54	14.09	15.33
HIGH	---	---	---	---	---	---	11.88	11.77	11.18	11.14	12.58	14.15

WTR YR 1990 HIGH 11.14 LOW 16.11



GROUND-WATER LEVELS

WALDO COUNTY--Continued

442822069080901. Local number, WOW 84.

LOCATION.--Lat 44°28'22", long 69°08'09", Hydrologic Unit 01050002, about 2.25 mi northeast of Morrill. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 19 ft, screened depth 9 to 19 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 342 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.95 ft above land-surface datum.

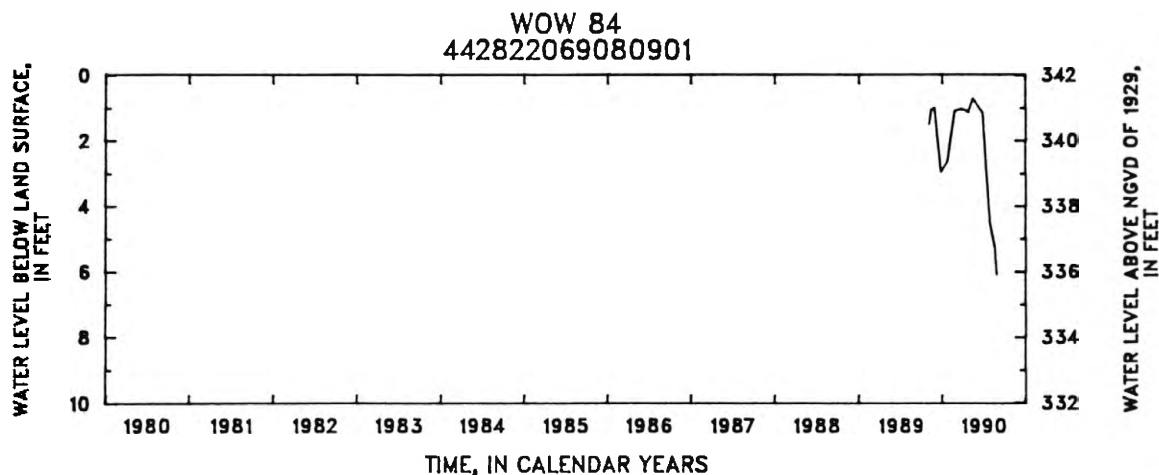
REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.72 ft below land-surface datum, May 16, 1990; lowest measured, 6.09 ft below land-surface datum, Aug. 28, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Nov 02	1.51	Dec 27	2.98	Feb 26	1.09	Apr 26	1.14	Jun 28	1.17	Aug 21	5.29
14	1.03	Jan 25	2.64	Mar 27	1.02	May 16	0.72	Jul 30	4.55	28	6.09
29	0.99										



GROUND-WATER LEVELS

177

WALDO COUNTY--Continued

442822069081301. Local number, WOW 85.

LOCATION.--Lat 44°28'22", long 69°08'13", Hydrologic Unit 01050002, about 2.25 mi northeast of Morrill. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 27 ft; screened depth 17 to 22 ft, screen slot size 0.008 in; screened depth 22 to 27 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel before April 05; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 05.

DATUM.--Elevation of land-surface datum is 334 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.06 ft above land-surface datum.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.75 ft below land-surface datum, June 11, 1990; lowest measured, 8.15 ft below land-surface datum, Sept. 22, 1990.

