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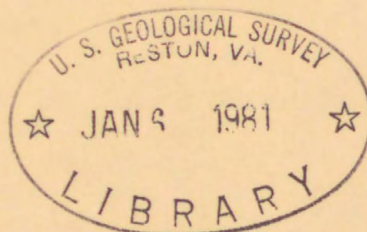
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Water Resources Data for Maine

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

**Prepared in cooperation with the Maine Public Utilities
Commission and with other agencies**

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
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NOVEMBER 1970

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29	30					

DECEMBER 1970

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JANUARY 1971

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31						

FEBRUARY 1971

S	M	T	W	T	F	S
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27	28					

MARCH 1971

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APRIL 1971

S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
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MAY 1971

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23	24	25	26	27	28	29
30	31					

JUNE 1971

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

JULY 1971

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

AUGUST 1971

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

SEPTEMBER 1971

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

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Prepared in cooperation with the Maine Public Utilities
Commission and with other agencies

Prepared in cooperation with
Maine Public Utilities Commission
Maine State Highway Commission
U. S. Department of State

Copies of this report may be obtained from
District Chief, Water Resources Division
U. S. Geological Survey
State House Annex
Capitol Shopping Center
Augusta, Maine 04330

1972

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WATER RESOURCES DATA FOR MAINE, 1971

- Part 1. Surface-Water Records
- Part 2. Water-Quality Records
- Part 3. Ground-Water Records

INTRODUCTION

Water resources data for the 1971 water year for Maine including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, records of water-quality data on the chemical and physical characteristics of surface- and ground-water, and records of ground-water levels in index wells are given in this report. Records for a few pertinent gaging stations in bordering States and Provinces are also included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of G. S. Hayes, District Chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

Through September 30, 1960, the records of discharge and stage of streams and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States."

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The streamflow records for 1961-65 also are published in a Geological Survey water-supply paper series entitled, "Surface Water Supply of the United States 1961-65," and those for 1966-70 will be published in a similar series.

The Geological Survey has published records of chemical quality, temperature, and suspended sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have also been released on a State-boundary basis in conjunction with streamflow records or in a separate volume.

Through December 31, 1965, the Geological Survey has published ground-water records which contain water level data in an annual series of water-supply papers entitled "Water Levels and Artesian Pressures in Observation Wells in the United States." Since 1955 this series has been entitled "Ground-Water Levels in the United States." The calendar years 1956 through 1960 span a transition period wherein the water-supply papers are converted from presenting 1 year data to 5 years of data. Water-Supply Paper 1537 contains records of water levels in Maine for calendar years 1956-57, Water-Supply Paper 1782 for calendar years 1958-62, and Water-Supply Paper 1977 for calendar years 1963-67. Subsequent water-supply papers containing records for Maine will be issued for 5-year intervals. Beginning with the 1968 water year, ground-water data for Maine have also been released on a State-boundary basis in conjunction with streamflow and water-quality records.

COOPERATION

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

Maine Public Utilities Commission, J. G. Feehan, chairman
Maine State Highway Commission, D. H. Stevens, chairman

Assistance in the form of funds or services was given by the U.S. Department of State, in collecting records for 5 gaging stations and 1 water-quality station published in this report.

The following organizations aided in collecting records:

Bangor Hydro-Electric Company
Kennebec Water Power Company
St. Croix Paper Company
Union Water Power Company

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."

DEFINITION OF TERMS

The terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows:

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-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, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

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.

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

Cubic foot per second (cfs) 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.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

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 noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the 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 gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

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

Micrograms per liter ($\mu\text{g/l}$, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per liter is equivalent to one milligram per liter. See below.

Milligrams per liter (mg/l , MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations are determined in the laboratory as parts per million (ppm) and are converted to mg/l by using the factors in table 2, page 5.

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

Runoff in inches (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.

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

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

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1} ...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3})..	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})*.....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in parts per million to milligrams per liter*
(All values calculated to three significant figures)

<u>Range of concentration (ppm)</u>	<u>Multi- ply by</u>	<u>Range of concentration (ppm)</u>	<u>Multi- ply by</u>
0 - 15,900	1.00	322,000 - 341,000	1.26
16,000 - 46,800	1.02	342,000 - 361,000	1.28
46,900 - 76,500	1.04	362,000 - 380,000	1.30
76,600 - 105,000	1.06	381,000 - 399,000	1.32
106,000 - 133,000	1.08	400,000 - 416,000	1.34
134,000 - 159,000	1.10	417,000 - 434,000	1.36
160,000 - 185,000	1.12	435,000 - 451,000	1.38
186,000 - 210,000	1.14	452,000 - 467,000	1.40
211,000 - 233,000	1.16	468,000 - 483,000	1.42
234,000 - 256,000	1.18	484,000 - 498,000	1.44
257,000 - 279,000	1.20	499,000 - 514,000	1.46
280,000 - 300,000	1.22	515,000 - 528,000	1.48
301,000 - 321,000	1.24	529,000 - 542,000	1.50

*Based on water density of 1.000 g/ml and sediment density of 2.65 g/cc.

WRD is used as an abbreviation for "Water Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

SPECIAL NETWORKS AND PROGRAMS

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

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Pesticides program is a network of regularly sampled water-quality stations where additional samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flows) or more frequently to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging station or partial-record station. Gaps are left in the numbers to allow for new stations that may be established;

hence the numbers are not consecutive. The complete 8-digit number for each station, such as 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500". In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

WELL NUMBERS

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The first 6 digits denote the degrees, minutes, and seconds of latitude followed by a letter denoting north or south. Seven digits following the letter denote degrees, minutes, and seconds of longitude. The last digit is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

A local well numbering system is also used in this report. All wells which have been inventoried are numbered consecutively within each county.

PART 1. SURFACE WATER RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct reading of a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the gage

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

At some stream-gaging stations the stage-discharge relation is affected by 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 determining discharge. Information required for determining 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 determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

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

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

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

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of contents is given. Tables of daily gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1971 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations is that determined and used by the Corps of Engineers and other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the streamflow records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised

in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily reading of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the basin is usually less than 20 inches.

For reservoir stations the monthly summary gives the contents at the end of the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month and the change in contents during the month.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimum in this summary are the minimum daily discharges.

For the reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All

independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

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

Accuracy of Data

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figures. The same rounding rules apply to discharge figures 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, consumptive use, regulation, evaporation or other factors. For these stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects.

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 unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Maine for the period October 1960 to September 1965 are in Water-Supply Paper 1901 and for the period October 1965 to September 1970 in Water-Supply Paper 2101 (now in press).

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Maine are compiled in Water-Supply Papers 1301 through September 1950, and in 1721 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at miscellaneous sites.

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

PART 2. WATER QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage areas, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; 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.

Data on the quality of surface water were collected from designated sampling sites (map on page 18) at predetermined intervals such as once daily, weekly, monthly or less frequently. Data on the quality of ground water were collected once during the year at 5 wells located in the northeastern section of the State.

Water-quality information is presented for chemical quality, microbiological, fluvial sediment and water temperatures. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperature are given in degrees Celsius (centigrade, °C). In waters with density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Fahrenheit to degrees Celsius, see table on page 14.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 4).

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). 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 at several verticals across the channel to determine accurately the solute load.

Table 3.--Degrees Fahrenheit (°F) to degrees Celsius (°C)*
(Temperature reported to nearest 0.5°C)

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
32	0.0	50	10.0	68	20.0	86	30.0	104	40.0
33	.5	51	10.5	69	20.5	87	30.5	105	40.5
34	1.0	52	11.0	70	21.0	88	31.0	106	41.0
35	1.5	53	11.5	71	21.5	89	31.5	107	41.5
36	2.0	54	12.0	72	22.0	90	32.0	108	42.0
37	3.0	55	13.0	73	23.0	91	33.0	109	43.0
38	3.5	56	13.5	74	23.5	92	33.5	110	43.5
39	4.0	57	14.0	75	24.0	93	34.0	111	44.0
40	4.5	58	14.5	76	24.5	94	34.5	112	44.5
41	5.0	59	15.0	77	25.0	95	35.0	113	45.0
42	5.5	60	15.5	78	25.5	96	35.5	114	45.5
43	6.0	61	16.0	79	26.0	97	36.0	115	46.0
44	6.5	62	16.5	80	26.5	98	36.5	116	46.5
45	7.0	63	17.0	81	27.0	99	37.0	117	47.0
46	8.0	64	18.0	82	28.0	100	38.0	118	48.0
47	8.5	65	18.5	83	28.5	101	38.5	119	48.5
48	9.0	66	19.0	84	29.0	102	39.0	120	49.0
49	9.5	67	19.5	85	29.5	103	39.5	121	49.5

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32) \text{ or } ^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32.$$

Ground-water quality does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, 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 continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Maine are listed below.

<u>Water year</u>	<u>WSP No.</u>	<u>Water year</u>	<u>WSP No.</u>
1953	1290	1962	1941
1954	1350	1963	1947
1955	1400	1964	1954
1957	1520	1965	1961
1958	1571	1966	1991
1959	1641	1967	2011
1960	1741	1968	2091
1961	1881		

PART 3. GROUND-WATER RECORDS

Collection and Reporting of Data

Water level measurements are reported in feet below land surface datum and to as many significant figures as can be justified by local conditions. Measurements of water level in wells equipped with recording gages are given for every fifth day and the end of each month. Locations of the index wells are shown on map on page 18.

HYDROLOGIC CONDITIONS

Runoff for water year 1971 was about 5 percent above normal in the northern and central sections of the State and about 5 percent below normal in the southwestern area. Mean monthly flow was in the excessive range (upper quartile of recorded monthly runoff) at nearly all stream gaging stations for May and in the deficient range (lower quartile) for June and July. Delayed melt of the heavy snow pack was the major cause of the excessive May flow and lack of precipitation caused the abrupt reversal to deficient flows in the two succeeding months. Runoff for water year 1971 was much lower than in 1970 in the central and southern sections and about the same in the northern area.

Water content of the accumulated snow cover on March 1, before the start of the spring runoff, ranged from 5 to 12 inches over the state and was about normal in the northern section but 250 percent of normal in the coastal area.

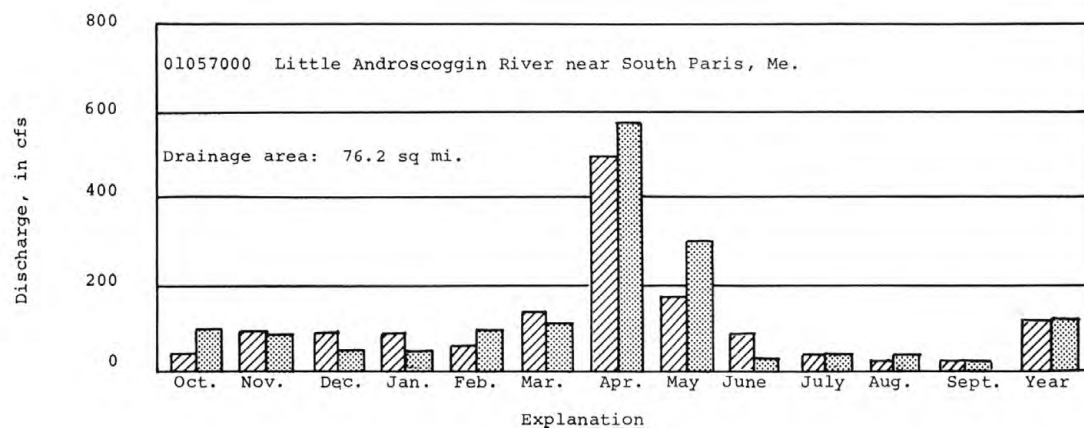
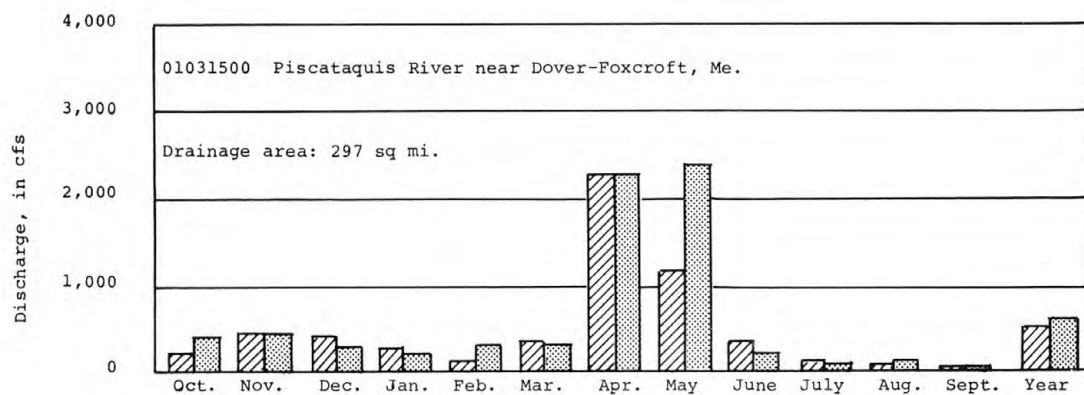
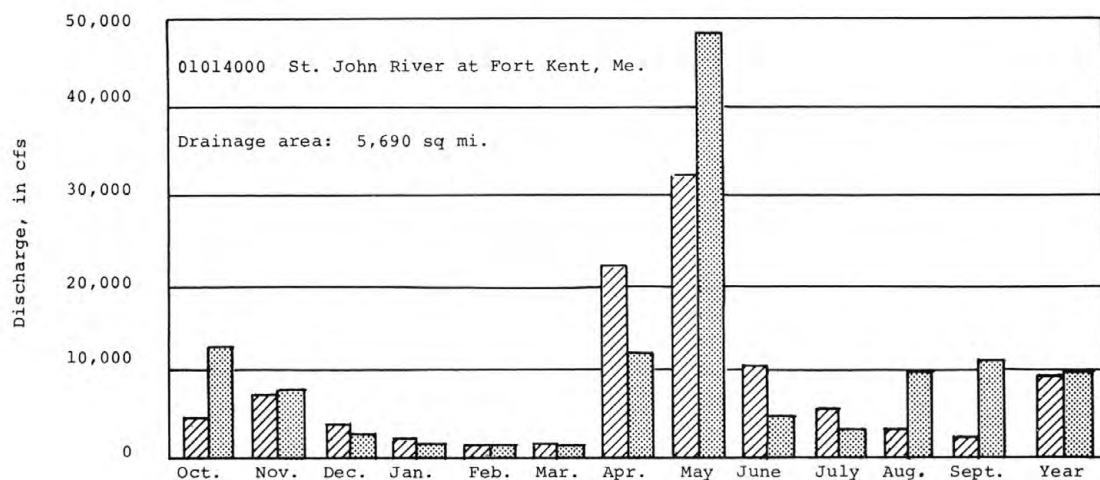
Ground water levels fluctuated seasonally and reached their annual maximum level about the end of April. Levels generally were above average in October, April, and May and below normal during December and the June through August period.

Water in storage, which was near normal quantity at the start of the year, decreased steadily to only 75 percent of average quantity at the end of March. At the end of May, following melt of the above normal snow pack, the quantity of stored water was about 110 percent of average but decreased during the summer months to about 95 percent of average at the end of the water year on September 30.

Figure 1, page 17, for which records at three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1971 water year with the median discharges for the 1931-60 period.

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 Median of monthly and yearly mean discharges for water years 1931-60.

 Monthly and yearly mean discharges during 1971 water year.

Figure 1.--Comparison of runoff at three long-term index gaging stations during 1971 water year with median runoff for period 1931-60.

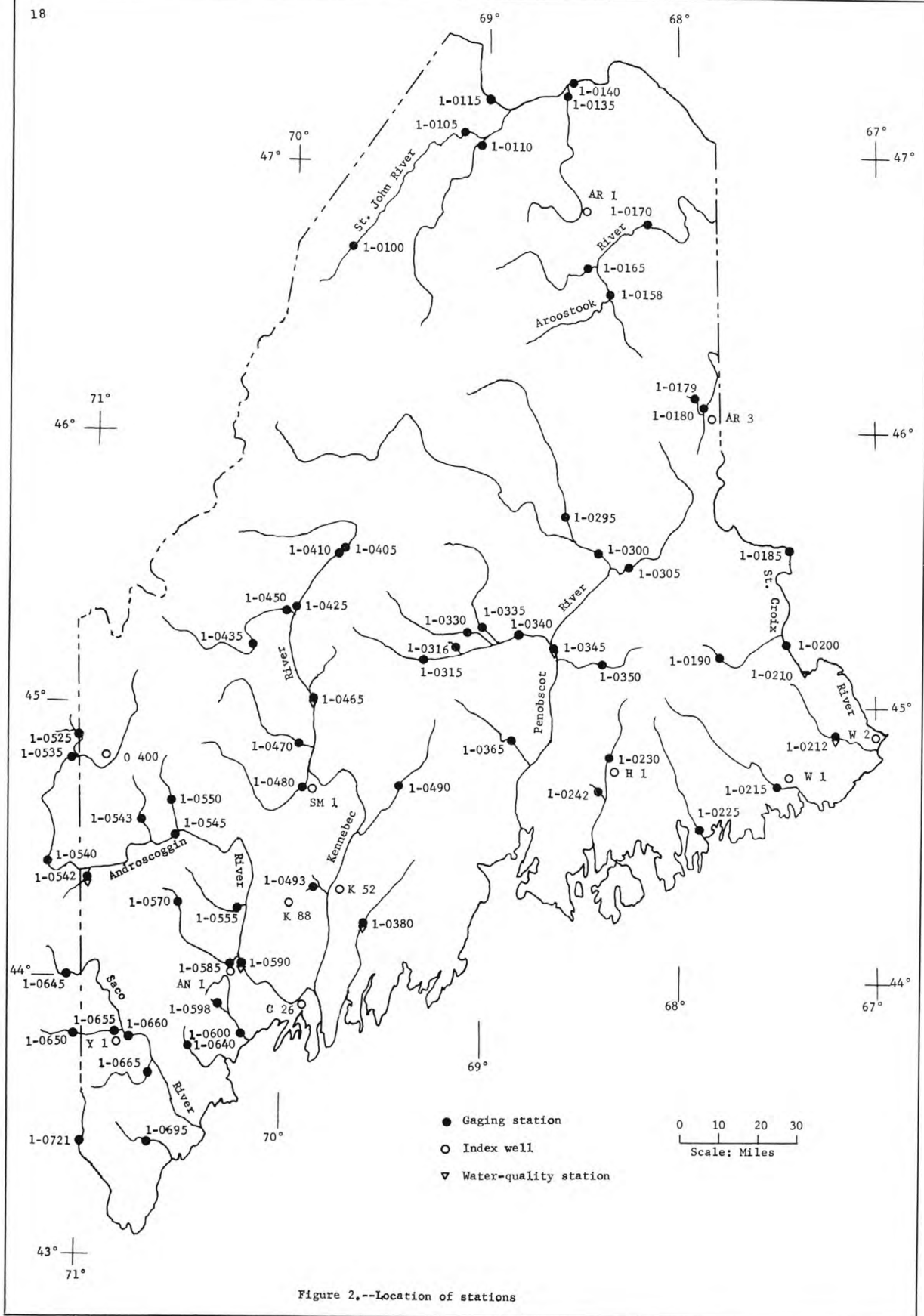


Figure 2.--Location of stations

PART 1. SURFACE WATER RECORDS

GAGING STATION RECORDS

ST. JOHN RIVER BASIN

01010000 St. John River at Ninemile Bridge, Maine

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

DRAINAGE AREA.--1,290 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 931.26 ft above mean sea level.

AVERAGE DISCHARGE.--21 years, 2,172 cfs (22.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 23,800 cfs May 5; minimum daily, 150 cfs Mar. 9-13.

Period of record: Maximum discharge, 34,200 cfs Apr. 25, 1958 (gage height, 10.97 ft) from rating curve extended above 16,000 cfs; minimum, 59 cfs Sept. 5, 1953; minimum gage height, 0.25 ft Sept. 5, 1953, Sept. 11-12, 1960.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,050	2,060	1,350	350	200	155	275	12,700	1,710	819	455	7,480
2	2,030	1,870	1,380	340	200	155	270	13,500	1,450	2,660	671	4,830
3	1,920	1,720	1,410	335	195	155	265	14,400	1,250	2,600	580	3,300
4	2,280	1,600	1,140	325	190	155	260	19,000	1,160	1,890	1,580	2,500
5	3,050	1,470	793	320	190	155	260	23,600	1,080	1,290	2,240	2,340
6	2,790	1,420	740	315	190	155	255	22,100	925	905	1,680	2,600
7	2,260	1,360	715	310	185	155	255	20,100	793	734	1,450	2,530
8	1,870	1,300	690	305	185	155	255	17,800	750	694	1,290	2,600
9	1,580	1,220	660	300	180	150	260	17,800	819	635	1,120	2,880
10	1,320	1,100	630	290	180	150	265	17,800	915	534	895	3,030
11	1,130	1,050	610	285	175	150	275	17,700	793	450	758	2,390
12	986	1,250	600	275	175	150	285	17,600	657	370	726	1,920
13	1,030	1,540	570	270	170	150	305	17,000	553	309	802	2,360
14	1,500	1,480	555	265	170	155	330	15,300	478	275	758	3,890
15	1,940	1,350	535	260	170	160	365	12,600	417	251	1,780	4,810
16	2,580	1,280	515	260	165	170	425	10,100	370	271	3,860	3,950
17	2,830	1,200	505	255	165	200	490	8,630	337	341	3,130	3,090
18	2,670	1,100	490	250	165	240	580	7,750	296	540	2,140	2,570
19	2,470	945	480	250	160	360	780	6,830	271	1,420	1,510	2,320
20	2,380	935	465	245	160	425	1,200	6,000	251	1,280	1,060	2,120
21	2,140	1,020	450	240	160	430	1,750	5,190	247	905	1,150	2,370
22	1,980	2,610	440	235	160	415	3,300	5,480	275	664	1,600	3,310
23	2,130	3,650	430	230	160	385	6,000	6,420	632	484	4,650	2,690
24	7,330	4,190	415	225	160	360	7,200	5,830	865	391	15,600	2,200
25	9,760	3,460	405	220	160	345	8,500	4,650	671	361	12,600	1,850
26	7,310	2,470	395	220	160	330	9,400	4,260	580	396	8,550	1,580
27	5,540	2,030	385	215	160	320	10,000	3,930	509	417	5,310	1,340
28	4,170	1,920	375	210	160	310	11,000	3,500	473	406	4,360	1,140
29	3,290	1,640	370	210	-----	300	11,600	2,960	411	450	16,600	1,020
30	2,720	1,520	365	205	-----	290	12,300	2,450	380	484	16,300	966
31	2,330	-----	355	200	-----	285	-----	2,030	-----	422	11,800	-----
TOTAL	89,366	51,760	19,218	8,215	4,850	7,470	88,705	345,010	20,318	23,648	127,005	81,976
MEAN	2,883	1,725	620	265	173	241	2,957	11,130	677	763	4,097	2,733
MAX	9,760	4,190	1,410	350	200	430	12,300	23,600	1,710	2,660	16,600	7,480
MIN	986	935	355	200	160	150	255	2,030	247	251	455	966
CFSM	2.23	1.34	.48	.21	.13	.19	2.29	8.63	.52	.59	3.18	2.12
IN.	2.58	1.49	.55	.24	.14	.22	2.56	9.95	.59	.68	3.66	2.36

CAL YR 1970 TOTAL 771,714 MEAN 2,114 MAX 30,000 MIN 130 CFSM 1.64 IN 22.25
WTR YR 1971 TOTAL 867,541 MEAN 2,377 MAX 23,600 MIN 150 CFSM 1.84 IN 25.02

01010500 St. John River at Dickey, Maine

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

DRAINAGE AREA.--2,700 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft above mean sea level (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.

AVERAGE DISCHARGE.--25 years (1946-71), 4,483 cfs (22.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 52,400 cfs May 5 (gage height, 14.79 ft); maximum gage height, 16.45 ft Apr. 21 (backwater from ice); minimum daily discharge, 370 cfs Mar. 3-10.
Period of record: Maximum discharge, 75,400 cfs May 10, 1969 (gage height, 17.35 ft); maximum gage height, 23.44 ft Apr. 22, 1970 (backwater from ice); minimum discharge, 129 cfs Sept. 17, 1948.

REMARKS.--Records excellent except those for winter period, and period of no gage-height record, which are fair. Records of chemical analyses for water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,300	4,990	2,860	730	455	375	630	22,400	4,600	1,290	850	17,000
2	4,180	4,480	2,650	710	450	375	620	23,700	3,850	1,940	850	11,500
3	4,050	4,080	2,760	700	440	370	610	25,400	3,370	4,050	1,100	8,000
4	4,600	3,800	2,300	675	440	370	605	33,200	3,070	3,600	1,200	6,200
5	6,300	3,540	1,940	665	430	370	600	49,300	2,830	2,650	1,980	5,200
6	5,520	3,320	1,500	650	425	370	600	50,400	2,630	1,980	2,300	4,900
7	4,750	3,200	1,460	635	420	370	600	44,100	2,320	1,620	2,150	4,900
8	3,940	3,020	1,420	625	420	370	600	39,700	2,100	1,590	1,850	5,300
9	3,320	2,830	1,380	610	415	370	600	39,100	2,080	1,480	1,730	5,700
10	2,880	2,610	1,330	600	415	370	600	40,000	2,140	1,390	1,700	5,550
11	2,540	2,500	1,300	590	410	375	610	40,400	2,100	1,160	1,480	5,000
12	2,260	2,560	1,250	580	405	375	625	40,500	1,910	934	1,500	4,400
13	2,260	2,980	1,220	570	400	375	650	39,700	1,620	811	1,570	4,200
14	2,610	3,270	1,180	560	395	375	675	36,100	1,400	733	1,570	4,650
15	3,400	3,050	1,150	550	395	380	725	29,200	1,200	759	2,080	7,200
16	4,630	2,810	1,110	540	390	395	765	23,200	1,050	720	4,780	8,200
17	5,460	2,630	1,080	535	390	430	830	20,200	930	708	6,440	7,000
18	5,600	2,500	1,060	530	385	510	930	18,300	850	976	5,400	6,000
19	5,120	2,220	1,020	520	385	700	1,050	16,300	775	1,310	4,000	5,200
20	5,020	2,080	990	515	380	840	1,220	14,500	725	2,020	3,050	4,750
21	4,750	2,120	960	510	380	855	1,550	13,000	710	2,100	2,500	4,500
22	4,450	3,670	940	500	380	850	2,400	11,800	745	1,640	2,800	4,800
23	5,070	6,960	910	495	380	830	7,000	13,500	720	1,260	4,200	6,000
24	17,400	8,240	880	485	380	795	12,000	13,500	733	1,040	10,000	5,600
25	25,600	7,450	860	485	380	765	14,700	11,100	1,340	1,020	22,500	4,500
26	20,000	5,380	835	490	380	740	16,900	10,800	1,170	934	19,800	3,750
27	14,200	4,250	820	505	375	720	18,500	11,300	990	850	15,500	3,350
28	10,900	3,880	800	505	375	700	20,000	9,840	864	850	9,000	3,050
29	8,600	3,600	780	490	-----	675	21,000	8,200	824	850	11,700	2,800
30	6,920	3,070	760	480	-----	655	22,000	6,720	837	798	29,500	2,700
31	5,770	-----	745	465	-----	645	-----	5,490	-----	798	28,000	-----
TOTAL	206,400	111,090	40,250	17,500	11,275	16,695	150,195	760,950	50,483	43,861	203,080	171,900
MEAN	6,658	3,703	1,298	565	403	539	5,007	24,550	1,683	1,415	6,551	5,730
MAX	25,600	8,240	2,860	730	455	855	22,000	50,400	4,600	4,050	29,500	17,000
MIN	2,260	2,080	745	465	375	370	600	5,490	710	708	850	2,700
CFSM	2.47	1.37	.48	.21	.15	.20	1.85	9.09	.62	.52	2.43	2.12
IN.	2.84	1.53	.55	.24	.16	.23	2.07	10.48	.70	.60	2.80	2.37

CAL YR 1970 TOTAL 1,674,367 MEAN 4,587 MAX 58,400 MIN 225 CFSM 1.70 IN 23.07
WTR YR 1971 TOTAL 1,783,679 MEAN 4,887 MAX 50,400 MIN 370 CFSM 1.81 IN 24.58

PEAK DISCHARGE (BASE, 27,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-05	2300	14.79	52,400				
8-30	-----	-----	31,000				

ST. JOHN RIVER BASIN

01011000 Allagash River near Allagash, Maine

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

DRAINAGE AREA.--1,250 sq mi, approximately (not including 249 sq mi drained by Chamberlain Lake through Telos Canal).

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

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft above mean sea level. Prior to December 1911, non-recording gage at site 3.0 miles downstream at different datum.

AVERAGE DISCHARGE.--40 years (1931-71), 1,859 cfs (20.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 15,800 cfs May 13 (gage height, 9.29 ft); minimum, 448 cfs Aug. 3 (gage height, 2.32 ft).

Period of record: Maximum discharge, 28,800 cfs May 17, 1961 (gage height, 12.21 ft); maximum gage height, 14.16 ft Apr. 23, 1960 (backwater from ice); minimum discharge, 87 cfs Sept. 11, 1960.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake (usable capacity, about 3.4 billion cu ft), 58 miles upstream. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1231: 1911.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	873	2,080	1,000	800	815	525	375	6,300	1,880	760	482	3,390
2	908	1,890	890	795	810	510	370	6,500	1,630	1,390	477	2,850
3	984	1,730	800	790	800	505	370	7,200	1,500	1,140	462	2,440
4	2,400	1,580	730	785	780	490	365	10,000	1,450	903	540	2,140
5	2,590	1,470	660	780	835	475	365	14,700	1,290	799	624	1,930
6	2,150	1,400	620	775	840	465	365	15,500	1,170	742	578	1,900
7	1,840	1,330	580	770	830	455	370	15,100	1,100	728	550	1,940
8	1,590	1,260	560	760	820	445	370	14,300	1,100	801	530	2,110
9	1,390	1,160	790	750	800	435	375	14,400	1,120	824	590	2,020
10	1,230	1,070	980	745	790	425	385	14,900	1,080	774	708	1,780
11	1,130	1,060	960	740	780	410	400	15,300	1,000	683	668	1,600
12	1,040	1,120	940	735	770	405	430	15,600	886	594	651	1,450
13	992	1,120	925	735	760	395	460	15,600	808	530	636	1,420
14	991	1,050	915	730	740	385	510	14,200	779	523	612	1,630
15	1,050	985	900	725	730	375	580	12,300	751	624	908	2,580
16	1,330	983	890	720	720	375	660	10,700	724	689	1,370	3,520
17	1,570	962	880	715	710	385	760	9,640	724	648	1,140	3,170
18	1,550	913	875	710	690	410	890	8,700	688	952	959	2,860
19	1,580	840	870	710	680	460	1,040	7,890	662	1,020	836	2,650
20	1,540	817	865	705	670	480	1,230	7,140	636	826	783	2,460
21	1,470	855	860	700	650	480	1,700	6,380	636	698	757	2,560
22	1,440	1,250	855	695	630	470	2,300	5,640	706	615	770	2,860
23	1,710	1,520	850	695	615	460	3,000	5,190	714	558	2,160	2,890
24	4,450	1,980	840	690	590	440	3,650	4,530	697	576	6,110	2,820
25	5,370	2,020	835	685	580	430	4,150	3,850	722	678	4,850	2,700
26	4,760	1,950	830	700	565	420	4,650	3,680	699	643	3,850	2,570
27	4,130	1,800	825	740	550	410	5,150	3,520	650	562	3,090	2,390
28	3,540	1,500	820	800	540	400	5,600	3,240	595	529	2,810	2,220
29	3,060	1,300	815	820	-----	385	5,900	2,860	566	486	4,030	2,180
30	2,670	1,120	810	830	-----	375	6,150	2,500	600	466	4,180	2,160
31	2,330	-----	805	825	-----	365	-----	2,170	-----	458	3,880	-----
TOTAL	63,658	40,115	25,775	23,155	20,090	13,445	52,920	279,530	27,563	22,219	50,591	71,190
MEAN	2,053	1,337	831	747	718	434	1,764	9,017	919	717	1,632	2,373
MAX	5,370	2,080	1,000	830	840	525	6,150	15,600	1,880	1,390	6,110	3,520
MIN	873	817	560	685	540	365	365	2,170	566	458	462	1,420
CFSM	1.64	1.07	.66	.60	.57	.35	1.41	7.21	.74	.57	1.31	1.90
IN.	1.89	1.19	.77	.69	.60	.40	1.57	8.32	.82	.66	1.51	2.12

CAL YR 1970 TOTAL 700,390 MEAN 1,919 MAX 16,400 MIN 311 CFSM 1.54 IN 20.84

WTR YR 1971 TOTAL 690,251 MEAN 1,891 MAX 15,600 MIN 365 CFSM 1.51 IN 20.54

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 miles upstream from mouth and 6.5 miles west of Connors.

DRAINAGE AREA.--520 sq mi.

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

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

AVERAGE DISCHARGE.--20 years, 851 cfs (22.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,270 cfs May 13 (gage height, 10.36 ft); minimum, 114 cfs Mar. 3 (gage height, 2.27 ft).

Period of record: Maximum discharge, 13,000 cfs May 12, 1969 (gage height, 14.01 ft); minimum, 68 cfs Sept. 11, 12, 1960, Oct. 3, 1968.

CORRECTIONS.--The maximum discharge for water year 1952 occurred on May 2, 1952; the date previously published in WSP 1231 and 1721 was in error.

REMARKS.--Records excellent.

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

REVISIONS.--WSP 1621: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	1,480	666	241	137	117	136	2,690	1,520	329	189	2,490
2	977	1,360	633	233	136	116	133	2,910	1,420	342	178	2,280
3	942	1,260	602	228	135	114	139	3,170	1,320	324	175	2,010
4	929	1,140	568	219	134	115	141	3,640	1,230	304	173	1,760
5	892	1,040	539	219	133	115	143	4,680	1,150	291	165	1,560
6	845	980	502	217	132	115	143	6,000	1,070	284	157	1,390
7	803	909	478	209	131	116	150	6,740	999	290	152	1,300
8	757	850	444	202	130	116	164	6,800	929	295	144	1,250
9	716	797	419	201	129	117	164	6,810	861	284	154	1,200
10	672	751	410	196	128	118	169	6,810	796	274	151	1,150
11	632	714	397	194	128	118	174	7,010	734	265	147	1,080
12	597	690	386	191	127	118	180	7,150	674	252	152	1,020
13	587	664	374	184	127	118	193	7,220	617	236	146	1,000
14	563	648	367	178	126	118	215	7,000	562	238	140	1,070
15	550	623	361	178	126	122	246	6,450	523	256	164	1,200
16	552	610	354	173	125	126	291	5,650	493	238	171	1,290
17	557	592	343	167	124	126	334	4,890	472	238	169	1,370
18	572	574	331	162	123	125	391	4,230	452	252	171	1,390
19	569	546	317	158	123	125	443	3,750	426	247	170	1,320
20	564	517	313	158	122	129	536	3,480	404	247	171	1,240
21	552	509	296	151	122	136	702	3,240	387	244	175	1,150
22	550	533	288	150	122	138	986	3,000	369	238	174	1,050
23	582	624	286	147	121	140	1,320	2,760	346	228	255	974
24	789	728	282	144	120	144	1,660	2,540	334	231	403	911
25	1,230	799	278	141	119	148	1,910	2,330	319	237	519	834
26	1,800	812	272	138	119	146	2,070	2,150	304	229	718	771
27	2,080	792	267	147	116	147	2,180	2,030	292	224	898	715
28	2,080	763	259	145	118	148	2,270	1,930	269	220	1,000	669
29	1,950	738	251	142	-----	147	2,410	1,820	253	207	1,230	629
30	1,790	704	245	140	-----	144	2,540	1,720	280	200	1,790	595
31	1,630	-----	242	138	-----	139	-----	1,610	-----	193	2,380	-----
TOTAL	29,339	23,747	11,770	5,491	3,533	3,961	22,533	132,210	19,805	7,937	12,781	36,668
MEAN	946	792	380	177	126	128	751	4,265	660	256	412	1,222
MAX	2,080	1,480	666	241	137	148	2,540	7,220	1,520	342	2,380	2,490
MIN	550	509	242	138	116	114	133	1,610	253	193	140	595
CFSM	1.82	1.52	.73	.34	.24	.25	1.44	8.20	1.27	.49	.79	2.35
IN.	2.10	1.70	.84	.39	.25	.28	1.61	9.46	1.42	.57	.91	2.62

CAL YR 1970 TOTAL 327,802 MEAN 898 MAX 8,790 MIN 97 CFSM 1.73 IN 23.45
WTR YR 1971 TOTAL 309,775 MEAN 849 MAX 7,220 MIN 114 CFSM 1.63 IN 22.16

01013500 Fish River near Fort Kent, Maine

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, on right bank 300 ft upstream from highway bridge at Fort Kent Mills, 2 miles upstream from mouth, and 2 miles south of Fort Kent.

DRAINAGE AREA.--871 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft above mean sea level. July 1903 to December 1908 and May to November 1911 nonrecording gage at site 10 miles upstream at different datum.

AVERAGE DISCHARGE.--47 years (1903-8, 1929-71), 1,357 cfs (21.16 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,500 cfs May 12, 13 (gage height, 9.78 ft); minimum daily, 310 cfs Mar. 18-20.

Period of record: Maximum discharge, 13,400 cfs May 16, 1961 (gage height, 11.49 ft); minimum, 34 cfs Aug. 29, 1968.

REMARKS.--Records good except those for winter period, which are fair. Large lake area above station has not yet been developed for storage. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	2,430	1,230	460	385	335	330	5,200	2,700	639	399	1,200
2	1,050	2,330	1,230	450	380	330	325	5,490	2,510	671	388	1,190
3	1,280	2,210	1,170	450	380	330	320	5,800	2,350	655	391	1,160
4	2,320	2,110	1,120	440	375	325	320	7,490	2,160	670	398	1,130
5	2,670	2,010	1,060	435	375	325	320	9,150	1,970	664	387	1,100
6	2,950	1,940	1,040	430	370	325	320	9,760	1,840	650	378	1,080
7	3,060	1,870	960	425	370	320	325	9,910	1,740	660	373	1,040
8	3,050	1,780	864	420	370	320	330	9,900	1,630	660	366	1,080
9	2,980	1,690	810	420	370	320	340	10,000	1,520	630	386	1,020
10	2,880	1,620	760	410	370	320	350	10,200	1,420	593	394	963
11	2,770	1,570	740	410	370	320	360	10,400	1,310	544	396	913
12	2,640	1,520	715	405	365	320	390	10,400	1,220	505	394	888
13	2,540	1,450	690	400	365	315	430	10,300	1,130	484	390	884
14	2,440	1,370	670	390	360	315	480	9,850	1,050	475	370	931
15	2,380	1,350	655	390	360	315	540	9,210	982	458	441	1,040
16	2,410	1,330	640	385	355	315	620	8,570	931	439	443	1,060
17	2,360	1,290	630	380	355	315	700	7,940	909	467	430	1,060
18	2,400	1,240	610	375	355	310	790	7,310	848	531	415	1,090
19	2,360	1,190	600	370	350	310	950	6,710	791	493	408	1,100
20	2,320	1,150	580	365	350	310	1,300	6,160	750	487	410	1,100
21	2,270	1,190	570	360	350	320	1,730	5,650	723	479	393	1,110
22	2,220	1,210	550	360	350	345	2,150	5,230	706	468	386	1,080
23	2,260	1,270	540	355	345	360	2,610	5,010	680	455	756	1,050
24	2,590	1,310	525	350	345	365	3,040	4,660	648	451	934	1,010
25	2,660	1,310	515	350	340	370	3,370	4,370	603	459	822	954
26	2,760	1,290	505	355	340	370	3,760	4,180	575	451	813	909
27	2,780	1,280	495	370	335	360	4,090	3,900	530	445	808	866
28	2,750	1,270	485	380	335	355	4,420	3,630	493	420	925	830
29	2,700	1,290	480	385	-----	350	4,690	3,380	481	410	1,170	811
30	2,610	1,290	470	390	-----	345	4,940	3,150	547	410	1,180	768
31	2,520	-----	465	390	-----	335	-----	2,910	-----	398	1,210	-----
TOTAL	76,020	46,160	22,374	12,255	10,070	10,270	44,640	215,820	35,747	16,221	17,354	30,417
MEAN	2,452	1,539	722	395	360	331	1,488	6,962	1,192	523	560	1,014
MAX	3,060	2,430	1,230	460	385	370	4,940	10,400	2,700	671	1,210	1,200
MIN	1,040	1,150	465	350	335	310	320	2,910	481	398	366	768
CFSM	2.82	1.77	.83	.45	.41	.38	1.71	7.99	1.37	.60	.64	1.16
IN.	3.25	1.97	.96	.52	.43	.44	1.91	9.22	1.53	.69	.74	1.30

CAL YR 1970 TOTAL 539,228 MEAN 1,477 MAX 9,170 MIN 144 CFSM 1.70 IN 23.03
WTR YR 1971 TOTAL 537,348 MEAN 1,472 MAX 10,400 MIN 310 CFSM 1.69 IN 22.95

01014000 St. John River below Fish River, at Fort Kent, Maine

(International gaging station)

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

DRAINAGE AREA.--5,690 sq mi, approximately (not including 249 sq mi drained by Chamberlain Lake through Telos Canal).

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

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

AVERAGE DISCHARGE.--45 years, 9,406 cfs (22.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 89,600 cfs May 6 (gage height, 20.83 ft); minimum, 2,060 cfs July 31 (gage height, 2.30 ft).
Period of record: Maximum discharge, 131,000 cfs May 16, 1961 (gage height, 25.30 ft); minimum daily, 510 cfs Mar. 13-15, 1948.

REMARKS.--Records excellent except those for winter months, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,780	12,300	6,680	2,280	1,980	1,500	1,630	39,600	11,800	3,240	2,130	26,800
2	8,520	11,200	6,150	2,220	1,930	1,490	1,610	41,200	10,400	4,140	2,120	19,100
3	8,720	10,400	6,500	2,200	1,890	1,480	1,600	44,400	9,310	5,470	2,150	15,000
4	10,900	9,680	5,570	2,180	1,870	1,470	1,590	55,300	8,570	6,120	2,480	12,400
5	12,000	9,040	4,750	2,150	1,820	1,460	1,580	81,000	7,830	5,110	2,570	10,700
6	12,400	8,590	4,450	2,120	1,800	1,450	1,550	88,900	7,160	4,260	3,860	9,770
7	11,600	8,100	4,100	2,100	1,780	1,440	1,530	84,200	6,660	3,910	3,780	9,710
8	10,600	7,660	3,900	2,080	1,770	1,430	1,520	77,200	6,150	3,850	3,240	10,600
9	9,520	7,180	3,750	2,050	1,750	1,420	1,510	75,600	5,940	3,740	3,170	11,500
10	8,650	6,790	3,600	2,020	1,730	1,410	1,500	77,300	5,730	3,510	3,210	11,400
11	7,900	6,480	3,500	2,000	1,720	1,400	1,520	79,100	5,490	3,240	3,140	10,500
12	7,300	6,370	3,400	1,980	1,700	1,400	1,580	79,900	5,120	2,870	2,980	8,930
13	7,090	6,550	3,300	1,970	1,700	1,390	1,620	79,300	4,680	2,530	2,990	8,080
14	7,090	6,790	3,200	1,920	1,700	1,390	1,700	74,000	4,300	2,380	2,910	8,600
15	7,510	6,610	3,100	1,900	1,700	1,400	1,880	63,100	3,970	2,450	3,410	12,600
16	8,880	6,350	3,050	1,900	1,670	1,470	2,100	52,900	3,750	2,510	5,000	15,800
17	10,300	6,050	2,950	1,880	1,660	1,580	2,550	46,000	3,630	2,480	8,230	14,000
18	10,700	5,750	2,900	1,870	1,620	1,750	3,050	41,300	3,450	2,800	7,040	12,200
19	10,300	5,350	2,850	1,870	1,610	1,890	3,700	37,100	3,210	3,310	5,310	10,900
20	9,850	5,020	2,750	1,870	1,600	1,910	5,200	33,500	3,040	3,470	4,230	9,900
21	9,600	5,080	2,700	1,860	1,590	1,900	7,000	30,100	2,900	3,910	3,580	9,440
22	9,280	6,020	2,650	1,850	1,580	1,880	8,500	26,800	2,900	3,450	3,210	9,600
23	9,550	9,310	2,550	1,840	1,570	1,860	11,500	26,500	2,890	2,960	5,520	10,800
24	18,600	10,800	2,500	1,830	1,560	1,830	18,000	26,200	2,800	2,700	24,800	9,900
25	33,900	12,100	2,450	1,820	1,550	1,810	30,000	23,300	2,870	2,640	34,200	8,850
26	30,400	10,300	2,400	1,820	1,530	1,790	33,200	21,500	3,210	2,650	26,200	8,080
27	24,400	8,880	2,380	1,820	1,510	1,760	34,300	21,500	2,940	2,480	19,000	7,540
28	20,400	8,310	2,350	1,830	1,500	1,730	37,000	19,700	2,640	2,340	14,800	6,840
29	17,200	7,900	2,300	1,920	-----	1,710	37,600	17,300	2,450	2,270	21,300	6,390
30	15,200	7,420	2,260	2,000	-----	1,690	38,300	15,300	2,640	2,180	43,000	6,090
31	13,600	-----	2,240	2,020	-----	1,680	-----	13,400	-----	2,100	36,200	-----
TOTAL	390,740	238,380	107,230	61,170	47,390	49,770	295,920	1,492.5M	148,430	101,070	305,760	332,020
MEAN	12,600	7,946	3,459	1,973	1,693	1,605	9,864	48,150	4,948	3,260	9,863	11,070
MAX	33,900	12,300	6,680	2,280	1,980	1,910	38,300	88,900	11,800	6,120	43,000	26,800
MIN	7,090	5,020	2,240	1,820	1,500	1,390	1,500	13,400	2,450	2,100	2,120	6,090
CFSM	2.21	1.40	.61	.35	.30	.28	1.73	8.46	.87	.57	1.73	1.95
IN.	2.55	1.56	.70	.40	.31	.33	1.93	9.76	.97	.66	2.00	2.17
CAL YR 1970	TOTAL 3,522,425	MEAN 9,650	MAX 94,100	MIN 848	CFSM 1.70	IN 23.03						
WTR YR 1971	TOTAL 3,570,380	MEAN 9,782	MAX 88,900	MIN 1,390	CFSM 1.72	IN 23.34						

PEAK DISCHARGE (BASE, 45,000 CFS)

M Expressed in thousands.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-06	0600	20.83	89,600	8-30	1300	14.71	45,300

01015800 Aroostook River near Masardis, Maine

LOCATION.--Lat 46°31'21", long 68°22'23", Aroostook County, on left bank 80 ft upstream from highway bridge and 1.8 miles downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--888 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 1,413 cfs (21.61 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 15,700 cfs May 6 (gage height, 14.49 ft); minimum, 190 cfs Aug. 2, 3 (gage height, 2.67 ft).

Period of record: Maximum discharge, 21,500 cfs Apr. 25, 1958 (gage height, 16.30 ft); maximum recorded gage height, 16.44 ft Dec. 23, 1957 (ice jam); minimum discharge, 41 cfs Sept. 26, 27, 1968 (gage height, 1.89 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Considerable regulation by Millinocket Lake (capacity, 1,110,000,000 cu ft) used for power. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	474	1,460	1,020	455	440	470	440	5,850	1,350	402	205	549
2	530	1,350	940	445	420	455	440	6,350	1,160	553	196	474
3	656	1,240	950	430	405	445	435	7,110	1,020	611	203	413
4	4,550	1,150	860	420	395	430	435	9,430	958	523	250	370
5	5,940	1,080	790	410	380	420	430	14,300	941	440	397	345
6	4,700	1,070	740	450	375	410	430	15,400	830	382	427	342
7	3,590	1,060	705	470	370	425	430	14,300	742	363	387	343
8	2,770	1,010	660	470	370	445	430	12,800	703	342	337	335
9	2,210	945	620	455	365	465	430	11,800	666	316	325	324
10	1,810	873	600	490	365	470	435	11,500	624	295	368	311
11	1,530	846	570	520	360	475	440	11,500	572	268	364	289
12	1,320	881	550	520	360	475	455	11,200	522	244	360	296
13	1,160	899	530	515	360	470	470	11,000	479	222	371	385
14	1,040	869	520	510	370	465	485	10,500	442	220	347	536
15	1,060	835	510	505	400	465	515	9,170	418	225	313	1,090
16	1,760	855	495	495	490	465	560	7,780	393	229	285	1,900
17	2,550	885	480	485	545	470	620	6,700	392	228	263	1,800
18	2,650	864	470	480	595	480	700	5,870	383	298	239	1,600
19	2,650	790	460	470	625	490	800	5,130	357	401	219	1,470
20	2,470	733	450	460	630	500	950	4,410	332	420	200	1,300
21	2,220	801	440	455	620	505	1,400	3,750	348	411	211	1,170
22	2,020	1,160	435	450	605	510	2,000	3,340	693	375	212	1,150
23	1,920	1,520	425	445	590	510	2,650	3,640	755	330	212	1,060
24	2,310	2,140	415	435	565	505	3,100	3,710	610	304	249	935
25	2,920	2,170	410	435	540	485	3,600	3,220	504	297	408	835
26	2,910	1,680	440	425	520	480	4,000	2,770	459	288	447	720
27	2,590	1,470	465	430	500	470	4,400	2,550	431	267	408	632
28	2,270	1,310	480	435	485	465	4,800	2,350	384	258	378	567
29	2,010	1,200	480	445	-----	460	5,100	2,090	343	242	452	514
30	1,780	1,100	475	450	-----	455	5,450	1,830	339	227	622	475
31	1,610	-----	465	450	-----	450	-----	1,580	-----	215	615	-----
TOTAL	69,980	34,246	17,850	14,310	13,045	14,485	46,830	222,930	18,150	10,196	10,270	22,530
MEAN	2,257	1,142	576	462	466	467	1,561	7,191	605	329	331	751
MAX	5,940	2,170	1,020	520	630	510	5,450	15,400	1,350	611	622	1,900
MIN	474	733	410	410	360	410	430	1,580	332	215	196	289
MEAN*	2,435	1,185	580	262	327	463	1,728	7,386	519	267	285	803
CFSM*	2.74	1.33	.65	.30	.37	.52	1.95	8.32	.58	.30	.32	.90
IN. *	3.16	1.48	.75	.34	.38	.60	2.18	9.59	.65	.35	.37	1.01
CAL YR 1970	TOTAL 580,015	MEAN 1,589	MAX 13,900	MIN 130	MEAN* 1,586	CFSM* 1.79	IN* 24.24					
WTR YR 1971	TOTAL 494,822	MEAN 1,356	MAX 15,400	MIN 196	MEAN* 1,365	CFSM* 1.54	IN* 20.86					

* Adjusted for change in contents in Millinocket Lake. Records furnished by Maine Public Service Co.

01016500 Machias River near Ashland, Maine

LOCATION.--Lat 46°37'42", long 68°26'07", Aroostook County, on right bank 100 ft upstream from highway bridge, 0.8 mile upstream from mouth, and 1.5 miles west of Ashland.

DRAINAGE AREA.--330 sq mi.

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

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

AVERAGE DISCHARGE.--20 years, 542 cfs (22.30 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,500 cfs May 5; minimum, 52 cfs Aug. 3 (gage height, 0.60 ft).
Period of record: Maximum discharge, 16,600 cfs June 29, 1954 (gage height, 11.94 ft), from rating curve extended above 7,900 cfs; minimum, 5.4 cfs Sept. 17, 1952.

REMARKS.--Records excellent except those for winter period, and period of no gage-height record, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	534	360	160	110	82	78	3,500	429	114	59	477
2	210	486	350	155	110	81	77	3,700	380	134	55	397
3	350	454	370	155	105	81	76	4,300	346	133	63	336
4	1,750	420	300	150	100	80	76	5,600	320	116	181	289
5	2,200	398	275	150	100	80	76	7,100	298	102	286	258
6	1,800	390	265	145	98	79	76	6,720	266	93	283	238
7	1,400	366	260	140	96	78	76	5,930	244	91	254	223
8	1,050	350	255	140	95	78	77	5,020	220	91	214	208
9	800	319	250	135	94	78	78	4,670	224	92	202	196
10	650	303	245	135	93	77	80	4,670	210	87	207	183
11	550	297	240	130	92	77	83	4,790	188	81	192	167
12	490	301	235	130	92	76	87	4,820	175	74	201	164
13	445	302	230	125	91	76	91	4,730	157	68	222	194
14	410	298	225	125	91	75	98	4,300	143	66	215	241
15	428	298	220	120	93	75	105	3,590	139	79	193	435
16	684	299	215	120	100	76	115	2,900	132	91	177	771
17	924	296	210	120	120	80	130	2,410	130	85	168	947
18	966	289	210	115	130	83	150	2,080	130	143	154	949
19	932	264	205	115	125	88	180	1,810	112	174	136	870
20	846	254	200	115	115	92	220	1,580	105	154	122	760
21	745	279	195	110	110	94	400	1,360	106	139	119	658
22	684	392	190	110	100	94	700	1,230	132	119	114	625
23	671	525	185	110	96	92	1,450	1,260	138	101	115	566
24	875	788	180	110	92	90	1,900	1,160	127	91	190	493
25	1,090	825	180	110	89	88	2,300	986	126	90	386	435
26	1,130	597	175	105	86	87	2,500	896	131	87	489	374
27	1,040	530	170	110	85	85	2,750	836	130	78	442	329
28	910	475	170	120	84	84	2,900	763	117	71	374	295
29	779	425	165	130	-----	82	3,100	658	102	66	418	270
30	662	390	165	120	-----	80	3,300	569	98	61	526	250
31	587	-----	160	115	-----	79	-----	489	-----	59	540	-----
TOTAL	26,238	12,144	7,055	3,930	2,792	2,547	23,329	94,427	5,555	3,030	7,297	12,598
MEAN	846	405	228	127	99.7	82.2	778	3,046	185	97.7	235	420
MAX	2,200	825	370	160	130	94	3,300	7,100	429	174	540	949
MIN	180	254	160	105	84	75	76	489	98	59	55	164
CFSM	2.56	1.23	.69	.38	.30	.25	2.36	9.23	.56	.30	.71	1.27
IN.	2.96	1.37	.80	.44	.31	.29	2.63	10.64	.63	.34	.82	1.42

CAL YR 1970 TOTAL 198,073 MEAN 543 MAX 5,640 MIN 31 CFSM 1.65 IN 22.33
WTR YR 1971 TOTAL 200,942 MEAN 551 MAX 7,100 MIN 55 CFSM 1.67 IN 22.65

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	Note.--No gage-height record Apr. 17 to May 5.
5-05	----	----	7,500					

01017000 Aroostook River at Washburn, Maine

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

DRAINAGE AREA.--1,652 sq mi.

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

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

AVERAGE DISCHARGE.--41 years, 2,567 cfs (21.10 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 28,000 cfs May 5, computed from graph based on gage readings; maximum gage height, 11.23 ft Apr. 24 (backwater from ice); minimum daily discharge, 338 cfs Aug. 2.
Period of record: Maximum discharge, 37,800 cfs Mar. 22, 1936 (gage height, 13.80 ft, present datum); maximum gage height, 15.78 ft Apr. 6, 1951 (backwater from ice); minimum daily discharge, 75 cfs Feb. 13-15, 1948.

REMARKS.--Records excellent except those for period of backwater from cofferdam and for winter period, which are fair. Considerable regulation by Squa Pan Lake (capacity, 2,893,000,000 cu ft), and by Millinocket Lake (capacity, 1,110,000,000 cu ft) used for power.

REVISIONS (WATER YEARS).--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,130	2,700	1,970	980	920	940	885	12,100	2,650	611	358	1,290
2	1,280	2,500	1,800	955	915	920	870	13,000	2,300	807	338	1,110
3	1,620	2,390	1,850	940	910	900	855	13,500	2,000	927	380	948
4	8,000	2,200	1,530	925	900	885	840	15,500	1,750	885	593	852
5	10,500	2,100	1,420	920	890	870	820	25,500	1,650	770	936	767
6	8,500	2,040	1,340	990	870	860	810	27,000	1,450	648	1,010	692
7	6,800	2,000	1,270	1,040	850	860	805	24,000	1,300	594	911	661
8	5,200	1,920	1,220	1,040	830	870	800	23,800	1,200	595	803	643
9	4,090	1,800	1,180	1,030	815	900	800	21,500	1,120	566	709	617
10	3,200	1,720	1,150	1,090	800	915	800	20,300	1,080	522	697	589
11	2,700	1,680	1,100	1,130	790	930	800	20,200	950	473	743	554
12	2,350	1,700	1,080	1,120	780	940	815	20,200	850	429	759	539
13	2,200	1,700	1,060	1,100	780	940	855	20,000	790	396	760	590
14	2,100	1,660	1,040	1,070	810	940	920	19,000	750	392	737	756
15	2,100	1,600	1,020	1,060	890	920	990	17,000	700	385	673	1,230
16	3,200	1,610	1,010	1,030	960	900	1,100	14,500	630	408	607	2,630
17	4,300	1,640	990	1,010	1,100	900	1,220	12,500	640	412	562	3,190
18	4,850	1,630	970	990	1,160	905	1,380	10,500	600	493	518	3,020
19	4,850	1,560	960	970	1,220	930	1,550	9,300	570	686	475	2,830
20	4,550	1,480	940	950	1,240	970	1,850	8,200	520	753	435	2,550
21	4,050	1,460	930	935	1,220	1,010	2,500	7,200	500	704	411	2,230
22	3,750	2,000	920	920	1,180	1,060	4,000	6,400	550	646	405	2,090
23	3,600	3,000	915	905	1,150	1,120	5,150	6,300	1,080	576	431	1,970
24	4,300	4,000	910	890	1,120	1,100	6,100	6,900	989	516	477	1,750
25	5,200	4,250	900	870	1,080	1,080	7,000	6,300	867	504	566	1,550
26	5,200	3,450	930	855	1,040	1,030	8,000	5,500	834	497	1,030	1,350
27	4,850	3,050	970	840	1,000	1,000	8,900	5,100	758	464	1,040	1,160
28	4,150	2,700	1,030	845	960	970	9,700	4,600	673	428	937	1,030
29	3,700	2,450	1,030	860	-----	940	10,700	4,100	602	405	942	935
30	3,350	2,180	1,020	880	-----	920	11,400	3,500	560	383	1,250	876
31	3,050	-----	995	900	-----	905	-----	3,050	-----	369	1,400	-----
TOTAL	129,540	66,160	35,450	30,040	27,180	29,330	93,215	406,550	30,913	17,245	21,993	40,999
MEAN	4,146	2,205	1,144	969	971	946	3,107	13,110	1,030	556	709	1,367
MAX	10,500	4,250	1,970	1,130	1,240	1,120	11,400	27,000	2,650	927	1,400	3,130
MIN	1,130	1,460	900	840	780	860	800	3,050	500	369	338	539
MEAN*	4,426	2,208	1,029	531	529	651	3,641	13,690	944	494	654	1,411
CFSM*	2.68	1.34	.62	.32	.32	.39	2.20	8.29	.57	.30	.40	.85
IN. *	3.09	1.50	.72	.37	.33	.45	2.46	9.56	.64	.34	.46	.95
CAL YR 1970 TOTAL	1,036,213		MEAN 2,839	MAX 24,400	MIN 239	MEAN* 2,822	CFSM* 1.71	IN* 23.19				
WTK YR 1971 TOTAL	927,595		MEAN 2,541	MAX 27,000	MIN 338	MEAN* 2,539	CFSM* 1.54	IN* 20.87				

* Adjusted for change in contents in Millinocket and Squa Pan Lakes. Records furnished by Maine Public Service Co.

Note.--Once daily gage-height readings only May 3 to June 22. Stage-discharge relation affected by cofferdam or ice Oct. 1 to May 1.

01017900 Marley Brook near Ludlow, Maine

LOCATION.--Lat 46°08'42", long 68°03'42", Aroostook County, on left bank at upstream entrance of culvert under U.S. Route 2, 2,200 ft upstream from mouth, and 1.1 miles west of Ludlow.

DRAINAGE AREA.--1.47 sq mi.

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage 610 ft (topographic map).

AVERAGE DISCHARGE.--7 years (1965-71), 2.39 cfs (22.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 72 cfs May 4 (gage height, 5.75 ft); minimum daily, 0.04 cfs July 25, 26, Sept. 4, 11.

Period of record: Maximum discharge, 140 cfs Nov. 3, 1966 (gage height, 7.13 ft); minimum discharge, 0.02 cfs Aug. 31, Sept. 1-4, 1966 and Aug. 12, 1968.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	1.0	1.6	.56	.62	1.5	1.4	19	.69	.51	.11	.05
2	.64	.93	1.5	.56	.58	1.5	1.4	19	.59	.68	.11	.05
3	.47	.88	1.7	.56	.56	1.4	2.5	23	.52	.37	.12	.05
4	1.4	.94	1.6	.56	.56	1.4	6.8	47	.61	.26	.13	.04
5	.96	.94	1.4	.56	.56	1.4	6.6	26	.46	.18	.07	.09
6	.71	1.5	1.2	.56	.56	1.4	4.7	12	.33	.14	.07	.07
7	.61	1.5	1.1	.56	.56	1.4	3.9	10	.31	.09	.05	.05
8	.53	1.5	.95	.56	.56	1.4	3.7	8.7	2.5	.09	.05	.05
9	.43	1.3	.87	.55	.58	1.4	3.1	7.0	4.2	.09	.08	.05
10	.37	1.1	.80	.55	.60	1.3	3.1	5.3	1.5	.09	.05	.05
11	.37	1.3	.78	.55	.63	1.3	4.2	4.3	1.0	.12	.33	.04
12	.32	1.4	.76	.55	.67	1.3	8.4	3.3	.77	.14	.86	.29
13	.28	1.2	.73	.55	.80	1.3	17	3.0	.57	.10	.35	.87
14	.37	1.1	.72	.55	1.8	1.3	31	3.4	.41	.28	.20	.69
15	.74	1.0	.69	.55	4.1	1.3	26	2.2	.43	.31	.16	1.8
16	2.4	1.2	.67	.55	5.4	1.4	10	1.8	.41	.29	.11	.88
17	1.8	1.2	.65	.46	4.0	1.5	6.8	1.7	.73	.24	.11	.56
18	1.6	1.1	.64	.43	3.1	1.8	6.9	1.5	.38	.37	.11	.40
19	1.9	.97	.62	.33	2.6	2.6	10	1.3	.22	.14	.10	.31
20	1.6	.94	.61	.37	2.0	3.0	25	1.1	.18	.11	.09	.29
21	1.4	2.3	.60	.37	1.9	2.5	25	1.0	.22	.11	.09	.26
22	1.6	2.2	.60	.37	1.8	1.8	22	1.1	.36	.09	.08	.25
23	1.6	5.5	.59	.37	1.7	1.4	22	2.2	.33	.05	.11	.22
24	2.9	5.2	.58	.37	1.7	1.4	19	1.5	.26	.05	.10	.22
25	2.0	3.2	.58	.37	1.6	1.3	24	1.1	.22	.04	.07	.22
26	1.6	2.4	.57	.38	1.6	1.2	22	2.0	.29	.04	.07	.22
27	1.4	2.1	.57	.75	1.5	1.3	20	1.6	.29	.06	.07	.22
28	1.2	1.9	.57	2.0	1.5	1.3	18	1.5	.38	.09	.09	.21
29	1.1	1.8	.57	1.7	-----	1.3	1+	1.3	.23	.07	.10	.18
30	1.1	1.7	.57	1.4	-----	1.3	14	.97	.36	.05	.07	.16
31	1.1	-----	.57	.70	-----	1.4	-----	.87	-----	.06	.07	-----
TOTAL	35.09	51.30	25.96	19.30	44.14	47.1	395.5	215.74	19.74	5.31	4.18	8.84
MEAN	1.13	1.71	.84	.62	1.58	1.52	13.2	6.56	.66	.17	.13	.29
MAX	2.9	5.5	1.7	2.0	5.4	3.0	31	47	4.2	.68	.86	1.8
MIN	.28	.88	.57	.37	.56	1.2	1.4	.87	.18	.04	.05	.04
CFSM	.77	1.16	.57	.42	1.07	1.03	8.98	4.73	.45	.12	.09	.20
IN.	.89	1.30	.66	.49	1.12	1.19	10.01	5.46	.50	.13	.11	.22

CAL YR 1970 TOTAL 717.15 MEAN 1.96 MAX 56 MIN .07 CFSM 1.33 IN 18.15
WTR YR 1971 TOTAL 872.20 MEAN 2.39 MAX 47 MIN .04 CFSM 1.63 IN 22.07

PEAK DISCHARGE (BASE, 25 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	1500	4.87	34	5-04	0615	5.75	72
4-25	2000	4.89	35				

01018000 Meduxnekeag River near Houlton, Maine

LOCATION.--Lat 46°06'17", long 67°52'00", Aroostook County, on right bank 0.3 mile downstream from South Branch, and 2.0 miles upstream from Houlton.

DRAINAGE AREA.--175 sq mi.

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

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

AVERAGE DISCHARGE.--31 years, 286 cfs (22.19 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,320 cfs May 5 (gage height, 7.01 ft); minimum, 7.2 cfs Sept. 3, 4, 12 (gage height, 2.25 ft).

Period of record: Maximum discharge, 6,620 cfs Apr. 23, 1958 (gage height, 9.30 ft); maximum gage height, 10.83 ft Mar. 27, 1953 (backwater from ice); minimum discharge, 3.6 cfs Sept. 19, 1946 (gage height, 2.09 ft).

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

REVISIONS (WATER YEARS).--WSP 1031: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	138	205	120	140	250	200	1,650	179	59	12	9.1
2	121	132	200	120	130	240	195	1,740	152	82	11	8.2
3	109	122	205	120	125	235	210	1,800	138	74	12	8.1
4	142	116	190	115	120	230	275	2,390	134	57	23	7.8
5	169	116	185	115	120	220	450	3,230	116	47	19	8.7
6	135	158	180	115	120	215	570	2,740	101	40	16	13
7	113	180	175	110	115	210	540	2,110	91	36	14	13
8	100	176	170	110	115	210	520	1,700	120	37	12	12
9	86	158	170	110	115	205	495	1,470	318	34	15	11
10	79	141	165	110	120	200	480	1,330	284	30	16	9.6
11	74	138	165	110	120	200	500	1,200	215	26	16	8.9
12	68	138	160	110	130	195	560	1,090	163	22	23	9.9
13	63	138	160	105	145	190	800	979	129	19	26	24
14	63	128	155	105	165	190	1,350	912	109	20	22	32
15	67	125	150	105	200	190	1,800	794	95	22	20	52
16	249	144	150	105	325	190	1,700	656	85	21	17	53
17	388	148	145	105	375	200	1,500	558	90	19	16	47
18	422	138	145	105	395	210	1,390	489	84	25	14	38
19	434	128	140	100	385	240	1,520	425	73	24	13	31
20	382	119	140	100	360	270	1,970	366	64	26	12	26
21	312	148	140	100	345	295	2,370	319	58	25	11	23
22	262	213	135	100	320	295	2,400	315	58	22	11	20
23	239	349	135	99	310	280	2,340	404	54	18	12	18
24	307	591	135	98	295	265	2,250	379	49	16	14	16
25	349	544	130	98	285	250	2,180	307	59	18	13	14
26	307	388	130	100	275	240	2,310	351	57	17	9.8	12
27	253	317	125	110	265	230	2,160	381	53	18	9.0	10
28	213	267	125	135	255	220	2,050	353	45	16	9.7	10
29	184	240	125	165	-----	210	1,910	325	39	15	13	10
30	166	220	120	160	-----	205	1,740	263	40	13	13	10
31	151	-----	120	150	-----	200	-----	212	-----	12	11	-----
TOTAL	6,129	6,058	4,775	3,510	6,170	6,980	38,735	31,238	3,252	910	455.5	565.3
MEAN	198	202	154	113	220	225	1,291	1,008	108	29.4	14.7	18.8
MAX	434	591	205	165	395	295	2,400	3,230	318	82	26	53
MIN	63	116	120	98	115	190	195	212	39	12	9.0	7.8
CFSM	1.13	1.15	.88	.65	1.26	1.29	7.38	5.76	.62	.17	.08	.11
IN.	1.30	1.29	1.02	.75	1.31	1.48	8.23	6.64	.69	.19	.10	.12

CAL YR 1970 TOTAL 101,067.0 MEAN 277 MAX 3,950 MIN 34 CFSM 1.58 IN 21.48
WTR YR 1971 TOTAL 108,777.8 MEAN 298 MAX 3,230 MIN 7.9 CFSM 1.70 IN 23.12

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-21	2200	6.17	2,470	5-05	1000	7.01	3,320

01018500 St. Croix River at Vanceboro, Maine

(International gaging station)

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

DRAINAGE AREA.--417 sq mi.

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

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

AVERAGE DISCHARGE.--43 years, 703 cfs (22.89 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,540 cfs May 5 (gage height, 9.31 ft); minimum daily, 224 cfs Sept. 30.

Period of record: Maximum discharge, 4,980 cfs May 30, 1961 (gage height, 9.65 ft); minimum daily, 1.9 cfs Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes (combined usable capacity, about 13,200,000,000 cu ft). Final regulation is at Spednik Lake Dam about 400 ft upstream.

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

REVISIONS.--WSP 1431: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	520	1,090	733	935	800	278	683	1,670	901	810	947	941
2	520	1,090	732	936	799	279	683	1,670	899	810	927	915
3	515	1,080	737	934	798	280	682	2,430	891	810	914	892
4	515	1,070	738	934	785	280	694	3,370	883	800	892	874
5	515	1,070	745	934	769	469	701	4,200	885	800	870	858
6	510	1,070	734	917	769	663	708	4,190	874	1,010	858	834
7	510	1,070	733	916	774	662	712	4,020	874	1,430	849	704
8	510	1,050	740	917	771	646	721	4,120	872	2,050	843	571
9	505	1,050	731	904	766	664	725	4,070	871	2,580	841	567
10	505	1,050	734	899	762	664	732	2,730	868	2,520	841	556
11	505	1,060	733	899	764	672	733	1,990	868	2,470	821	362
12	500	1,220	733	895	757	677	737	2,010	868	2,390	820	246
13	700	1,320	731	892	749	674	744	2,200	858	2,330	820	246
14	845	1,320	728	887	767	672	508	2,310	852	2,270	817	246
15	845	1,310	897	878	777	670	359	2,310	851	2,250	810	246
16	845	1,300	981	870	498	674	366	2,300	847	2,120	897	246
17	845	1,290	961	847	323	676	367	1,490	847	2,020	983	249
18	845	1,280	977	860	324	679	371	906	845	1,970	962	249
19	845	1,270	961	857	288	680	379	906	840	1,960	921	249
20	1,100	1,240	978	847	265	685	384	907	837	1,840	912	249
21	1,370	1,240	969	848	265	688	389	907	834	1,770	905	250
22	1,390	1,230	969	844	268	688	390	912	837	1,710	893	251
23	1,400	1,240	964	837	270	688	399	919	827	1,710	869	251
24	1,410	1,260	954	826	270	688	400	917	820	1,650	864	254
25	1,420	930	963	816	274	688	406	901	820	1,570	840	255
26	1,260	733	951	802	276	688	423	895	820	1,510	919	255
27	1,100	733	961	832	277	683	436	895	820	1,480	1,040	259
28	1,100	738	952	815	278	686	447	895	815	1,460	1,010	255
29	1,090	734	948	821	-----	686	665	895	807	1,410	1,010	233
30	1,090	733	950	800	-----	682	1,180	887	810	1,260	983	224
31	1,100	-----	935	799	-----	681	-----	893	-----	945	967	-----
TOTAL	26,730	32,871	26,553	26,998	15,483	19,190	17,124	59,715	25,541	51,715	27,845	12,787
MEAN	862	1,096	857	871	553	619	571	1,926	851	1,668	898	426
MAX	1,420	1,320	981	936	800	688	1,180	4,200	901	2,580	1,040	941
MIN	500	733	728	799	265	278	359	887	807	800	810	224

CAL YR 1970 TOTAL 327,033 MEAN 896 MAX 4,810 MIN 296
WTR YR 1971 TOTAL 342,552 MEAN 938 MAX 4,200 MIN 224

ST. CROIX RIVER BASIN

01019000 Grand Lake Stream at Grand Lake Stream, Maine

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

DRAINAGE AREA.--224 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft above mean sea level.

AVERAGE DISCHARGE.--43 years, 389 cfs (23.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,700 cfs June 11; minimum daily, 141 cfs Sept. 26.

Period of record: Maximum discharge, 2,840 cfs June 12, 1952 (gage height, 6.35 ft); minimum daily, 5 cfs Dec. 3-6, 11, 1945.

REMARKS.--Records good. Flow completely regulated by Grand Lake, 0.8 mile upstream, and other lakes (combined usable capacity, about 8,250,000,000 cu ft). Records of chemical analyses for water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	546	506	348	365	350	238	487	1,010	780	300	200	161
2	542	503	347	365	350	238	488	1,020	850	300	201	161
3	529	500	346	361	350	238	504	1,020	900	300	200	157
4	526	424	349	358	355	241	528	1,030	900	295	204	157
5	522	374	355	358	355	242	530	1,030	900	295	203	154
6	515	374	348	354	355	243	533	1,040	895	180	198	150
7	509	369	317	354	360	245	542	1,140	895	205	201	160
8	505	367	297	354	360	245	546	1,200	1,010	205	203	170
9	499	363	444	350	360	375	546	1,200	1,060	205	202	164
10	493	361	376	350	360	445	546	1,190	1,350	200	201	168
11	488	358	369	350	365	447	552	970	1,670	200	200	192
12	634	356	369	350	365	455	560	750	1,630	200	206	194
13	695	353	369	347	370	455	573	645	1,580	200	202	201
14	609	351	369	347	370	455	365	640	1,540	200	201	201
15	599	349	369	347	370	455	245	640	1,500	201	200	206
16	592	350	369	347	375	462	236	640	1,460	202	195	199
17	581	348	365	347	375	465	231	635	1,410	196	184	194
18	572	345	365	344	376	466	230	635	1,380	199	181	188
19	566	341	365	344	287	465	235	635	1,340	197	179	183
20	558	339	365	344	231	473	244	635	1,300	207	179	178
21	562	344	361	342	232	475	249	635	1,090	205	175	175
22	575	347	361	343	232	477	251	635	1,260	205	179	170
23	572	347	361	343	233	479	473	635	1,230	203	178	165
24	579	351	361	340	235	480	649	635	1,220	201	177	159
25	579	351	361	340	235	483	650	690	1,200	204	173	146
26	576	351	365	340	235	482	655	720	1,180	203	172	141
27	572	349	369	340	235	483	745	795	1,170	201	170	149
28	567	348	369	345	238	485	880	790	1,160	202	167	151
29	550	349	365	345	-----	484	1,000	790	600	200	167	151
30	516	348	365	345	-----	484	1,000	785	300	202	163	151
31	510	-----	365	350	-----	488	-----	780	-----	200	162	-----
TOTAL	17,238	11,116	11,204	10,809	8,914	12,648	15,273	25,595	34,760	6,713	5,823	5,096
MEAN	556	371	361	349	318	408	509	826	1,159	217	188	170
MAX	695	506	444	365	376	488	1,000	1,200	1,670	300	206	206
MIN	488	339	297	340	231	238	230	635	300	180	162	141
CAL YR 1970	TOTAL	235,901	MEAN	646	MAX	1,720	MIN	232				
WTR YR 1971	TOTAL	165,189	MEAN	453	MAX	1,670	MIN	141				

01020000 St. Croix River near Baileyville, Maine

(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, in township of Baileyville, on right bank 700 ft downstream from powerhouse of St. Croix Paper Company, at Grand Falls, and 8 miles upstream from village of Woodland.

DRAINAGE AREA.--1,320 sq mi.

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

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

AVERAGE DISCHARGE.--52 years, 2,269 cfs (23.34 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,000 cfs May 6 (gage height, 7.42 ft); minimum daily, 661 cfs Sept. 13.

Period of record: Maximum discharge, about 23,300 cfs May 1, 1923 (gage height, 13.90 ft); minimum daily, 64 cfs Oct. 13, 1957.

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes, Grand and other lakes (combined capacity, about 25,000,000,000 cu ft). Final regulation is at Grand Falls Dam about 700 ft upstream. Records of chemical analyses for water year 1971 are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 1231: 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,970	3,030	2,730	1,510	1,750	2,110	2,310	7,020	2,830	2,710	1,580	1,140
2	1,580	3,040	2,550	1,630	2,020	2,350	2,670	7,040	2,830	2,710	1,260	1,090
3	1,830	3,020	2,560	1,960	1,680	2,200	2,610	7,240	2,240	2,660	1,050	1,100
4	1,860	2,790	2,640	1,830	1,680	2,120	2,630	7,580	2,900	2,550	1,010	980
5	2,050	2,460	2,610	1,970	1,930	2,150	3,540	9,400	2,730	1,410	1,170	927
6	2,040	2,350	2,540	1,960	1,920	2,230	5,240	10,400	2,670	1,710	1,090	885
7	2,090	2,230	2,440	2,370	1,720	2,200	5,850	10,500	2,620	2,440	968	793
8	1,980	2,280	2,660	2,510	1,850	2,190	5,770	10,200	2,440	2,630	1,040	955
9	1,500	2,040	2,510	2,190	1,990	2,110	5,570	9,560	2,580	2,580	999	898
10	1,980	2,010	2,440	1,840	2,080	2,190	5,520	8,550	2,670	2,670	1,210	1,010
11	1,980	2,080	2,560	2,030	2,250	2,060	5,440	8,080	2,660	2,650	1,200	1,160
12	1,600	2,070	2,470	2,030	2,200	2,090	5,420	6,440	2,660	2,160	1,250	766
13	1,380	2,080	2,300	1,970	2,160	2,210	5,520	4,950	2,670	2,150	1,140	661
14	1,350	2,070	2,560	1,240	2,530	2,200	6,580	4,820	2,680	1,830	1,150	703
15	1,390	2,070	2,680	1,710	2,750	2,200	7,440	4,980	2,600	1,700	1,140	1,020
16	1,530	1,940	2,120	1,740	2,760	2,230	7,410	4,960	2,560	2,150	1,130	896
17	1,640	2,000	1,870	1,620	2,900	2,230	7,130	4,420	2,610	2,240	1,120	936
18	1,660	2,090	1,670	2,060	2,910	2,230	6,910	3,620	2,460	1,900	1,120	928
19	1,650	2,660	1,640	2,180	3,010	2,250	6,800	3,060	2,750	1,870	1,140	817
20	1,540	2,330	1,730	1,820	3,120	2,260	6,840	2,870	2,580	1,990	923	990
21	2,300	2,460	2,120	2,270	3,110	2,240	7,580	2,800	2,540	1,680	1,210	1,080
22	2,600	2,150	2,600	1,720	3,090	2,230	8,090	2,750	2,340	2,320	1,220	928
23	2,170	2,370	1,290	1,820	3,090	2,230	8,170	2,800	2,500	2,170	1,170	798
24	2,870	2,720	702	1,890	3,080	2,240	8,010	2,810	2,610	2,100	1,040	869
25	3,030	2,670	715	1,800	3,060	2,260	7,920	2,820	2,600	2,180	1,200	1,220
26	3,030	2,700	1,210	1,650	3,040	2,270	7,810	2,750	2,590	2,250	1,240	1,240
27	2,880	2,670	1,830	1,510	3,030	2,170	7,580	2,850	2,600	2,430	1,190	1,290
28	3,020	2,600	1,770	1,830	3,010	2,350	7,490	2,850	2,590	2,500	1,140	1,190
29	3,030	2,580	1,710	1,550	-----	2,310	7,230	2,850	2,520	2,080	1,130	1,240
30	2,880	2,550	1,760	1,670	-----	2,300	7,060	2,840	2,490	1,710	933	1,050
31	3,040	-----	1,770	1,720	-----	2,180	-----	2,580	-----	1,550	1,050	-----
TOTAL	65,450	72,110	64,757	57,600	69,720	68,590	184,140	166,390	78,120	67,680	35,213	29,560
MEAN	2,111	2,404	2,089	1,858	2,490	2,213	6,138	5,367	2,604	2,183	1,136	985
MAX	3,040	3,040	2,730	2,510	3,120	2,350	8,170	10,500	2,900	2,710	1,580	1,290
MIN	1,350	1,940	702	1,240	1,680	2,060	2,310	2,580	2,240	1,410	923	661

CAL YR 1970 TOTAL 1,089,634 MEAN 2,985 MAX 11,400 MIN 702
WTR YR 1971 TOTAL 959,330 MEAN 2,628 MAX 10,500 MIN 661

01021200 Denny's River at Dennyville, Maine

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

DRAINAGE AREA.--92.4 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 182 cfs (26.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 870 cfs Apr. 15 (gage height, 4.10 ft); minimum, 20 cfs Aug. 2 (gage height, 0.55 ft).