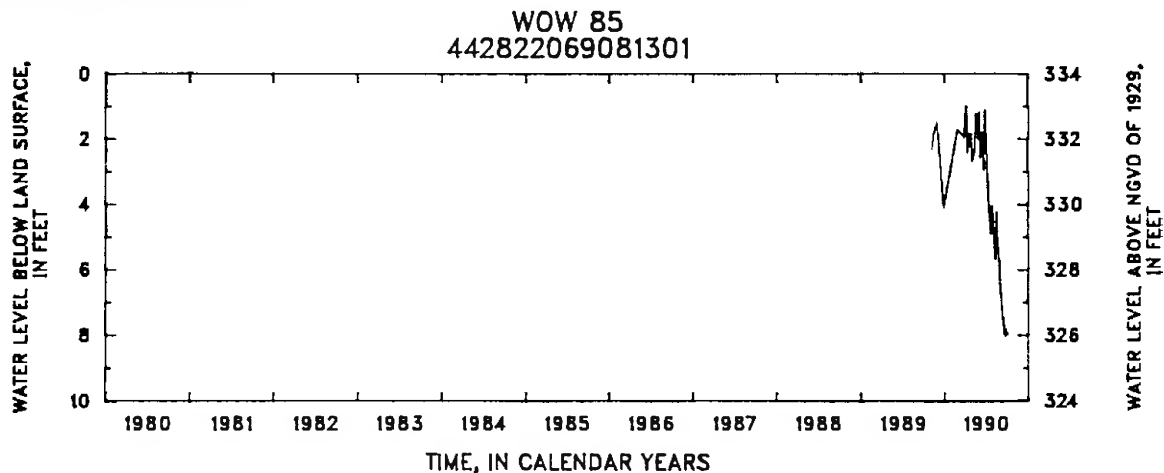
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	2.70	1.56	2.18	4.73	6.58
2	---	e 2.32	---	---	---	---	---	2.77	1.97	2.57	4.90	6.67
3	---	---	---	---	---	---	---	2.97	2.22	2.81	5.06	6.82
4	---	---	---	---	---	---	---	3.03	2.38	2.91	5.22	6.91
5	---	---	---	---	---	---	2.05	2.56	2.59	3.04	5.35	6.98
6	---	---	---	---	---	---	2.23	1.86	2.80	3.34	5.47	7.07
7	---	---	---	---	---	---	2.33	2.04	2.83	3.53	5.57	7.13
8	---	---	---	---	---	---	2.51	2.10	2.38	3.68	5.64	7.31
9	---	---	---	---	---	---	2.65	2.28	2.54	3.62	5.65	7.38
10	---	---	---	---	---	---	2.44	2.43	2.08	3.67	5.71	7.40
11	---	---	---	---	---	---	1.57	1.30	.75	3.96	5.56	7.48
12	---	---	---	---	---	---	1.89	1.48	1.15	4.13	4.22	7.53
13	---	---	---	---	---	---	2.18	1.34	1.52	4.28	3.96	7.61
14	---	e 1.86	---	---	---	---	2.24	.85	1.73	4.41	4.04	7.65
15	---	---	---	---	---	---	1.84	1.24	2.12	4.53	4.24	7.65
16	---	---	---	---	---	---	1.55	1.45	2.39	4.66	4.43	7.75
17	---	---	---	---	---	---	1.63	1.63	2.56	4.63	4.58	7.85
18	---	---	---	---	---	---	1.79	.86	2.72	4.69	4.73	7.94
19	---	---	---	---	---	---	2.07	.97	2.94	4.82	4.95	8.01
20	---	---	---	---	---	---	2.14	1.26	2.97	4.94	5.12	8.08
21	---	---	---	---	---	---	1.73	1.44	2.81	4.83	5.22	8.14
22	---	---	---	---	---	---	1.78	1.47	2.94	4.80	5.32	8.15
23	---	---	---	---	---	---	1.99	1.64	2.72	4.71	5.45	8.06
24	---	---	---	---	---	---	2.17	1.83	.91	4.37	5.59	7.94
25	---	---	---	e 2.99	---	---	2.26	2.04	1.12	4.05	5.70	7.84
26	---	---	---	---	e 1.73	---	2.36	2.22	1.24	3.81	5.80	7.84
27	---	---	e 4.14	---	---	e 1.95	2.47	2.41	1.60	3.95	5.90	7.87
28	---	---	---	---	---	---	2.64	2.65	1.96	4.09	6.00	7.92
29	---	e 1.51	---	---	---	---	2.73	2.80	2.32	4.23	6.11	7.97
30	---	---	---	---	---	---	2.71	1.24	1.89	4.40	6.30	8.00
31	---	---	---	---	---	---	---	1.18	---	4.56	6.44	---

e Instantaneous water level

LOW	---	---	---	---	---	---	2.73	3.03	2.97	4.94	6.44	8.15
HIGH	---	---	---	---	---	---	1.55	.85	.75	2.18	3.96	6.58

WTR YR 1990 HIGH .75 LOW 8.15



GROUND-WATER LEVELS

WASHINGTON COUNTY

450713067162801. Local number, WW 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 twice a month.

DATUM.--Elevation of land-surface datum is 130 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum, which is 0.8 ft above the general land surface.

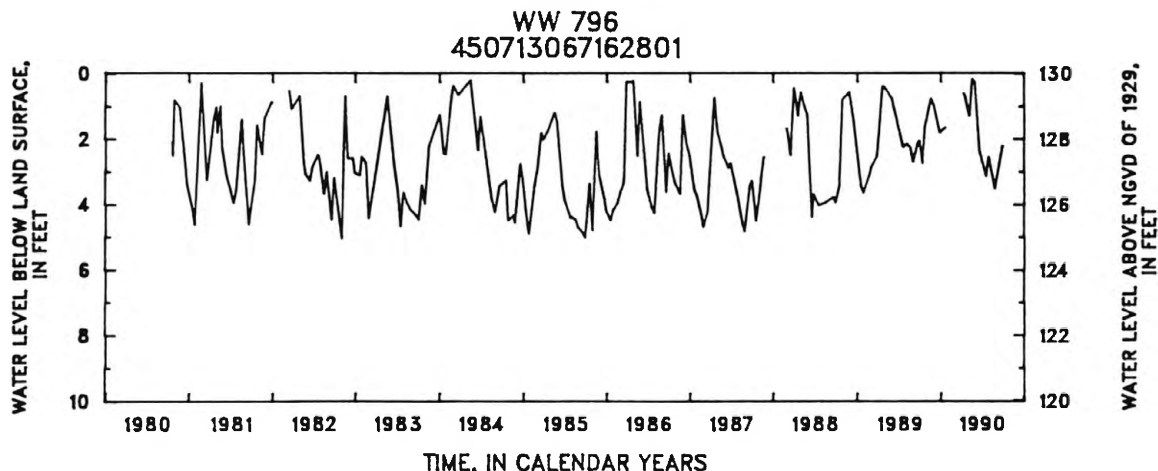
REMARKS.--No measurements made between January 17 and April 14.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, overflowed Feb. 14, Sept. 25, and Dec. 16, 1981, Apr. 16, 1982, Mar. 20 and 26, Apr. 22 and 28, May 04, June 01, Dec. 14 and 15, 1983, Apr. 03, 15, and 28, 1984; lowest measured, 5.34 ft below land-surface datum, Sept. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 12	2.78	Nov 18	0.76	Dec 27	1.83	May 06	1.33	Jun 19	2.38	Aug 25	3.54
22	1.66	29	0.94	Jan 17	1.67	18	0.18	Jul 18	3.16	31	2.70
				Apr 14	0.63	29	0.28	29	2.55	Sep 28	2.22



GROUND-WATER LEVELS

179

WASHINGTON COUNTY--Continued

445227067520101. Local number, WW 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 to 30 ft.

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

DATUM.--Elevation of land-surface datum is 250 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: V-notch on top of casing, north side of shelter, which is 3.42 ft above the general land surface.

REMARKS.--Record lost between August 06 and August 09 because recorder was vandalized.

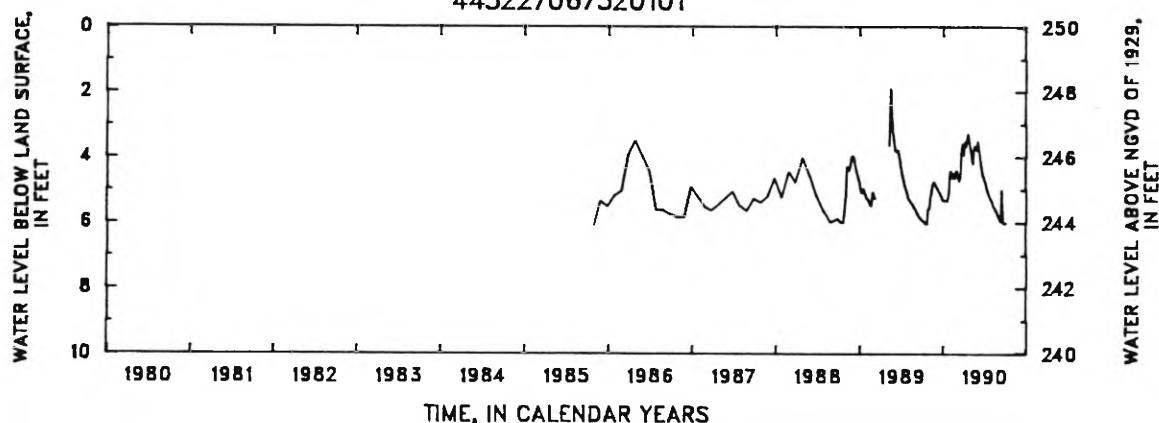
PERIOD OF RECORD.--September 1985 to current year. Records prior to October 1985 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.84 ft below land-surface datum, May 14-15, 1989; lowest measured, 7.29 ft below land-surface datum, Aug. 19, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.98	5.56	4.94	5.35	4.44	4.49	4.01	3.84	3.47	4.73	5.37	5.84
2	5.98	5.45	4.96	5.36	4.48	4.53	4.05	3.89	3.51	4.76	5.38	5.86
3	5.98	5.35	4.95	5.36	4.53	4.57	4.07	3.94	3.59	4.77	5.40	5.88
4	5.99	5.30	4.95	5.36	4.56	4.59	3.85	3.99	3.66	4.79	5.42	5.90
5	5.99	5.26	4.97	5.35	4.59	4.59	3.53	4.03	3.74	4.81	5.44	5.91
6	6.00	5.22	4.99	5.35	4.61	4.65	3.50	4.06	3.80	4.84	---	5.93
7	6.01	5.19	5.00	5.35	4.64	4.71	3.52	4.11	3.86	4.87	---	5.94
8	6.02	5.17	5.03	5.35	4.67	4.73	3.59	4.15	3.92	4.89	---	5.96
9	6.02	5.15	5.04	5.35	4.69	4.75	3.66	4.19	3.98	4.91	---	5.98
10	6.03	5.08	5.05	5.35	4.66	4.77	3.70	4.23	4.03	4.93	5.56	5.99
11	6.04	4.96	5.06	5.35	4.56	4.77	3.55	4.21	4.09	4.96	5.57	5.99
12	6.05	4.88	5.07	5.35	4.52	4.73	3.35	4.13	4.14	4.98	5.58	6.00
13	6.07	4.86	5.08	5.35	4.50	4.70	3.33	4.11	4.19	5.00	5.58	6.00
14	6.07	4.84	5.10	5.35	4.49	4.71	3.38	3.90	4.23	5.03	5.58	6.01
15	6.07	4.84	5.11	5.36	4.51	4.66	3.43	3.72	4.28	5.05	5.58	6.02
16	6.07	4.83	5.12	5.36	4.53	4.56	3.32	3.68	4.33	5.08	5.60	6.02
17	6.07	4.83	5.13	5.36	4.54	4.46	3.27	3.70	4.37	5.10	5.61	6.02
18	6.07	4.82	5.15	5.34	4.60	4.18	3.26	3.75	4.41	5.13	5.63	6.03
19	6.07	4.80	5.17	5.32	4.63	3.95	3.25	3.76	4.45	5.15	5.65	6.04
20	6.07	4.77	5.18	5.28	4.66	3.90	3.28	3.78	4.49	5.17	5.66	6.05
21	6.01	4.74	5.20	5.23	4.69	3.79	3.33	3.78	4.53	5.19	5.68	6.06
22	5.83	4.77	5.21	5.20	4.71	3.71	3.39	3.78	4.56	5.22	5.69	6.07
23	5.72	4.79	5.23	5.17	4.59	3.64	3.45	3.79	4.60	5.24	5.71	6.07
24	5.66	4.81	5.25	5.16	4.45	3.61	3.51	3.79	4.62	5.26	5.72	6.06
25	5.62	4.84	5.25	5.16	4.42	3.61	3.55	3.76	4.63	5.27	5.73	6.04
26	5.60	4.85	5.26	5.08	4.42	3.67	3.60	3.76	4.65	5.29	5.74	6.04
27	5.59	4.88	5.29	4.73	4.43	3.75	3.65	3.78	4.66	5.30	5.76	6.04
28	5.59	4.90	5.30	4.53	4.45	3.81	3.72	3.84	4.67	5.32	5.77	6.04
29	5.58	4.92	5.32	4.46	---	3.88	3.77	3.90	4.70	5.33	5.79	6.04
30	5.58	4.93	5.33	4.41	---	3.93	3.81	3.81	4.72	5.34	5.80	6.04
31	5.59	---	5.35	4.42	---	3.97	---	3.52	---	5.35	5.83	---
LOW	6.07	5.56	5.35	5.36	4.71	4.77	4.07	4.23	4.72	5.35	5.83	6.07
HIGH	5.58	4.74	4.94	4.41	4.42	3.61	3.25	3.52	3.47	4.73	5.37	5.84