Period of record: Maximum discharge, 2,700 cfs probably May 27, 1961 (gage height, 7.61 ft from flood-mark); minimum, 8.4 cfs Oct. 1, 1957 (gage height, 0.28 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Flow slightly regulated by dam at outlet of Meddybemps Lake 14 miles upstream. Records of chemical analyses and water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	82	144	131	140	150	110	481	218	153	24	35
2	54	80	137	131	115	145	130	469	204	157	66	33
3	54	75	137	131	100	140	200	463	194	155	116	30
4	74	65	133	131	90	135	517	701	194	152	98	29
5	90	49	102	125	82	130	624	729	184	150	84	29
6	82	71	153	116	76	125	577	596	177	145	68	29
7	72	80	144	129	70	120	511	499	173	142	59	29
8	65	80	136	150	68	115	487	430	177	141	58	29
9	63	77	136	157	78	115	409	379	175	139	55	27
10	59	72	141	157	100	110	370	345	173	139	52	26
11	58	71	134	152	110	110	472	315	171	134	50	24
12	56	71	129	136	94	110	577	295	163	133	55	26
13	56	71	126	142	86	105	722	305	160	133	52	43
14	55	70	128	140	325	105	858	436	160	90	50	56
15	55	72	123	145	660	110	806	385	158	37	48	77
16	93	100	120	145	600	120	592	325	158	29	49	63
17	186	136	120	145	500	180	442	325	160	44	49	77
18	236	136	125	145	400	200	388	320	160	49	50	92
19	196	128	128	145	325	180	514	288	157	49	56	71
20	152	120	129	145	275	160	684	266	155	55	61	54
21	122	197	125	145	250	150	762	252	157	50	61	46
22	105	258	126	130	225	140	736	246	163	49	58	39
23	94	232	126	120	205	130	652	264	157	56	56	35
24	215	266	128	120	190	125	601	260	155	49	54	31
25	282	230	133	115	180	120	624	242	155	47	51	29
26	212	188	133	120	175	115	652	236	155	47	48	27
27	158	161	129	125	166	110	604	234	153	47	44	24
28	126	150	129	140	160	110	562	228	152	48	41	22
29	108	152	131	180	-----	105	526	220	152	47	40	21
30	96	150	131	200	-----	105	493	210	153	55	37	20
31	88	-----	131	170	-----	105	-----	214	-----	36	37	-----
TOTAL	3,414	3,690	4,047	4,363	5,845	3,980	16,202	10,958	5,023	2,757	1,727	1,173
MEAN	110	123	131	141	209	128	540	353	167	88.9	55.7	39.1
MAX	282	266	153	200	660	200	858	729	218	157	116	92
MIN	52	49	102	115	68	105	110	210	152	29	24	20
CFSM	1.19	1.33	1.42	1.53	2.26	1.39	5.84	3.82	1.81	.96	.60	.42
IN.	1.37	1.49	1.63	1.76	2.35	1.60	6.52	4.41	2.02	1.11	.70	.47

CAL YR 1970 TOTAL 69,119 MEAN 189 MAX 1,800 MIN 49 CFSM 2.05 IN 27.83

WTR YR 1971 TOTAL 63,179 MEAN 173 MAX 858 MIN 20 CFSM 1.87 IN 25.44

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	0300	4.10	870				

01021500 Machias River at Whitneyville, Maine

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

DRAINAGE AREA.--457 sq mi.

PERIOD OF RECORD.--October 1905 to September 1921, September 1929 to current year. Monthly discharge only for some periods published in WSP 1301. Records for October 1903 to September 1905, published in WSP 97, 124, 165, and 241, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 37.22 ft above mean sea level. Oct. 1, 1905 to Sept. 30, 1921, nonrecording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--58 years, 919 cfs (21.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,430 cfs May 5 (gage height, 8.47 ft); minimum, 93 cfs May 12 (gage height, 2.98 ft).
Period of record: Maximum discharge, 14,800 cfs May 29, 1961 (gage height, 16.92 ft); minimum daily, 3.5 cfs Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by sawmill above station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	344	339	310	600	920	600	2,830	639	263	368	191
2	161	333	323	300	510	890	680	2,750	714	304	350	189
3	265	324	354	290	450	850	900	2,680	686	310	654	193
4	359	314	373	285	400	830	1,900	3,420	670	282	622	196
5	421	310	372	295	360	800	3,610	4,350	622	256	590	197
6	461	312	395	320	330	780	3,600	4,100	524	247	510	196
7	413	340	386	370	310	760	3,200	3,460	282	240	396	197
8	385	373	368	390	300	740	2,900	3,020	588	220	339	194
9	370	358	346	375	290	720	2,520	2,650	589	220	255	192
10	359	330	325	360	340	700	2,300	2,220	554	220	242	187
11	303	310	315	345	440	680	2,470	1,830	543	218	222	184
12	147	260	310	325	410	660	2,870	1,240	464	216	224	183
13	269	234	300	315	380	650	3,410	1,030	243	197	222	185
14	405	236	290	300	850	638	3,940	1,860	259	176	220	201
15	167	241	285	285	2,150	626	4,220	1,990	268	254	217	445
16	433	263	280	275	2,300	720	3,770	1,840	268	316	211	624
17	662	369	270	270	2,050	890	3,090	1,550	268	328	207	713
18	958	378	270	260	1,800	1,050	2,690	1,410	353	332	200	687
19	968	352	260	255	1,650	1,000	2,850	1,410	487	309	201	550
20	624	333	260	250	1,500	900	3,360	1,350	937	329	207	370
21	598	372	255	245	1,400	820	3,600	1,150	1,200	377	219	359
22	342	751	255	245	1,300	760	3,970	931	1,320	387	223	270
23	399	1,010	250	240	1,250	710	3,840	967	1,330	357	215	256
24	608	1,020	250	240	1,200	660	3,440	1,000	1,220	331	203	253
25	942	1,050	250	240	1,100	620	3,200	986	1,160	313	198	228
26	1,210	630	245	250	1,050	580	3,100	935	1,570	293	195	210
27	1,030	270	245	290	1,000	560	2,970	662	1,560	288	194	195
28	616	722	250	400	960	540	2,830	539	1,430	284	191	187
29	260	785	255	680	-----	530	2,880	583	1,190	271	187	182
30	329	654	285	800	-----	520	2,900	579	476	299	190	184
31	366	-----	310	740	-----	530	-----	576	-----	372	190	-----
TOTAL	15,138	13,578	9,271	10,545	26,680	22,634	87,610	55,898	22,414	8,809	8,662	8,398
MEAN	488	453	299	340	953	730	2,920	1,803	747	284	279	280
MAX	1,210	1,050	395	800	2,300	1,050	4,220	4,350	1,570	387	654	713
MIN	147	234	245	240	290	520	600	539	243	176	187	182
CFSM	1.07	.99	.65	.74	2.09	1.60	6.39	3.95	1.63	.62	.61	.61
IN.	1.23	1.11	.75	.86	2.17	1.84	7.13	4.55	1.82	.72	.71	.68

CAL YR 1970 TOTAL 302,126 MEAN 828 MAX 5,220 MIN 147 CFSM 1.81 IN 24.59
WTR YR 1971 TOTAL 289,637 MEAN 794 MAX 4,350 MIN 147 CFSM 1.74 IN 23.58

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-05	1800	7.90	3,920	4-22	1600	8.01	4,020
4-15	0300	8.27	4,250	5-05	1800	8.47	4,430

01022500 Narraguagus River at Cherryfield, Maine

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

DRAINAGE AREA.--232 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft above mean sea level. Prior to July 1, 1948, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 474 cfs (27.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,680 cfs Apr. 15 (gage height, 12.28 ft); minimum, 49 cfs Sept. 5 (gage height, 7.25 ft).

Period of record: Maximum discharge, 10,400 cfs May 28, 1961 (gage height, 17.40 ft); minimum, 20 cfs Sept. 22, 23, 1965.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1948 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	168	300	150	270	580	360	973	394	128	134	57
2	133	159	279	150	230	560	460	913	345	202	127	53
3	128	150	269	145	205	540	800	910	319	187	267	51
4	151	133	250	145	185	520	1,900	1,580	318	152	216	50
5	162	135	230	150	170	510	2,330	2,130	289	133	231	51
6	144	161	220	210	160	490	2,250	2,000	259	121	210	53
7	133	162	210	200	150	480	2,040	1,510	239	124	179	54
8	125	154	200	190	140	465	1,800	1,200	255	124	152	53
9	115	144	190	180	170	450	1,430	1,060	279	115	130	56
10	107	136	185	170	230	440	1,310	936	260	109	119	57
11	101	133	180	160	200	425	1,590	813	237	102	106	53
12	97	131	175	160	180	410	1,950	704	216	93	104	64
13	94	128	170	155	170	400	2,340	685	200	87	100	114
14	91	127	165	150	460	390	2,650	942	188	102	93	148
15	89	129	160	145	1,600	380	2,600	861	178	116	89	307
16	122	172	160	145	1,350	430	2,240	713	170	108	80	288
17	241	191	155	140	1,150	600	1,880	654	164	97	73	272
18	305	182	155	140	1,000	580	1,640	608	155	95	68	289
19	315	169	150	140	920	530	1,750	549	148	92	64	251
20	289	159	150	135	860	475	2,030	504	142	116	91	208
21	261	305	145	135	800	430	2,190	465	136	134	109	179
22	234	465	145	135	760	395	2,240	447	150	123	89	156
23	218	441	145	135	720	365	2,130	516	151	110	80	140
24	319	535	145	135	700	340	1,880	524	152	100	77	126
25	383	483	140	135	670	320	1,640	480	151	92	70	109
26	339	406	140	145	640	305	1,480	446	163	84	64	95
27	293	345	140	165	620	290	1,370	415	157	80	62	86
28	253	305	160	210	600	280	1,260	394	142	76	63	80
29	222	315	160	290	-----	280	1,160	375	129	71	64	88
30	199	314	155	400	-----	280	1,060	354	121	94	61	96
31	181	-----	155	330	-----	305	-----	374	-----	165	60	-----
TOTAL	5,960	6,942	5,583	5,375	15,310	13,245	51,760	25,035	6,207	3,532	3,432	3,684
MEAN	192	231	180	173	547	427	1,725	808	207	114	111	123
MAX	383	535	300	400	1,600	600	2,650	2,130	394	202	267	307
MIN	89	127	140	135	140	280	360	354	121	71	60	50
CFSM	.83	1.00	.78	.75	2.36	1.84	7.44	3.48	.89	.49	.48	.53
IN.	.96	1.11	.90	.86	2.45	2.12	8.30	4.01	1.00	.57	.55	.59
CAL YR 1970	TOTAL 153,674	MEAN 421	MAX 4,220	MIN 77	CFSM 1.81	IN 24.64						
WTR YR 1971	TOTAL 146,065	MEAN 400	MAX 2,650	MIN 50	CFSM 1.72	IN 23.42						

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-05	0300	11.97	2,380	4-21	2100	11.82	2,250
4-15	0200	12.28	2,680	5-05	2100	11.75	2,180

01023000 West Branch Union River at Amherst, Maine

LOCATION.--Lat 44°50'25", long 68°22'22", Hancock County, on right bank 200 ft upstream from site of old tannery dam, 0.6 mile upstream from Indian Camp Brook, and 0.7 mile northwest of Amherst.

DRAINAGE AREA.--148 sq mi.

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

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

AVERAGE DISCHARGE.--52 years, 260 cfs (23.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,400 cfs Apr. 22 (gage height, 6.46 ft); maximum gage height, 6.71 ft Feb. 15 (backwater from ice); minimum discharge, 9.8 cfs Sept. 11, 12 (gage height, 3.02 ft).
Period of record: Maximum discharge, 4,140 cfs Apr. 13, 1940 (gage height, 9.58 ft); maximum gage height, 10.41 ft Mar. 9, 1942 (ice jam); minimum discharge, 2.6 cfs July 28, 1965 (gage height, 2.75 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: 1935. WSP 821: Drainage area. WSP 1231: 1912-15, 1916-19 (M).
WSP 1301: 1910-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	119	260	130	195	285	190	897	286	68	31	17
2	28	110	239	130	175	275	200	828	248	85	41	16
3	28	104	220	125	160	270	250	819	221	82	44	14
4	33	95	205	125	150	260	450	1,180	204	79	61	14
5	33	101	200	135	135	250	600	1,160	181	74	64	14
6	31	125	190	150	130	250	660	1,130	160	68	62	14
7	29	124	180	145	120	245	662	1,110	144	63	59	13
8	28	127	175	140	115	240	628	1,050	142	57	54	13
9	28	124	170	135	150	235	582	953	166	51	50	12
10	27	118	165	130	170	235	562	843	155	47	48	12
11	26	112	160	125	150	230	624	734	145	43	44	11
12	25	103	155	120	140	230	722	637	131	39	50	15
13	25	102	150	115	135	225	905	571	120	34	46	26
14	25	97	150	110	500	225	1,130	538	109	38	43	48
15	25	93	145	110	600	220	1,230	480	99	38	41	71
16	75	101	145	105	550	290	1,150	433	91	34	39	72
17	104	103	140	100	510	350	1,110	412	83	31	34	105
18	132	101	135	97	475	345	1,090	385	76	38	32	125
19	151	98	135	94	450	320	1,160	351	71	35	29	132
20	156	95	135	92	425	290	1,240	321	67	61	33	125
21	154	172	130	91	400	260	1,330	293	66	53	32	113
22	147	214	130	89	380	245	1,390	296	98	50	30	102
23	153	290	130	88	360	225	1,380	356	99	48	29	91
24	210	402	130	86	350	215	1,350	362	100	45	27	82
25	224	381	130	85	330	205	1,320	340	99	42	24	72
26	214	344	130	85	320	200	1,280	323	106	39	22	63
27	195	303	130	90	305	195	1,210	310	94	37	21	56
28	174	275	135	110	295	190	1,140	314	83	35	20	51
29	154	284	135	160	-----	190	1,060	325	72	32	19	47
30	140	271	130	190	-----	190	973	321	66	34	18	44
31	129	-----	130	210	-----	190	-----	315	-----	33	18	-----
TOTAL	2,931	5,093	4,894	3,697	8,175	7,575	27,578	18,387	3,782	1,513	1,165	1,590
MEAN	94.5	170	158	119	292	244	919	593	126	48.8	37.6	53.0
MAX	224	402	260	210	600	350	1,390	1,180	286	85	64	132
MIN	25	93	130	85	115	190	190	293	66	31	18	11
CFSM	.64	1.15	1.07	.80	1.97	1.65	6.21	4.01	.85	.33	.25	.36
IN.	.74	1.28	1.23	.93	2.05	1.90	6.93	4.62	.95	.38	.29	.40

CAL YR 1970 TOTAL 103,117 MEAN 283 MAX 2,480 MIN 23 CFSM 1.91 IN 25.92
WTR YR 1971 TOTAL 86,380 MEAN 237 MAX 1,390 MIN 11 CFSM 1.60 IN 21.71

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	0300	6.46	1,400				
5-04	1100	6.20	1,230				

01024200 Garland Brook near Mariaville, Maine

LOCATION.--Lat 44°43'17", long 68°24'40", Hancock County, on left bank 22 ft upstream from State Highway 181, 1.2 miles upstream from mouth, and 1.5 miles north of Mariaville.

DRAINAGE AREA.--9.80 sq mi.

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

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

AVERAGE DISCHARGE.--7 years, 19.0 cfs (26.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 234 cfs May 4 (gage height, 6.74 ft); minimum, 0.38 cfs Aug. 18.
Period of record: Maximum discharge, 1,230 cfs Dec. 27, 1969 (gage height, 13.47 ft); minimum, 0.24 cfs Sept. 22-25, 1965.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.0	15	7.2	11	18	14	35	12	4.5	5.6	1.0
2	11	6.6	14	7.0	9.0	17	16	32	10	10	9.0	.90
3	11	6.3	13	7.0	7.8	16	25	48	11	5.5	12	1.1
4	21	6.2	12	6.8	7.2	16	70	183	9.4	3.8	14	1.4
5	33	8.5	11	8.6	6.5	15	59	88	8.3	2.9	12	2.2
6	21	15	11	13	6.2	15	52	56	7.7	3.5	10	2.5
7	16	10	10	11	5.8	15	47	45	7.3	4.0	8.0	1.4
8	12	8.7	9.9	9.6	5.6	15	44	38	8.0	2.4	7.0	2.3
9	9.2	7.9	9.4	8.6	6.6	14	40	33	7.4	2.2	6.6	3.1
10	7.5	7.3	9.1	8.0	12	14	43	29	6.3	2.5	6.0	4.3
11	6.7	6.9	8.8	7.4	10	14	70	25	5.7	2.2	4.5	3.8
12	6.3	6.6	8.6	7.0	8.4	14	103	23	5.0	1.6	3.5	5.6
13	6.0	6.3	8.3	6.7	7.4	13	140	25	4.6	1.8	2.0	14
14	6.3	6.2	8.1	6.4	25	13	160	36	4.2	2.5	1.6	23
15	7.2	6.6	7.9	6.2	118	14	136	26	3.8	2.0	1.4	29
16	10	11	7.8	6.0	86	16	87	22	3.5	1.5	1.0	9.4
17	20	9.7	7.6	5.9	65	24	70	24	3.8	1.8	.71	9.2
18	31	8.4	7.6	5.8	51	22	68	24	3.4	3.0	.75	8.6
19	24	7.6	7.4	5.6	45	18	102	20	3.8	3.5	2.2	5.6
20	17	7.2	7.3	5.5	37	16	139	18	3.2	12	6.9	3.6
21	13	35	7.2	5.4	32	15	147	16	4.5	7.0	9.1	4.8
22	11	33	7.2	5.4	29	14	136	20	4.3	2.6	1.9	4.9
23	13	28	7.1	5.3	26	13	100	34	3.0	1.8	1.7	2.9
24	40	40	7.1	5.3	24	13	83	24	5.0	1.4	1.6	2.5
25	33	24	7.0	5.2	22	12	75	19	4.3	1.5	1.6	2.8
26	23	18	7.0	5.5	20	12	67	17	4.9	1.6	1.5	2.9
27	17	16	7.0	6.2	19	12	58	16	3.0	1.8	1.5	2.6
28	13	14	8.6	8.0	18	12	51	15	2.1	2.6	2.8	2.6
29	9.6	17	8.0	14	-----	11	44	14	1.9	2.1	4.0	3.1
30	8.2	16	7.6	20	-----	11	39	11	2.5	7.2	4.5	5.8
31	7.5	-----	7.4	14	-----	12	-----	13	-----	6.2	2.0	-----
TOTAL	476.5	401.0	275.0	243.6	720.5	456	2,285	1,029	163.9	109.0	146.96	166.90
MEAN	15.4	13.4	8.87	7.86	25.7	14.7	76.2	33.2	5.46	3.52	4.74	5.56
MAX	40	40	15	20	118	24	160	183	12	12	14	29
MIN	6.0	6.2	7.0	5.2	5.6	11	14	11	1.9	1.4	.71	.90
CFSM	1.57	1.37	.91	.80	2.62	1.50	7.78	3.39	.56	.36	.48	.57
IN.	1.81	1.52	1.04	.92	2.73	1.73	8.67	3.91	.62	.41	.56	.63

CAL YR 1970 TOTAL 7,647.69 MEAN 21.0 MAX 349 MIN .77 CFSM 2.14 IN 29.03
WTR YR 1971 TOTAL 6,473.36 MEAN 17.7 MAX 183 MIN .71 CFSM 1.81 IN 24.57

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0115	6.28	188	5-04	0700	6.74	234
4-21	2315	6.01	164				

01029500 East Branch Penobscot River at Grindstone, Maine

LOCATION.--Lat 45°43'49", long 68°35'22", Penobscot County, on left bank 500 ft downstream from Bangor & Aroostook Railroad bridge, 0.5 mile south of Grindstone, and 9.5 miles upstream from confluence with West Branch Penobscot River.

DRAINAGE AREA.--1,090 sq mi, (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

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

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

AVERAGE DISCHARGE.--69 years, 1,899 cfs (23.66 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 18,200 cfs May 5 (gage height, 11.90 ft); minimum daily, 322 cfs Aug. 8.

Period of record: Maximum discharge, 37,000 cfs Apr. 30, 1923 (gage height, 16.9 ft, site then in use, present datum); minimum daily (1914-70), 77 cfs Nov. 19, 1924.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (see sta 01028500 and sta 01029000, page 50). Final regulation at Grand Lake Dam 35 miles upstream.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	889	1,193	1,120	880	1,060	1,490	1,130	6,510	2,180	1,040	892	483
2	964	1,150	1,060	870	1,030	1,480	1,120	6,960	1,970	1,180	906	453
3	899	1,110	1,030	860	970	1,460	1,100	7,460	1,890	1,060	913	440
4	2,300	1,060	1,000	855	940	1,440	1,280	13,800	1,860	1,120	712	432
5	2,350	1,040	980	850	915	1,420	1,500	17,500	1,680	1,120	508	460
6	1,880	1,230	970	895	900	1,400	1,480	14,700	1,460	1,080	397	644
7	1,700	1,320	960	900	920	1,380	1,460	12,900	1,240	1,060	352	633
8	1,620	1,310	955	895	1,020	1,360	1,430	11,900	1,150	1,040	322	611
9	1,570	1,270	950	890	1,130	1,350	1,410	11,400	1,430	1,010	352	633
10	1,510	1,210	940	880	1,170	1,340	1,390	11,100	1,290	1,000	394	644
11	1,450	1,200	930	875	1,160	1,320	1,380	10,900	1,120	1,050	375	642
12	1,400	1,210	925	870	1,130	1,300	2,700	11,400	1,010	1,060	390	739
13	1,350	1,200	920	865	1,110	1,290	3,750	11,400	931	1,040	503	879
14	1,310	1,160	910	855	1,140	1,280	4,400	10,900	882	1,050	618	995
15	1,320	1,140	905	850	1,250	1,270	4,920	9,630	844	1,090	590	2,370
16	1,740	1,200	900	845	1,380	1,260	4,740	8,420	810	1,050	569	1,830
17	2,130	1,250	895	840	1,490	1,250	4,280	7,150	793	1,020	554	1,110
18	1,950	1,220	890	835	1,570	1,240	3,890	6,220	764	1,350	538	845
19	1,900	1,160	880	830	1,630	1,230	4,130	5,930	929	1,390	516	742
20	1,830	1,130	875	825	1,670	1,220	5,100	5,090	964	1,280	503	672
21	1,450	1,420	870	820	1,640	1,210	6,000	4,660	926	1,200	498	632
22	1,280	2,090	865	815	1,620	1,200	6,900	3,770	954	1,130	489	912
23	1,270	2,100	860	805	1,600	1,190	7,110	3,570	923	1,080	492	1,040
24	2,530	2,750	885	800	1,580	1,180	7,130	3,770	885	1,050	607	1,010
25	2,320	2,210	910	790	1,560	1,180	7,210	3,500	869	1,090	551	992
26	1,880	1,820	920	800	1,540	1,170	7,490	3,820	866	1,080	499	963
27	1,660	1,550	910	880	1,520	1,170	7,050	4,140	920	1,040	470	942
28	1,510	1,400	905	1,000	1,510	1,160	6,850	3,810	918	1,020	469	926
29	1,410	1,270	900	1,080	-----	1,150	6,700	3,570	893	982	609	917
30	1,320	1,190	895	1,100	-----	1,140	6,450	3,230	896	948	617	909
31	1,250	-----	885	1,080	-----	1,130	-----	2,640	-----	914	528	-----
TOTAL	49,942	41,560	28,800	27,235	36,155	39,660	121,480	241,750	34,247	33,624	16,733	25,500
MEAN	1,611	1,385	929	879	1,291	1,279	4,049	7,798	1,142	1,085	540	850
MAX	2,530	2,750	1,120	1,100	1,670	1,490	7,490	17,500	2,180	1,390	913	2,370
MIN	889	1,040	860	790	900	1,130	1,100	2,640	764	914	322	432
MEAN*	2,286	1,512	869	624	648	730	4,674	9,128	966	425	349	895
CFSM*	2.10	1.39	.80	.57	.59	.67	4.29	8.37	.89	.39	.32	.82
IN. *	2.42	1.55	.92	.66	.62	.77	4.79	9.65	.99	.45	.37	.92
CAL YR 1970	TOTAL 805,858 MEAN 2,208 MAX 12,500 MIN 564											
WTR YR 1971	TOTAL 696,686 MEAN 1,909 MAX 17,500 MIN 322											
	MEAN* 2,204 CFSM* 2.02 IN* 27.46											
	MEAN* 1,935 CFSM* 1.78 IN* 24.11											

* Adjusted for change in contents in Chamberlain, Telos, Second, and Grand Lakes, and Round Pond.

PENOBSCOT RIVER BASIN

01030000 Penobscot River near Mattawamkeag, Maine

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, on left bank 700 ft downstream from Mattaseunk Dam and powerhouse, 1.3 miles upstream from Mattaseunk Brook, and 4.5 miles upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 sq mi, (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

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

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

AVERAGE DISCHARGE.--31 years, 5,569 cfs (22.53 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 32,200 cfs May 5 (gage height, 9.81 ft); minimum daily, 2,600 cfs Sept. 6.

Period of record: Maximum discharge, 43,300 cfs May 29, 1961 (gage height, 13.12 ft, backwater from Mattawamkeag River); minimum daily, 1,430 cfs Aug. 17, 1941.

REMARKS.--Records good. Flow regulated by many reservoirs above station (see p. 50).

REVISIONS.--WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,250	3,500	4,750	4,900	4,350	5,350	5,940	12,200	6,230	4,000	3,600	3,100
2	3,350	3,600	4,300	5,200	4,450	5,300	5,880	12,400	5,700	3,900	3,800	3,200
3	3,200	3,620	4,650	5,500	4,550	5,300	6,080	13,100	5,140	3,450	3,750	3,050
4	4,200	3,450	4,800	4,900	4,100	5,300	6,750	21,100	5,400	3,300	3,550	2,950
5	5,000	3,550	4,000	5,200	4,350	5,200	7,020	29,900	5,600	3,200	2,900	2,800
6	4,000	3,800	4,350	4,750	4,050	5,150	7,270	25,500	4,550	3,650	3,050	2,600
7	4,300	4,300	4,700	4,750	3,800	5,100	7,100	21,300	4,500	3,700	3,500	3,000
8	4,150	4,200	4,400	5,050	3,700	5,200	7,080	19,000	4,900	3,800	3,150	3,300
9	4,350	4,100	3,600	5,050	4,550	5,150	6,850	18,300	5,150	3,650	3,150	3,550
10	4,100	4,050	3,850	5,050	3,900	5,250	6,840	18,200	4,700	3,700	3,000	3,300
11	3,850	4,000	4,200	4,650	4,900	5,300	6,380	17,200	4,250	3,600	3,300	3,200
12	3,700	4,000	3,850	4,400	4,150	5,150	6,930	16,700	3,800	3,600	3,150	3,100
13	3,650	4,050	4,200	4,500	4,800	5,150	8,700	17,100	4,100	3,450	3,600	3,300
14	4,100	4,100	4,150	4,600	4,700	5,200	10,500	16,400	5,000	3,250	2,900	3,500
15	4,000	4,050	4,100	4,100	5,100	5,300	11,100	15,000	6,100	3,700	3,400	4,700
16	4,900	4,500	4,100	4,600	5,350	5,150	10,700	13,500	4,000	3,500	3,350	5,200
17	5,250	4,450	4,050	4,650	5,500	5,300	9,650	12,300	3,200	3,500	3,300	4,500
18	4,950	4,250	4,000	4,700	5,200	5,450	9,350	11,100	4,250	3,550	3,100	3,250
19	4,700	3,950	4,250	4,350	5,050	5,600	9,650	10,500	4,500	3,700	2,800	2,900
20	4,500	4,300	4,650	4,000	5,250	5,600	10,900	9,620	4,250	3,600	2,900	3,050
21	4,300	4,200	4,500	3,750	5,250	5,650	11,800	8,760	4,550	3,400	2,900	3,200
22	4,080	5,100	4,100	3,700	5,000	5,950	13,900	7,930	4,500	3,550	3,050	3,700
23	3,950	5,900	4,100	3,600	5,200	5,800	13,100	7,430	3,750	3,600	3,400	3,750
24	5,350	6,400	3,700	3,950	5,150	5,600	13,800	8,290	3,700	3,600	3,300	3,400
25	5,600	5,850	3,400	3,850	5,000	5,500	13,900	7,460	3,050	3,700	3,200	3,850
26	4,750	5,450	3,950	4,000	5,200	5,550	14,400	7,850	3,100	3,400	3,180	3,800
27	4,100	5,200	4,400	4,800	5,050	5,650	13,700	8,030	3,200	3,700	3,150	3,900
28	4,450	4,800	4,200	4,400	5,250	5,450	13,000	7,880	3,450	3,500	3,300	3,800
29	3,900	5,000	4,450	4,600	-----	5,450	12,200	7,760	3,550	3,250	3,200	3,600
30	3,550	4,800	4,800	4,700	-----	5,700	11,900	7,390	3,900	3,200	3,350	3,400
31	3,650	-----	4,950	4,200	-----	5,450	-----	6,470	-----	3,500	3,400	-----
TOTAL	131,180	132,520	131,500	140,450	132,900	167,250	292,370	415,670	132,070	110,200	100,680	103,950
MEAN	4,232	4,417	4,242	4,531	4,746	5,395	9,746	13,410	4,402	3,555	3,248	3,465
MAX	5,600	6,400	4,950	5,500	5,500	5,950	14,400	29,900	6,230	4,000	3,800	5,200
MIN	3,200	3,450	3,400	3,600	3,700	5,100	5,880	6,470	3,050	3,200	2,800	2,600
MEAN*	6,316	4,053	2,575	1,510	1,857	1,840	13,880	27,360	2,098	1,152	875	2,082
CFSM*	1.88	1.21	.77	.45	.55	.55	4.14	8.15	.62	.34	.26	.62
IN. *	2.17	1.35	.88	.52	.58	.63	4.62	9.40	.70	.40	.30	.69
CAL YR 1970	TOTAL 2,498,840	MEAN 6,846	MAX 36,600	MIN 2,890	MEAN* 6,225	CFSM* 1.85	IN* 25.18					
WTR YR 1971	TOTAL 1,990,740	MEAN 5,454	MAX 29,900	MIN 2,600	MEAN* 5,496	CFSM* 1.64	IN* 22.24					

* Adjusted for change in contents in reservoirs in East and West Branches of Penobscot River.

01030500 Mattawamkeag River near Mattawamkeag, Maine

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, on right bank at Gordon Lower Falls, 1.0 mile upstream from Mattakeunk Stream, 3.7 miles upstream from Mattawamkeag, and 4.1 miles upstream from mouth.

DRAINAGE AREA.--1,418 sq mi.

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

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

AVERAGE DISCHARGE.--37 years, 2,414 cfs (23.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 19,000 cfs May 7 (gage height, 11.42 ft); minimum, 59 cfs Sept. 4-8 (gage height, 0.07 ft).

Period of record: Maximum discharge, 29,200 cfs Mar. 23, 1936 (gage height, 15.34 ft); minimum, 38 cfs Sept. 19, 1952.

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

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	634	1,840	2,350	1,120	1,180	2,150	1,650	14,000	2,270	475	271	83
2	617	1,710	2,200	1,100	1,110	2,100	1,650	13,500	2,000	550	269	72
3	598	1,590	2,050	1,090	1,060	2,020	1,750	13,400	1,770	974	293	66
4	618	1,470	1,930	1,080	1,020	2,000	2,290	14,700	1,590	1,040	368	61
5	683	1,400	1,800	1,070	990	1,900	3,000	17,000	1,450	891	524	62
6	911	1,450	1,750	1,070	970	1,880	3,600	18,400	1,280	733	537	64
7	1,040	1,610	1,700	1,070	950	1,820	4,100	18,900	1,140	625	465	59
8	987	1,710	1,670	1,060	950	1,780	4,410	18,700	1,060	542	359	115
9	900	1,690	1,630	1,050	965	1,750	4,560	17,800	1,350	493	320	176
10	819	1,600	1,600	1,040	990	1,700	4,540	16,400	1,690	457	317	171
11	745	1,500	1,570	1,030	1,020	1,650	5,110	14,700	1,690	430	305	155
12	695	1,440	1,530	1,010	1,070	1,560	5,850	13,100	1,520	379	353	147
13	662	1,390	1,520	975	1,130	1,530	6,610	11,700	1,310	338	419	158
14	612	1,340	1,500	950	1,300	1,510	7,970	10,400	1,130	319	407	212
15	600	1,280	1,450	930	1,500	1,500	9,720	9,030	959	307	350	571
16	790	1,290	1,420	910	1,800	1,620	11,200	7,630	808	292	295	1,160
17	1,570	1,340	1,400	890	2,200	1,790	11,900	6,570	751	281	251	1,310
18	2,270	1,360	1,380	870	2,580	1,920	11,800	5,570	763	296	221	1,300
19	2,630	1,320	1,350	850	3,000	2,020	11,700	4,690	760	295	196	1,180
20	2,750	1,250	1,330	835	3,000	2,070	12,100	4,020	708	295	175	990
21	2,680	1,300	1,310	820	2,950	2,070	12,800	3,470	680	282	164	797
22	2,510	1,610	1,280	800	2,800	2,050	13,900	3,130	731	281	153	662
23	2,350	2,180	1,270	785	2,700	1,950	14,700	3,190	743	269	146	561
24	2,410	3,260	1,240	770	2,600	1,900	15,200	3,310	692	275	134	479
25	2,670	3,700	1,230	765	2,480	1,850	15,500	3,240	637	518	128	409
26	2,860	3,720	1,220	780	2,380	1,800	15,800	3,100	599	733	124	345
27	2,810	3,650	1,200	840	2,300	1,750	15,800	3,090	564	617	114	307
28	2,610	3,230	1,180	970	2,200	1,700	15,500	3,090	534	493	104	273
29	2,390	2,960	1,170	1,300	-----	1,700	15,200	3,070	498	391	104	246
30	2,170	2,600	1,140	1,300	-----	1,650	14,500	2,910	481	327	99	228
31	1,990	-----	1,130	1,250	-----	1,650	-----	2,600	-----	291	94	-----
TOTAL	48,581	57,790	46,500	30,380	49,195	56,340	274,410	284,410	32,158	14,489	8,059	12,419
MEAN	1,567	1,926	1,500	980	1,757	1,817	9,147	9,175	1,072	467	260	414
MAX	2,860	3,720	2,350	1,300	3,000	2,150	15,800	18,900	2,270	1,040	537	1,310
MIN	598	1,250	1,130	765	950	1,500	1,650	2,600	481	269	94	59
CFSM	1.11	1.36	1.06	.69	1.24	1.28	6.45	6.47	.76	.33	.18	.29
IN.	1.27	1.52	1.22	.80	1.29	1.48	7.20	7.46	.84	.38	.21	.33
CAL YR 1970	TOTAL 946,862	MEAN 2,594	MAX 18,100	MIN 314	CFSM 1.83	IN 24.84						
WTR YR 1971	TOTAL 914,731	MEAN 2,506	MAX 18,900	MIN 59	CFSM 1.77	IN 24.00						

01031500 Piscataquis River near Dover-Foxcroft, Maine

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

DRAINAGE AREA.--297 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 358.1 ft above mean sea level. Prior to July 20, 1930, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--69 years, 590 cfs (26.98 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,400 cfs May 4 (gage height, 13.04 ft); minimum, 29 cfs Aug. 22 (gage height, 1.66 ft).

Period of record: Maximum discharge, 22,800 cfs Nov. 4, 1966 (gage height, 17.89 ft); minimum, 5 cfs Aug. 6, 1905, Nov. 22, 1908.

REMARKS.--Records excellent except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	321	470	215	190	310	350	2,960	338	77	45	165
2	168	293	440	210	170	305	370	3,490	285	111	48	115
3	139	273	415	210	155	300	445	4,400	253	91	70	93
4	677	245	395	210	145	295	920	11,900	245	72	183	74
5	980	241	375	215	135	290	1,030	8,200	213	63	245	63
6	629	293	360	225	140	280	930	5,320	183	60	177	58
7	397	297	350	225	150	280	880	4,340	171	57	144	58
8	289	277	335	220	155	270	820	3,790	214	50	108	60
9	223	249	325	210	165	270	760	3,310	758	46	83	58
10	187	227	315	205	180	265	739	2,890	460	46	68	51
11	165	223	305	200	190	260	965	2,660	317	45	57	44
12	147	231	300	195	210	255	1,580	2,420	234	43	60	51
13	139	220	290	190	240	255	2,380	2,140	193	39	70	85
14	131	209	285	185	290	255	3,030	1,970	165	45	63	123
15	134	206	275	185	350	250	2,620	1,550	144	46	56	142
16	273	257	270	180	720	325	2,020	1,260	131	48	50	142
17	435	293	265	180	630	450	1,620	1,080	120	50	45	118
18	370	269	260	175	560	535	1,400	870	113	157	43	113
19	361	241	255	175	500	490	2,120	746	99	156	38	95
20	325	231	250	175	460	460	3,600	648	89	108	34	79
21	281	1,060	250	175	435	435	4,400	564	127	95	31	74
22	245	1,390	245	170	405	410	4,950	536	352	77	30	70
23	288	1,270	240	170	385	400	4,140	752	209	65	31	65
24	2,220	1,340	235	170	370	380	3,460	661	147	51	31	57
25	1,570	905	235	170	355	370	3,770	526	131	56	40	50
26	1,030	642	230	175	340	360	4,120	520	139	68	41	45
27	758	553	230	195	325	350	3,690	542	134	60	38	45
28	581	520	225	250	315	345	3,430	623	102	56	58	44
29	482	520	220	275	-----	340	3,250	599	81	51	509	43
30	402	482	220	260	-----	335	2,990	470	79	48	334	41
31	352	-----	215	220	-----	340	-----	392	-----	45	227	-----
TOTAL	14,537	13,778	9,080	6,215	8,665	10,465	66,779	72,129	6,226	2,082	3,057	2,321
MEAN	469	459	293	200	309	338	2,226	2,327	208	67.2	98.6	77.4
MAX	2,220	1,390	470	275	720	535	4,950	11,900	758	157	509	165
MIN	131	206	215	170	135	250	350	392	79	39	30	41
CFSM	1.58	1.55	.99	.67	1.04	1.14	7.49	7.84	.70	.23	.33	.26
IN.	1.82	1.73	1.14	.78	1.09	1.31	8.36	9.03	.78	.26	.38	.29

CAL YR 1970 TOTAL 240,072 MEAN 658 MAX 8,000 MIN 32 CFSM 2.22 IN 30.07
WTR YR 1971 TOTAL 215,334 MEAN 590 MAX 11,900 MIN 30 CFSM 1.99 IN 26.97

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	0400	7.95	5,500	5-04	1100	13.04	13,400

01031600 Morrison Brook near Sebec Corners, Maine

LOCATION.--Lat 45°14'17", long 69°03'06", Piscataquis County, on left bank 60 ft upstream from culvert in State Highway 16, 2.4 miles east of Sebec Corners, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--4.37 sq mi.