WTR YR 1990 HIGH 3.25 LOW 6.07

WW 797
445227067520101

GROUND-WATER LEVELS

WASHINGTON COUNTY--Continued

444500068011601. Local number, WW 921.

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

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., September 1987 measured depth 32 feet, screened 22 to 32 feet, screen slot size 0.006 in.

INSTRUMENTATION.--Measurement with chalked tape by local observer twice a month.

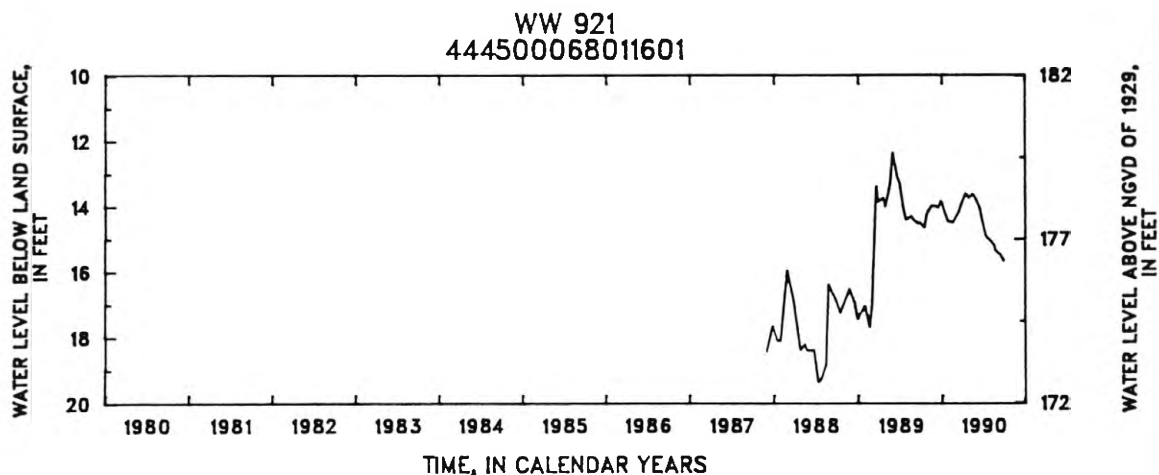
DATUM.--Elevation of land-surface datum is 192 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.61 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.35 ft below land-surface datum, May 29, 1989; lowest measured, 19.39 ft below land-surface datum, July 15, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct 17	14.67	Dec 17	14.05	Feb 18	14.51	Apr 15	13.61	Jun 16	14.04	Aug 18	15.20
27	14.22	28	13.84	Mar 17	14.17	28	13.74	26	14.40	25	15.37
Nov 02	14.15	Jan 18	14.28	25	13.98	May 16	13.63	Jul 15	14.93	Sep 15	15.50
18	13.98	28	14.48			28	13.75	28	15.03	28	15.67
26	13.98										



GROUND-WATER LEVELS

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WASHINGTON COUNTY--Continued

444526068013301. Local number, WW 922.

LOCATION.--Lat 44°45'26", long 68°01'53", Hydrologic Unit 01050002, about 1.0 mi north of Deblois. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., September 1987 measured depth 42 feet, screened 25 to 40 feet, screen slot size 0.006 in.