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 408.41 ft above mean sea level.

AVERAGE DISCHARGE.--7 years (1965-71), 7.18 cfs (22.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 96 cfs May 4 (gage height, 3.92 ft); minimum, 0.11 cfs Sept. 11, 12 (gage height, 1.83 ft).

Period of record: Maximum discharge, 575 cfs Nov. 3, 1966 (gage height, 8.95 ft); minimum, 0.06 cfs Aug. 7, 8, 1965 (gage height, 1.91 ft).

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.3	2.3	1.8	2.8	6.3	4.9	26	3.3	1.6	.40	.35
2	.84	1.2	2.2	1.8	2.6	6.0	5.3	28	3.0	1.7	.60	.35
3	.92	1.1	2.2	1.8	2.5	5.8	7.0	33	2.6	1.5	.53	.27
4	2.1	1.1	2.2	1.8	2.4	5.5	22	78	2.6	1.4	.66	.27
5	1.3	1.5	2.1	1.8	2.3	5.3	19	53	2.2	1.3	.51	.24
6	.96	2.2	2.1	1.7	2.3	5.2	17	35	2.1	1.1	.48	.23
7	.75	2.0	2.1	1.7	2.3	5.1	16	27	2.0	.99	.46	.21
8	.69	1.8	2.1	1.9	2.4	4.9	15	23	3.4	.84	.42	.13
9	.60	1.5	2.0	2.4	2.4	4.8	14	18	7.2	.76	.37	.13
10	.49	1.5	2.0	3.6	2.6	4.7	13	15	4.7	.68	.37	.13
11	.46	1.5	2.0	3.1	2.7	4.6	21	12	3.4	.64	.39	.11
12	.46	1.5	1.9	2.8	2.9	4.6	35	9.6	2.8	.56	.45	.50
13	.46	1.3	1.9	2.6	3.2	4.5	60	8.7	2.5	.44	.31	.61
14	.46	1.3	1.9	2.5	4.5	4.5	78	8.7	2.1	.64	.29	2.0
15	.67	1.3	1.9	2.3	20	4.6	71	7.9	2.0	.68	.27	3.1
16	3.9	1.7	1.9	2.3	35	5.2	58	5.9	1.7	.56	.22	2.2
17	3.9	1.5	1.8	2.2	30	7.1	43	4.9	1.6	.80	.21	1.6
18	3.2	1.3	1.8	2.2	24	9.0	38	4.4	1.6	1.5	.20	1.3
19	2.5	1.2	1.8	2.2	20	8.1	61	4.2	1.5	.99	.20	1.0
20	1.8	1.2	1.8	2.2	16	7.3	70	3.9	1.3	1.1	.22	.89
21	1.4	3.5	1.8	2.1	13	6.8	78	3.6	1.8	.84	.22	.83
22	1.4	3.9	1.8	2.1	11	6.4	71	4.4	2.2	.68	.20	.74
23	2.1	5.6	1.8	2.1	9.4	6.0	55	6.8	1.8	.56	.30	.66
24	5.3	6.4	1.8	2.1	8.6	5.8	49	5.3	1.5	.44	.28	.58
25	4.3	4.1	1.8	2.1	7.8	5.4	49	3.8	1.5	.46	.25	.43
26	3.0	3.1	1.8	2.6	7.3	5.3	42	5.0	1.7	.43	.36	.35
27	2.3	2.5	1.8	7.0	6.9	5.1	35	4.6	1.5	.38	.31	.35
28	1.9	2.5	1.8	5.2	6.6	4.9	31	7.4	1.4	.37	.62	.35
29	1.6	2.4	1.8	4.1	-----	4.8	28	6.6	1.3	.29	.61	.35
30	1.4	2.3	1.8	3.5	-----	4.7	26	4.5	1.3	.31	.52	.35
31	1.3	-----	1.8	3.1	-----	4.7	-----	3.6	-----	.35	.50	-----
TOTAL	53.66	65.3	59.8	80.7	253.5	173.0	1,132.2	461.8	69.6	24.89	11.73	20.61
MEAN	1.73	2.18	1.93	2.60	9.05	5.58	37.7	14.9	2.32	.80	.38	.69
MAX	5.3	6.4	2.3	7.0	35	9.0	78	78	7.2	1.7	.66	3.1
MIN	.46	1.1	1.8	1.7	2.3	4.5	4.9	3.6	1.3	.29	.20	.11
CFSM	.40	.50	.44	.60	2.07	1.28	8.63	3.41	.53	.18	.09	.16
IN.	.46	.56	.51	.69	2.16	1.47	9.64	3.93	.59	.21	.10	.18

CAL YR 1970 TOTAL 2,356.68 MEAN 6.46 MAX 100 MIN .15 CFSM 1.48 IN 20.06
WTR YR 1971 TOTAL 2,406.79 MEAN 6.59 MAX 78 MIN .11 CFSM 1.51 IN 20.49

PEAK DISCHARGE (BASE, 70 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-21	2245	3.89	93	5-04	0700	3.92	96

01033000 Sebec River at Sebec, Maine

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

DRAINAGE AREA.--327 sq mi.

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

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

AVERAGE DISCHARGE.--47 years, 615 cfs (25.54 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,340 cfs May 5 (gage height, 9.17 ft); minimum daily, 119 cfs Aug. 25-27, Sept. 2-6.

Period of record: Maximum discharge, 11,400 cfs Mar. 20, 1936 (gage height, 14.46 ft), from rating curve extended above 6,000 cfs on basis of velocity-area studies; minimum, about 2 cfs Oct. 14-17, 1930 (gage height, 0.87 ft), when gates in dam were closed.

REMARKS.--Records excellent. Flow regulated by Sebec Lake (see p. 50) and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area, 1936 (M). WSP 1301: 1925.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	780	574	237	625	585	405	2,850	207	250	172	122
2	287	772	573	238	613	586	399	2,840	207	262	169	119
3	285	765	570	240	619	729	439	2,920	208	253	172	119
4	286	839	569	241	619	839	528	4,000	210	244	175	119
5	287	889	571	241	619	831	609	5,170	210	239	174	119
6	287	880	569	241	619	820	678	5,210	207	234	172	119
7	287	869	569	241	619	810	741	4,860	206	236	172	121
8	287	860	464	241	619	801	782	4,430	214	234	165	124
9	287	853	306	241	602	786	775	3,990	244	234	162	126
10	286	844	279	241	588	766	770	3,630	274	233	155	123
11	286	837	283	241	585	742	800	3,300	289	229	157	123
12	287	829	283	243	583	724	905	3,010	290	227	155	123
13	287	820	283	244	586	675	1,100	2,800	283	224	152	126
14	286	810	283	245	588	624	1,370	2,640	279	222	152	128
15	286	801	414	245	582	582	1,580	2,440	280	222	152	129
16	287	794	249	245	581	555	1,660	2,240	277	218	155	129
17	290	785	249	245	581	548	1,680	2,080	271	217	155	129
18	293	781	252	245	588	543	1,650	1,940	266	216	154	128
19	292	780	252	245	588	529	1,670	1,600	260	207	152	129
20	292	773	252	245	590	560	1,820	1,240	256	209	152	129
21	294	777	252	245	593	564	2,060	560	267	206	151	128
22	294	786	254	244	589	548	2,410	183	289	254	147	673
23	296	799	256	245	590	529	2,650	187	283	275	135	1,020
24	315	815	258	241	593	518	2,740	193	280	185	120	998
25	334	688	260	408	588	498	2,830	194	274	183	119	965
26	342	566	261	656	587	475	2,970	199	279	180	119	929
27	350	569	263	651	586	454	3,040	200	269	176	119	900
28	356	569	480	646	586	442	3,040	209	253	176	121	875
29	357	571	235	643	-----	430	2,990	207	249	175	122	847
30	580	573	237	638	-----	420	2,910	205	246	172	123	818
31	787	-----	237	634	-----	413	-----	206	-----	172	123	-----
TOTAL	9,989	23,074	10,837	10,096	16,706	18,926	48,001	65,733	7,627	6,764	4,623	10,637
MEAN	322	769	350	326	597	611	1,600	2,120	254	218	149	355
MAX	787	889	574	656	625	839	3,040	5,210	290	275	175	1,020
MIN	219	566	235	237	581	413	399	183	206	172	119	119
MEAN*	604	635	403	273	439	286	2,228	2,087	333	54	139	61
CFSM*	1.85	1.94	1.23	.84	1.34	.88	6.81	6.38	1.02	.16	.42	.19
IN. *	2.13	2.16	1.42	.96	1.40	1.01	7.60	7.36	1.14	.19	.49	.21

CAL YR 1970 TOTAL 264,333 MEAN 724 MAX 3,630 MIN 182 MEAN* 712 CFSM* 2.18 IN* 29.54
WTR YR 1971 TOTAL 233,013 MEAN 638 MAX 5,210 MIN 119 MEAN* 628 CFSM* 1.92 IN* 26.07

* Adjusted for change in contents in Sebec Lake.

01033500 Pleasant River near Milo, Maine

LOCATION.--Lat 45°16'58", long 69°00'13", Piscataquis County, on left bank 2.5 miles northeast of Milo, and 7.9 miles upstream from mouth.

DRAINAGE AREA.--324 sq mi.

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

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

AVERAGE DISCHARGE.--51 years, 692 cfs (29.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,000 cfs May 4 (gage height, 8.98 ft); minimum, 57 cfs Aug. 22 (gage height, 1.50 ft).

Period of record: Maximum discharge, 28,600 cfs Nov. 4, 1966 (gage height, 15.46 ft); minimum, 15 cfs Aug. 17, 1944 (gage height, 1.21 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Flow may be slightly regulated by small storage dams above station. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1921-22 (M), 1924-27 (M), 1929 (M). WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	568	473	602	300	225	330	295	2,460	591	147	98	167
2	543	437	569	295	210	320	310	2,840	517	177	105	134
3	415	409	540	290	190	315	350	3,590	483	153	181	112
4	893	376	520	290	180	305	540	10,300	478	129	387	99
5	929	368	500	290	170	300	700	10,400	429	113	391	91
6	641	414	490	290	165	295	600	6,350	381	107	275	87
7	484	420	480	290	165	290	520	4,630	351	107	212	82
8	391	397	465	280	170	285	475	4,010	417	98	169	82
9	330	366	455	270	180	280	440	3,640	549	89	138	83
10	283	342	445	260	190	280	415	3,380	449	85	117	83
11	252	339	435	250	200	275	560	3,350	356	79	108	80
12	233	349	425	240	215	270	850	3,420	311	73	135	89
13	223	341	420	235	245	265	1,800	3,300	281	67	143	174
14	217	327	410	230	310	260	2,480	3,200	258	73	124	238
15	232	317	405	220	450	260	2,470	2,600	237	88	107	820
16	506	370	400	215	660	270	1,960	2,060	209	100	94	739
17	636	392	390	210	720	330	1,560	1,820	215	97	84	543
18	559	370	380	205	650	430	1,330	1,700	211	208	76	439
19	540	344	375	200	590	400	1,810	1,600	194	223	72	335
20	486	331	370	200	530	375	2,730	1,520	181	170	67	260
21	429	725	360	195	495	360	3,480	1,430	186	132	63	217
22	396	1,350	355	190	460	345	4,000	1,300	221	104	59	207
23	431	1,320	350	190	440	330	3,210	1,380	197	88	64	195
24	2,010	1,600	340	190	410	320	2,870	1,240	177	78	74	173
25	1,940	1,260	335	185	390	310	3,050	1,020	171	88	88	153
26	1,320	962	330	190	370	310	3,300	955	175	105	86	134
27	1,000	798	325	210	355	305	2,960	934	165	110	78	122
28	807	721	320	270	345	300	2,800	986	148	104	86	112
29	680	699	315	310	-----	300	2,590	934	134	95	265	105
30	588	643	310	290	-----	295	2,480	782	128	88	330	101
31	523	-----	310	255	-----	295	-----	678	-----	83	229	-----
TOTAL	19,485	17,560	12,726	7,535	9,680	9,605	52,935	87,809	8,800	3,458	4,505	6,256
MEAN	629	585	411	243	346	310	1,765	2,833	293	112	145	209
MAX	2,010	1,600	602	310	720	430	4,000	10,400	591	223	391	820
MIN	217	317	310	185	165	260	295	678	128	67	59	80
CFSM	1.94	1.81	1.27	.75	1.07	.96	5.45	8.74	.90	.35	.45	.65
IN.	2.24	2.02	1.46	.87	1.11	1.10	6.08	10.08	1.01	.40	.52	.72

CAL YR 1970 TOTAL 279,189 MEAN 765 MAX 7,450 MIN 65 CFSM 2.36 IN 32.06
WTR YR 1971 TOTAL 240,354 MEAN 659 MAX 10,400 MIN 59 CFSM 2.03 IN 27.60

PEAK DISCHARGE (BASE, 3,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	0400	5.59	4,360	5-04	1900	8.98	12,000

01034000 Piscataquis River at Medford, Maine

LOCATION.--Lat 45°15'40", long 68°52'07", Piscataquis County, on left bank 2.0 miles southwest of Medford, and 3.3 miles downstream from Pleasant River.

DRAINAGE AREA.--1,161 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft above mean sea level. Prior to Aug. 14, 1929, non-recording gage at site 1.8 miles downstream at different datum.

AVERAGE DISCHARGE.--47 years, 2,285 cfs (26.73 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 32,700 cfs May 5 (gage height, 11.28 ft); minimum, 232 cfs Aug. 25 (gage height, 1.61 ft).

Period of record: Maximum discharge, 60,100 cfs Nov. 4, 1966 (gage height, 15.58 ft); minimum, 99 cfs Oct. 28, 1947 (gage height, 1.28 ft).

Maximum stage known 20.8 ft May 1, 1923, former site and datum.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Sebec Lake 15 miles upstream (see p. 50) and other small reservoirs and powerplants above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1231: 1936. WSP 1301: 1925-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	817	1,670	1,600	840	1,180	1,280	1,320	9,850	1,380	547	338	559
2	1,100	1,590	1,540	830	1,080	1,250	1,390	10,500	1,210	612	361	458
3	988	1,530	1,500	825	1,000	1,240	1,570	11,500	1,110	598	402	390
4	1,300	1,480	1,460	820	980	1,400	2,380	22,100	1,080	572	564	349
5	2,240	1,560	1,410	820	960	1,400	3,360	31,700	1,010	524	808	318
6	1,870	1,650	1,380	815	960	1,370	3,480	24,900	916	483	765	294
7	1,420	1,700	1,350	810	965	1,340	3,410	17,800	849	467	618	283
8	1,140	1,660	1,330	810	980	1,320	3,220	14,800	937	443	523	276
9	976	1,580	1,100	810	1,000	1,300	2,940	12,900	1,490	393	454	272
10	862	1,510	1,000	810	1,040	1,270	2,850	11,500	1,680	392	401	268
11	786	1,480	960	805	1,100	1,260	3,180	10,400	1,300	391	368	261
12	729	1,480	950	805	1,180	1,250	4,450	9,800	1,080	375	375	273
13	694	1,470	930	805	1,270	1,240	6,500	9,060	953	362	368	362
14	678	1,430	920	800	1,400	1,230	8,840	8,690	863	375	358	479
15	685	1,410	950	800	1,650	1,220	9,440	7,610	799	384	342	1,190
16	1,010	1,470	1,030	800	2,000	1,300	8,030	6,300	744	392	326	1,220
17	1,520	1,550	960	795	2,500	1,600	6,730	5,530	700	400	304	982
18	1,500	1,550	910	790	2,300	1,850	5,870	5,020	685	504	289	816
19	1,390	1,480	900	790	2,150	1,810	7,040	4,520	644	629	275	671
20	1,300	1,430	895	790	2,000	1,750	10,500	3,780	612	649	264	561
21	1,170	1,780	890	780	1,870	1,700	13,100	3,300	614	539	254	493
22	1,080	3,990	885	780	1,780	1,650	15,300	2,370	790	464	246	565
23	1,060	3,650	880	780	1,660	1,600	13,600	2,500	992	497	254	1,200
24	3,180	4,430	880	780	1,600	1,530	12,000	2,550	831	427	249	1,240
25	4,820	3,640	875	780	1,500	1,480	12,100	2,090	749	363	238	1,190
26	3,260	2,650	870	1,100	1,460	1,420	13,000	1,930	729	354	242	1,140
27	2,450	2,100	860	1,330	1,390	1,380	12,300	1,940	704	366	241	1,100
28	2,000	1,900	900	1,400	1,320	1,360	11,600	2,060	657	369	266	1,070
29	1,720	1,800	1,100	1,430	-----	1,330	10,900	2,190	592	349	379	1,030
30	1,550	1,680	880	1,410	-----	1,310	10,300	1,840	552	335	964	1,000
31	1,710	-----	850	1,300	-----	1,300	-----	1,560	-----	328	756	-----
TOTAL	47,005	58,300	32,945	28,040	40,275	43,740	220,700	262,590	27,252	13,883	12,592	20,310
MEAN	1,516	1,943	1,063	905	1,438	1,411	7,357	8,471	908	448	406	677
MAX	4,820	4,430	1,600	1,430	2,500	1,850	15,300	31,700	1,680	649	964	1,240
MIN	678	1,410	850	780	960	1,220	1,320	1,560	552	328	238	261
MEAN*	1,798	1,809	1,116	852	1,280	1,086	7,985	8,438	987	284	396	383
CFSM*	1.55	1.56	.96	.73	1.10	.94	6.88	7.27	.85	.24	.34	.33
IN. *	1.79	1.74	1.11	.85	1.14	1.08	7.68	8.38	.95	.28	.39	.37

CAL YR 1970	TOTAL	916,289	MEAN	2,510	MAX	20,700	MIN	300	MEAN*	2,498	CFSM*	2.15	IN*	29.20
WTR YR 1971	TOTAL	807,632	MEAN	2,213	MAX	31,700	MIN	238	MEAN*	2,203	CFSM*	1.90	IN*	25.76

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	
4-22	1000	8.01	15,700	5-05	1000	11.28	32,7000	* Adjusted for change in contents in Sebec Lake.

01034500 Penobscot River at West Enfield, Maine

(International Hydrological Decade River Station)

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

DRAINAGE AREA.--6,670 sq mi, (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

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

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft above mean sea level. Prior to Dec. 11, 1912, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--69 years (1902-71), 11,590 cfs (23.60 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 85,200 cfs May 5 (gage height, 17.15 ft); minimum daily, 3,340 cfs Sept. 7.

Period of record: Maximum discharge, 153,000 cfs May 1, 1923 (gage height, 25.15 ft), from rating curve extended above 88,000 cfs; minimum, 1,630 cfs Oct. 29, 1905 (gage height, 1.0 ft).

REMARKS.--Records excellent except those for winter period and periods of backwater from aquatic growth, which are fair. Flow regulated by many reservoirs above station (see p. 50). Records of chemical analyses and water temperatures for the water year 1971 are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	4,940	7,950	10,100	7,050	9,200	10,500	10,600	41,500	10,400	5,250	4,290	4,610			
2	5,800	7,630	9,350	7,300	9,200	10,500	10,500	41,200	9,530	5,770	4,700	4,150			
3	6,100	7,420	8,800	7,100	9,200	10,600	11,300	42,600	8,920	5,820	4,960	3,940			
4	6,100	7,420	9,000	7,300	9,000	10,700	13,000	58,800	8,110	5,450	4,960	4,190			
5	8,770	7,060	7,300	7,800	8,700	10,700	16,000	82,300	8,380	5,450	5,380	3,690			
6	8,660	7,600	7,000	7,500	8,500	10,700	20,000	79,000	8,110	5,180	4,830	3,570			
7	7,630	8,190	7,000	7,200	8,250	10,700	20,500	66,800	7,160	4,960	4,650	3,340			
8	7,650	8,660	7,200	7,200	8,150	10,600	20,000	59,400	7,080	5,070	4,650	3,610			
9	7,140	8,410	7,600	7,150	8,050	10,600	19,000	54,600	7,630	5,090	4,670	4,000			
10	7,160	8,030	7,050	7,100	8,050	10,500	18,400	51,200	8,580	4,870	4,400	4,480			
11	6,510	7,890	7,050	7,000	8,000	10,400	18,200	47,600	7,950	4,700	4,210	4,340			
12	6,290	7,680	7,700	6,400	8,000	10,400	18,100	44,300	7,730	4,670	4,440	4,340			
13	6,080	7,780	7,700	6,400	8,400	10,300	23,800	42,100	7,010	4,720	4,420	4,320			
14	6,150	7,500	7,400	6,350	9,100	10,300	35,500	40,000	6,840	4,700	4,760	4,760			
15	6,510	7,550	7,400	6,300	9,800	10,300	40,000	37,000	7,140	4,080	4,210	5,890			
16	7,060	7,600	7,300	6,200	11,200	10,400	39,500	31,100	7,860	4,520	4,150	8,630			
17	9,150	7,970	7,000	6,100	13,000	10,500	37,500	27,500	5,780	4,720	4,440	9,000			
18	10,400	8,080	6,800	6,400	14,000	10,800	34,000	24,300	4,870	4,520	4,500	7,860			
19	10,500	7,340	6,600	6,300	14,000	11,100	33,500	26,600	5,910	4,570	4,460	6,290			
20	10,500	7,520	6,750	6,400	13,400	11,500	39,000	21,900	6,050	5,050	3,920	5,430			
21	9,880	8,050	6,950	6,600	13,000	11,800	43,900	17,400	6,120	4,700	3,920	5,540			
22	9,030	10,800	6,950	5,700	12,500	12,200	49,600	15,200	7,040	4,400	3,710	5,400			
23	8,750	12,600	6,750	5,700	12,000	12,200	48,900	14,600	6,640	4,610	4,400	5,820			
24	10,100	13,500	6,300	5,600	11,600	12,100	47,200	14,800	6,000	4,630	4,400	6,270			
25	15,000	15,900	5,600	5,500	11,200	11,900	47,400	14,500	5,770	4,720	4,080	6,440			
26	12,500	13,700	5,900	5,600	10,800	11,800	48,900	13,600	5,070	4,850	3,750	6,100			
27	11,300	12,100	5,700	5,800	10,600	11,500	48,300	14,000	4,670	4,760	4,000	6,000			
28	9,700	11,400	6,100	6,350	10,500	11,300	45,800	14,100	4,830	4,890	4,000	6,290			
29	9,440	11,000	6,500	7,700	-----	11,000	44,400	14,100	4,810	4,830	3,940	5,610			
30	8,470	10,200	6,750	7,600	-----	10,800	42,300	13,200	5,160	4,440	4,520	5,380			
31	7,920	-----	6,950	8,700	-----	10,700	-----	12,400	-----	4,270	4,780	-----			
TOTAL	261,190	276,530	222,550	207,400	287,400	339,400	945,100	1,077.7M	207,150	150,260	136,500	159,290			
MEAN	8,425	9,218	7,179	6,690	10,260	10,950	31,500	34,760	6,905	4,847	4,403	5,310			
MAX	15,000	15,900	10,100	8,700	14,000	12,200	49,600	82,300	10,400	5,820	5,380	9,000			
MIN	4,940	7,060	5,600	5,500	8,000	10,300	10,500	12,400	4,670	4,080	3,710	3,340			
MEAN*	10,790	8,720	5,565	3,616	7,214	7,069	36,260	48,680	4,680	2,280	2,020	3,633			
CFSM*	1.62	1.31	.83	.54	1.08	1.06	5.44	7.30	.70	.34	.30	.54			
IN.*	1.87	1.46	.96	.62	1.12	1.22	6.07	8.42	.78	.39	.35	.61			
CAL YR 1970	TOTAL 4,873,770			MEAN 13,350		MAX 68,000		MIN 4,020		MEAN* 12,720		CFSM* 1.91		IN* 25.89	
WTR YR 1971	TOTAL 4,270,470			MEAN 11,700		MAX 82,300		MIN 3,340		MEAN* 11,730		CFSM* 1.76		IN* 23.87	

M Expressed in thousands.

* Adjusted for change in contents in reservoirs in East and West Branches of Penobscot River, also Sebec Lake in Piscataquis River basin.

Note.--Stage-discharge relation affected by aquatic growth Oct. 1-8, July 7 to Sept. 16.

01035000 Passadumkeag River at Lowell, Maine

LOCATION.--Lat 45°11'04", long 68°28'29", Penobscot County, on right bank at Lowell, 0.5 mile downstream from dam and highway bridge and 11 miles upstream from mouth.

DRAINAGE AREA.--299 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 151.3 ft above mean sea level. Oct. 1, 1915, to Sept. 30, 1917, nonrecording gage at same site and datum. Oct. 1, 1917, to Nov. 30, 1921, nonrecording gage at site on left bank 400 ft downstream from highway bridge at different datum.

AVERAGE DISCHARGE.--56 years, 494 cfs (22.44 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,110 cfs Apr. 26 (gage height, 5.08 ft); minimum, 73 cfs Sept. 10-12 (gage height, 0.78 ft).

Period of record: Maximum discharge, 5,680 cfs May 2, 1923 (gage height, 9.40 ft); minimum, about 5 cfs several times in July and August 1921 (gates in dam closed).

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

REVISIONS.--WSP 821: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	344	465	255	260	375	345	1,840	819	186	107	80
2	172	320	440	250	255	360	340	1,790	758	216	112	78
3	167	301	420	250	245	355	360	1,780	687	235	115	75
4	174	283	400	250	240	345	500	1,940	624	228	129	75
5	173	281	385	250	230	335	670	2,040	567	210	133	76
6	172	302	375	250	235	330	830	2,090	520	191	135	79
7	168	326	365	250	240	325	913	2,090	481	175	133	78
8	162	342	360	245	255	320	916	2,050	479	160	129	76
9	155	342	355	240	270	310	900	1,990	482	152	125	76
10	149	330	345	240	300	305	879	1,890	463	145	120	74
11	141	316	340	235	320	305	926	1,790	430	138	118	73
12	135	304	330	230	355	300	1,040	1,690	367	132	123	78
13	131	291	330	225	390	295	1,230	1,600	307	127	123	88
14	128	279	320	220	435	295	1,460	1,530	266	124	123	111
15	126	267	315	215	475	290	1,650	1,450	240	125	120	179
16	204	268	310	215	520	400	1,700	1,360	222	126	113	240
17	332	265	310	210	555	535	1,690	1,290	209	124	107	260
18	514	264	305	210	560	600	1,690	1,210	200	125	104	260
19	615	259	300	205	540	625	1,720	1,140	190	123	100	250
20	648	250	295	205	520	600	1,790	1,050	183	140	97	215
21	637	276	290	200	500	565	1,890	978	183	151	94	195
22	614	343	285	200	475	530	1,990	935	216	156	92	165
23	592	464	280	200	455	485	2,040	960	231	151	90	140
24	596	614	280	200	435	460	2,070	967	230	143	86	120
25	595	672	275	195	420	435	2,090	958	224	136	84	110
26	576	669	270	195	405	410	2,100	933	221	129	83	100
27	540	627	270	205	395	390	2,070	909	205	121	82	95
28	498	576	265	230	380	380	2,030	924	192	116	82	92
29	454	530	260	260	-----	370	1,970	929	180	111	81	88
30	411	495	260	275	-----	360	1,910	905	176	109	81	86
31	374	-----	255	270	-----	350	-----	868	-----	108	82	-----
TOTAL	10,526	11,200	10,055	7,080	10,665	12,340	41,709	43,876	10,552	4,613	3,303	3,712
MEAN	340	373	324	228	381	398	1,390	1,415	352	149	107	124
MAX	648	672	465	275	560	625	2,100	2,090	819	235	135	260
MIN	126	250	255	195	230	290	340	868	176	108	81	73
CFSM	1.14	1.25	1.03	.76	1.27	1.33	4.65	4.73	1.18	.50	.36	.41
IN.	1.31	1.39	1.25	.88	1.33	1.54	5.19	5.46	1.31	.57	.41	.46
CAL YR 1970	TOTAL 220,445	MEAN 604	MAX 1,980	MIN 126	CFSM 2.02	IN 27.43						
WTR YR 1971	TOTAL 169,631	MEAN 465	MAX 2,100	MIN 73	CFSM 1.56	IN 21.10						

01036500 Kenduskeag Stream near Kenduskeag, Maine

LOCATION.--Lat 44°53'48", long 68°53'04", Penobscot County, on right bank 300 ft upstream from highway bridge, 1.8 miles downstream from Black Stream, and 2.9 miles south of Kenduskeag.

DRAINAGE AREA.--178 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 91.936 ft above mean sea level.

AVERAGE DISCHARGE.--30 years, 312 cfs (23.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,820 cfs Apr. 22 (gage height, 8.44 ft); maximum gage height, 9.43 ft Apr. 15 (backwater from ice); minimum daily discharge, 4.7 cfs Sept. 5-11.

Period of record: Maximum discharge, 6,400 cfs Sept. 12, 1954 (gage height, 14.83 ft); minimum daily, 1.0 cfs Sept. 30, 1948, Aug. 8, 1965.

REMARKS.--Records fair. An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 miles above station. During high stages of Souadabscook Stream part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream all flow continues down its own channel. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	81	180	96	220	185	210	817	132	37	14	6.4
2	12	71	170	96	200	180	260	748	104	61	20	6.0
3	12	65	165	95	185	180	400	769	83	73	41	5.4
4	17	60	155	95	175	175	600	2,180	76	50	66	5.0
5	22	68	150	95	165	170	780	2,380	67	38	66	4.7
6	21	131	145	97	160	170	820	1,670	57	30	55	4.7
7	19	141	140	105	155	165	780	1,230	51	26	41	4.7
8	17	123	135	110	160	160	660	933	140	22	30	4.7
9	14	100	130	120	160	160	590	718	484	20	24	4.7
10	12	83	130	120	165	160	550	570	368	19	20	4.7
11	11	75	125	115	175	160	1,300	460	205	17	18	4.7
12	10	71	120	110	180	155	1,900	372	133	16	18	5.7
13	10	67	120	110	195	155	2,250	321	94	14	18	9.2
14	9.5	66	115	110	230	155	2,400	401	70	14	20	16
15	10	65	115	110	275	160	2,500	381	56	15	17	42
16	142	89	110	105	315	200	1,900	306	47	16	14	57
17	260	108	110	105	350	280	1,500	267	43	15	13	43
18	265	99	105	105	340	335	1,300	247	37	16	12	47
19	258	88	105	105	310	330	1,450	217	33	18	10	43
20	191	81	105	100	285	310	2,490	190	30	39	9.7	34
21	138	209	105	100	265	290	2,710	168	27	42	9.2	26
22	105	344	100	100	250	275	2,780	165	80	36	8.8	22
23	92	497	100	100	235	260	2,420	350	97	27	8.3	19
24	345	740	100	100	225	245	1,970	367	71	21	7.9	16
25	380	551	100	100	215	230	1,760	272	59	18	7.1	14
26	289	388	99	110	205	220	1,580	218	69	16	7.1	12
27	221	290	98	150	195	210	1,410	212	81	15	7.1	11
28	167	232	98	210	190	205	1,240	215	61	14	6.7	11
29	124	205	97	250	-----	200	1,070	253	47	13	7.1	9.7
30	104	195	97	240	-----	195	919	204	39	13	7.1	8.8
31	108	-----	96	230	-----	200	-----	163	-----	13	6.4	-----
TOTAL	3,397.5	5,383	3,720	3,794	6,180	6,475	42,499	17,764	2,941	784	609.5	502.1
MEAN	110	179	120	122	221	209	1,417	573	98.0	25.3	19.7	16.7
MAX	380	740	180	250	350	335	2,780	2,380	484	73	66	57
MIN	9.5	60	96	95	155	155	210	163	27	13	6.4	4.7
CFSM	.62	1.01	.67	.69	1.24	1.17	7.96	3.22	.55	.14	.11	.09
IN.	.71	1.12	.78	.79	1.29	1.35	8.88	3.71	.61	.16	.13	.10

CAL YR 1970 TOTAL 99,048.9 MEAN 271 MAX 3,340 MIN 5.7 CFSM 1.52 IN 20.70
WTR YR 1971 TOTAL 94,049.1 MEAN 258 MAX 2,780 MIN 4.7 CFSM 1.45 IN 19.66

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	----	----	2,800	5-04	2300	8.19	2,670
4-22	1200	8.44	2,820				

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 miles upstream from Millinocket and 42 miles northeast of Greenville; present dam completed in 1917 for power and log driving; usable capacity of reservoir, 30,000,000,000 cu ft. Records furnished by Great Northern Paper Co.
- 01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 miles upstream from Millinocket, Maine, for power and log driving; usable capacity of reservoir 15,000,000,000 cu ft. Records furnished by Great Northern Paper Co.
- 01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941; usable capacity, 5,040,000,000 cu ft between gage heights 2.0 and 11.0 ft. Records furnished by Bangor Hydro-Electric Co.
- 01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine; usable capacity, 1,785,000,000 cu ft between elevations 643.0 and 655.0 ft. Records furnished by Bangor Hydro-Electric Co.
- 01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity 2,511,000,000 cu ft between elevations 316.1 and 325.1 ft. Records furnished by Bangor Hydro-Electric Co.

MONTH-END CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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, 1970	34,688	2,858	1,257
OCT. 31	38,462	4,665	2,013
NOV. 30	37,190	4,993	1,665
DEC. 31	32,886	4,832	1,808
JAN. 31, 1971	25,480	4,149	1,665
FEB. 28	20,048	2,593	1,284
MAR. 31	11,997	1,123	413
APR. 30	21,101	2,742	2,042
MAY 31	54,910	6,303	1,954
JUNE 30	49,393	5,847	2,160
JULY 31	44,726	4,079	1,720
AUG. 31	38,882	3,568	1,693
SEPT. 30	35,181	3,684	930

* Includes month-end contents of following additional reservoirs in West Branch Penobscot River basin; used primarily for log driving (total capacity approximately 12,000,000,000 cu ft; Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnhunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole, and Poland Ponds.

01038000 Sheepscot River at North Whitefield, Maine

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, on left bank at North Whitefield, 50 ft upstream from highway bridge, and 0.6 mile downstream from Pleasant Pond Brook.

DRAINAGE AREA.--148 sq mi.

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

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

AVERAGE DISCHARGE.--33 years, 236 cfs (21.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,380 cfs Apr. 15 (gage height, 5.64 ft); minimum, 15 cfs Aug. 24 (gage height, 1.91 ft).

Period of record: Maximum discharge, 5,260 cfs Apr. 13, 1940 (gage height, 11.81 ft, backwater from fish weir), from rating curve extended above 1,900 cfs; minimum, 5.0 cfs Oct. 24, 1941 (gage height, 1.70 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by sawmill at North Whitefield. Records of chemical analyses and of water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	73	143	99	130	405	349	502	183	47	34	25
2	24	68	131	98	120	394	409	445	166	50	34	24
3	21	67	122	98	110	385	724	557	173	42	47	24
4	20	62	137	100	105	365	983	1,270	157	39	54	24
5	21	66	135	105	100	350	1,040	1,030	143	35	49	24
6	20	99	133	110	99	330	1,050	950	126	34	36	24
7	19	82	130	110	98	318	1,070	875	114	33	32	24
8	18	72	130	115	99	304	970	770	108	31	30	24
9	17	66	125	115	100	290	895	669	105	30	29	24
10	16	62	125	115	105	270	890	587	94	30	28	23
11	16	64	125	110	110	248	1,000	506	85	28	28	22
12	16	62	120	110	120	245	1,060	445	74	28	29	26
13	16	58	120	105	150	230	1,170	401	70	26	30	32
14	16	58	120	105	260	219	1,320	421	66	29	28	43
15	16	57	120	105	400	222	1,360	367	60	29	27	50
16	64	63	115	100	610	288	1,260	328	55	28	25	38
17	64	66	115	100	700	398	1,160	328	53	28	22	35
18	44	64	115	98	685	398	1,110	301	49	28	23	39
19	36	62	115	96	656	394	1,140	272	48	29	23	34
20	32	60	110	94	613	413	1,160	257	46	40	22	30
21	31	134	110	93	578	409	1,160	225	44	40	21	29
22	30	135	110	91	518	394	1,170	222	48	31	20	28
23	95	282	110	90	473	382	1,120	272	47	29	18	27
24	339	236	105	89	449	360	1,040	239	43	27	16	25
25	163	169	105	88	400	339	930	219	46	27	17	23
26	126	135	105	91	364	321	860	208	76	26	18	21
27	107	122	105	110	332	304	775	198	55	26	19	20
28	101	122	100	140	379	288	687	214	46	25	28	19
29	92	157	100	155	-----	279	613	211	42	24	31	17
30	85	150	100	150	-----	288	552	190	40	39	28	16
31	78	-----	100	140	-----	308	-----	195	-----	36	26	-----
TOTAL	1,768	2,969	3,636	3,325	8,863	10,138	29,027	13,674	2,462	994	872	814
MEAN	57.0	99.0	117	107	317	327	968	441	82.1	32.1	28.1	27.1
MAX	339	282	143	155	700	413	1,360	1,270	183	50	54	50
MIN	16	57	100	86	98	219	349	190	40	24	16	16
CFSM	.39	.67	.79	.72	2.14	2.21	6.54	2.98	.55	.22	.19	.18
IN.	.44	.75	.91	.84	2.23	2.55	7.30	3.44	.62	.25	.22	.20

CAL YR 1970 TOTAL 96,550 MEAN 265 MAX 2,770 MIN 16 CFSM 1.79 IN 24.29
WTR YR 1971 TOTAL 78,542 MEAN 215 MAX 1,360 MIN 16 CFSM 1.45 IN 19.74

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	0400	5.64	1,380	5-04	1100	5.56	1,340

01040500 Moosehead Lake at East Outlet, Maine

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

DRAINAGE AREA.--1,266 sq mi.

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

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft above mean sea level.

EXTREMES.--Current year: Maximum gage height observed, 17.58 ft May 24, 25, June 1; minimum observed, 11.43 ft Apr. 13.

Period of record: Maximum gage height, 18.0 ft May 30, 1902; minimum, 10.0 ft or lower, present datum, Mar. 20-29, 1911.

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet dam partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft. Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft at a faster rate than formerly. Capacity, 23,735,000,000 cu ft between gage heights 10.0 and 17.5 ft. Water is used primarily for power, although some logs are driven each year. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1971, is given below:

October	65	February	25	June	80
November	60	March	20	July	65
December	40	April	20	August	55
January	30	May	55	September	45

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

REVISIONS (WATER YEARS).--WSP 1111: 1946-47 (change in contents). WSP 1901: Drainage area.

Capacity table (gage height, in feet, and capacity, in millions of cubic feet)

10.0	0	13.0	9,397	16.0	18,908
11.0	3,110	14.0	12,537	17.0	22,121
12.0	6,237	15.0	15,713	18.0	25,355

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.88	15.77	15.58	15.21	14.24	13.61	12.20	12.92	17.58	17.09	16.29	14.97
2	14.83	15.80	15.47	15.18	14.20	13.54	12.10	13.06	17.55	17.10	16.34	14.92
3	14.78	15.79	15.43	15.18	14.15	13.48	12.03	13.20	17.50	17.08	16.31	14.82
4	15.14	15.71	15.46	15.17	14.10	13.40	12.00	13.45	17.50	17.04	16.29	14.72
5	15.24	15.67	15.48	15.17	14.06	13.38	11.97	13.74	17.48	17.00	16.28	14.72
6	15.27	15.66	15.50	15.14	14.03	13.36	11.88	14.02	17.46	16.98	16.25	14.72
7	15.30	15.62	15.54	15.10	14.02	13.32	11.79	14.20	17.46	16.95	16.20	14.72
8	15.34	15.65	15.55	15.05	14.01	13.30	11.75	14.43	17.47	16.94	16.17	14.64
9	15.36	15.64	15.56	15.00	13.98	13.28	11.69	14.65	17.47	16.90	16.15	14.54
10	15.36	15.58	15.59	14.94	13.94	13.24	11.60	14.86	17.43	16.87	16.10	14.48
11	15.36	15.59	15.52	14.88	13.92	13.20	11.52	15.10	17.39	16.85	15.95	14.40
12	15.36	15.58	15.48	14.85	13.90	13.19	11.49	15.40	17.39	16.84	15.93	14.30
13	15.34	15.57	15.46	14.81	13.84	13.17	11.43	15.72	17.39	16.81	15.89	14.33
14	15.31	15.57	15.45	14.78	13.84	13.15	11.51	15.98	17.40	16.76	15.85	14.26
15	15.30	15.55	15.45	14.74	13.88	13.12	11.60	16.18	17.39	16.73	15.83	14.20
16	15.30	15.50	15.44	14.72	13.83	13.05	11.66	16.42	17.35	16.73	15.72	14.13
17	15.32	15.46	15.43	14.72	13.78	13.02	11.70	16.68	17.30	16.71	15.64	14.08
18	15.32	15.39	15.48	14.72	13.75	12.98	11.75	16.90	17.28	16.70	15.57	14.00
19	15.33	15.32	15.48	14.68	13.70	12.95	11.79	17.12	17.27	16.69	15.48	13.93
20	15.35	15.28	15.47	14.65	13.65	12.93	11.78	17.24	17.28	16.70	15.38	13.88
21	15.31	15.22	15.47	14.61	13.69	12.90	11.82	17.32	17.28	16.66	15.30	13.82
22	15.30	15.27	15.43	14.58	13.72	12.85	11.90	17.38	17.30	16.61	15.28	13.76
23	15.32	15.32	15.36	14.54	13.72	12.81	12.02	17.50	17.26	16.59	15.25	13.71
24	15.48	15.46	15.30	14.50	13.74	12.78	12.10	17.58	17.21	16.58	15.20	13.60
25	15.56	15.45	15.33	14.45	13.72	12.72	12.28	17.58	17.18	16.56	15.17	13.52
26	15.58	15.48	15.25	14.42	13.71	12.66	12.40	17.55	17.20	16.54	15.11	13.45
27	15.63	15.49	15.32	14.38	13.68	12.60	12.50	17.53	17.18	16.50	15.05	13.38
28	15.67	15.50	15.35	14.35	13.66	12.53	12.61	17.51	17.15	16.45	14.99	13.32
29	15.70	15.55	15.35	14.31	-----	12.44	12.72	17.50	17.11	16.41	15.04	13.25
30	15.72	15.56	15.30	14.26	-----	12.38	12.84	17.52	17.09	16.38	15.04	13.19
31	15.75	-----	15.26	14.23	-----	12.28	-----	17.56	-----	16.31	15.03	-----
MAX	15.75	15.80	15.59	15.21	14.24	13.61	12.84	17.58	17.58	17.10	16.34	14.97
MIN	14.78	15.22	15.25	14.23	13.65	12.28	11.43	12.92	17.09	16.31	14.99	13.19
*	18,108	17,500	16,542	13,266	11,463	7,116	8,875	23,929	22,411	19,903	15,809	9,978
**	+2,649	-608	-958	-3,276	-1,803	-4,347	-1,759	+15,054	-1,518	-2,508	-4,094	-5,831

CAL YR: ** -7,387

WTR YR: ** -5,481

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

** Change in contents, in millions of cubic feet.

01041000 Kennebec River at Moosehead, Maine

LOCATION.--Lat 45°35'08", long 69°43'05", Somerset County, on right bank 700 ft downstream from dam at East Outlet of Moosehead Lake and 0.2 mile northwest of Moosehead.

DRAINAGE AREA.--1,266 sq mi.

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

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

AVERAGE DISCHARGE.--52 years, 1,894 cfs (20.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,060 cfs July 26 (gage height, 6.45 ft); minimum, 162 cfs June 20, 21 (gage height, 2.25 ft).

Period of record: Maximum discharge, 15,600 cfs May 8, 1947 (gage height, 9.94 ft); minimum, about 62 cfs Apr. 7-15, 1923.

REMARKS.--Records excellent. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (see sta 01040500, p. 52) and by Brassua Lake and First Roach Pond (see p. 62).

REVISIONS (WATER YEARS).--WSP 1301: 1928-50 (adjusted monthly runoff). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,680	1,070	2,500	1,890	2,200	2,730	3,590	378	3,360	2,450	960	1,940
2	2,650	1,690	2,980	1,530	3,140	2,720	3,630	378	3,230	2,510	1,390	3,020
3	1,290	2,290	2,390	1,530	3,110	2,690	3,680	392	2,130	1,840	1,790	3,480
4	229	2,600	1,800	1,520	3,080	2,680	3,650	413	2,010	1,490	2,710	1,900
5	230	2,580	897	2,120	3,050	2,670	3,520	420	2,260	1,460	2,940	772
6	230	2,560	441	2,720	2,500	2,650	3,460	420	1,460	1,450	2,230	767
7	230	1,430	440	2,740	2,130	2,630	3,410	427	1,130	2,200	1,200	2,030
8	636	832	865	2,720	2,670	2,610	3,340	434	3,050	2,450	650	3,180
9	818	1,360	1,080	2,700	3,000	2,570	3,280	441	3,880	2,150	1,320	3,290
10	818	1,570	2,400	2,680	2,980	2,560	3,230	448	3,100	682	2,660	3,230
11	818	1,580	2,980	2,660	2,950	2,530	3,160	789	1,550	682	2,900	3,160
12	1,790	1,580	2,020	2,640	2,930	2,530	3,100	462	1,350	1,190	2,620	1,700
13	2,260	1,580	1,610	2,620	1,680	2,030	1,940	699	874	2,290	2,270	2,240
14	2,260	1,570	1,600	2,600	1,230	1,710	399	2,790	1,520	1,840	2,000	3,090
15	2,750	2,400	1,610	2,580	2,650	2,150	862	1,860	2,330	2,270	1,970	3,040
16	2,210	3,010	1,610	1,860	2,900	2,430	1,200	874	2,480	1,740	2,800	3,000
17	1,500	2,980	1,580	1,400	2,870	2,410	1,220	892	2,100	2,040	3,110	2,950
18	878	2,950	1,600	1,940	2,860	2,400	1,230	901	1,900	1,610	3,080	2,920
19	327	3,170	1,590	2,530	2,530	2,350	2,080	1,280	1,050	1,770	3,120	1,900
20	2,180	3,640	1,600	2,510	1,380	2,350	2,720	2,040	970	1,780	2,940	2,340
21	2,050	1,370	2,540	2,490	1,040	2,350	2,540	2,180	1,480	1,930	2,060	2,760
22	364	191	2,910	2,460	1,580	2,320	872	2,220	2,450	1,640	1,490	2,710
23	367	193	2,890	2,450	1,980	2,290	338	1,160	2,410	2,530	1,950	2,650
24	372	194	2,870	2,430	1,990	2,450	338	2,990	2,480	2,070	2,370	2,590
25	375	193	2,880	2,920	1,990	2,680	344	5,210	2,330	880	2,360	2,540
26	278	190	1,120	3,260	1,970	3,020	357	4,650	1,490	1,950	2,330	2,490
27	233	441	285	3,220	1,960	3,170	357	5,700	1,240	2,080	2,310	2,430
28	234	650	1,270	3,210	2,460	3,460	364	5,570	1,690	1,810	2,300	2,590
29	230	986	2,570	3,190	-----	3,660	371	2,080	2,000	1,850	1,250	2,880
30	232	1,640	2,850	2,530	-----	3,660	371	2,490	2,260	2,570	872	2,960
31	233	-----	2,830	1,570	-----	3,650	-----	3,090	-----	1,700	1,580	-----
TOTAL	31,752	48,490	58,608	75,220	66,810	82,110	58,953	54,078	61,564	56,904	65,532	76,549
MEAN	1,024	1,616	1,891	2,426	2,386	2,649	1,965	1,744	2,052	1,836	2,114	2,552
MAX	2,750	3,640	2,980	3,260	3,140	3,660	3,680	5,700	3,880	2,570	3,120	3,480
MIN	229	190	285	1,400	1,040	1,710	338	378	874	682	650	767
MEAN*	2,190	1,371	1,396	731	1,165	989	4,386	9,364	1,271	551	640	352
CFSM*	1.73	1.08	1.10	.58	.92	.78	3.46	7.40	1.00	.44	.51	.28
IN. *	1.99	1.20	1.27	.67	.96	.90	3.86	8.53	1.12	.50	.58	.31
CAL YR 1970 TOTAL	960,723											
WTR YR 1971 TOTAL	736,570											
MEAN 2,632												
MAX 9,710												
MIN 190												
MEAN* 2,231												
MEAN* 2,043												
CFSM* 1.76												
CFSM* 1.61												
IN* 23.92												
IN* 21.89												

* Adjusted for change in contents in Brassua and Moosehead Lakes, First Roach Pond, and diversion through West Outlet.

KENNEBEC RIVER BASIN

01042500 Kennebec River at The Forks, Maine

LOCATION.--Lat 45°20'25", long 69°57'48", Somerset County, on right bank at The Forks, 0.4 mile upstream from highway bridge and 0.7 mile upstream from Dead River.

DRAINAGE AREA.--1,589 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft above mean sea level. Prior to June 21, 1912, non-recording gage and June 21, 1912, to Oct. 17, 1919, water-stage recorder and nonrecording gage at highway bridge 0.4 mile downstream at different datum.

AVERAGE DISCHARGE.--70 years, 2,551 cfs (21.80 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 11,800 cfs May 5 (gage height, 7.10 ft); minimum daily, 215 cfs July 11.

Period of record: Maximum discharge, about 23,700 cfs June 18, 1917 (gage height, 10.1 ft, former site and datum); minimum, 85 cfs Sept. 3, 1953 (gage height, 1.02 ft).

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta 01040500, p. 52), Brassua Lake, and Moxie, Indian, and First Roach Ponds (see p. 62). Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,960	997	2,390	2,180	3,350	3,070	4,020	3,080	3,870	2,680	273	2,900
2	2,720	3,850	2,380	2,320	3,410	3,510	4,520	3,110	3,540	2,330	2,410	2,720
3	2,530	3,540	1,880	611	3,500	3,720	4,240	4,090	2,760	1,570	2,840	2,540
4	1,370	3,190	2,210	2,620	3,370	2,880	3,610	6,000	2,340	1,240	2,230	1,580
5	1,420	2,980	2,010	2,810	3,780	2,790	4,210	7,730	2,200	1,070	2,160	400
6	1,370	3,000	796	2,860	3,230	2,430	3,760	6,450	1,680	2,470	2,370	228
7	2,310	1,810	1,890	3,320	1,160	538	4,120	4,490	3,510	1,730	1,170	3,610
8	1,820	968	2,340	2,980	3,210	3,070	3,720	3,960	3,230	1,370	332	3,250
9	1,290	2,580	2,440	2,310	3,230	2,220	3,610	3,090	3,050	2,500	2,260	3,980
10	1,170	2,690	2,450	1,240	3,230	2,890	3,940	4,780	3,080	1,620	3,010	3,580
11	471	2,520	2,570	3,410	3,370	2,430	3,830	4,310	2,020	215	2,740	2,850
12	2,480	2,600	2,030	3,800	2,920	2,350	3,600	3,800	1,550	2,080	2,750	835
13	2,880	2,510	694	3,620	2,430	2,900	3,400	3,600	350	2,360	2,640	3,330
14	2,920	1,590	2,360	2,880	986	1,440	1,680	3,240	2,180	2,120	3,020	2,570
15	2,410	1,020	2,840	2,390	3,010	3,170	2,830	3,920	2,170	2,360	2,510	3,170
16	2,480	2,100	2,630	2,420	3,250	3,340	3,630	3,280	2,280	2,350	2,490	3,600
17	575	3,460	3,030	870	3,290	3,300	3,470	2,820	2,330	1,700	2,670	3,450
18	526	4,100	2,640	3,300	2,780	2,980	3,000	1,730	2,340	227	2,480	3,260
19	2,250	4,510	2,210	3,600	2,230	2,590	4,210	1,250	1,330	2,140	2,560	900
20	2,350	3,220	497	3,550	1,680	2,750	4,660	2,460	250	2,730	2,290	3,220
21	2,530	1,830	2,560	3,200	570	977	3,930	2,250	2,910	2,600	2,200	3,360
22	2,500	799	3,430	3,050	3,090	3,060	2,650	3,750	2,900	2,510	2,090	3,620
23	2,280	1,170	3,070	2,230	2,810	3,560	2,910	1,610	2,830	2,200	2,070	3,880
24	1,260	1,810	2,540	1,220	2,800	3,340	2,800	4,670	2,890	1,000	2,460	3,600
25	872	1,500	1,290	3,130	3,260	3,420	2,860	6,210	2,870	335	2,850	3,240
26	956	757	2,500	3,170	3,380	3,340	3,120	6,180	1,290	2,380	2,620	711
27	2,080	1,330	840	2,780	2,400	3,070	2,930	4,780	340	2,400	2,830	3,250
28	1,570	2,550	2,830	3,020	482	1,390	2,910	6,680	2,120	2,440	1,730	4,050
29	1,610	713	2,670	2,500	-----	3,450	2,940	5,130	2,100	2,370	1,940	3,650
30	1,760	1,960	3,010	2,370	-----	3,660	2,940	2,540	2,740	2,130	1,870	3,550
31	1,230	-----	2,990	1,410	-----	4,210	-----	2,880	-----	1,630	2,690	-----
TOTAL	56,950	67,654	70,017	81,171	76,208	87,845	104,050	123,870	69,050	58,857	70,555	84,884
MEAN	1,837	2,255	2,259	2,618	2,722	2,834	3,468	3,996	2,302	1,899	2,276	2,829
MAX	2,960	4,510	3,430	3,800	3,780	4,210	4,660	7,730	3,870	2,730	3,020	4,050
MIN	471	713	497	611	482	538	1,680	1,250	250	215	273	228
MEAN*	3,046	1,745	1,731	960	1,371	1,254	6,060	11,640	1,392	539	627	344
CFSM*	1.92	1.10	1.09	.60	.86	.79	3.81	7.33	.88	.34	.40	.22
IN. *	2.21	1.23	1.26	.70	.90	.91	4.25	8.45	.98	.39	.46	.24
CAL YR 1970	TOTAL 1,263,593	MEAN 3,462	MAX 12,900	MIN 213	MEAN* 2,961	CFSM* 1.86	IN* 25.30					
WTR YR 1971	TOTAL 951,111	MEAN 2,606	MAX 7,730	MIN 215	MEAN* 2,576	CFSM* 1.62	IN* 21.98					

* Adjusted for change in contents in Brassua and Moosehead Lakes, and First Roach, Indian and Moxie Ponds.

01043500 Dead River near Dead River, Maine

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

DRAINAGE AREA.--520 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October to December 1939, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 1,037.32 ft above mean sea level.

AVERAGE DISCHARGE.--32 years, 833 cfs (21.75 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 6,180 cfs June 28 (gage height, 8.76 ft); minimum daily, 0.5 cfs Sept. 12-14, 18-30.

Period of record: Maximum discharge, 18,000 cfs Sept. 12, 1954 (gage height, 11.50 ft); no flow part of July 31, 1949, when flow was completely shut off by cofferdam during construction of Flagstaff Lake Dam.

REMARKS.--Records good. Flow regulated by Flagstaff Lake (see sta 01043000 p. 62).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	265	309	696	500	227	1,080	8.8	1,300	939	1,820	7.2
2	1,030	1,080	709	694	498	609	1,020	8.8	924	1,030	1,620	632
3	305	295	708	694	498	939	972	8.8	533	1,410	1,500	1,030
4	16	4.5	709	694	498	938	937	8.8	452	1,650	1,440	846
5	15	4.0	719	691	498	1,290	893	8.8	1,090	1,160	1,000	783
6	15	3.3	720	687	497	1,850	866	8.8	1,340	1,650	757	1,990
7	321	794	719	687	494	1,840	847	8.8	863	2,130	728	1,120
8	853	1,080	725	687	496	1,800	819	8.8	37	2,100	688	7.2
9	983	458	721	687	493	1,550	792	8.8	259	2,070	1,400	6.0
10	983	5.5	717	687	492	926	764	8.8	218	2,390	2,010	5.5
11	979	3.6	726	682	391	1,170	766	8.8	38	2,460	801	3.5
12	975	3.1	729	680	336	1,760	816	1,220	89	1,740	11	.50
13	1,010	285	725	680	122	1,730	910	4,040	549	1,320	8.4	.50
14	1,060	1,070	721	680	3.8	1,690	1,020	5,260	926	1,290	1,110	.50
15	1,060	1,070	716	678	103	1,660	1,100	4,420	1,230	1,240	2,000	1.4
16	315	457	718	675	224	1,650	1,160	3,130	653	1,190	1,520	1.4
17	1,430	3.8	714	673	225	1,640	1,210	2,140	1,470	1,630	1,040	.60
18	2,040	3.6	711	673	225	1,610	1,240	796	1,250	1,730	1,080	.50
19	2,020	333	708	673	225	1,590	1,340	1,080	1,350	2,490	1,070	.50
20	764	807	708	668	227	1,580	1,400	2,740	1,880	1,870	1,220	.50
21	6.9	672	708	541	227	1,560	900	2,730	33	1,480	1,270	.50
22	4.7	6.2	708	504	227	1,530	420	2,670	1,790	1,610	1,560	.50
23	5.7	5.7	708	504	227	1,510	8.8	2,390	1,580	1,540	1,430	.50
24	17	5.1	708	504	227	1,480	8.8	2,460	1,520	2,050	1,050	.50
25	8.2	4.3	706	504	227	1,450	8.8	1,450	1,660	2,360	1,040	.50
26	6.6	4.0	702	504	227	1,400	8.8	1,240	1,610	2,170	1,040	.50
27	5.7	449	701	504	227	1,360	8.8	1,360	2,050	1,910	1,220	.50
28	4.8	1,070	701	504	227	1,310	8.8	1,360	2,260	1,560	617	.50
29	4.2	1,070	701	504	-----	1,250	8.8	1,470	581	1,430	11	.50
30	3.7	422	699	503	-----	1,190	8.8	1,520	831	1,320	9.6	.50
31	3.2	-----	698	501	-----	1,140	-----	1,350	-----	1,680	8.4	-----
TOTAL	17,274.7	11,733.7	21,672	19,243	8,861.8	43,229	21,342.4	44,922.8	30,366	52,599	32,079.4	6,441.80
MEAN	557	391	699	621	316	1,394	711	1,449	1,012	1,697	1,035	215
MAX	2,040	1,080	729	696	500	1,850	1,400	5,260	2,260	2,490	2,010	1,990
MIN	3.2	3.1	309	501	3.8	227	8.8	8.8	33	939	8.4	.50
MEAN*	785	515	462	244	331	352	2,336	4,090	359	166	325	151
CFSM*	1.51	.99	.89	.47	.64	.68	4.49	7.87	.69	.32	.62	.29
IN. *	1.74	1.10	1.02	.54	.66	.78	5.01	9.07	.77	.37	.72	.32

CAL YR 1970 TOTAL 448,335.50 MEAN 1,228 MAX 10,900 MIN 3.1 MEAN* 989 CFSM* 1.90 IN* 25.83
WTR YR 1971 TOTAL 309,765.60 MEAN 849 MAX 5,260 MIN .50 MEAN* 848 CFSM* 1.63 IN* 22.10

* Adjusted for change in contents in Flagstaff Lake.

01045000 Dead River at The Forks, Maine

LOCATION.--Lat 45°20'59", long 69°59'26", Somerset County, on left bank 1.5 miles northwest of The Forks, and 1.8 miles upstream from mouth.

DRAINAGE AREA.--872 sq mi.

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

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

AVERAGE DISCHARGE.--66 years (1902-7, 1910-71), 1,429 cfs (22.25 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,590 cfs May 13 (gage height, 6.28 ft); minimum daily, 104 cfs Aug. 13.

Period of record: Maximum discharge, 28,700 cfs Mar. 20, 1936 (gage height, 10.54 ft) from rating curve extended above 15,000 cfs; minimum daily since September 1923, 61 cfs Dec. 23, 1968.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow regulated by Flagstaff and Spencer Lakes (see sta 01043000 and 01044500, p. 62). Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	650	482	920	620	575	1,250	2,650	1,850	979	1,890	342
2	1,330	1,400	1,040	920	620	565	1,220	2,870	1,440	1,160	1,720	475
3	1,130	620	1,040	915	615	900	1,200	3,120	1,110	1,330	1,640	1,240
4	1,600	250	1,030	915	610	1,200	1,240	7,120	661	1,730	1,620	1,130
5	1,310	240	1,030	930	605	1,500	1,220	6,590	1,180	1,430	1,330	814
6	833	250	1,030	970	605	2,200	1,210	4,720	1,650	1,430	885	2,010
7	647	245	1,020	960	600	2,150	1,200	4,500	1,490	2,280	835	1,950
8	1,170	240	1,020	940	600	2,050	1,160	4,590	717	2,230	795	385
9	1,350	235	1,020	925	595	1,830	1,110	4,530	611	2,180	798	256
10	1,300	230	1,010	920	590	1,250	1,090	4,460	745	2,420	2,330	227
11	1,260	235	1,010	910	580	1,500	1,160	4,710	412	2,690	1,880	213
12	1,230	250	1,000	900	530	2,000	1,390	5,590	341	2,140	200	214
13	1,230	550	1,000	890	350	1,980	1,750	8,060	658	1,360	104	229
14	1,300	1,300	995	880	220	1,900	2,140	9,090	1,220	1,330	206	281
15	1,330	1,250	990	870	200	1,870	2,310	7,810	1,590	1,290	2,190	386
16	1,000	725	990	860	600	1,800	2,320	6,170	1,010	1,240	2,130	340
17	1,600	325	980	850	890	1,780	2,250	4,960	1,660	1,410	1,020	284
18	2,600	275	980	845	870	1,720	2,180	3,360	1,500	1,820	1,100	260
19	2,100	264	975	840	840	1,700	2,410	2,720	1,600	2,610	1,100	282
20	1,000	884	970	825	800	1,680	3,230	4,780	2,140	2,230	1,160	249
21	475	1,570	965	690	765	1,630	4,000	4,710	373	1,520	1,290	233
22	250	1,230	960	660	730	1,600	4,140	4,400	1,850	1,560	1,330	225
23	450	932	955	655	705	1,560	3,240	4,140	1,920	1,450	1,850	217
24	3,750	863	950	645	675	1,520	2,610	3,950	1,780	2,090	1,130	199
25	2,550	716	945	640	660	1,480	2,560	2,790	1,960	2,550	1,150	181
26	1,900	600	940	670	635	1,450	2,720	2,160	1,890	2,330	1,100	170
27	1,350	584	940	720	610	1,410	2,670	2,300	2,350	2,090	1,080	159
28	950	1,510	935	680	595	1,380	2,590	2,160	2,500	1,610	1,340	153
29	710	1,510	935	640	-----	1,350	2,670	2,120	483	1,470	667	148
30	550	1,250	930	630	-----	1,320	2,630	2,200	932	1,360	483	148
31	450	-----	925	625	-----	1,290	-----	1,890	-----	1,490	306	-----
TOTAL	40,055	21,183	29,992	25,240	17,315	48,140	62,870	135,220	39,623	54,809	36,659	13,400
MEAN	1,292	706	967	814	618	1,553	2,096	4,362	1,321	1,768	1,183	447
MAX	3,750	1,570	1,040	970	890	2,200	4,140	9,090	2,500	2,690	2,330	2,010
MIN	250	230	482	625	200	565	1,090	1,890	341	979	104	148
MEAN*	1,494	830	730	437	633	511	3,828	7,138	658	230	467	238
CFSM*	1.71	.95	.84	.50	.73	.59	4.39	8.19	.76	.26	.54	.27
IN*	1.97	1.06	.96	.58	.76	.68	4.90	9.44	.84	.30	.62	.30

CAL YR 1970 TOTAL 698,608 MEAN 1,914 MAX 15,700 MIN 101 MEAN* 1,655 CFSM* 1.90 IN* 25.76
WTR YR 1971 TOTAL 524,506 MEAN 1,437 MAX 9,090 MIN 104 MEAN* 1,440 CFSM* 1.65 IN* 22.41

* Adjusted for change in contents in Flagstaff and Spencer Lakes.

Note.--No gage-height record Oct. 16 to Nov. 17.

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

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

DRAINAGE AREA.--2,720 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft above mean sea level. June 1907 to June 1910, non-recording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--43 years (1907-8, 1930-71), 4,321 cfs (21.57 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 24,100 cfs May 5 (gage height, 11.09 ft); minimum daily, 1,980 cfs Dec. 26.

Period of record: Maximum discharge, 58,800 cfs Mar. 20, 1936 (gage height, 14.44 ft), from rating curve extended above 30,000 cfs on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 cfs Dec. 25, 1947.

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta 01040500, p. 52), Brassua, Flagstaff, and Spencer Lakes, First Roach, Indian, Moxie, and Wyman Ponds (see p. 62). Considerable diurnal fluctuation caused by powerplant above station. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,460	2,770	3,110	3,230	3,370	3,570	4,840	6,270	4,860	3,460	3,140	3,250
2	3,410	3,280	3,250	2,990	3,670	3,720	4,770	6,370	5,000	3,570	3,770	2,830
3	3,030	3,110	3,470	2,620	3,620	3,930	4,730	8,250	4,650	3,330	3,670	3,650
4	5,950	3,330	3,340	3,640	3,590	3,730	4,920	12,100	4,120	3,280	3,710	3,260
5	3,910	3,340	3,190	3,670	3,740	3,390	4,710	19,700	3,710	3,000	3,630	3,260
6	3,380	3,020	2,460	3,620	3,240	3,840	4,600	13,600	3,410	3,550	3,680	3,450
7	3,130	2,750	3,230	3,730	3,190	3,870	4,920	10,900	3,910	3,450	3,340	3,330
8	3,890	2,470	3,360	3,750	3,590	3,820	5,310	11,100	3,740	3,630	3,300	3,310
9	3,460	3,460	3,340	3,520	3,530	4,070	5,360	9,810	3,280	3,670	3,580	2,970
10	2,850	3,450	3,400	2,820	3,600	4,310	5,340	11,100	3,310	3,670	3,310	3,200
11	2,940	3,460	3,480	3,570	3,580	4,010	5,270	10,800	3,230	3,300	3,490	3,240
12	3,390	3,590	2,830	3,890	3,450	4,570	5,540	10,900	3,150	3,630	3,400	3,170
13	3,460	3,630	2,380	3,650	3,200	4,320	7,050	12,600	3,110	3,670	3,550	3,370
14	3,500	3,120	3,500	3,600	2,700	4,560	9,050	14,100	3,290	3,610	3,450	3,250
15	3,370	2,770	3,450	2,970	3,560	4,180	8,570	12,800	3,390	3,640	3,290	3,100
16	3,300	3,600	3,400	3,500	3,090	4,740	8,030	10,100	3,380	3,610	3,570	3,220
17	2,440	3,540	3,450	2,280	3,250	4,810	7,790	8,230	3,450	3,710	3,680	3,300
18	2,530	3,490	3,630	3,840	2,860	5,300	7,830	7,560	3,480	3,470	3,700	3,170
19	3,260	3,830	2,920	3,370	2,910	5,220	8,190	5,590	3,290	3,880	3,600	3,200
20	3,690	3,300	2,580	3,300	3,010	4,830	8,610	5,170	3,440	3,800	3,630	3,200
21	3,770	3,130	3,690	3,510	2,590	4,890	9,340	6,750	3,480	3,960	3,470	3,090
22	3,590	3,210	3,650	3,370	2,900	4,940	9,730	7,380	3,780	3,930	3,410	3,120
23	3,300	3,270	3,660	3,290	3,240	4,870	9,460	8,380	3,800	3,860	3,860	3,290
24	4,800	3,530	3,010	2,960	3,300	4,940	9,190	7,290	3,790	3,600	3,820	3,230
25	4,590	3,190	2,020	3,480	3,400	5,130	9,210	8,520	3,790	3,460	4,040	3,290
26	3,640	2,320	1,980	3,470	3,260	4,980	9,300	7,810	3,050	3,870	3,900	3,150
27	3,640	2,920	2,350	3,320	3,190	4,980	9,170	7,370	2,910	3,730	3,830	3,240
28	2,910	2,590	3,880	3,610	2,730	4,840	9,060	8,100	3,790	3,680	3,440	3,300
29	3,060	2,440	3,690	3,260	-----	4,840	8,380	8,470	3,780	3,950	3,240	3,430
30	2,790	3,140	3,740	3,200	-----	4,880	7,650	5,840	3,500	3,580	3,050	3,540
31	2,990	-----	3,600	2,890	-----	4,750	-----	4,380	-----	3,480	3,130	-----
TOTAL	107,430	95,050	99,040	103,920	91,360	138,830	215,920	287,340	108,870	112,030	109,680	97,410
MEAN	3,465	3,168	3,195	3,352	3,263	4,478	7,197	9,269	3,629	3,614	3,538	3,247
MAX	5,950	3,830	3,880	3,890	3,740	5,300	9,730	19,700	5,000	3,960	4,040	3,650
MIN	2,440	2,320	1,980	2,280	2,590	3,390	4,600	4,380	2,910	3,000	3,050	2,830
MEAN*	4,857	2,902	2,408	1,247	1,969	1,782	11,110	20,190	2,040	716	1,250	518
CFSM*	1.79	1.07	.88	.46	.72	.66	4.08	7.42	.75	.26	.46	.19
IN. *	2.06	1.19	1.02	.53	.75	.76	4.55	8.55	.84	.30	.53	.21
CAL YR 1970 TOTAL	2,036,500											
WTR YR 1971 TOTAL	1,566,880											
MEAN	5,579											
MAX	28,700											
MIN	1,980											
MEAN*	4,816											
CFSM*	4,270											
IN*	24.03											
IN*	21.29											

* Adjusted for change in contents in Brassua, Moosehead, Flagstaff and Spencer Lakes, and First Roach, Indian, Moxie and Wyman Ponds.

01047000 Carrabassett River near North Anson, Maine

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

DRAINAGE AREA.--354 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft above mean sea level. November 1, 1901, to May 5, 1907, nonrecording gage 1 mile upstream at different datum.

AVERAGE DISCHARGE.--50 years (1902-6, 1925-71), 694 cfs (26.62 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,500 cfs May 4 (gage height, 15.23 ft); minimum, 57 cfs Aug. 8-21, 22 (gage height, 2.56 ft).

Period of record: Maximum discharge, 30,800 cfs Mar. 19, 1936 (gage height, 21.17 ft); minimum, 18 cfs Oct. 29, 1929 (gage height, 2.02 ft).

REVISIONS.--The maximum discharge for the water year 1951 has been revised to 20,100 cfs Apr. 4, 1951 (gage height, 16.98 ft), superseding figure published in WSP 1201 and 1721.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flows by mills above station. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: Drainage area. WSP 1231: 1904-7, 1928 (M), 1932 (M), 1936 (M), 1938 (M), 1944 (M), 1950 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	400	572	250	255	415	395	2,740	569	137	74	185
2	140	362	547	250	235	420	425	2,890	483	130	87	115
3	218	313	536	250	220	405	520	4,350	435	123	149	86
4	2,610	259	514	245	210	385	920	14,700	439	109	256	78
5	1,610	260	485	255	205	370	1,230	8,060	389	100	262	73
6	963	273	470	265	205	360	1,150	4,890	339	93	202	70
7	591	255	455	270	205	350	1,020	4,060	308	89	188	72
8	408	241	435	270	210	340	920	3,680	363	84	187	74
9	311	229	415	265	210	335	850	3,310	457	79	148	72
10	252	222	400	260	215	330	800	3,000	330	72	118	66
11	216	247	380	260	225	325	1,000	3,170	256	69	110	61
12	195	292	370	255	235	320	1,700	3,100	222	65	115	71
13	181	282	355	250	270	320	3,500	2,930	202	62	110	188
14	176	266	350	245	325	320	5,220	2,510	185	69	94	295
15	198	250	335	240	420	335	3,810	1,810	172	75	82	428
16	422	271	325	240	680	375	2,040	1,570	165	79	75	304
17	602	286	315	235	650	510	1,530	1,510	157	84	68	214
18	451	248	305	235	580	650	1,350	1,520	146	115	64	162
19	352	208	300	230	535	595	2,420	1,520	138	121	60	129
20	281	217	295	230	495	540	4,370	1,440	129	114	59	118
21	239	1,970	290	225	460	505	5,660	1,320	131	110	58	104
22	216	1,780	285	220	425	480	5,410	1,170	196	89	58	92
23	275	1,620	280	220	400	460	4,230	1,270	187	77	69	92
24	3,770	1,670	280	215	380	445	3,410	963	157	71	103	79
25	2,510	1,150	275	215	370	430	3,580	792	153	75	96	71
26	1,580	767	270	230	360	415	3,670	883	352	87	81	67
27	1,160	594	265	260	355	405	3,500	890	302	81	72	64
28	843	472	260	325	375	400	3,470	885	205	75	274	63
29	645	572	260	355	-----	395	3,150	858	165	72	1,100	63
30	529	568	255	335	-----	390	2,830	724	147	69	559	64
31	454	-----	255	300	-----	385	-----	648	-----	68	314	-----
TOTAL	22,551	16,544	11,134	7,900	9,710	12,710	74,080	83,163	7,879	2,743	5,292	3,620
MEAN	727	551	359	255	347	410	2,469	2,683	263	88.5	171	121
MAX	3,770	1,970	572	355	680	650	5,660	14,700	569	137	1,100	428
MIN	140	208	255	215	205	320	395	648	129	62	58	61
CFSM	2.05	1.56	1.01	.72	.98	1.16	6.97	7.58	.74	.25	.48	.34
IN.	2.37	1.74	1.17	.83	1.02	1.34	7.78	8.74	.83	.29	.56	.38
CAL YR 1970	TOTAL 299,100	MEAN 819	MAX 8,500	MIN 44	CFSM 2.31	IN 31.43						
WTR YR 1971	TOTAL 257,326	MEAN 705	MAX 14,700	MIN 58	CFSM 1.99	IN 27.04						

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-21	2300	9.28	6,520	5-04	0700	15.23	17,500

01048000 Sandy River near Mercer, Maine

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

DRAINAGE AREA.--514 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft above mean sea level.

AVERAGE DISCHARGE.--43 years, 928 cfs (24.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,900 cfs May 4 (gage height, 11.63 ft); minimum, 69 cfs Aug. 24 (gage height, 2.49 ft).

Period of record: Maximum discharge, 38,600 cfs Mar. 19, 1936 (gage height, 16.75 ft), from rating curve extended above 13,000 cfs 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, 1970, from floodmark (backwater from ice); minimum discharge, 32 cfs Sept. 22-26, 1939 (gage height, 2.15 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	411	686	335	395	650	655	3,660	667	173	101	202
2	167	384	637	330	365	680	700	3,900	578	169	125	161
3	141	370	580	325	345	680	800	4,710	514	171	146	136
4	1,520	341	540	320	330	665	1,700	15,400	499	160	226	118
5	1,140	332	503	330	320	640	1,900	10,500	475	142	279	107
6	495	345	542	350	315	620	1,680	6,320	403	129	227	96
7	350	332	516	345	310	605	1,500	5,150	368	123	185	90
8	277	290	505	335	310	590	1,350	4,390	398	115	166	87
9	227	268	495	330	315	575	1,230	3,830	624	110	172	85
10	192	268	480	325	320	560	1,170	3,350	557	106	142	82
11	167	268	475	320	330	550	1,650	3,370	418	99	130	77
12	152	274	465	315	355	550	1,800	3,320	351	94	134	86
13	144	277	460	310	385	540	3,900	2,960	301	90	153	106
14	139	272	450	310	435	540	5,680	2,860	265	93	147	144
15	162	250	445	305	530	565	4,460	2,120	255	92	122	237
16	369	261	440	300	920	650	3,350	1,740	231	90	106	328
17	606	312	425	295	1,040	850	2,600	1,640	211	93	108	244
18	407	323	420	295	1,020	1,180	2,470	1,550	196	103	102	188
19	308	297	410	290	915	1,080	4,960	1,510	180	142	95	154
20	253	300	405	285	850	1,000	7,520	1,390	169	171	96	136
21	218	1,590	395	280	780	930	8,530	1,270	181	160	92	128
22	199	2,560	390	280	735	880	8,400	1,150	247	151	79	122
23	348	1,360	385	280	700	830	6,830	1,370	256	123	73	122
24	3,940	1,270	375	275	670	790	5,390	1,140	213	108	70	124
25	1,890	972	375	275	650	750	5,540	921	200	113	72	110
26	1,120	686	365	285	635	720	5,490	939	407	112	81	98
27	904	583	360	340	620	705	5,010	1,110	540	110	78	92
28	729	593	355	460	630	680	4,950	1,180	314	104	110	86
29	610	701	350	515	-----	670	4,500	1,210	228	98	480	86
30	525	729	345	485	-----	650	3,880	914	186	98	518	87
31	464	-----	340	430	-----	640	-----	769	-----	98	287	-----
TOTAL	18,332	17,219	13,914	10,255	15,525	22,015	109,595	95,643	10,432	3,740	4,902	3,919
MEAN	591	574	449	331	554	710	3,653	3,085	348	121	158	131
MAX	3,940	2,560	686	515	1,040	1,180	8,530	15,400	667	173	518	328
MIN	139	250	340	275	310	540	655	769	169	90	70	77
CFSM	1.15	1.12	.87	.64	1.08	1.38	7.11	6.00	.68	.24	.31	.25
IN.	1.33	1.25	1.01	.74	1.12	1.59	7.93	6.92	.76	.27	.35	.28

CAL YR 1970 TOTAL 400,262 MEAN 1,097 MAX 12,500 MIN 51 CFSM 2.13 IN 28.97
WTR YR 1971 TOTAL 325,491 MEAN 892 MAX 15,400 MIN 70 CFSM 1.74 IN 23.56

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	0600	8.62	9,150	5-04	1500	11.63	17,900

KENNEBEC RIVER BASIN

01049000 Sebasticook River near Pittsfield, Maine

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

DRAINAGE AREA.--579 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft above mean sea level.

AVERAGE DISCHARGE.--42 years (1929-71), 920 cfs (21.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,000 cfs Apr. 24 (gage height, 8.07 ft); minimum daily, 21 cfs July 24.

Period of record: Maximum discharge, 14,400 cfs Mar. 22, 1936 (gage height, 13.18 ft); minimum daily, 4.5 cfs Nov. 10, 1956.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated at dam 0.4 mile upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond (combined capacity, about 2,345,000,000 cu ft).