INSTRUMENTATION.--Electronic water-level recorder--daily-mean values stored based on 24 hourly measurements. record; well also sampled for water quality.

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.

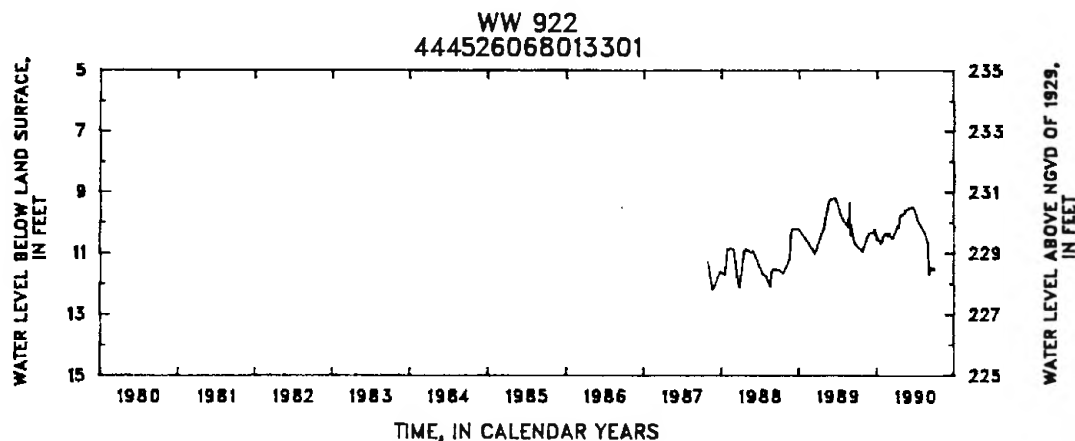
REMARKS.--Record lost between October 01 and October 18 and between May 15 and September 04, doubtful gage-height PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.18 ft below land-surface datum, June 18, 1988; lowest measured, 12.26 ft below land-surface datum, Nov. 19, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	10.45	10.43	10.38	10.28	9.74	---	---	---	---
2	---	e 10.83	---	10.48	10.44	10.39	10.27	9.76	---	---	---	---
3	---	---	---	10.51	10.44	10.41	10.23	9.76	---	---	---	---
4	---	---	---	10.53	10.43	10.44	10.21	9.76	---	---	---	---
5	---	---	---	10.56	10.41	10.47	10.20	9.73	---	---	---	11.76
6	---	---	---	10.58	10.40	10.50	10.21	9.73	---	---	---	11.69
7	---	---	---	10.59	10.40	10.51	10.20	9.74	---	---	---	11.63
8	---	---	---	10.60	10.38	10.49	10.21	9.75	---	---	---	11.61
9	---	---	---	10.61	10.38	10.49	10.19	9.76	---	---	---	11.59
10	---	---	---	10.61	10.37	10.50	10.11	9.71	---	---	---	11.57
11	---	---	---	10.60	10.37	10.51	10.04	9.68	---	---	---	11.55
12	---	---	---	10.61	10.39	10.52	10.03	9.68	---	---	---	11.55
13	---	---	---	10.64	10.39	10.54	10.03	9.62	---	---	---	11.54
14	---	---	---	10.68	10.41	10.54	10.01	9.60	---	---	---	11.54
15	---	---	---	10.64	10.40	10.54	9.94	e 9.59	---	e 9.97	---	11.52
16	---	---	---	10.64	10.38	10.53	9.91	---	e 9.49	---	---	11.52
17	e 10.91	---	e 10.32	10.62	10.40	10.53	9.89	---	---	---	---	11.53
18	---	e 10.51	---	10.65	10.38	10.53	9.87	---	---	---	e 10.41	11.54
19	---	---	10.21	10.68	10.41	10.53	9.85	---	---	---	---	11.56
20	---	---	10.24	10.69	10.45	10.50	9.83	---	---	---	---	11.56
21	---	---	10.27	10.69	10.43	10.48	9.80	---	---	---	---	11.56
22	---	---	10.30	10.66	10.38	10.45	9.79	---	---	---	---	11.56
23	---	---	10.31	10.64	10.35	10.45	9.78	---	---	---	---	11.54
24	---	---	10.31	10.64	10.36	10.44	9.76	---	---	---	---	11.52
25	---	---	10.32	10.60	10.38	10.42	9.75	---	---	---	e 10.60	11.52
26	---	e 10.37	10.36	10.54	10.39	10.42	9.73	---	e 9.55	---	---	11.54
27	e 10.98	---	10.41	10.55	10.37	10.40	9.73	---	---	---	---	11.56
28	---	---	10.43	10.56	10.38	10.40	9.74	e 9.55	---	e 10.13	---	11.58
29	---	---	10.44	10.51	---	10.41	9.75	---	---	---	e 10.70	11.59
30	---	---	10.44	10.45	---	10.35	9.74	---	---	---	---	11.59
31	---	---	10.42	10.44	---	10.31	---	---	---	---	---	---
e Instantaneous water level												
LOW	---	---	10.44	10.69	10.45	10.54	10.28	9.76	---	---	---	11.76
HIGH	---	---	10.24	10.44	10.35	10.31	9.73	9.60	---	---	---	11.52