REVISIONS.--WSP 1271: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	342	607	290	415	900	1,340	4,020	603	157	89	87
2	309	333	570	290	440	895	1,400	3,740	548	165	140	81
3	300	307	520	290	430	890	1,550	3,580	497	155	145	78
4	301	275	509	295	420	895	1,900	3,930	458	146	179	77
5	293	256	485	300	400	890	2,380	4,620	421	136	182	76
6	281	246	479	305	390	870	2,710	5,340	374	129	166	75
7	270	241	461	305	380	845	2,970	5,510	341	124	164	74
8	260	234	444	305	370	815	3,030	5,210	339	117	147	74
9	251	227	427	305	370	780	2,950	4,610	360	84	133	75
10	243	221	417	300	380	755	2,880	4,020	391	69	125	77
11	236	217	408	300	395	725	3,100	3,500	390	66	122	78
12	229	214	400	300	410	700	3,390	2,950	382	66	121	81
13	223	211	381	300	440	680	3,840	2,370	363	64	118	87
14	218	209	366	300	500	660	4,490	1,830	336	75	115	94
15	217	206	354	295	590	675	5,030	1,210	307	73	113	98
16	250	210	346	295	700	740	5,170	919	283	65	108	101
17	278	239	325	290	860	950	4,950	842	264	63	105	111
18	279	253	320	290	1,030	1,300	4,630	782	244	70	102	122
19	269	235	315	290	1,120	1,850	4,440	714	212	72	100	136
20	255	220	310	285	1,210	1,980	4,550	651	185	108	97	148
21	242	229	310	285	1,270	2,020	4,920	597	178	89	94	160
22	232	280	310	280	1,260	1,930	5,420	578	185	77	93	161
23	231	374	305	280	1,220	1,750	5,820	682	180	46	91	156
24	282	606	300	280	1,150	1,640	5,980	683	166	21	90	150
25	313	631	300	280	1,060	1,530	5,910	630	171	24	88	146
26	321	627	295	280	990	1,460	5,710	602	198	25	88	143
27	324	616	295	290	940	1,380	5,450	595	196	27	90	142
28	331	644	295	305	910	1,320	5,120	726	187	28	95	140
29	344	649	290	325	-----	1,270	4,690	771	170	28	105	141
30	351	622	290	350	-----	1,270	4,330	715	159	29	115	145
31	348	-----	290	385	-----	1,300	-----	661	-----	31	95	-----
TOTAL	8,596	10,174	11,724	9,270	20,050	35,665	120,050	67,588	9,088	2,429	3,615	3,314
MEAN	277	339	378	299	716	1,155	4,002	2,180	303	78.4	117	110
MAX	351	649	607	385	1,270	2,020	5,980	5,510	603	165	182	161
MIN	217	206	290	280	370	660	1,340	578	159	21	88	74
CAL YR 1970	TOTAL	392,685	MEAN	1,076	MAX	9,850	MIN	28				
WTR YR 1971	TOTAL	301,563	MEAN	826	MAX	5,980	MIN	21				

01049300 North Branch Tanning Brook near Manchester, Maine

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, on right bank 28 ft upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft upstream from mouth, and 1.8 miles north of Manchester.

DRAINAGE AREA.--0.93 sq mi.

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (from topographic map).

AVERAGE DISCHARGE.--7 years (1965-71), 1.77 cfs (25.85 inches per year).

EXTREMES.--Current year: Maximum discharge, 73 cfs May 3 (gage height, 2.94 ft); maximum gage height, 3.15 ft Feb. 14 (backwater from ice); minimum discharge, .08 cfs Sept. 11 (gage height, 0.52 ft).
Period of record: Maximum discharge, 97 cfs Feb. 11, 1970 (gage height, 3.20 ft); maximum gage height, 3.44 ft Mar. 25, 1969 (backwater from ice); minimum discharge, 0.05 cfs Aug. 21, 1970.
Maximum discharge known since September 1963, 104 cfs November 8, 1963 (gage height, 3.26 ft) from crest-stage gage.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.29	.99	.35	.39	2.1	2.5	3.0	1.0	.19	.76	.17
2	.17	.32	.87	.35	.34	1.6	4.0	2.7	.83	.20	.37	.15
3	.19	.28	.76	.35	.31	1.5	7.5	20	.95	.16	.49	.14
4	.31	.26	.70	.35	.29	1.3	10	21	.95	.14	3.4	.13
5	.17	2.0	.66	.59	.28	1.2	9.0	7.5	.78	.13	.61	.13
6	.27	2.4	.61	.80	.27	1.1	8.0	4.8	.61	.12	.26	.13
7	.21	1.1	.58	.49	.27	1.1	5.8	3.8	.53	.13	.24	.13
8	.14	.57	.54	.40	.27	1.1	4.1	3.3	1.4	.14	.22	.13
9	.13	.52	.52	.36	.28	1.0	4.0	2.9	3.0	.14	.17	.12
10	.15	.55	.49	.33	.30	1.0	6.9	2.9	1.2	.12	.15	.11
11	.20	.43	.47	.31	.32	1.0	14	2.3	.79	.09	.21	.10
12	.20	.32	.45	.30	.40	.98	14	2.2	.61	.09	.25	.69
13	.18	.31	.43	.28	.60	1.0	16	2.5	.52	.10	.20	1.2
14	.16	.25	.42	.27	3.7	1.1	14	3.8	.49	.17	.14	2.6
15	.20	.29	.41	.26	2.4	2.1	9.4	2.5	.63	.14	.14	1.5
16	3.1	.59	.40	.25	1.9	3.8	6.7	2.0	.49	.11	.14	.54
17	.97	.62	.40	.24	1.5	4.2	5.2	2.6	.27	.12	.14	2.4
18	.47	.51	.39	.24	1.2	3.2	8.6	2.1	.23	.18	.14	.95
19	.24	.52	.39	.23	1.1	2.5	16	1.7	.23	.31	.14	.44
20	.22	.52	.38	.23	1.0	2.4	14	1.6	.21	1.2	.13	.32
21	.32	3.2	.38	.23	.93	2.1	13	1.4	.19	.45	.13	.33
22	.29	1.7	.38	.23	.88	1.8	11	1.8	.40	.26	.13	.26
23	4.7	4.7	.37	.22	.86	1.8	7.6	3.0	.40	.20	.13	.21
24	5.9	2.9	.37	.23	.84	1.7	6.1	1.8	.32	.16	.13	.20
25	1.4	1.4	.37	.24	.83	1.6	5.7	1.4	.30	.18	.14	.17
26	.70	.80	.37	.70	.82	1.4	5.5	1.4	.87	.16	.14	.17
27	.78	.67	.36	2.0	1.0	1.3	4.6	1.3	.39	.18	.12	.15
28	.42	.98	.36	1.4	2.5	1.4	4.0	1.8	.26	.17	3.0	.15
29	.35	1.7	.36	.80	-----	1.5	3.7	1.4	.27	.18	1.5	.18
30	.30	1.3	.36	.55	-----	1.7	3.3	.99	.20	.55	.50	.23
31	.28	-----	.35	.46	-----	1.9	-----	1.1	-----	.52	.23	-----
TOTAL	23.34	32.00	14.89	14.04	25.78	53.48	244.2	112.59	19.32	6.99	14.45	14.13
MEAN	.75	1.07	.48	.45	.92	1.73	8.14	3.63	.64	.23	.47	.47
MAX	5.9	4.7	.99	2.0	3.7	4.2	16	21	3.0	1.2	3.4	2.6
MIN	.13	.25	.35	.22	.27	.98	2.5	.99	.19	.09	.12	.10
CFSM	.81	1.15	.52	.48	.99	1.86	8.75	3.90	.69	.25	.51	.51
IN.	.93	1.28	.60	.56	1.03	2.14	9.77	4.50	.77	.28	.58	.57

CAL YR 1970 TOTAL 869.07 MEAN 2.38 MAX 60 MIN .07 CFSM 2.56 IN 34.76
WTR YR 1971 TOTAL 575.21 MEAN 1.58 MAX 21 MIN .09 CFSM 1.70 IN 23.01

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-03	1945	2.94	73				

Reservoirs in Kennebec River basin

- 01038500 BRASSUA LAKE on Moose River, 4 miles southwest of Rockwood, Maine, completed in 1928, for power, has usable capacity of 8,560,000,000 cu ft between elevations 1,043.0 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 cu ft between gage heights 1.0 and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p. 52).
- 01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 miles downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 cu ft in normal operating range between elevations 950.0 and 955.0 ft (total capacity of pond, 3,150,000,000 cu ft below elevation 955.0 ft). Elevation record furnished by Central Maine Power Co.
- 01042000 MOXIE POND on Moxie Stream, 4.8 miles east of The Forks, Maine, used for power, has usable capacity of 640,000,000 cu ft between gage heights 6.0 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 mile upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 cu ft between elevations 1,110 and 1,146 ft. Elevation record furnished by Kennebec Water Power Co.
- 01044500 SPENCER LAKE on Little Spencer Stream, in T. 3, R. 5, Maine, 4 miles upstream from mouth, used for power, has usable capacity of 639,000,000 cu ft between gage heights 3.4 and 12.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01045500 WYMAN POND on Kennebec River, 1.5 miles upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 cu ft in normal operating range between elevations 465.0 and 485.0 ft (total capacity of pond, 9,080,000,000 cu ft below elevation 485.0 ft). Elevation record furnished by Central Maine Power Co.

MONTH-END CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	SPENCER LAKE	WYMAN POND
SEPT. 30, 1970	2,993	210	3,096	170	4,230	70	8,780
OCT. 31	3,502	0	3,006	550	4,840	0	8,730
NOV. 30	3,320	0	3,024	0	5,162	0	9,040
DEC. 31	2,846	0	3,042	0	4,528	0	8,980
JAN. 31, 1971	1,503	0	3,222	0	3,519	0	8,790
FEB. 28	291	0	2,970	0	3,556	0	8,890
MAR. 31	138	0	3,240	0	765	0	8,690
APR. 30	4,005	597	3,114	622	4,977	277	7,630
MAY 31	8,896	911	3,258	703	12,050	639	8,960
JUNE 30	8,318	774	3,150	685	10,357	613	8,920
JULY 31	7,429	557	3,204	604	6,257	595	8,920
AUG. 31	7,389	597	2,936	685	4,356	579	8,990
SEPT. 30	7,429	570	2,665	332	4,189	205	8,900

Note.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month. Gates removed and no usable storage now available in Second Roach Pond which previously was listed in this table.

01052500 Diamond River near Wentworth Location, N. H.

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

DRAINAGE AREA.--153 sq mi.

RECORDS AVAILABLE.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage 1,275 ft (from topographic map).

AVERAGE DISCHARGE.--30 years, 338 cfs (30.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,040 cfs May 11 (gage height, 7.72 ft); minimum, 24 cfs Aug. 20, 21 (gage height, 1.31 ft).

Period of record: Maximum discharge, 8,630 cfs June 16, 1943 (gage height, 10.66 ft), from rating curve extended above 3,900 cfs; minimum, 6.8 cfs Aug. 27, 28, 1949, Sept. 1, 1952 (gage height, 0.81 ft).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	523	186	270	120	78	88	79	1,540	339	121	93	157
2	377	175	253	120	77	86	81	1,450	281	330	134	112
3	562	166	240	115	76	84	90	1,600	277	142	187	90
4	1,120	156	215	110	76	82	150	2,970	277	92	334	78
5	621	152	183	110	76	81	125	2,860	242	71	136	70
6	427	149	170	115	76	80	110	2,060	197	60	83	76
7	335	141	165	110	76	79	105	2,410	182	55	395	104
8	281	141	160	110	75	78	100	2,580	633	49	254	84
9	243	130	160	100	74	78	100	2,820	507	43	128	72
10	211	125	155	97	75	77	105	3,000	293	42	87	90
11	192	128	155	93	76	77	145	3,430	214	37	65	66
12	185	135	155	90	75	76	320	3,570	178	34	61	67
13	183	128	150	86	73	76	640	3,390	154	32	52	225
14	215	121	150	84	78	76	951	2,360	135	56	44	405
15	521	120	150	82	91	80	758	1,520	122	91	38	469
16	1,150	126	150	80	120	200	553	1,620	112	61	36	255
17	587	119	150	77	160	500	453	1,680	100	46	33	171
18	403	111	150	75	140	330	462	1,660	90	93	29	166
19	317	109	150	73	120	160	614	1,710	81	69	27	166
20	264	116	150	72	105	120	1,240	1,620	75	66	25	134
21	237	820	145	70	98	105	1,640	1,340	80	61	24	147
22	220	677	145	69	93	94	1,570	1,250	186	45	41	171
23	256	690	145	68	90	89	1,090	1,080	117	36	122	140
24	678	563	145	67	87	86	768	694	89	31	200	119
25	527	337	170	66	85	84	863	573	98	30	120	101
26	371	218	165	66	88	83	968	932	248	30	70	88
27	306	262	160	66	92	82	962	794	139	32	52	79
28	263	258	150	77	90	81	1,230	705	89	42	253	70
29	236	287	140	82	-----	80	1,390	562	69	32	761	69
30	214	261	130	81	-----	80	1,290	470	62	32	353	74
31	197	-----	125	79	-----	80	-----	405	-----	33	249	-----
TOTAL	12,222	7,107	5,101	2,710	2,520	3,452	18,952	54,655	5,666	1,994	4,486	4,115
MEAN	394	237	165	87.4	90.0	111	632	1,763	189	64.3	145	137
MAX	1,150	820	270	120	160	500	1,640	3,570	633	330	761	469
MIN	183	109	125	66	73	76	79	405	62	30	24	66
CFSM	2.58	1.55	1.08	.57	.59	.73	4.13	11.5	1.24	.42	.95	.90
IN.	2.97	1.73	1.24	.66	.61	.84	4.61	13.29	1.38	.48	1.09	1.00

CAL YR 1970 TOTAL 139,210 MEAN 381 MAX 4,760 MIN 22 CFSM 2.49 IN 33.85
WTR YR 1971 TOTAL 122,980 MEAN 337 MAX 3,570 MIN 24 CFSM 2.20 IN 29.90

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-11	2100	7.72	4,040				

ANDROSCOGGIN RIVER BASIN

01053500 Androscoggin River at Errol, N. H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mile downstream from Errol Dam, 0.4 mile northeast of Errol, and 0.6 mile upstream from Clear Stream.

DRAINAGE AREA.--1,045 sq mi.

PERIOD OF RECORD.--January 1905 to current year. Monthly discharge only October 1922 to November 1943, published in WSP 1301. Prior to 1922, published as "at Errol Dam".

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

AVERAGE DISCHARGE.--66 years, 1,877 cfs (24.39 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,760 cfs May 12 (gage height, 4.60 ft); minimum daily, 991 cfs May 16.

Period of record: Maximum daily discharge, 16,100 cfs May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

Instantaneous maximum discharge not available prior to Dec. 9, 1943.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (see p. 74) with final regulation at Errol Dam.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,560	1,790	1,590	1,810	1,670	1,710	1,920	2,840	2,020	1,560	1,630	1,680
2	1,640	1,890	1,640	1,820	1,640	1,730	1,890	2,940	2,010	1,410	1,590	1,710
3	1,490	1,930	1,680	1,810	1,660	1,770	1,820	3,010	1,990	1,540	1,460	1,700
4	1,350	1,920	1,700	1,790	1,640	1,770	1,770	3,460	1,990	1,490	1,310	1,680
5	1,530	1,900	1,670	1,790	1,640	1,800	1,730	4,220	2,130	1,460	1,550	1,680
6	1,600	1,900	1,720	1,790	1,640	1,930	1,620	4,480	2,240	1,580	1,550	1,670
7	1,630	1,920	1,820	1,770	1,630	1,960	1,490	4,440	2,110	1,600	1,440	1,700
8	1,670	1,930	1,820	1,730	1,600	1,970	1,400	3,880	1,670	1,680	1,540	1,720
9	1,720	1,920	1,820	1,750	1,590	1,970	1,380	4,620	1,680	1,680	1,630	1,730
10	1,710	1,890	1,770	1,760	1,600	1,970	1,360	4,500	2,080	1,630	1,640	1,760
11	1,750	1,880	1,790	1,770	1,580	1,990	1,330	4,240	2,180	1,710	1,600	1,760
12	1,770	1,900	1,860	1,790	1,560	1,970	1,330	4,700	2,150	1,720	1,540	1,730
13	1,770	1,900	1,860	1,820	1,560	1,980	1,360	4,360	2,240	1,730	1,550	1,620
14	1,720	1,900	1,840	1,820	1,560	1,970	1,410	3,540	2,170	1,710	1,530	1,500
15	1,720	1,900	1,800	1,810	1,600	1,960	1,450	1,990	2,020	1,680	1,700	1,410
16	1,550	1,890	1,860	1,790	1,630	1,970	1,450	991	1,970	1,670	1,760	1,580
17	1,530	1,890	1,810	1,770	1,630	2,010	1,380	1,060	2,020	1,640	1,760	1,540
18	1,600	1,890	1,770	1,790	1,580	2,060	1,310	1,050	2,010	1,670	1,750	1,540
19	1,670	1,890	1,770	1,790	1,580	2,060	1,320	1,020	1,960	1,680	1,760	1,580
20	1,790	1,850	1,800	1,810	1,580	2,050	1,470	1,150	2,050	1,590	1,700	1,680
21	1,810	1,500	1,840	1,820	1,580	1,980	1,820	1,230	2,080	1,670	1,660	1,660
22	1,810	1,490	1,850	1,810	1,620	1,930	2,150	1,300	1,970	1,730	1,680	1,670
23	1,730	1,470	1,850	1,800	1,670	1,920	2,350	1,240	1,970	1,720	1,590	1,710
24	1,350	1,460	1,850	1,760	1,680	1,920	2,380	1,710	1,990	1,640	1,540	1,710
25	1,270	1,560	1,850	1,710	1,670	1,920	2,350	1,890	1,790	1,660	1,620	1,710
26	1,460	1,660	1,760	1,720	1,640	1,930	2,390	2,660	1,360	1,680	1,680	1,730
27	1,580	1,750	1,760	1,730	1,600	1,940	2,420	2,690	1,440	1,700	1,670	1,760
28	1,640	1,720	1,760	1,810	1,680	1,940	2,520	2,720	1,580	1,700	1,380	1,760
29	1,730	1,640	1,730	1,800	-----	1,940	2,660	2,880	1,660	1,700	1,300	1,790
30	1,730	1,620	1,810	1,730	-----	1,940	2,740	2,330	1,640	1,600	1,470	1,800
31	1,720	-----	1,820	1,700	-----	1,930	-----	2,070	-----	1,600	1,540	-----
TOTAL	50,600	53,750	55,270	55,170	45,310	59,890	53,970	85,211	58,170	50,830	49,120	50,270
MEAN	1,632	1,792	1,783	1,780	1,618	1,932	1,799	2,749	1,939	1,640	1,585	1,676
MAX	1,810	1,930	1,860	1,820	1,680	2,060	2,740	4,700	2,240	1,730	1,760	1,800
MIN	1,270	1,460	1,590	1,700	1,560	1,710	1,310	991	1,360	1,410	1,300	1,410
MEAN*	1,936	1,169	977	431	524	638	4,225	9,293	1,027	121	653	478
CFSM*	1.85	1.12	.94	.41	.50	.61	4.04	8.89	.98	.12	.62	.46
IN. *	2.13	1.25	1.08	.48	.52	.70	4.51	10.25	1.10	.13	.72	.51
CAL YR 1970	TOTAL 860,800	MEAN 2,358	MAX 7,300	MIN 1,220	MEAN* 1,988	CFSM* 1.90	IN* 25.80					
WTR YR 1971	TOTAL 667,561	MEAN 1,829	MAX 4,700	MIN 991	MEAN* 1,800	CFSM* 1.72	IN* 23.38					

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

01054000 Androscoggin River near Gorham, N. H.

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, on right bank at Puslifer Rips, 2.2 miles downstream from Dead River and 4.0 miles upstream from Gorham.

DRAINAGE AREA.--1,363 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 miles upstream at different datum.

AVERAGE DISCHARGE.--58 years, 2,435 cfs (24.26 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 9,060 cfs May 5 (gage height, 7.24 ft); minimum daily, 1,640 cfs Aug. 14.

Period of record: Maximum daily discharge, 20,000 cfs June 18, 1917, Apr. 30, 1923; minimum daily, 795 cfs Mar. 15, 1948.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (see p. 74) with final regulation at Errol Dam 35 miles upstream. Diurnal fluctuation caused by powerplant 0.8 mile upstream.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,830	1,960	1,960	1,930	1,870	1,910	2,300	5,400	2,610	2,260	1,720	1,820
2	1,880	2,070	1,950	1,970	1,830	1,930	2,330	5,440	2,430	2,650	1,830	1,870
3	2,000	2,100	2,000	2,010	1,730	1,960	2,380	5,740	2,400	1,980	1,830	1,850
4	2,370	2,120	2,070	1,970	1,720	1,980	2,450	8,290	2,390	1,860	1,970	1,790
5	2,190	2,110	1,970	2,010	1,730	1,970	2,400	8,660	2,330	1,710	1,820	1,780
6	2,050	2,120	2,010	1,990	1,750	2,010	2,320	7,760	2,450	1,660	1,780	1,770
7	1,930	2,060	1,900	1,950	1,750	2,130	2,230	7,600	2,530	1,750	1,750	1,850
8	1,920	2,100	1,950	1,890	1,750	2,140	2,060	7,180	2,570	1,780	1,730	1,820
9	1,940	2,120	2,090	1,820	1,710	2,190	1,940	7,590	2,430	1,840	1,760	1,820
10	1,930	2,080	2,090	1,920	1,720	2,160	1,950	7,590	2,330	1,760	1,760	1,850
11	1,880	2,050	2,000	1,950	1,720	2,200	2,090	7,440	2,470	1,730	1,800	1,800
12	1,990	2,070	1,920	1,930	1,720	2,210	2,520	7,660	2,450	1,810	1,790	1,860
13	1,980	2,090	2,050	1,860	1,710	2,200	3,020	7,660	2,400	1,800	1,770	1,890
14	1,980	2,070	2,140	1,910	1,740	2,230	3,340	6,740	2,500	1,890	1,640	1,940
15	1,960	2,080	2,040	2,000	1,730	2,270	3,170	4,780	2,360	1,810	1,670	2,130
16	2,150	2,100	1,960	1,970	1,780	2,430	2,860	2,950	2,220	1,820	1,880	1,970
17	2,060	2,080	2,060	1,960	1,840	2,600	2,600	2,710	2,170	1,780	1,870	1,930
18	1,900	2,080	2,040	1,860	1,840	2,630	2,480	2,540	2,210	1,800	1,920	1,830
19	1,920	2,070	2,020	1,900	1,790	2,630	2,790	2,550	2,090	1,840	1,870	1,670
20	1,930	2,080	2,020	1,910	1,790	2,610	3,960	2,420	2,060	1,880	1,810	1,810
21	2,020	2,560	1,980	1,920	1,780	2,530	4,810	2,420	2,280	1,810	1,730	1,850
22	2,020	2,480	1,990	1,970	1,790	2,430	5,160	2,440	2,300	1,800	1,740	1,850
23	2,050	2,290	2,100	1,980	1,810	2,350	5,020	2,550	2,180	1,860	1,860	1,860
24	2,460	2,330	2,020	2,000	1,840	2,330	4,460	2,300	2,140	1,790	1,780	1,880
25	2,110	2,050	2,060	1,980	1,850	2,290	4,570	2,510	2,150	1,760	1,720	1,870
26	1,920	1,950	2,020	1,980	1,870	2,270	4,880	3,030	2,000	1,780	1,750	1,850
27	1,970	2,040	1,990	1,940	1,840	2,280	4,750	4,120	1,650	1,810	1,800	1,900
28	1,940	2,070	1,960	1,930	1,840	2,290	5,110	3,630	1,760	1,800	1,930	1,880
29	1,980	2,050	1,930	1,920	-----	2,320	5,360	3,740	1,820	1,810	2,050	1,920
30	1,990	2,020	1,910	1,930	-----	2,340	5,270	3,540	1,770	1,850	1,830	1,890
31	1,980	-----	1,940	1,950	-----	2,340	-----	2,780	-----	1,740	1,840	-----
TOTAL	62,230	63,450	62,140	60,210	49,840	70,160	100,580	151,760	67,450	57,220	56,000	55,800
MEAN	2,007	2,115	2,005	1,942	1,780	2,263	3,353	4,895	2,248	1,846	1,806	1,860
MAX	2,460	2,560	2,140	2,010	1,870	2,630	5,360	8,660	2,610	2,650	2,050	2,130
MIN	1,830	1,950	1,900	1,820	1,710	1,910	1,940	2,300	1,650	1,660	1,640	1,670
MEAN*	2,311	1,492	1,199	593	686	969	5,779	11,440	1,336	327	874	662
CFSM*	1.70	1.09	.88	.44	.50	.71	4.24	8.39	.98	.24	.64	.49
IN. *	1.96	1.22	1.01	.50	.52	.82	4.73	9.67	1.09	.28	.74	.54

CAL YR 1970 TOTAL 1,061,580 MEAN 2,908 MAX 12,400 MIN 1,780 MEAN* 2,538 CFSM* 1.86 IN* 25.26
WTR YR 1971 TOTAL 856,840 MEAN 2,348 MAX 8,660 MIN 1,640 MEAN* 2,319 CFSM* 1.70 IN* 23.08

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

ANDROSCOGGIN RIVER BASIN

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, on left bank 20 ft upstream from highway bridge on U.S. Route 2, 1,800 ft upstream from mouth, and 0.4 mile west of Gilead.

DRAINAGE AREA.--69.5 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 155 cfs (30.28 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,110 cfs May 4 (gage height, 7.40 ft); maximum gage height, 9.86 ft Mar. 4 (backwater from ice); minimum discharge, 7.6 cfs July 16 (gage height, 1.89 ft).

Period of record: Maximum discharge, 12,500 cfs Nov. 3, 1966 (gage height, 12.49 ft); minimum, 7.6 cfs July 16, 1971 (gage height, 1.89 ft).

Flood of October 24, 1959 reached a stage of 15.6 ft, from floodmarks (discharge, 18,100 cfs).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses and water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	64	91	47	40	65	66	610	123	28	53	23
2	28	60	86	45	38	62	140	579	102	40	34	19
3	223	55	85	44	37	59	240	1,780	95	30	36	16
4	300	53	81	43	36	57	210	2,710	94	23	126	15
5	89	53	64	47	35	55	160	986	84	21	52	14
6	59	52	89	55	35	53	135	805	73	19	32	14
7	48	48	86	52	34	52	120	887	66	19	24	19
8	40	47	84	45	33	50	105	837	195	17	20	19
9	33	44	82	42	34	49	92	860	230	16	17	17
10	29	42	80	40	37	48	98	814	108	16	15	14
11	27	43	78	39	37	47	130	1,030	81	15	14	12
12	27	71	77	38	36	47	300	975	69	13	14	22
13	27	66	75	37	35	46	450	992	60	13	15	92
14	27	58	73	37	36	46	622	615	53	17	13	281
15	27	52	71	36	56	47	373	424	50	21	12	187
16	72	52	70	36	130	130	245	411	48	10	12	84
17	68	52	68	36	98	210	187	427	47	9.9	11	57
18	47	50	66	35	83	160	193	528	41	14	9.4	47
19	39	48	64	35	75	130	452	490	38	13	9.2	39
20	33	64	62	35	68	110	880	464	34	41	8.7	33
21	31	1,430	61	34	64	100	870	356	33	23	8.0	49
22	30	361	59	34	61	92	731	390	40	17	8.0	60
23	518	329	57	34	58	85	488	285	37	17	9.1	39
24	1,010	234	57	34	56	80	418	197	33	22	14	33
25	224	147	58	34	53	76	537	172	32	131	13	28
26	175	113	59	34	54	72	563	337	43	38	10	23
27	156	116	58	39	59	69	610	239	37	26	9.4	22
28	109	100	56	68	68	67	616	209	29	22	282	21
29	89	95	54	58	-----	65	567	176	27	18	155	21
30	76	93	51	49	-----	63	513	154	24	40	52	21
31	69	-----	49	43	-----	62	-----	139	-----	38	32	-----
TOTAL	3,766	4,092	2,151	1,285	1,486	2,354	11,111	19,878	2,026	787.9	1,119.8	1,341
MEAN	121	136	69.4	41.5	53.1	75.9	370	641	67.5	25.4	36.1	44.7
MAX	1,010	1,430	91	68	130	210	880	2,710	230	131	282	281
MIN	27	42	49	34	33	46	66	139	24	9.9	8.0	12
CFSM	1.74	1.96	1.00	.60	.76	1.09	5.32	9.22	.97	.37	.52	.64
IN.	2.02	2.19	1.15	.69	.80	1.26	5.95	10.64	1.08	.42	.60	.72
CAL YR 1970	TOTAL 50,962.0		MEAN 140	MAX 1,890	MIN 12	CFSM 2.01	IN 27.28					
WTR YR 1971	TOTAL 51,397.7		MEAN 141	MAX 2,710	MIN 8.0	CFSM 2.03	IN 27.51					

PEAK DISCHARGE (BASE, 1,500 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	Note.--No gage-height record Dec. 7 to Feb. 16.
10-24	0230	5.96	2,280	5-04	0530	7.40	4,110	
11-21	0615	6.40	2,780					

01054300 Ellis River at South Andover, Maine

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, on left bank 100 ft upstream from covered bridge, at South Andover.

DRAINAGE AREA.--131 sq mi.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--8 years, 232 cfs (24.05 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,710 cfs May 4 (gage height, 16.76 ft); minimum, 17 cfs Aug. 22.
Period of record: Maximum discharge, 5,630 cfs Dec. 29, 1969 (gage height, 19.23 ft); minimum, 14 cfs part or all of each day Sept. 19-22, 1966, Aug. 19-21, 1970.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	137	172	105	71	125	115	1,180	187	47	33	42
2	52	125	158	100	68	120	125	1,180	165	118	36	35
3	91	117	153	100	66	115	145	1,160	153	69	45	31
4	409	109	151	98	64	110	180	3,340	150	54	68	28
5	224	101	145	100	64	105	150	2,350	132	46	55	27
6	146	99	140	110	64	105	135	1,580	118	41	44	26
7	116	92	135	110	63	100	125	1,320	107	40	66	27
8	98	90	130	110	62	99	120	1,420	187	37	70	27
9	87	83	125	105	64	97	115	1,290	205	34	50	27
10	76	81	120	96	68	96	120	1,180	142	33	40	26
11	69	81	120	92	72	95	180	1,240	116	29	36	23
12	66	84	115	88	71	94	425	1,230	101	28	40	25
13	64	78	115	82	70	93	810	1,140	90	27	37	38
14	64	82	110	77	75	97	925	938	84	28	29	63
15	72	81	110	75	170	110	750	676	77	28	27	107
16	152	87	105	72	200	150	564	569	68	29	23	66
17	170	90	105	70	185	300	458	531	63	30	22	51
18	124	88	105	68	160	225	451	511	59	38	21	44
19	104	84	105	66	145	185	659	485	56	38	20	39
20	89	91	105	65	130	160	1,330	446	52	52	18	36
21	82	952	105	64	125	150	1,820	394	50	49	18	36
22	76	795	105	64	120	140	1,880	358	55	38	18	36
23	153	450	105	63	115	130	1,500	352	53	33	18	36
24	961	365	110	62	110	125	1,080	285	48	30	22	31
25	641	271	120	62	105	120	1,200	247	47	32	23	29
26	397	214	130	63	110	115	1,360	319	106	32	21	26
27	302	192	125	73	120	115	1,380	322	77	30	19	24
28	241	175	120	84	125	110	1,420	309	57	29	48	24
29	200	189	115	82	-----	110	1,310	276	50	29	174	24
30	170	177	110	78	-----	110	1,140	233	46	29	76	24
31	150	-----	105	75	-----	110	-----	208	-----	30	52	-----
TOTAL	5,712	5,660	3,774	2,559	2,862	3,916	21,972	27,069	2,901	1,207	1,269	1,078
MEAN	184	189	122	82.5	102	126	732	873	96.7	38.9	40.9	35.9
MAX	961	952	172	110	200	300	1,880	3,340	205	118	174	107
MIN	52	78	105	62	62	93	115	208	46	27	18	23
CFSM	1.40	1.44	.93	.63	.78	.96	5.59	6.66	.74	.30	.31	.27
IN.	1.62	1.61	1.07	.73	.81	1.11	6.24	7.69	.82	.34	.36	.31

CAL YR 1970 TOTAL 92,641 MEAN 254 MAX 2,800 MIN 14 CFSM 1.94 IN 26.31
WTR YR 1971 TOTAL 79,979 MEAN 219 MAX 3,340 MIN 18 CFSM 1.67 IN 22.71

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-04	0730	16.76	3,710				

01054500 Androscoggin River at Rumford, Maine

LOCATION.--Lat 44°32'33", long 70°32'50", Oxford County, on left bank at upper powerplant of Rumford Falls Power Co. in Rumford, and 1.2 miles upstream from Swift River.

DRAINAGE AREA.--2,067 sq mi.

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

GAGE.--Nonrecording gages in pond above dam and in tailrace of upper plant. Prior to Aug. 1, 1937, non-recording gages in pond and tailrace of middle plant.

AVERAGE DISCHARGE.--79 years, 3,670 cfs (24.11 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum daily discharge, 27,100 cfs May 4; minimum daily, 1,780 cfs Aug. 15.
Period of record: Maximum discharge, 74,000 cfs Mar. 20, 1936; minimum daily, 625 cfs Mar. 27, 1911.

REMARKS.--Discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Azischohos Lakes (see p. 74) with final regulation at Errol Dam about 84 miles upstream.

COOPERATION.--Records furnished by Rumford Falls Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,160	2,410	2,590	2,330	2,150	2,570	3,050	12,500	3,510	2,430	2,040	2,070
2	2,070	2,450	2,570	2,340	2,120	2,510	3,360	12,500	3,350	4,020	2,120	2,010
3	2,690	2,550	2,600	2,420	2,020	2,510	4,170	16,300	3,330	2,560	2,250	2,050
4	4,220	2,470	2,650	2,400	2,050	2,420	6,220	27,100	3,270	2,260	2,660	2,020
5	3,240	2,530	2,000	2,430	2,070	2,300	4,620	21,600	3,120	2,020	2,340	1,920
6	2,610	2,470	2,270	2,480	2,100	2,410	4,390	16,500	2,980	1,870	2,140	1,950
7	2,480	2,450	2,110	2,390	2,140	2,580	4,120	15,600	3,060	1,930	2,020	1,980
8	2,280	2,380	1,880	2,290	2,120	2,580	3,470	15,200	3,650	1,940	2,030	2,120
9	2,280	2,410	2,100	2,240	2,080	2,580	3,170	14,500	4,020	2,040	1,950	1,930
10	2,220	2,400	2,430	2,170	2,040	2,580	3,280	14,600	3,220	1,980	1,940	1,920
11	2,090	2,430	2,360	2,310	2,050	2,600	4,250	15,300	3,130	1,830	1,950	1,910
12	2,230	2,420	2,300	2,340	2,060	2,600	6,860	15,400	2,840	1,900	2,010	2,050
13	2,190	2,450	2,280	2,160	2,110	2,590	9,510	15,800	2,750	1,950	1,970	2,250
14	2,250	2,400	2,570	2,180	2,430	2,650	10,600	13,400	2,710	1,950	1,910	2,450
15	2,260	2,400	2,480	2,240	2,780	2,760	8,540	9,750	2,650	2,010	1,780	3,050
16	2,640	2,450	2,210	2,220	2,680	3,260	6,540	7,310	2,540	1,950	1,870	2,470
17	2,740	2,450	2,150	2,140	2,600	4,000	5,420	6,000	2,490	2,050	2,000	2,200
18	2,400	2,420	2,280	2,110	2,690	3,670	5,390	6,190	2,350	2,000	1,950	2,190
19	2,240	2,430	2,380	2,130	2,620	3,430	8,400	6,200	2,440	2,100	1,990	2,000
20	2,240	2,620	2,380	2,110	2,510	3,380	13,300	6,040	2,290	2,340	1,920	1,930
21	2,200	9,410	2,470	2,110	2,440	3,330	15,100	5,360	2,440	2,140	1,930	2,100
22	2,300	6,430	2,080	2,310	2,410	3,170	14,800	5,280	2,540	1,980	1,850	2,210
23	3,760	4,300	2,130	2,250	2,390	3,100	12,900	5,080	2,440	1,980	1,930	2,090
24	8,880	3,820	2,370	2,260	2,390	3,000	10,900	3,910	2,380	2,080	2,040	2,100
25	5,800	3,220	2,200	2,300	2,380	2,940	11,600	3,310	2,360	2,450	1,900	2,040
26	3,370	2,690	2,400	2,320	2,400	2,880	12,500	4,950	2,500	2,160	1,860	2,040
27	3,130	2,670	2,380	2,250	2,430	2,890	12,500	5,500	2,220	2,060	1,930	2,010
28	2,880	2,630	2,330	2,150	2,480	2,930	12,700	5,180	1,940	2,020	2,540	2,030
29	2,630	2,670	2,330	2,200	-----	3,000	12,800	4,860	2,000	1,980	3,280	2,020
30	2,580	2,630	2,260	2,280	-----	3,000	12,200	4,580	2,000	2,170	2,400	2,040
31	2,400	-----	2,280	2,220	-----	3,000	-----	4,020	-----	2,100	2,090	-----
TOTAL	88,660	89,460	71,820	70,080	64,740	89,220	246,660	319,820	82,520	66,250	64,590	63,150
MEAN	2,860	2,982	2,317	2,261	2,121	2,878	8,222	10,320	2,751	2,137	2,084	2,105
MAX	8,880	9,410	2,650	2,480	2,780	4,000	15,100	27,100	4,020	4,020	3,280	3,050
MIN	2,070	2,380	1,880	2,110	2,020	2,300	3,050	3,310	1,940	1,830	1,780	1,910
MEAN*	3,164	2,359	1,511	912	1,218	1,584	10,650	16,860	1,839	618	1,152	907
CFSM*	1.53	1.14	.73	.44	.59	.77	5.15	8.16	.89	.30	.56	.44
IN. *	1.76	1.27	.84	.51	.61	.88	5.75	9.41	.99	.34	.64	.49
CAL YR 1970	TOTAL 1,482,240	MEAN 4,061	MAX 25,000	MIN 1,820	MEAN* 3,691	CFSM* 1.79	IN* 24.23					
WTR YR 1971	TOTAL 1,316,970	MEAN 3,608	MAX 27,100	MIN 1,780	MEAN* 3,579	CFSM* 1.73	IN* 23.49					

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Umbagog, and Azischohos Lakes.

ANDROSCOGGIN RIVER BASIN

69

01055000 Swift River near Roxbury, Maine

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

DRAINAGE AREA.--95.8 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft above mean sea level.

AVERAGE DISCHARGE.--42 years, 193 cfs (27.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,240 cfs May 4 (gage height, 7.67 ft); minimum, 9.8 cfs Aug. 20-22.

Period of record: Maximum discharge, 16,800 cfs Oct. 24, 1959 (gage height, 12.87 ft), from rating curve extended above 7,000 cfs; minimum, 3.8 cfs Sept. 16, 17, 1948 (gage height, 0.93 ft).