WTR YR 1990 HIGH 9.49 LOW 11.76



GROUND-WATER LEVELS

YORK COUNTY

432310070393301. Local number, YW 807.

LOCATION.--Lat 43°23'10", long 70°39'33", Hydrologic Unit 01060003, about 4.5 mi southeast of South Sanford. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., measured depth 39 ft, screened depth 34 to 39 feet, screen slot size 0.010 in.

INSTRUMENTATION.--Digital water-level recorder--60-minute punch before April 03; electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after April 03.

DATUM.--Elevation of land-surface datum is 202 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

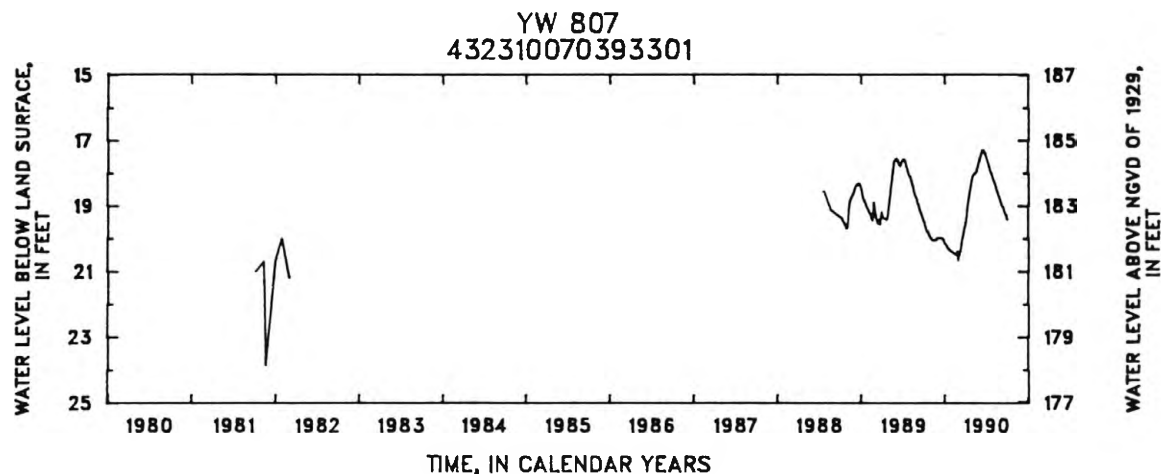
PERIOD OF RECORD.--July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.28 ft below land-surface datum, June 18, 1990; lowest measured, 20.69 ft below land-surface datum, Feb. 28, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.45	19.99	19.99	20.16	20.42	20.65	19.61	18.17	17.63	17.50	18.20	18.84
2	19.46	20.01	19.99	20.18	20.42	20.62	19.57	18.13	17.62	17.53	18.22	18.85
3	19.47	20.02	19.99	20.19	20.43	20.59	19.54	18.12	17.57	17.54	18.24	18.90
4	19.49	20.03	19.99	20.19	20.42	20.57	19.49	18.11	17.55	17.55	18.26	18.94
5	19.52	20.03	19.99	20.20	20.44	20.55	19.46	18.08	17.54	17.59	18.27	18.95
6	19.54	20.04	19.99	20.21	20.44	20.52	19.42	18.06	17.53	17.63	18.28	18.96
7	19.58	20.07	19.99	20.22	20.44	20.50	19.36	18.06	17.50	17.69	18.31	18.97
8	19.61	20.08	19.99	20.21	20.46	20.47	19.29	18.06	17.49	17.69	18.34	19.01
9	19.64	20.08	20.00	20.24	20.46	20.44	19.23	18.04	17.45	17.67	18.35	19.02
10	19.66	20.08	20.00	20.24	20.48	20.42	19.12	18.01	17.41	17.71	18.36	19.04
11	19.70	20.09	20.00	20.26	20.48	20.40	19.04	18.02	17.40	17.75	18.39	19.05
12	19.72	20.10	20.00	20.26	20.48	20.35	18.99	18.05	17.39	17.76	18.44	19.04
13	19.74	20.10	19.99	20.28	20.49	20.29	18.93	18.01	17.39	17.79	18.45	19.06
14	19.76	20.09	19.99	20.30	20.50	20.23	18.87	18.01	17.31	17.79	18.47	19.06
15	19.78	20.09	19.99	20.32	20.50	20.18	18.82	18.00	17.29	17.81	18.49	19.08
16	19.80	20.09	19.99	20.32	20.50	20.13	18.78	17.98	17.29	17.84	18.51	19.11
17	19.80	20.09	19.99	20.34	20.51	20.09	18.72	17.98	17.29	17.86	18.53	19.15
18	19.80	20.09	20.00	20.35	20.51	20.06	18.70	17.97	17.28	17.90	18.54	19.18
19	19.79	20.08	20.00	20.35	20.51	20.03	18.67	17.96	17.29	17.92	18.57	19.20
20	19.79	20.08	20.01	20.35	20.52	19.99	18.64	17.96	17.30	17.94	18.59	19.22
21	19.79	20.08	20.02	20.35	20.51	19.95	18.60	17.94	17.30	17.96	18.61	19.24
22	19.82	20.08	20.02	20.36	20.52	19.92	18.55	17.92	17.30	17.98	18.63	19.25
23	19.84	20.07	20.03	20.38	20.51	19.88	18.51	17.90	17.31	17.99	18.66	19.27
24	19.86	20.07	20.04	20.38	20.46	19.85	18.48	17.84	17.33	18.01	18.68	19.29
25	19.89	20.07	20.04	20.39	20.41	19.82	18.43	17.82	17.37	18.04	18.70	19.31
26	19.90	20.07	20.05	20.39	20.36	19.77	18.38	17.79	17.40	18.06	18.73	19.33
27	19.91	20.06	20.06	20.39	20.58	19.74	18.32	17.76	17.41	18.09	18.74	19.36
28	19.92	20.03	20.11	20.39	20.69	19.71	18.30	17.73	17.44	18.10	18.76	19.39
29	19.94	20.03	20.14	20.40	---	19.71	18.26	17.69	17.45	18.12	18.78	19.42
30	19.97	20.00	20.14	20.40	---	19.68	18.22	17.66	17.48	18.13	18.81	19.44
31	19.98	---	20.15	20.42	---	19.64	---	17.66	---	18.15	18.83	---
LOW	19.98	20.10	20.15	20.42	20.69	20.65	19.61	18.17	17.63	18.15	18.83	19.44
HIGH	19.45	19.99	19.99	20.16	20.36	19.64	18.22	17.66	17.28	17.50	18.20	18.84

WTR YR 1990 HIGH 17.28 LOW 20.69



GROUND-WATER LEVELS

183

YORK COUNTY--Continued

432611070404601. Local number, YW 834.

LOCATION.--Lat 43°26'11", long 70°40'46", Hydrologic Unit 01060003, about 3.5 mi northeast of South Sanford. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 17 ft, screened depth 7 to 17 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

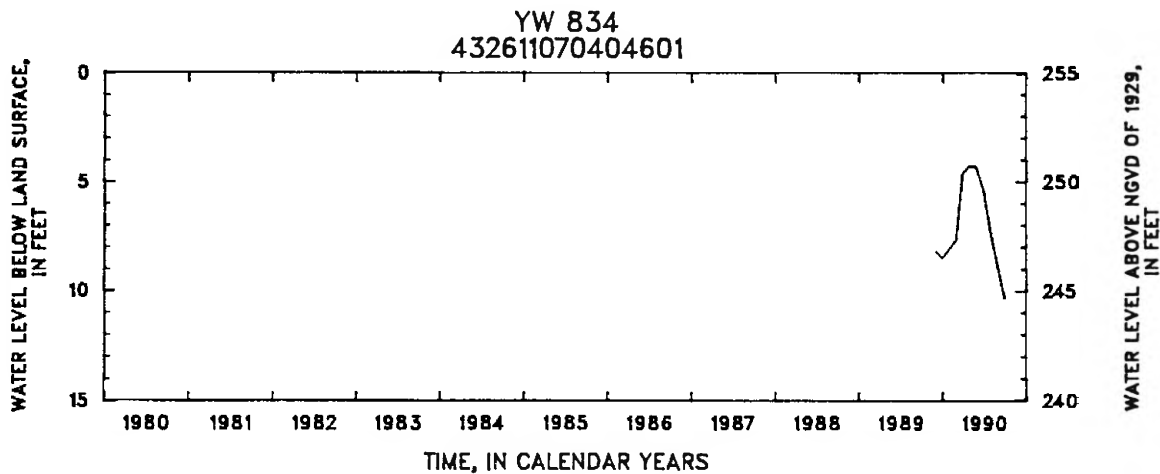
DATUM.--Elevation of land-surface datum is 255 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--November 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.26 ft below land-surface datum, Apr. 26, 1990; lowest measured, 10.36 ft below land-surface datum, Sept. 28, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Nov 29	8.21	Feb 27	7.67	Apr 26	4.26	Jun 26	5.36	Aug 21	8.55	Sep 28	10.36
Dec 28	8.52	Mar 28	4.62	May 24	4.32	Jul 31	7.57				



QUALITY OF GROUND-WATER RECORDS

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

PRINTED OUTPUTREMARK

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

QUALITY OF GROUND-WATER RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

LOCAL NUMBER	STATION NUMBER	DATE	TIME	GEO- LOGIC UNIT CODE	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
FW 901	443831070002601	08-30-90	1530	112TILL	--	--	9.0	--	--
PIW 2	452829069322101	08-30-90	0930	112TILL	224	7.8	11.0	98	128
WOW 84	442822069080901	08-28-90	1830	112TILL	301	7.6	12.5	120	169
WW 922	* 444526068013301	08-29-90	1135	112TILL	243	6.7	13.0	280	--