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

REVISIONS (WATER YEARS).--WSP 801: 1934 (M). WSP 1031: Drainage area. WSP 1301: 1937-38 (M), 1942 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	119	138	64	47	71	73	800	158	38	20	31
2	52	110	128	64	45	68	84	791	131	51	35	23
3	621	103	131	64	43	66	120	1,520	134	34	75	19
4	1,020	97	120	63	42	65	150	3,370	130	26	94	17
5	269	95	115	67	42	64	125	1,370	111	22	46	15
6	153	91	110	69	43	63	110	1,040	92	20	29	15
7	112	83	105	65	44	62	97	1,140	81	19	99	17
8	91	79	97	61	43	61	91	1,100	200	17	58	18
9	77	74	93	58	45	60	88	1,090	147	16	33	16
10	67	73	89	57	46	60	95	1,140	96	15	23	14
11	62	77	86	58	45	59	165	1,270	76	13	36	12
12	60	96	83	58	44	59	350	1,210	65	13	43	19
13	59	90	81	55	47	59	490	1,190	57	12	27	43
14	70	81	78	53	60	62	630	810	51	14	19	99
15	117	79	75	54	170	71	423	551	47	17	16	140
16	350	87	73	54	300	110	308	516	45	17	14	70
17	212	84	71	52	260	170	251	521	40	22	13	43
18	138	74	69	50	175	125	264	546	36	32	12	34
19	107	74	67	48	130	100	642	537	34	24	11	29
20	90	85	66	46	105	90	1,100	503	31	51	10	25
21	82	1,020	64	45	94	85	1,300	419	57	33	9.8	30
22	77	436	63	47	87	81	1,210	410	58	21	10	46
23	357	321	62	47	81	78	767	360	40	16	15	31
24	1,950	257	61	47	77	76	623	244	34	15	29	24
25	521	176	66	47	73	74	812	207	38	18	19	20
26	315	138	74	49	71	73	879	370	218	16	14	18
27	239	144	78	61	70	72	890	304	78	15	12	16
28	190	142	75	53	73	71	919	360	46	16	169	16
29	161	164	72	50	-----	70	840	261	35	15	217	16
30	142	144	69	49	-----	70	720	212	32	15	74	16
31	128	-----	66	49	-----	70	-----	188	-----	16	44	-----
TOTAL	7,959	4,693	2,625	1,704	2,402	2,365	14,616	24,350	2,398	669	1,325.8	932
MEAN	257	156	84.7	55.0	85.8	76.3	487	785	79.9	21.6	42.8	31.1
MAX	1,950	1,020	138	69	300	170	1,300	3,370	218	51	217	140
MIN	52	73	61	45	42	59	73	188	31	12	9.8	12
CFSM	2.68	1.63	.88	.57	.90	.80	5.08	8.19	.83	.23	.45	.32
IN.	3.09	1.82	1.02	.66	.93	.92	5.68	9.46	.93	.26	.51	.36

CAL YR 1970 TOTAL 78,187.8 MEAN 214 MAX 2,930 MIN 7.8 CFSM 2.23 IN 30.36
WTR YR 1971 TOTAL 66,038.8 MEAN 181 MAX 3,370 MIN 9.8 CFSM 1.89 IN 25.64

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-03	2400	5.59	2,430	5-04	0200	7.67	5,240
10-24	0600	6.37	3,340				

01055500 Nezinscot River at Turner Center, Maine

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

DRAINAGE AREA.--171 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--30 years, 291 cfs (23.11 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,240 cfs May 4 (gage height, 5.65 ft); minimum, 22 cfs Aug. 27 (gage height, 1.05 ft).

Period of record: Maximum discharge, 13,900 cfs Mar. 27, 1953 (gage height, 11.18 ft); minimum, 5.6 cfs Aug. 29, 1956 (gage height, 0.72 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	114	171	115	125	340	230	748	160	41	346	60
2	31	106	161	115	120	335	260	674	138	49	252	45
3	30	98	153	110	110	320	420	892	126	54	220	38
4	50	90	151	110	105	295	680	2,690	122	49	286	34
5	89	93	130	125	100	275	890	2,760	110	42	253	31
6	89	116	125	135	98	255	890	1,660	98	38	191	30
7	79	115	120	140	95	245	800	1,080	90	35	156	29
8	72	101	115	140	97	235	660	803	94	32	122	29
9	66	90	115	130	105	225	580	640	134	30	87	28
10	62	83	110	120	110	220	540	545	127	29	69	26
11	59	80	110	115	105	215	720	472	100	27	60	24
12	56	80	105	110	100	210	1,300	415	86	25	67	37
13	54	80	105	105	105	210	1,640	385	77	24	71	91
14	53	77	105	100	200	205	1,870	437	70	28	59	125
15	56	78	100	95	440	215	1,660	412	55	29	50	136
16	147	91	100	91	500	250	1,300	362	61	28	44	122
17	171	97	100	89	450	300	996	341	57	28	39	114
18	131	92	99	85	390	340	901	305	53	31	35	104
19	98	86	99	81	350	335	1,230	268	50	32	33	87
20	80	94	98	79	310	310	1,980	241	46	69	32	67
21	68	309	98	78	285	290	2,250	221	45	75	31	58
22	61	455	97	77	265	270	2,170	222	54	53	29	54
23	120	399	98	76	255	250	1,850	257	56	40	28	51
24	589	350	110	76	245	245	1,490	238	52	33	26	45
25	733	274	120	75	240	230	1,290	213	57	89	24	38
26	461	204	130	82	235	225	1,250	204	82	110	24	35
27	299	175	135	100	270	220	1,160	207	74	78	24	33
28	220	158	140	155	315	215	1,020	222	57	65	50	31
29	170	170	130	180	-----	210	915	233	46	59	128	31
30	141	177	125	160	-----	215	832	204	42	115	116	30
31	124	-----	120	140	-----	220	-----	183	-----	150	81	-----
TOTAL	4,493	4,532	3,675	3,389	6,125	7,925	33,774	18,534	2,429	1,587	3,033	1,663
MEAN	145	151	119	109	219	256	1,126	598	81.0	51.2	97.8	55.4
MAX	733	455	171	180	500	340	2,250	2,760	160	150	346	136
MIN	30	77	97	75	95	205	230	183	42	24	24	24
CFSM	.85	.88	.70	.64	1.28	1.50	6.58	3.50	.47	.30	.57	.32
IN.	.98	.99	.80	.74	1.33	1.72	7.35	4.03	.53	.35	.66	.36

CAL YR 1970 TOTAL 116,519 MEAN 319 MAX 5,000 MIN 15 CFSM 1.87 IN 25.35
WTR YR 1971 TOTAL 91,159 MEAN 250 MAX 2,760 MIN 24 CFSM 1.46 IN 19.83

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0700	4.58	1,910	5-04	2100	5.65	3,240
4-21	0900	4.92	2,290				

01057000 Little Androscoggin River near South Paris, Maine

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, on right bank 30 ft upstream from Biscoe Falls, 5 miles upstream from South Paris.

DRAINAGE AREA.--76.2 sq mi.

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft above mean sea level. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years (1913-23, 1931-71), 136 cfs (24.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,110 cfs May 4 (gage height, 7.35 ft); minimum, 2.6 cfs July 10, 11 (gage height, 1.41 ft).

Period of record: Maximum discharge, 8,000 cfs Mar. 27, 1953 (gage height, 12.41 ft), from rating curve extended above 2,800 cfs, verified by computation of flow over dam at South Paris; minimum, 1 cfs Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

REMARKS.--Records excellent. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1301: 1915-23 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	67	91	51	60	140	150	434	70	12	112	22
2	8.9	61	83	51	53	128	174	397	60	16	103	16
3	22	57	83	50	49	108	317	621	56	16	92	14
4	188	54	77	49	45	104	441	1,850	56	12	144	12
5	77	64	70	56	45	104	423	1,070	49	11	103	10
6	43	87	64	68	47	93	383	643	42	9.6	70	8.6
7	31	73	59	66	45	85	359	471	39	8.6	50	8.6
8	26	65	58	58	44	84	289	349	49	6.8	37	8.6
9	21	54	57	54	49	82	246	295	77	4.0	30	8.1
10	20	53	64	51	57	75	255	259	56	3.2	24	6.8
11	19	60	60	48	55	74	434	230	42	2.9	24	6.3
12	16	63	55	45	52	75	643	212	38	3.2	34	13
13	16	62	56	43	55	75	790	200	35	3.4	28	46
14	16	57	57	41	148	77	841	216	31	4.4	22	63
15	18	55	54	40	248	92	659	178	27	4.0	18	77
16	102	68	49	40	216	125	498	161	25	3.8	16	53
17	87	67	48	39	180	192	434	159	24	3.7	14	38
18	53	60	47	38	155	186	434	136	20	6.0	12	32
19	39	57	46	38	131	159	745	125	20	7.3	11	26
20	32	76	46	37	115	144	1,080	112	17	27	11	22
21	29	302	45	37	106	140	1,150	104	16	20	9.3	22
22	27	248	45	37	99	132	1,020	115	18	12	8.3	27
23	138	190	49	37	91	126	813	126	19	8.9	7.8	22
24	836	161	50	37	91	119	651	94	17	312	7.0	18
25	418	123	54	38	85	109	651	88	17	272	7.3	15
26	235	91	61	41	82	104	651	120	22	107	6.8	13
27	178	79	60	62	85	99	595	120	22	69	6.3	12
28	136	78	58	87	126	100	537	136	17	51	17	11
29	109	89	53	79	-----	113	537	126	15	37	55	11
30	99	89	53	77	-----	128	479	99	12	61	39	11
31	74	-----	51	68	-----	136	-----	87	-----	82	31	-----
TOTAL	3,124.9	2,710	1,803	1,563	2,614	3,508	16,679	9,333	1,008	1,196.8	1,149.8	653.0
MEAN	101	90.3	58.2	50.4	93.4	113	556	301	33.6	38.6	37.1	21.8
MAX	836	302	91	87	248	192	1,150	1,850	77	312	144	77
MIN	8.9	53	45	37	44	74	150	87	12	2.9	6.3	6.3
CFSM	1.33	1.19	.76	.66	1.23	1.48	7.30	3.95	.44	.51	.49	.29
IN.	1.53	1.32	.88	.76	1.28	1.71	8.14	4.56	.49	.58	.56	.32
CAL YR 1970	TOTAL 50,939.9	MEAN 140	MAX 1,860	MIN 1.2	CFSM 1.84	IN 24.87						
WTR YR 1971	TOTAL 45,342.5	MEAN 124	MAX 1,850	MIN 2.9	CFSM 1.63	IN 22.14						

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-21	0300	6.25	1,300	5-04	1000	7.35	2,100

ANDROSCOGGIN RIVER BASIN

01058500 Little Androscoggin River near Auburn, Maine

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, on right bank 100 ft upstream from highway bridge at Littlefields, 3 miles southwest of Auburn, and 4.6 miles upstream from mouth.

DRAINAGE AREA.--328 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 548 cfs (22.69 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,610 cfs May 5 (gage height, 6.91 ft); minimum daily, 67 cfs July 13.

Period of record: Maximum discharge, 16,500 cfs Mar. 28, 1953 (gage height, 14.76 ft); minimum daily, 14 cfs Oct. 14, 1949.

Maximum discharge known, 16,800 cfs Mar. 20, 1936, at mouth of river.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Thompson Lake (see p. 74), and several powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	297	338	210	255	565	520	1,500	444	128	458	156
2	107	267	320	205	245	625	620	1,310	379	122	503	140
3	151	247	307	200	225	620	891	1,410	337	136	496	129
4	181	232	320	200	225	595	1,170	2,660	309	129	667	122
5	197	238	265	205	235	570	1,460	3,410	277	123	584	116
6	221	254	255	220	240	550	1,560	3,240	248	118	485	114
7	198	261	245	235	230	535	1,610	2,420	230	112	403	115
8	170	256	230	240	225	520	1,500	1,850	230	115	327	112
9	151	238	225	240	225	510	1,340	1,510	265	96	259	107
10	143	317	220	230	230	500	1,290	1,280	270	94	217	104
11	139	380	215	215	230	495	1,560	1,150	252	125	196	101
12	136	413	210	205	225	490	1,990	989	247	98	196	131
13	134	423	205	190	220	485	2,400	883	260	67	175	200
14	135	387	200	180	305	485	2,740	889	216	86	196	271
15	139	361	200	175	365	480	2,770	866	186	97	177	325
16	249	366	195	170	430	520	2,490	807	166	96	148	322
17	234	313	195	165	470	590	2,120	753	151	94	131	299
18	232	271	190	160	500	670	1,910	690	142	106	125	255
19	220	249	190	155	490	660	2,060	631	136	105	120	214
20	196	245	185	150	480	630	2,530	587	130	177	119	183
21	176	441	185	150	470	605	3,040	577	132	155	117	169
22	163	540	185	150	460	585	3,270	594	178	144	112	154
23	246	657	185	150	455	565	3,180	685	154	129	109	143
24	618	656	185	145	450	550	2,840	671	141	117	105	137
25	982	622	195	145	440	535	2,460	603	144	110	100	127
26	930	516	210	145	440	530	2,260	559	310	252	99	121
27	732	416	245	160	440	515	2,150	540	235	274	102	115
28	587	366	250	175	475	510	1,970	538	184	248	149	113
29	482	357	245	200	-----	505	1,810	549	158	209	170	114
30	404	351	230	230	-----	500	1,670	537	216	290	164	117
31	343	-----	220	260	-----	505	-----	491	-----	364	170	-----
TOTAL	9,087	10,937	7,045	5,860	9,680	17,000	59,181	35,179	6,727	4,516	7,379	4,826
MEAN	293	365	227	189	346	548	1,973	1,135	224	146	238	161
MAX	982	657	338	260	500	670	3,270	3,410	444	364	667	325
MIN	91	232	185	145	220	480	520	491	130	67	99	101
MEAN*	201	306	227	182	362	505	2,127	1,178	209	111	210	132
CFSM*	.61	.93	.69	.56	1.10	1.54	6.48	3.59	.64	.34	.64	.40
IN. *	.71	1.04	.80	.64	1.14	1.78	7.23	4.14	.71	.39	.74	.45
CAL YR 1970	TOTAL 207,610		MEAN 569	MAX 4,670	MIN 49	MEAN* 554	CFSM* 1.69	IN* 22.93				
WTR YR 1971	TOTAL 177,417		MEAN 486	MAX 3,410	MIN 67	MEAN* 478	CFSM* 1.46	IN* 19.77				

* Adjusted for change in contents in Thompson Lake.

Note.--No gage heights available for Pennessseewassee Lake after Sept. 30, 1970. Calendar year 1970 figures adjusted for change in contents in both Pennessseewassee and Thompson Lakes assuming no change in contents of Pennessseewassee Lake from Sept. 30 to Dec. 31, 1970.

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, on right bank 1.5 miles downstream from Little Androscoggin River and 2.1 miles downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 sq mi.

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft above mean sea level.

AVERAGE DISCHARGE.--43 years, 5,978 cfs (24.93 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 41,500 cfs May 5 (gage height, 12.71 ft); minimum daily, 556 cfs Sept. 6.

Period of record: Maximum discharge, 135,000 cfs Mar. 20, 1936 (gage height, 27.57 ft), from rating curve extended above 76,000 cfs on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 cfs Sept. 28, 1941.

REMARKS.--Records excellent. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes, and Gulf Island Pond (see p. 74) with major regulation at Errol Dam 136 miles upstream. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,180	1,750	4,680	2,740	3,290	5,150	5,660	17,400	6,860	4,100	1,090	4,380
2	3,040	3,300	4,860	2,490	3,950	5,090	5,760	17,400	5,720	3,920	3,940	4,100
3	2,860	4,200	4,930	1,240	4,060	5,100	6,390	18,300	5,680	2,840	3,940	4,040
4	1,780	4,160	4,640	3,560	4,080	4,940	7,890	34,200	5,410	1,890	4,590	2,170
5	6,650	4,140	4,840	4,430	4,050	5,020	8,210	39,500	4,940	2,260	4,630	606
6	5,520	4,130	1,590	4,390	2,410	4,990	9,760	31,800	3,210	3,030	4,560	556
7	4,170	3,690	3,200	4,410	1,100	2,690	10,200	26,200	4,410	3,040	3,250	2,910
8	4,010	1,030	3,760	4,220	3,170	4,610	9,420	23,300	5,430	2,880	1,050	2,950
9	3,560	3,190	3,670	2,660	3,810	4,710	8,480	21,700	5,530	2,810	3,330	2,950
10	2,640	3,860	3,660	1,520	3,960	4,820	8,150	20,100	4,760	1,650	3,220	2,910
11	844	3,820	3,500	3,090	3,750	4,920	8,660	19,600	5,500	748	3,150	1,120
12	2,650	3,790	2,140	4,280	3,680	4,950	12,200	19,700	4,980	3,080	3,210	626
13	3,060	4,260	891	4,220	2,410	4,910	16,700	19,300	3,210	3,840	3,160	3,250
14	3,050	3,730	3,160	4,250	1,940	2,490	19,700	19,700	4,020	2,720	1,380	4,130
15	3,050	1,510	4,070	3,050	3,390	4,610	18,900	16,500	4,420	2,770	682	4,280
16	4,020	3,630	4,380	1,150	4,670	5,060	15,700	13,400	4,500	2,720	3,180	4,380
17	4,650	3,890	4,270	600	5,980	5,540	13,100	11,200	4,490	1,010	3,080	4,380
18	2,120	4,060	4,540	3,200	4,920	6,490	11,800	9,930	4,500	675	3,050	3,130
19	3,730	4,010	2,710	4,110	4,990	7,030	13,800	9,890	3,030	3,110	2,850	862
20	4,020	3,950	1,290	3,650	4,710	6,680	19,600	9,480	811	3,220	2,670	3,310
21	3,920	4,430	3,730	3,530	3,320	6,710	25,800	9,430	3,310	3,590	946	3,200
22	3,640	10,400	4,580	3,210	4,240	6,780	27,600	8,740	3,880	3,650	590	3,190
23	4,460	9,290	4,360	1,920	4,750	6,620	25,700	8,640	3,970	3,620	2,720	3,180
24	6,030	7,140	3,300	881	4,500	5,690	21,400	7,870	3,980	954	2,670	3,170
25	13,200	6,820	1,200	2,940	4,850	5,680	19,500	7,470	4,020	624	2,690	1,260
26	8,730	6,620	1,880	3,650	4,870	5,670	19,800	6,330	2,450	3,170	2,530	607
27	6,370	6,090	1,510	4,050	4,920	4,410	20,000	8,060	968	3,730	2,790	3,150
28	5,960	3,510	3,730	3,820	2,030	3,700	19,200	8,820	3,670	3,920	2,290	3,110
29	5,790	2,210	4,520	3,980	-----	5,520	19,100	8,460	4,300	3,590	729	3,140
30	5,660	4,570	4,550	2,970	-----	5,560	18,400	7,700	4,210	3,260	4,390	3,160
31	4,420	-----	4,310	1,190	-----	5,620	-----	7,460	-----	1,310	4,720	-----
TOTAL	136,784	131,180	108,451	95,401	107,700	161,760	446,580	487,580	126,169	83,731	87,077	84,207
MEAN	4,412	4,373	3,498	3,077	3,446	5,218	14,890	15,730	4,206	2,701	2,809	2,807
MAX	13,200	10,400	4,930	4,430	5,980	7,030	27,600	39,500	6,860	4,100	4,720	4,380
MIN	844	1,030	891	600	1,100	2,490	5,660	6,330	811	624	590	556
MEAN*	4,567	3,800	2,568	1,863	2,752	3,795	17,660	22,320	3,105	1,196	1,834	1,511
CFSM*	1.40	1.17	.78	.57	.84	1.17	5.42	6.85	.95	.37	.56	.46
IN. *	1.61	1.30	.91	.66	.88	1.35	6.05	7.90	1.06	.42	.65	.52
CAL YR 1970	TOTAL 2,544,408 MEAN 6,971 MAX 13,200 MIN 595 MEAN* 6,565 CFSM* 2.02 IN* 27.35											
WTR YR 1971	TOTAL 2,056,620 MEAN 5,635 MAX 39,500 MIN 556 MEAN* 5,594 CFSM* 1.72 IN* 23.31											

* Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes and Gulf Island Pond.

Note.--No gage-heights available for Pennesseewassee Lake after Sept. 30, 1970. Calendar year adjusted figures include change in contents in Pennesseewassee Lake assuming no change from Sept. 30 to Dec. 31, 1970.

ANDROSCOGGIN RIVER BASIN

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 cu ft in top 4 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 cu ft between gage heights 8.3 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 cu ft between gage heights 3.0 and 20.5 ft. Gage-height record furnished by Union Water Power Co.
- 01052000 AZISCOHOS LAKE on Magalloway River, in Lincoln Township, 3 miles east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 cu ft between elevations 1,490.0 and 1,535.0 ft. Elevation record furnished by Union Water Power Co.
- 01053000 UMBAGOG LAKE on Androscoggin River, at Errol Dam, 0.6 mile northeast of Errol, N. H., used for power, has usable capacity of 3,080,160,000 cu ft between gage heights 5.5 and 15.0 ft. Gage-height record furnished by Union Water Power Co.
- 01056000 GULF ISLAND POND on Androscoggin River, 3 miles upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 cu ft in top 10 ft of pond below elevation 262 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 cu ft between elevations 254.7 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 power and process water, has usable capacity of 950,000,000 cu ft between gage heights 95.0 and 100.0 ft. Gage-height record furnished by Robinson Manufacturing Co.

MONTH-END CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE	UMBAGOG LAKE
SEPT. 30, 1970	754	5,126	3,106	6,492	1,794
OCT. 31	361	5,728	4,158	6,296	1,542
NOV. 30	110	5,022	3,677	6,100	1,560
DEC. 31	84	3,790	3,252	5,820	1,364
JAN. 31, 1971	0	1,499	3,051	4,660	1,488
FEB. 28	0	279	2,668	4,135	970
MAR. 31	0	124	938	2,720	805
APR. 30	586	2,164	2,357	4,660	1,108
MAY 31	1,353	8,370	5,691	9,826	3,160
JUNE 30	1,339	7,867	5,406	9,314	2,110
JULY 31	1,242	6,651	4,269	7,848	1,958
AUG. 31	1,242	5,764	3,640	6,772	2,053
SEPT. 30	894	4,334	3,603	5,577	1,958

DATE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1970	2,351	320	1,989
OCT. 31	2,177	342	1,742
NOV. 30	2,439	364	1,590
DEC. 31	2,085	386	1,590
JAN. 31, 1971	2,465	386	1,571
FEB. 28	2,393	419	1,609
MAR. 31	2,095	485	1,495
APR. 30	2,487	592	1,894
MAY 31	2,480	616	2,008
JUNE 30	2,125	520	1,970
JULY 31	2,282	496	1,875
AUG. 31	2,300	441	1,799
SEPT. 30	2,177	386	1,723

Note.--Contents of Gulf Island Pond at 2400 hours, Thompson Lake at 0800 hours. Contents of all others at 0700 hours on first day of following month. Records of Pennesseewassee Lake, previously listed in this table, not available after Sept. 30, 1970.

01059800 Collyer Brook near Gray, Maine

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, 50 ft downstream from U.S. Highway 202, 2.4 miles northeast of Gray, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--13.9 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 24.3 cfs (23.74 inches per year).

EXTREMES.--Current year: Maximum discharge, 250 cfs Feb. 15; maximum gage height, 3.42 ft Feb. 15 (backwater from ice); minimum discharge, 8.8 cfs June 21.

Period of record: Maximum discharge, 1,220 cfs Dec. 27, 1969 (gage height, 3.48 ft); maximum gage height, 4.04 ft Feb. 25, 1965 (backwater from ice); minimum daily discharge, 6.4 cfs Jan. 29, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	18	14	15	32	32	28	17	13	22	12
2	13	15	17	14	14	25	19	27	16	13	18	12
3	13	15	16	14	13	22	66	60	17	11	19	12
4	13	14	16	14	13	20	64	150	17	9.6	21	12
5	13	16	15	15	12	19	58	120	17	10	16	12
6	13	18	15	18	12	19	47	86	16	9.7	14	13
7	13	15	15	16	12	18	42	60	18	10	13	13
8	14	15	15	15	12	18	34	47	23	11	13	13
9	13	15	15	14	12	18	29	38	39	12	12	13
10	13	14	14	14	20	17	41	36	16	12	12	12
11	13	14	14	13	16	17	73	33	14	12	13	13
12	13	14	14	13	14	17	96	30	12	12	13	19
13	13	14	14	12	14	17	100	32	12	12	12	18
14	13	14	14	12	15	17	84	43	11	20	13	26
15	13	14	14	12	200	19	69	38	11	17	12	19
16	37	14	14	12	80	36	51	31	11	15	12	15
17	19	14	14	12	48	39	46	32	11	14	12	16
18	17	15	14	12	33	32	88	30	10	16	12	15
19	14	15	14	11	25	28	110	26	11	17	12	14
20	14	15	14	11	20	21	100	23	11	26	13	13
21	14	19	13	11	18	21	86	21	12	17	12	13
22	14	25	13	11	17	20	72	20	19	16	12	13
23	19	27	13	11	16	20	61	22	15	15	12	12
24	33	25	13	11	16	19	51	21	15	14	12	12
25	25	20	15	11	15	18	49	19	18	14	11	12
26	19	17	20	10	15	17	47	18	31	15	11	12
27	18	16	18	40	20	17	42	17	16	16	13	12
28	17	16	16	27	34	17	38	16	13	15	27	12
29	16	20	16	20	-----	20	34	16	13	14	16	12
30	16	19	15	18	-----	27	31	15	12	35	13	12
31	16	-----	15	16	-----	28	-----	16	-----	22	13	-----
TOTAL	504	499	463	454	751	675	1,780	1,171	476	465.3	435	414
MEAN	16.3	16.6	14.9	14.6	26.8	21.8	59.3	37.8	15.9	15.0	14.0	13.8
MAX	37	27	20	40	200	39	110	150	39	35	27	26
MIN	13	14	13	10	12	17	29	15	10	9.6	11	12
CFSM	1.17	1.19	1.07	1.05	1.93	1.57	4.27	2.72	1.14	1.08	1.01	.99
IN.	1.35	1.34	1.24	1.22	2.01	1.81	4.76	3.13	1.27	1.25	1.16	1.11

CAL YR 1970 TOTAL 9,992.0 MEAN 27.4 MAX 350 MIN 12 CFSM 1.97 IN 26.74
WTR YR 1971 TOTAL 8,087.3 MEAN 22.2 MAX 200 MIN 9.6 CFSM 1.60 IN 21.64

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-15	----	-----	250	5-04	----	-----	175
4-13	1715	2.01	132	6-09	2345	1.86	103
4-19	----	-----	125				

Note.--No gage-height record Apr. 17 to June 7.

01060000 Royal River at Yarmouth, Maine

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, on right bank 150 ft upstream from lower highway bridge, in Yarmouth.

DRAINAGE AREA.--142 sq mi.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (from topographic map).

AVERAGE DISCHARGE.--22 years, 266 cfs (25.44 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,370 cfs May 4 (gage height, 4.06 ft); minimum, 37 cfs July 14 (gage height, 1.04 ft).

Period of record: Maximum discharge, 7,960 cfs Sept. 12, 1954 (gage height, 7.12 ft); minimum, 4.4 cfs Oct. 17, 18, 1962 (gage height, 0.71 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Some diurnal fluctuation at low flow caused by mill above station. Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	89	181	92	120	545	612	345	135	64	102	58
2	55	85	158	91	115	526	673	310	113	74	107	52
3	50	82	144	90	110	474	1,140	624	121	101	98	49
4	53	79	135	89	105	418	1,390	2,190	134	74	144	49
5	58	115	130	93	100	359	1,450	1,830	111	63	168	48
6	51	219	125	100	100	304	1,320	987	93	59	101	53
7	47	161	120	105	99	267	1,140	628	87	54	79	53
8	44	125	115	100	98	252	858	415	86	49	67	53
9	43	105	110	95	110	238	648	364	110	47	61	54
10	41	95	110	91	125	215	677	343	94	47	60	55
11	41	93	105	87	130	201	1,230	303	77	45	56	54
12	41	95	105	83	130	192	1,630	273	75	44	57	54
13	41	93	100	80	140	189	1,760	286	75	42	59	73
14	42	88	100	77	300	185	1,750	442	71	43	55	110
15	45	88	98	75	800	215	1,430	360	68	58	52	178
16	257	122	97	73	670	341	1,030	280	67	59	48	120
17	254	136	96	71	520	589	732	299	66	51	47	92
18	124	119	95	70	420	605	653	282	65	50	47	85
19	89	112	94	69	360	539	1,060	235	61	53	47	73
20	73	115	92	68	310	441	1,350	206	62	107	47	62
21	65	400	91	67	275	398	1,270	189	60	99	47	55
22	61	465	91	66	240	362	1,100	186	64	67	46	53
23	225	441	90	66	220	374	932	212	116	57	45	49
24	1,100	457	90	65	205	360	731	184	84	53	45	47
25	692	293	89	64	195	333	616	159	61	49	44	44
26	309	198	88	70	190	318	600	157	73	46	44	42
27	201	160	91	85	200	299	573	150	168	46	43	42
28	147	148	95	120	450	293	483	141	113	65	73	41
29	121	191	96	160	-----	287	433	131	82	56	127	41
30	105	198	95	140	-----	365	388	123	70	112	89	41
31	95	-----	93	130	-----	471	-----	133	-----	108	66	-----
TOTAL	4,631	5,167	3,319	2,732	6,837	10,955	29,659	12,767	2,662	1,942	2,171	1,880
MEAN	149	172	107	88.1	244	353	989	412	88.7	62.6	70.0	62.7
MAX	1,100	465	181	160	800	605	1,760	2,190	168	112	168	178
MIN	41	79	88	64	98	185	388	123	60	42	43	41
CFSM	1.05	1.21	.75	.62	1.72	2.49	6.96	2.90	.62	.44	.49	.44
IN.	1.21	1.35	.87	.72	1.79	2.87	7.77	3.34	.70	.51	.57	.49

CAL YR 1970 TOTAL 87,896 MEAN 241 MAX 2,760 MIN 35 CFSM 1.70 IN 23.03
WTR YR 1971 TOTAL 84,722 MEAN 232 MAX 2,190 MIN 41 CFSM 1.63 IN 22.19

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-04	2300	3.36	1,530	5-04	1900	4.06	2,370
4-13	2400	3.63	1,850				

01064000 Presumpscot River at outlet of Sebago Lake, Maine

LOCATION.--Lat 43°49'03", long 70°27'01", Cumberland County, at dam of hydroelectric plant at Eel Weir Falls, 1.0 mile downstream from lake outlet.

DRAINAGE AREA.--436 sq mi.

PERIOD OF RECORD.--January 1887 to current year.

GAGES.--Nonrecording gages in forebay and tailrace of hydroelectric plant at Eel Weir Falls and at dam on outlet of Sebago Lake.

AVERAGE DISCHARGE.--84 years, 656 cfs (20.43 inches per year), unadjusted.

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gages 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 cfs, not included in figures of daily discharge. Flow regulated by Long Pond and Sebago Lake (surface area 45.6 sq mi), which have a combined usable capacity of 11,000,000,000 cu ft.

COOPERATION.--Records furnished by S. D. Warren Co.

REVISIONS (WATER YEARS).--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	415	408	415	343	345	523	830	819	819	548	655
2	492	415	415	415	335	345	523	830	819	819	548	655
3	491	415	415	415	343	345	523	824	806	806	806	655
4	491	415	415	415	168	353	515	818	806	0	670	655
5	491	423	415	415	335	349	523	830	806	0	670	655
6	490	423	415	415	335	345	655	818	806	0	670	655
7	490	415	415	415	343	345	655	818	819	0	670	655
8	490	415	415	415	343	345	655	806	806	0	670	655
9	417	430	415	415	335	345	655	818	806	0	670	655
10	418	422	415	415	335	335	671	818	818	667	655	655
11	418	415	415	415	335	335	655	818	818	667	655	655
12	418	415	415	343	327	345	655	818	818	667	655	655
13	420	415	415	343	335	345	655	818	819	667	655	655
14	420	415	415	343	335	345	655	818	819	667	655	655
15	420	432	415	343	343	345	655	686	806	667	655	655
16	420	415	415	343	343	345	655	686	806	667	655	655
17	420	408	415	343	343	345	655	686	819	667	655	655
18	420	415	415	343	348	515	655	686	819	670	655	655
19	421	403	415	343	348	515	655	686	806	655	655	655
20	420	408	415	343	335	515	655	554	806	554	655	655
21	418	408	415	343	350	523	655	541	819	554	655	655
22	420	408	417	343	345	523	655	541	818	562	655	655
23	400	408	417	343	340	523	655	541	831	546	655	655
24	422	408	417	343	335	515	653	541	819	546	655	655
25	424	408	417	343	335	523	655	541	819	546	655	655
26	423	408	417	343	335	515	655	541	806	546	655	655
27	423	408	417	343	345	523	655	541	806	546	655	655
28	425	408	417	343	345	523	749	541	819	546	655	655
29	425	408	417	335	-----	523	844	541	831	819	655	670
30	422	408	417	335	-----	523	831	541	819	546	655	655
31	422	-----	415	335	-----	523	-----	541	-----	548	655	-----
TOTAL	13,583	12,409	12,676	11,401	9,337	13,139	19,455	21,417	24,434	15,964	20,332	19,665
MEAN	438	414	415	368	333	424	649	691	814	515	656	656
MAX	492	432	417	415	350	523	844	830	831	819	806	670
MIN	400	403	408	335	168	335	515	541	806	0	548	655
MEAN*	534	523	389	333	394	875	1,692	1,632	309	51	155	291
CFSM*	1.22	1.20	.89	.76	.90	2.01	3.88	3.74	.71	.12	.36	.67
IN. *	1.41	1.34	1.03	.88	.94	2.32	4.33	4.31	.79	.13	.41	.74

CAL YR 1970 TOTAL 312,111 MEAN 655 MAX 2,340 MIN 169 MEAN* 715 CFSM* 1.64 IN* 22.27
 WTR YR 1971 TOTAL 194,012 MEAN 532 MAX 844 MIN 0 MEAN* 599 CFSM* 1.37 IN* 18.63

* Adjusted for change in contents in Long Pond and Sebago Lake, diversion by Portland Water District, and leakage.

SACO RIVER BASIN

01064500 Saco River near Conway, N. H.

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

DRAINAGE AREA.--386 sq mi.

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".

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mile downstream at different datum.

AVERAGE DISCHARGE.--48 years (1903-9, 1929-71), 907 cfs (31.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,800 cfs May 4 (gage height, 9.89 ft); minimum, 136 cfs Aug. 27 (gage height, 2.09 ft).

Period of record: Maximum discharge, 43,900 cfs Mar. 27, 1953 (gage height, 17.20 ft), from rating curve extended above 23,000 cfs on basis of slope-area measurement of peak flow; minimum, 40 cfs Mar. 16, 1932 (gage height, 1.61 ft).

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

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	579	750	305	230	570	310	2,950	1,100	274	460	285
2	305	538	710	300	225	515	325	3,080	921	369	345	245
3	537	507	665	300	220	480	650	5,320	887	324	320	223
4	2,000	481	630	295	220	455	1,200	12,200	903	272	722	208
5	901	467	595	290	215	440	1,000	6,720	828	248	489	197
6	602	457	565	340	215	430	840	5,060	703	236	351	279
7	499	431	540	330	215	425	740	4,720	638	234	291	307
8	450	414	515	315	215	415	660	4,620	776	211	258	255
9	390	396	495	300	220	405	605	4,730	1,460	203	235	224
10	346	384	475	295	240	400	610	4,270	834	195	216	202
11	321	432	460	285	235	395	850	4,990	647	188	210	189
12	306	589	440	280	225	390	1,940	5,410	565	180	237	258
13	294	527	425	270	250	380	2,620	5,770	514	173	211	1,450
14	290	467	410	265	500	400	3,180	4,410	476	199	192	1,610
15	307	446	395	260	1,500	450	2,730	3,160	443	229	183	1,660
16	610	461	385	255	1,250	520	2,070	2,920	410	206	181	940
17	595	461	375	250	950	1,000	1,700	2,800	395	193	176	696
18	459	428	365	250	760	630	1,700	3,190	372	224	166	587
19	400	434	360	245	650	520	2,240	3,360	349	224	160	503
20	367	502	350	245	550	470	3,670	3,370	331	382	155	444
21	351	3,760	345	240	485	435	4,480	2,990	321	316	150	465
22	340	2,390	340	240	430	400	4,000	2,730	348	240	149	524
23	682	1,980	335	235	400	375	3,330	2,300	330	210	155	418
24	3,830	1,740	350	230	380	355	2,800	1,670	305	194	171	373
25	1,840	1,250	425	230	375	340	3,130	1,420	330	247	153	339
26	1,280	1,000	390	230	375	330	2,990	2,310	646	262	143	314
27	1,110	919	360	255	410	325	2,860	1,810	464	234	145	297
28	906	843	340	340	600	320	3,020	1,410	359	214	429	286
29	783	823	330	295	-----	310	3,170	1,270	309	205	1,280	280
30	692	784	320	265	-----	305	2,840	1,220	285	426	503	272
31	628	-----	310	245	-----	305	-----	1,170	-----	370	349	-----
TOTAL	22,771	24,890	13,750	8,480	12,540	13,490	62,260	113,350	17,258	7,682	9,185	14,330
MEAN	735	830	444	274	448	435	2,075	3,656	575	248	296	478
MAX	3,830	3,760	750	340	1,500	1,000	4,480	12,200	1,460	426	1,280	1,660
MIN	290	384	310	230	215	305	310	1,170	285	173	143	189
CFSM	1.90	2.15	1.15	.71	1.16	1.13	5.38	9.47	1.49	.64	.77	1.24
IN.	2.19	2.40	1.33	.82	1.21	1.30	6.00	10.92	1.66	.74	.89	1.38

CAL YR 1970 TOTAL 332,666 MEAN 911 MAX 7,910 MIN 122 CFSM 2.36 IN 32.06
 WTR YR 1971 TOTAL 319,986 MEAN 877 MAX 12,200 MIN 143 CFSM 2.27 IN 30.84

PEAK DISCHARGE (BASE, 8,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-04	0800	9.89	14,800				

01065000 Ossipee River at Effingham Falls, N. H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, on left bank 0.3 mile upstream from bridge on State Highway 153 at Effingham Falls, 0.35 mile downstream from outlet of Ossipee Lake, and 4 miles northwest of Effingham.

DRAINAGE AREA.--330 sq mi.

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (from topographic map).

AVERAGE DISCHARGE.--29 years, 679 cfs (27.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,490 cfs May 5 (gage height, 7.78 ft); minimum, 72 cfs Aug. 9; minimum daily, 120 cfs July 18, 19.

Period of record: Maximum discharge, 11,700 cfs Mar. 28, 1953 (gage height, 11.64 ft); minimum, about 5 cfs during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 cfs Oct. 10, 1944.