LOCAL NUMBER	DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
FW 901	08-30-90	--	3.2	2.2	--	--	--	--	--	--	--
PIW 2	08-30-90	0.200	1.7	>4.0	0.090	350	340	26	8.0	3.8	8
WOW 84	08-28-90	0.100	1.6	0.1	0.090	120	180	38	6.6	7.7	11
WW 922	08-29-90	--	43	>12	60.0	170000	6800	22	54	55	28

LOCAL NUMBER	DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
FW 901	08-30-90	--	--	--	--	--	--	--	--	--
PIW 2	08-30-90	0.2	1.4	108	11	2.9	<0.10	9.0	121	570000
WOW 84	08-28-90	0.3	6.6	144	7.9	7.4	0.10	8.0	205	250000
WW 922	08-29-90	1	29	125	--	--	1.5	--	2440	880000

Geologic unit (aquifer):
112TILL - Till, Pleistocene age.

* NOTE: Sample filtrate was cloudy

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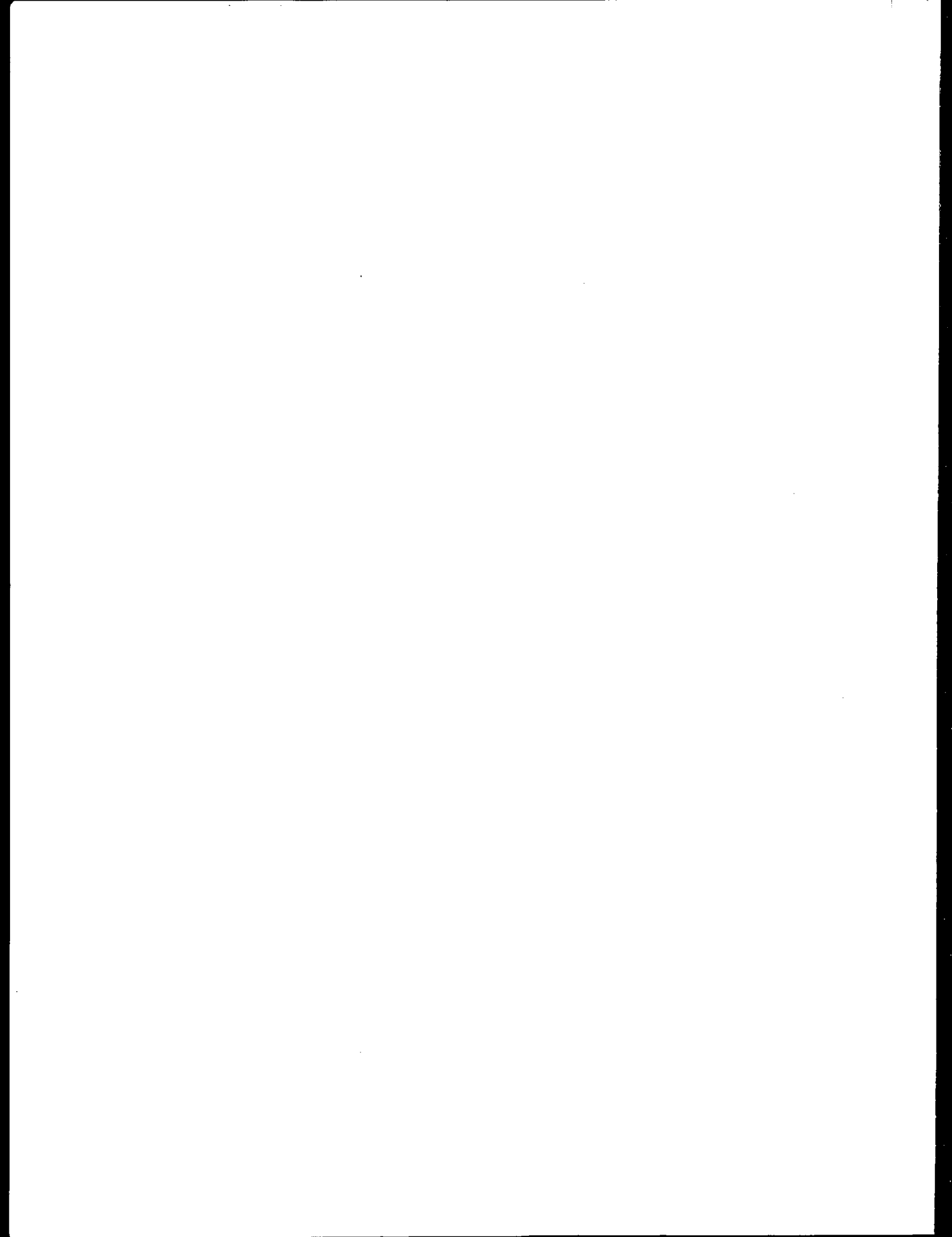
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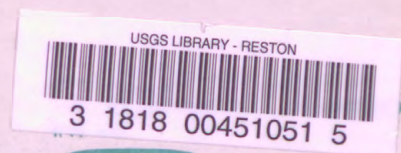
FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

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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