REMARKS.--Records excellent except those for periods of doubtful gage-height record, which are good. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity, 1,430,000,000 cu ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	1,140	694	379	317	445	524	2,350	449	171	167	261
2	344	1,130	701	378	312	454	536	2,270	188	171	167	258
3	346	1,050	704	378	304	463	573	2,300	210	170	169	256
4	354	939	568	473	297	484	648	2,870	268	200	181	254
5	361	916	467	526	296	500	730	3,430	361	193	196	253
6	364	898	472	514	303	483	811	3,430	357	122	266	251
7	367	786	624	504	298	481	906	3,210	355	126	309	250
8	418	717	723	489	300	488	971	2,930	353	124	301	249
9	468	705	715	471	312	478	986	2,690	353	124	203	247
10	464	513	707	455	310	463	991	2,490	351	124	265	246
11	461	437	706	441	304	457	1,030	2,310	347	123	284	244
12	457	507	697	429	301	454	1,180	2,140	344	123	279	245
13	454	549	696	411	305	442	1,430	2,000	342	123	279	247
14	451	669	700	399	329	432	1,780	1,580	340	125	279	253
15	451	665	689	390	344	426	2,080	1,310	339	128	279	261
16	464	661	681	378	369	435	2,170	1,300	337	126	277	268
17	471	657	676	366	384	460	2,080	1,290	333	123	274	272
18	475	653	662	354	400	497	1,990	1,200	328	120	272	272
19	482	649	657	342	423	522	1,960	1,140	314	120	272	267
20	531	648	649	331	438	555	2,150	1,130	309	121	270	267
21	831	661	644	321	443	569	2,510	650	309	123	272	267
22	930	683	625	319	439	574	2,790	361	307	140	267	267
23	1,040	698	613	311	437	569	2,880	429	306	177	282	267
24	1,380	705	603	308	436	563	2,800	790	304	265	279	266
25	1,470	713	592	302	428	560	2,700	976	236	263	270	263
26	1,420	717	578	303	419	552	2,630	943	169	263	272	262
27	1,340	706	567	319	419	538	2,570	906	169	263	298	261
28	1,260	701	481	338	431	524	2,480	875	169	263	289	260
29	1,190	698	381	319	-----	513	2,420	845	170	261	263	258
30	1,150	697	381	323	-----	514	2,400	822	171	228	266	257
31	1,150	-----	380	323	-----	517	-----	808	-----	163	263	-----
TOTAL	21,688	21,868	19,033	11,894	10,098	15,412	51,706	51,775	8,888	5,166	8,010	7,749
MEAN	700	729	614	384	361	497	1,724	1,670	296	167	258	258
MAX	1,470	1,140	723	526	443	574	2,880	3,430	449	265	309	272
MIN	344	437	380	302	296	426	524	361	169	120	167	244

CAL YR 1970 TOTAL 266,278 MEAN 730 MAX 3,360 MIN 157 CFSM 2.21 IN 30.02
WTR YR 1971 TOTAL 233,287 MEAN 639 MAX 3,430 MIN 120 CFSM 1.94 IN 26.30

NOTE.--Doubtful gage-height record Oct. 7 to Nov. 20, July 14 to Aug. 25.

01065500 Ossipee River at Cornish, Maine

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, on left bank 100 ft downstream from highway bridge in Cornish, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--453 sq mi.

PERIOD OF RECORD.--July 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft above mean sea level. Prior to Aug. 21, 1929, non-recording gage and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft higher.

AVERAGE DISCHARGE.--55 years, 861 cfs (25.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,190 cfs May 5 (gage height, 6.93 ft); minimum daily, 141 cfs July 17.

Period of record: Maximum discharge, 17,200 cfs Mar. 21, 1936 (gage height, 16.32 ft, present datum), from rating curve extended above 7,500 cfs; minimum daily, 65 cfs Sept. 8, 1929.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds (combined capacity, 1,600,000,000 cu ft).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1927-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	410	1,290	863	510	435	625	770	3,050	847	229	318	288
2	395	1,230	847	505	425	645	843	2,920	363	218	273	289
3	410	1,070	851	505	410	665	1,030	3,050	354	217	266	283
4	475	1,040	931	510	405	690	1,190	3,890	375	213	321	279
5	467	1,050	808	640	400	710	1,290	4,110	463	241	289	284
6	436	1,040	711	630	405	730	1,330	4,080	472	220	274	281
7	439	870	709	620	400	730	1,420	3,820	465	156	379	282
8	431	841	910	595	400	725	1,450	3,490	456	154	364	273
9	504	789	958	580	420	720	1,410	3,280	470	152	361	269
10	527	578	931	560	440	715	1,460	3,090	450	159	230	267
11	527	579	929	550	430	690	1,800	2,850	430	157	330	265
12	523	694	888	530	415	670	2,110	2,630	424	152	335	295
13	522	708	841	515	430	650	2,480	2,500	419	151	325	329
14	521	792	842	495	470	630	2,920	2,340	412	156	310	381
15	526	795	834	475	495	615	3,070	1,740	406	169	313	396
16	620	817	820	460	520	620	3,050	1,710	405	171	313	342
17	614	804	810	450	545	640	2,890	1,700	400	141	306	344
18	588	782	800	435	570	680	2,840	1,610	391	162	301	341
19	579	782	785	425	595	720	3,010	1,440	385	171	302	330
20	573	802	775	420	610	760	3,340	1,390	360	241	298	316
21	576	935	765	410	610	790	3,620	1,190	367	191	297	322
22	830	915	755	400	605	790	3,760	637	369	182	295	315
23	1,210	920	745	395	605	780	3,790	696	357	199	294	306
24	2,120	915	735	390	600	770	3,670	808	360	282	311	308
25	1,900	881	725	385	590	755	3,530	1,170	351	299	291	300
26	1,930	867	715	400	580	740	3,460	1,130	288	312	290	296
27	1,820	849	705	420	580	730	3,480	1,080	250	312	318	296
28	1,690	845	670	445	595	720	3,280	1,050	236	301	385	290
29	1,560	858	540	460	-----	715	3,170	1,010	229	307	354	294
30	1,440	863	515	460	-----	720	3,120	985	213	391	320	294
31	1,340	-----	510	450	-----	735	-----	967	-----	283	306	-----
TOTAL	26,503	26,201	24,223	15,025	13,985	21,875	74,583	65,413	11,767	6,689	9,669	9,155
MEAN	855	873	781	485	499	706	2,486	2,110	392	216	312	305
MAX	2,120	1,290	958	640	610	790	3,790	4,110	847	391	385	396
MIN	395	578	510	385	400	615	770	637	213	141	230	265

CAL YR 1970 TOTAL 354,587 MEAN 971 MAX 4,550 MIN 179 CFSM 2.14 IN 29.12

WTR YR 1971 TOTAL 305,088 MEAN 836 MAX 4,110 MIN 141 CFSM 1.85 IN 25.05

01066000 Saco River at Cornish, Maine

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, on left bank 300 ft upstream from highway bridge at Cornish, and 0.4 mile downstream from Ossipee River.

DRAINAGE AREA.--1,298 sq mi.

PERIOD OF RECORD.--June 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft above mean sea level. Prior to Oct. 30, 1919, non-recording gage on bridge downstream at different datum.

AVERAGE DISCHARGE.--55 years, 2,655 cfs (27.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,500 cfs May 7 (gage height, 10.17 ft); minimum daily, 461 cfs July 17.

Period of record: Maximum discharge, 45,000 cfs Mar. 21, 22, 1936 (gage height, 21.90 ft, from flood-marks); minimum daily, 245 cfs Oct. 18, 1957.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by power-plants 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 cu ft). Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1917-18 (M), 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	887	3,330	2,940	1,500	1,170	2,270	2,430	9,350	3,330	976	1,020	949
2	889	3,130	2,810	1,500	1,150	2,280	2,470	9,010	2,740	943	984	907
3	845	2,780	2,720	1,480	1,120	2,270	2,780	9,180	2,590	894	985	856
4	1,150	2,640	2,810	1,450	1,080	2,250	3,240	10,600	2,370	870	1,100	769
5	1,640	2,580	2,650	1,600	1,050	2,100	3,550	11,600	2,380	900	1,070	771
6	1,630	2,500	2,470	1,570	1,100	2,120	3,780	13,900	2,290	894	1,130	777
7	1,560	2,230	2,270	1,540	1,070	2,060	3,970	14,400	2,180	721	1,260	805
8	1,500	2,130	2,020	1,500	1,060	2,020	4,000	13,600	2,060	682	1,180	806
9	1,510	1,920	1,960	1,470	1,080	1,950	3,930	12,700	2,060	645	1,070	799
10	1,460	1,640	2,050	1,440	1,160	1,900	3,960	11,800	2,070	631	838	764
11	1,370	1,630	2,160	1,420	1,140	1,920	4,390	11,000	2,120	626	921	720
12	1,320	1,760	2,060	1,400	1,120	1,940	4,960	10,400	2,050	622	952	760
13	1,230	1,780	2,020	1,370	1,300	1,900	5,720	9,950	1,920	617	904	878
14	1,210	1,900	2,010	1,320	1,450	1,800	6,620	9,750	1,720	617	847	1,300
15	1,180	1,910	2,000	1,300	1,500	1,860	6,990	8,980	1,680	617	847	1,920
16	1,390	1,940	1,980	1,280	1,580	1,920	7,280	8,670	1,580	608	817	2,060
17	1,510	1,910	1,960	1,240	1,680	2,020	7,350	8,230	1,450	461	776	2,120
18	1,510	1,860	1,920	1,200	1,780	2,300	7,430	7,610	1,380	573	704	2,080
19	1,490	1,860	1,900	1,160	1,880	2,450	7,780	6,950	1,330	591	676	1,940
20	1,450	1,900	1,880	1,120	1,950	2,600	8,410	6,520	1,250	649	674	1,780
21	1,430	2,220	1,850	1,080	2,000	2,800	9,000	6,030	1,190	650	672	1,670
22	1,710	2,710	1,820	1,060	2,070	2,980	9,480	5,290	1,180	715	670	1,540
23	2,370	3,380	1,800	1,050	2,100	3,000	9,930	5,210	1,140	686	668	1,460
24	3,950	3,350	1,780	1,040	2,090	2,980	10,300	5,030	1,040	750	669	1,340
25	4,160	3,480	1,770	1,020	2,050	2,860	10,400	5,170	1,030	776	604	1,280
26	4,370	3,480	1,750	1,020	2,020	2,780	10,400	4,780	1,190	745	603	1,210
27	4,300	3,360	1,730	1,080	2,040	2,680	10,500	4,480	1,200	710	629	1,150
28	4,190	3,230	1,710	1,090	2,120	2,550	10,100	4,260	1,170	699	744	1,100
29	4,010	3,130	1,500	1,150	-----	2,500	9,790	4,110	1,110	705	795	1,080
30	3,770	2,850	1,450	1,250	-----	2,480	9,570	3,890	1,030	938	922	1,080
31	3,550	-----	1,480	1,220	-----	2,450	-----	3,690	-----	895	1,040	-----
TOTAL	64,541	74,520	63,230	39,920	42,910	71,990	200,510	256,140	51,830	22,406	26,771	36,671
MEAN	2,082	2,484	2,040	1,288	1,533	2,322	6,684	8,263	1,728	723	864	1,222
MAX	4,370	3,480	2,940	1,600	2,120	3,000	10,500	14,400	3,330	976	1,260	2,120
MIN	845	1,630	1,450	1,020	1,050	1,800	2,430	3,690	1,030	461	603	720
CAL YR 1970	TOTAL	1,070,931	MEAN	2,934	MAX	14,100	MIN	406	CFSM	2.26	IN	30.69
WTR YR 1971	TOTAL	951,439	MEAN	2,607	MAX	14,400	MIN	461	CFSM	2.01	IN	27.27

01066500 Little Ossipee River near South Limington, Maine

LOCATION.--Lat 43°41'22", long 70°40'15", York County, on right bank 25 ft upstream from highway bridge, 2 miles southeast of South Limington, and 5.8 miles upstream from mouth.

DRAINAGE AREA.--161 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 286 cfs (24.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,510 cfs Apr. 14 (gage height, 4.25 ft); minimum daily, 13 cfs Aug. 31.

Period of record: Maximum discharge, 5,300 cfs May 10, 1954 (gage height, 6.78 ft); minimum daily, 1.7 cfs Oct. 7, 1965.

Maximum discharge known, 8,530 cfs Mar. 19, 1936, at "Ledgemere" dam 3.6 miles upstream.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds (combined capacity, 581,000,000 cu ft). Records of chemical analyses for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	221	118	205	180	340	421	785	231	53	42	14
2	231	244	118	200	170	380	460	735	221	87	59	22
3	229	234	120	195	160	375	554	742	224	122	81	61
4	228	292	229	170	155	365	650	938	234	117	91	84
5	225	293	387	26	150	355	701	1,120	227	114	88	79
6	224	290	380	19	150	350	736	987	214	73	122	78
7	221	236	401	17	150	335	811	848	208	21	143	78
8	219	235	511	15	160	325	817	744	132	19	134	77
9	216	307	502	15	180	320	741	723	45	19	97	75
10	213	493	493	100	190	313	714	708	72	25	19	74
11	213	385	589	160	175	306	746	683	84	29	17	75
12	213	262	668	160	170	293	1,060	501	88	32	20	81
13	216	291	623	155	170	276	1,340	52	86	33	25	80
14	217	337	558	155	250	274	1,480	55	84	38	29	113
15	217	335	453	150	340	283	1,440	42	82	39	30	141
16	223	313	275	145	360	306	1,310	43	79	38	32	141
17	222	258	230	140	350	346	1,120	52	77	38	33	164
18	224	258	230	140	310	440	973	74	76	42	32	180
19	220	260	230	135	275	555	1,030	195	86	41	31	179
20	217	261	230	130	260	411	1,270	256	78	75	49	179
21	215	269	225	130	250	400	1,430	344	78	70	66	178
22	213	269	225	130	235	367	1,340	356	78	58	60	178
23	240	273	225	125	230	358	1,170	339	73	52	61	175
24	179	273	220	125	220	359	1,320	316	70	47	60	174
25	104	272	220	125	215	355	1,070	295	62	45	58	172
26	395	270	220	130	210	316	942	285	71	90	58	172
27	434	197	215	140	220	308	945	278	72	121	43	171
28	388	116	215	160	250	299	936	271	65	118	19	169
29	310	115	210	195	-----	311	868	262	62	119	16	169
30	226	117	210	220	-----	363	845	246	59	81	14	168
31	224	-----	205	200	-----	402	-----	240	-----	31	13	-----
TOTAL	7,351	8,216	9,735	4,112	6,135	10,736	29,240	13,517	3,318	1,802	1,642	3,701
MEAN	237	274	314	133	219	346	975	436	111	61.0	53.0	123
MAX	434	493	668	220	360	505	1,480	1,120	234	122	143	180
MIN	104	115	118	15	150	274	421	42	45	19	13	14
CAL YR 1970	TOTAL	116,100	MEAN	318	MAX	2,840	MIN	12	CFSM	1.98	IN	26.83
WTR YR 1971	TOTAL	99,595	MEAN	273	MAX	1,480	MIN	13	CFSM	1.70	IN	23.01

01069500 Mousam River near West Kennebunk, Maine

LOCATION.--Lat 43°25'04", long 70°39'32", York County, on right bank 100 ft upstream from highway bridge, 1.4 miles downstream from Middle Branch, and 4.0 miles west of West Kennebunk.

DRAINAGE AREA.--105 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 176 cfs (22.76 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 869 cfs Apr. 14 (gage height, 2.77 ft); minimum daily, 10 cfs Oct. 22.

Period of record: Maximum discharge, 2,830 cfs Sept. 12, 1954 (gage height, 5.69 ft); minimum daily, 0.4 cfs Nov. 10, 15, 16, 1964.

REMARKS.--Records good. Flow regulated by Square Pond and Mousam and Estes Lakes (combined capacity, about 700,000,000 cu ft) and powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	164	149	155	138	290	349	458	162	18	20	40
2	128	162	149	155	135	312	387	423	124	57	25	15
3	52	158	149	155	134	291	538	488	112	18	22	20
4	93	151	158	155	125	276	613	690	153	19	22	16
5	118	159	243	155	120	261	616	605	152	20	26	16
6	136	170	236	155	116	246	581	522	151	116	27	16
7	132	160	213	155	115	243	569	475	149	163	27	16
8	125	152	195	155	113	235	501	425	104	64	24	16
9	123	148	189	155	112	214	465	440	99	26	25	55
10	125	145	187	155	111	211	440	445	138	19	22	64
11	127	144	178	155	110	214	534	411	55	19	25	15
12	128	144	176	155	110	200	668	378	13	19	31	15
13	130	144	173	155	111	202	760	391	14	19	26	65
14	132	144	175	155	116	199	827	443	92	19	26	22
15	128	144	170	155	120	211	757	385	52	18	25	15
16	102	146	163	155	121	274	672	331	14	18	56	15
17	42	150	165	125	124	349	596	342	14	19	20	110
18	11	148	167	101	134	352	566	322	51	18	103	79
19	88	151	173	144	141	335	674	297	15	19	63	14
20	124	177	173	144	109	326	784	271	16	19	20	107
21	46	212	167	144	147	308	799	236	54	16	20	121
22	10	197	162	144	151	237	732	252	54	16	20	130
23	15	210	161	144	154	280	662	222	67	17	107	133
24	88	195	161	142	158	266	592	189	26	17	66	92
25	246	173	161	141	158	254	559	178	18	17	17	12
26	241	157	162	141	158	246	536	175	18	18	111	12
27	220	151	161	141	161	235	566	173	17	18	66	91
28	221	149	159	141	162	247	525	173	54	18	17	149
29	172	149	158	141	-----	253	513	173	16	18	16	149
30	147	149	158	139	-----	293	496	166	17	20	90	144
31	156	-----	156	138	-----	318	-----	164	-----	19	68	-----
TOTAL	3,733	4,803	5,347	4,550	3,654	8,228	17,877	10,643	2,021	901	1,233	1,764
MEAN	120	160	172	147	131	255	596	343	67.4	29.1	39.8	58.8
MAX	246	212	243	155	162	352	827	690	162	163	111	149
MIN	10	144	149	101	109	199	349	164	13	16	16	12
MEAN*	134	138	149	141	162	285	669	318	56.6	22.8	27.1	32.6
CFSM*	1.28	1.31	1.42	1.34	1.54	2.71	6.37	3.03	.54	.22	.26	.31
IN. *	1.48	1.46	1.64	1.54	1.60	3.12	7.11	3.49	.60	.25	.30	.35

CAL YR 1970 TOTAL 67,657 MEAN 185 MAX 1,410 MIN 10 MEAN* 178 CFSM* 1.70 IN* 23.09
WTR YR 1971 TOTAL 64,764 MEAN 177 MAX 827 MIN 10 MEAN* 177 CFSM* 1.69 IN* 22.94

* Adjusted for change in contents in Square Pond and Mousam Lake. Records furnished by Town of Sanford.

PISCATAQUA RIVER BASIN

01072100 Salmon Falls River at Milton, N. H.

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 1,070 cfs Oct. 25 (gage height, 4.90 ft, from graph based on gage readings); minimum daily, 33 cfs July 9-11, 17, 18.

Period of record: Maximum discharge, 1,730 cfs Feb. 12, 1970 (gage height, 5.49 ft); minimum daily, 19 cfs Aug. 30, Sept. 13, 1970.

REMARKS.--Records good except those for period of shifting control, which are fair. Flow completely regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Townhouse) Ponds, combined usable capacity, 1,280,000,000 cu ft. See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	334	227	130	121	219	257	537	161	42	51	50
2	121	348	238	125	117	238	257	481	161	42	51	51
3	115	370	227	121	115	238	293	420	147	42	51	72
4	117	339	230	121	107	245	313	410	115	41	51	60
5	117	317	281	121	107	269	400	503	76	42	51	51
6	130	313	297	121	107	269	450	476	84	43	51	49
7	135	309	293	121	105	249	481	410	86	42	51	105
8	130	305	265	121	105	234	487	395	88	40	51	164
9	125	297	241	115	107	215	465	385	89	33	51	164
10	119	293	230	113	107	208	435	301	80	33	51	164
11	117	289	208	113	107	241	470	212	72	33	51	161
12	109	281	201	113	107	261	573	188	67	42	51	161
13	107	277	188	109	111	241	685	137	63	47	50	150
14	107	273	185	107	140	223	800	140	58	38	50	150
15	113	273	182	107	161	223	848	147	54	34	50	150
16	153	273	167	107	192	223	840	169	50	35	50	147
17	208	305	169	105	208	227	752	227	49	33	50	147
18	234	293	172	103	223	285	678	241	47	33	50	147
19	234	253	164	103	227	301	631	230	46	40	50	145
20	223	227	158	95	227	301	678	234	45	46	50	145
21	208	227	155	93	227	289	752	230	47	43	51	142
22	192	238	140	93	212	281	792	238	51	43	51	135
23	253	249	140	93	212	289	784	265	46	42	51	135
24	800	253	140	93	198	289	720	227	42	40	50	153
25	1,030	249	140	88	195	285	685	158	42	40	50	167
26	816	234	140	88	182	285	657	172	43	40	50	164
27	585	223	140	93	178	281	644	167	43	46	50	153
28	487	212	140	100	185	277	637	164	43	51	51	147
29	435	205	140	105	-----	265	605	155	42	51	51	145
30	380	201	130	117	-----	261	579	150	43	51	51	135
31	357	-----	130	119	-----	257	-----	153	-----	51	51	-----
TOTAL	8,390	8,260	5,858	3,353	4,390	7,969	17,648	8,322	2,080	1,279	1,569	3,909
MEAN	271	275	189	108	157	257	588	268	69.3	41.3	50.6	130
MAX	1,030	370	297	130	227	301	848	537	161	51	51	167
MIN	107	201	130	88	105	208	257	137	42	33	50	49
(*)	789.2	572.9	580.2	590.6	658.4	567.5	1,002.6	1,224.2	1,170.3	1,113.0	1,020.1	752.0

CAL YR 1970 TOTAL 76,251 MEAN 209 MAX 1,030 MIN 19
WTR YR 1971 TOTAL 73,027 MEAN 200 MAX 1,030 MIN 33

* Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes, and Horn, Wilson, Milton, Northeast, and Town House Ponds.

Note.--Shifting-control method used Feb. 28 to Apr. 4.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1971

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
ST. JOHN RIVER BASIN							
01014700	Factory Brook near Madawaska, Me.	Lat 47°21'09", long 68°17'55", 12 ft upstream from culvert in U.S. Highway 1, half a mile upstream from mouth and 1.1 miles east of Madawaska.	5.83	1964-71	5-04-71	8.02	113
01015700	Houlton Brook near Oxbow, Me.	Lat 46°26'18", long 68°24'21", at culvert in road west from State Highway 11 to Oxbow, 1.9 miles upstream from mouth and 4.3 miles northeast of Oxbow.	5.08	1964-71	5-04-71	6.70	165
01017300	Nichols Brook near Caribou, Me.	Lat 46°51'31", long 67°56'18", at culvert in road north from Grimes Mill to State Highway 223, 300 ft upstream from mouth and 3.5 miles east of Caribou.	3.94	1964-71	10-03-70	13.47	281
WIGGINS BROOK BASIN							
01021300	Wiggins Brook near West Lubec, Me.	Lat 44°45'26", long 67°05'23", 10 ft upstream from culvert in State Highway 191, 4.4 miles southwest of West Lubec.	5.04	1965-71	4-14-71	4.55	108
MACHIAS RIVER BASIN							
01021600	Middle River near Machias, Me.	Lat 44°44'14", long 67°29'35", 40 ft upstream from highway bridge in connecting road between State Highway 192 and U.S. Highway 1-A, 2.2 miles northwest of Machias and 3.4 miles upstream from mouth.	8.32	1965-71	2-15-71	4.12	166
FORBES POND BROOK BASIN							
01022700	Forbes Pond Brook near Prospect Harbor, Me.	Lat 44°24'33", long 68°01'37", on abutment of highway bridge in State Highway 186, 100 ft upstream from mouth and in the village of Prospect Harbor.	8.78	1965-71	4-14-71	2.68	114
FROST POND BROOK BASIN							
01026800	Frost Pond Brook near Sedgwick, Me.	Lat 44°22'12", long 68°39'29", at culvert in State Highway 15 between Grays Corner and Black Corner, 700 ft upstream from mouth and 5 miles northeast of Sedgwick.	5.68	1965-71	4-14-71	3.93	78
PENOBSCOT RIVER BASIN							
01030300	Trout Brook near Danforth, Me.	Lat 45°41'43", long 67°54'07", at culvert in State Highway between Bancroft and Danforth, 1.3 miles upstream from mouth and 3.0 miles northeast of Danforth.	4.39	1964-71	b 5-04-71	a3.44 2.77	--- 98

a Affected by backwater from ice.

b Not determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Annual maximum discharge at crest stage partial record stations during water year 1971 continued							
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
PENOBSCOT RIVER BASIN--Continued							
01030400	Gulliver Brook near Monarda, Me.	Lat 45°44'23", long 68°18'30", at culvert in U.S. Highway 2, 2,700 ft upstream from mouth and 4.1 miles south of Monarda.	11.0	1964-71	5-04-71	3.52	270
01034900	Coffin Brook near Lee, Me.	Lat 45°20'18", long 68°21'42", 14 ft upstream from culvert in Lee Back Road, 4 miles southwest of Lee.	2.21	1964-71	2-15-71 5-04-71	a4.82 4.64	--- 50
01037200	Cold Brook near Northern Maine Junction, Me.	Lat 44°46'39", long 68°50'59", 25 ft upstream from culvert in U.S. Highway 95, 1.1 miles upstream from mouth and 1.2 miles southeast of Northern Maine Junction.	3.06	1964-71	3-18-71 4-03-71	a6.28 5.38	--- 110
GOOSE RIVER BASIN							
01037430	Goose River at Rockport, Me.	Lat 44°11'21", long 69°04'49", 7 ft upstream from culvert in U.S. Highway 1, 2,000 ft upstream from mouth and 0.4 mile northwest of Rockport.	8.32	1964-71	5-03-71	3.99	195
KENNEBEC RIVER BASIN							
01041900	Mountain Brook near Lake Parlin, Me.	Lat 45°28'12", long 70°03'54", at culvert in U.S. Highway 201, 1.8 miles upstream from mouth and 3.8 miles southeast of Lake Parlin.	3.91	1964-71	4-07-71 4-23-71	a3.81 3.58	--- 196
01046800	South Branch Carra-bassett River at Bigelow, Me.	Lat 45°04'45", long 70°19'03", at bridge in State Highway 27, 3,000 ft southeast of Bigelow.	14.2	1964-71	5-04-71	7.74	952
01048100	Pelton Brook near Anson, Me.	Lat 44°45'58", long 69°54'32", on wing-wall of abandoned highway bridge just downstream from State Highway 43, 3,600 ft upstream from mouth and 2.4 miles southwest of Anson.	14.1	1965-71	4-05-71 5-04-71	a5.06 4.86	--- 413
01049100	Hall Brook at Thorndike, Me.	Lat 44°34'52", long 69°16'50", at culvert in State Highway 139, 0.2 mile northwest of Thorndike and 0.3 mile upstream from mouth.	5.23	1964-71	2-15-71	3.90	94
01049700	Gardiner Pond Brook at Dresden Mills, Me.	Lat 44°06'29", long 69°43'21", 15 ft upstream from culvert in town road from Dresden Mills to Head Tide, 600 ft upstream from mouth and in the northeast section of the village of Dresden Mills.	8.19	1965-71	2-15-71	4.26	110
ANDROSCOGGIN RIVER BASIN							
01050900	Four Ponds Brook near Houghton, Me.	Lat 44°49'55", long 70°42'08", 25 ft upstream from culvert in State Highway 17, 5,000 ft upstream from mouth and 6.8 miles north of Houghton.	3.41	1964-71	5-11-71	4.60	57

a Affected by backwater from ice.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Annual maximum discharge at first stage partial record stations during water year 1972 continued							
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
ANDROSCOGGIN RIVER BASIN--Continued							
01055300	Bog Brook near Buckfield, Me.	Lat 44°15'57", long 70°18'58", 15 ft upstream from culvert in State Highway 117, 900 ft upstream from mouth and 3 miles southeast of Buckfield.	10.5	1964-71	5-04-71	7.32	203
PRESUMPSHOT RIVER BASIN							
01062700	Patte Brook near Bethel, Me.	Lat 44°20'41", long 70°47'32", 15 ft upstream from culvert in town road between State Highway 5 and West Bethel, 1,800 ft upstream from mouth, and 4.5 miles south of Bethel.	5.35	1965-71	5-04-71	4.89	225
JONES CREEK BASIN							
01064200	Mill Brook near Old Orchard Beach, Me.	Lat 43°32'40", long 70°23'31", on abutment of dismantled bridge, 75 ft upstream from culvert in Portland Avenue, 1.7 miles upstream from mouth and 2 miles northwest of Old Orchard Beach.	2.23	1965-71	5-04-71	2.38	48
SACO RIVER BASIN							
01066100	Pease Brook near Cornish, Me.	Lat 43°47'19", long 70°45'58", 5 ft upstream from culvert in State Highway 25, 1,200 ft upstream from mouth and 2 miles southeast of Cornish.	4.62	1965-71	2-15-71 5-04-71	a3.32 3.00	--- 98
LITTLE RIVER BASIN							
01069700	Branch Brook near Kennebunk, Me.	Lat 43°22'44", long 70°34'56", on wing-wall of culvert in State Highway 9-A, 2.1 miles west of Kennebunk, and 3.3 miles upstream from mouth.	10.7	1965-71	4-14-71	3.10	140

a Affected by backwater from ice.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1971

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
DENNY'S RIVER BASIN						
Dennys River	Atlantic Ocean	Lat 45°02'21", long 67°21'28", Washington County, just downstream from Meddybemps Lake dam, and at Meddybemps, Me.	-----	-----	8-18-71	61.3
KENNEBEC RIVER BASIN						
West Outlet Stream	Kennebec River	Lat 45°39'06", long 69°44'43", Somerset County, just downstream from West Outlet dam of Moosehead Lake, and near Rockwood, Me.	-----	(many)	10-14-70 11-18-70 4-28-71 6-25-71 9-03-71	65.3 47.6 37.9 73.8 50.6
Austin Stream	Kennebec River	Lat 45°03'25", long 69°53'10", Somerset County, at mouth, at Bingham, Me.	-----	-----	3-05-71 3-05-71 9-14-71 9-14-71	79.4 77.0 83.1 80.0

PART 2. WATER QUALITY RECORDS

WATER QUALITY RECORDS
NORTH ATLANTIC SLOPE BASINS
ST. CROIX RIVER BASIN

01021000 St. Croix River at Baring, Maine

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

DRAINAGE AREA.--1,370 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 27.0°C Aug. 9; minimum, freezing point on many days during December through April.

Extremes, 1959-71.--Water temperatures: Maximum, 30.5°C July 28, 1963; minimum, freezing point on many days during winter months.

REMARKS.--Recorder inoperative Dec. 13-22. Discharge records unpublished.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.0	6.5	6.0	3.5	2.0	0	0	0	0	0	0
2	14.5	13.5	6.5	6.0	3.0	2.0	0	0	0	0	0	0
3	14.5	14.0	6.0	6.0	3.0	2.0	0	0	0	0	0	0
4	14.5	14.0	6.0	5.5	2.0	1.0	0	0	0	0	0	0
5	14.0	13.5	6.0	6.0	1.0	0.5	0.5	0	0	0	0	0
6	14.0	13.0	6.0	5.5	0.5	0.5	0	0	0	0	0	0
7	14.0	12.0	6.0	5.5	0.5	0	0	0	0	0	0	0
8	14.0	13.0	6.0	5.0	0.5	0	0	0	0	0	0	0
9	15.0	12.0	5.5	5.0	0.5	0.5	0	0	0	0	0	0
10	13.5	13.0	5.5	4.5	0.5	0.5	0	0	0	0	0	0
11	14.0	13.5	5.5	5.0	0.5	0.5	0	0	0	0	0	0
12	14.0	13.5	5.5	5.0	0.5	0.5	0	0	0	0	0	0
13	14.5	13.5	5.5	5.0	---	---	0	0	0	0	0	0
14	14.0	14.0	5.5	5.0	---	---	0.5	0	0	0	0	0
15	14.5	14.0	5.0	5.0	---	---	0.5	0	0	0	0	0
16	14.0	12.0	5.5	5.0	---	---	1.0	0	0	0	0	0
17	12.0	10.5	5.5	5.0	---	---	1.5	0	0	0	0	0
18	10.5	10.0	5.5	5.0	---	---	1.0	0	0	0	0	0
19	10.5	9.5	5.0	4.5	---	---	1.0	0	0	0	0	0
20	10.0	9.5	4.5	4.0	---	---	1.0	0	0	0	0	0
21	10.0	9.5	5.0	4.5	---	---	0.5	0	0	0	0	0
22	9.5	8.5	5.0	4.5	---	---	1.5	0	0	0	0	0
23	8.5	8.5	5.0	5.0	1.0	0	0.5	0.5	0	0	0	0
24	8.5	8.5	5.0	4.5	1.0	0	1.0	0.5	0	0	0	0
25	8.5	8.5	4.5	4.0	0	0	0.5	0	0	0	0	0
26	8.5	8.0	4.0	3.5	0	0	0.5	0	0	0	0	0
27	8.0	7.0	3.5	3.5	0	0	1.0	0	0	0	0	0
28	8.0	7.0	3.5	3.0	0	0	0.5	0.5	0	0	0	0
29	7.0	6.5	3.0	3.0	0	0	0.5	0.5	---	---	0	0
30	7.0	6.5	3.0	3.0	0	0	0.5	0	---	---	0	0
31	6.5	6.0	---	---	0	0	0	0	---	---	0	0

01021000 St. Croix River at Baring, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0	0	7.0	6.5	19.0	16.5	24.0	21.0	26.0	23.5	20.5	18.0
2	0	0	8.5	7.0	19.5	17.0	23.5	21.5	24.5	23.0	21.0	17.0
3	0.5	0	9.0	8.0	19.0	17.0	23.5	21.5	25.0	23.5	21.5	18.0
4	0	0	8.5	8.0	20.5	17.0	23.5	21.0	24.0	23.5	22.0	19.0
5	0.5	0	8.5	8.0	19.0	17.0	24.0	20.5	24.5	22.0	21.0	19.0
6	0	0	9.0	8.5	19.5	17.0	24.5	20.5	25.0	21.5	20.0	18.0
7	0	0	9.0	8.5	19.0	17.0	24.0	21.5	25.5	22.0	19.0	18.0
8	0	0	9.5	9.0	19.0	17.0	24.0	22.0	25.0	22.0	21.0	18.0
9	1.0	0	10.0	9.5	18.0	17.0	23.0	22.0	27.0	23.0	21.0	19.0
10	1.0	0.5	10.5	10.0	19.0	17.0	24.5	22.0	26.5	23.5	21.0	18.0
11	0.5	0.5	11.5	10.5	19.5	17.0	24.0	22.0	26.0	24.0	21.0	18.0
12	1.0	0.5	13.5	11.5	19.5	16.5	24.0	22.0	24.5	23.5	19.5	18.5
13	1.0	0.5	13.5	13.0	19.5	17.0	24.0	21.0	25.5	21.5	18.5	18.0
14	1.5	1.0	15.0	13.5	18.5	18.0	21.5	21.0	25.5	23.0	18.5	18.0
15	1.0	1.0	15.0	13.5	19.5	16.5	23.5	21.0	24.0	22.0	20.0	18.5
16	1.5	1.0	14.5	14.0	20.0	18.0	24.5	20.5	23.0	21.0	21.5	19.0
17	1.0	1.0	14.0	13.5	20.5	18.5	23.5	21.0	24.5	20.5	20.5	18.5
18	1.5	1.0	15.0	13.5	21.5	18.5	24.0	21.5	24.0	21.5	19.5	18.5
19	2.0	1.5	16.5	14.5	22.0	19.0	24.0	21.0	23.5	21.0	19.0	17.0
20	2.0	2.0	17.0	14.5	23.5	20.5	23.0	21.0	22.0	21.0	19.0	17.0
21	3.0	2.0	18.0	15.5	24.5	21.0	24.0	21.0	24.0	21.5	19.0	18.0
22	3.0	3.0	17.0	16.5	25.0	22.0	24.5	22.0	24.5	21.0	19.5	16.0
23	3.0	3.0	16.5	16.0	25.5	23.0	24.5	21.5	22.0	20.0	19.0	16.0
24	4.0	3.0	19.0	15.5	25.0	23.5	25.0	23.0	20.0	18.5	18.5	16.0
25	4.5	4.0	16.0	15.5	25.5	23.5	25.5	23.5	21.0	18.5	17.0	15.5
26	5.0	4.5	16.5	15.5	24.5	23.5	25.5	23.5	22.0	18.5	16.5	15.5
27	5.0	4.5	16.0	15.5	24.5	23.0	24.0	23.5	21.0	18.5	16.5	14.5
28	6.0	5.0	16.0	15.0	24.5	21.5	25.5	23.5	20.0	19.0	17.0	14.5
29	6.0	6.0	18.0	15.0	22.0	21.5	25.0	23.5	21.5	19.0	16.0	15.5
30	6.5	6.0	18.0	15.5	24.0	21.0	24.0	23.0	21.0	19.0	17.0	15.5
31	---	---	18.0	16.5	---	---	24.5	23.0	21.0	18.5	---	---

CHEMICAL ANALYSES OF MINOR ELEMENTS IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE	ARSENIC (AS)	CADMIUM (CD)	CHROMIUM (CR)	COBALT (CO)	LEAD (PB)	MERCURY (DISS) (HG)	MERCURY (TOTAL) (HG)	ZINC (ZN)
OCT. 20...	1070	20	22	0	4	890	.5	.5	230
APR. 28...	8090	0	1	0	0	9	.5	.5	10

DENNY'S RIVER BASIN

01021200 Denny's River at Denny'sville, Maine

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, temperature recorder at gaging station on right bank just upstream from railroad bridge, 0.9 mile upstream from Cathance Stream, and 1 mile west of Denny'sville.

DRAINAGE AREA.--92.4 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1958 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 26.0°C July 1, 7, 8; minimum, freezing point on many days during December to April.

EXTREMES, 1968-71.--Water temperatures: Maximum, 27.5°C July 29, 1959, July 29, 30, 1970; minimum, freezing point on many days during winter months.

REMARKS.--Recorder inoperative Oct. 1-20, April 1 to June 16.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	5.0	5.0	3.0	2.0	0	0	0	0	0	0
2	---	---	5.0	5.0	2.0	1.5	0	0	0	0	0	0
3	---	---	5.0	5.0	2.0	1.0	0	0	0	0	0	0
4	---	---	5.0	5.0	2.0	0.5	0	0	0	0	0	0
5	---	---	5.0	4.5	2.0	0	0.5	0	0	0	0	0
6	---	---	4.5	4.5	0.5	0	0.5	0	0	0	0	0
7	---	---	4.5	4.0	1.0	0.5	0	0	0	0	0	0
8	---	---	4.0	4.0	1.5	0	0	0	0	0	0	0
9	---	---	4.0	4.0	1.5	0	0	0	0	0	0	0
10	---	---	4.0	4.0	1.0	0.5	0	0	0	0	0	0
11	---	---	4.0	4.0	0.5	0.5	0	0	0	0	0	0
12	---	---	4.5	4.0	0.5	0.5	0	0	0	0	0	0
13	---	---	4.5	4.5	1.0	0.5	0	0	0	0	0	0
14	---	---	4.5	4.5	0.5	0.5	0	0	0	0	0	0
15	---	---	4.5	4.5	0.5	0.5	0	0	0	0	0	0
16	---	---	4.5	4.5	1.0	0.5	0	0	0	0	0	0
17	---	---	4.5	4.0	1.0	0	0	0	0	0	0	0
18	---	---	4.0	4.0	0	0	0	0	0	0	0	0
19	---	---	4.0	4.0	0	0	0	0	0	0	0	0
20	---	---	4.0	4.0	0	0	0	0	0.5	0	0	0
21	6.0	5.5	4.0	3.5	0	0	0	0	0.5	0.5	0	0
22	6.0	5.5	4.5	4.0	0	0	0	0	0.5	0.5	0	0
23	6.5	6.0	4.5	4.0	0	0	0.5	0	0.5	0.5	0	0
24	8.0	6.5	4.5	4.5	0	0	0	0	0.5	0.5	0	0
25	9.0	8.0	4.5	3.5	0	0	0	0	0.5	0.5	0	0
26	8.0	7.0	3.5	3.0	0	0	0.5	0	0.5	0.5	0	0
27	7.0	6.5	3.0	3.0	0	0	0.5	0	0.5	0	0	0
28	6.5	5.5	3.0	3.0	0	0	0.5	0	0	0	0	0
29	6.0	5.0	3.0	3.0	0	0	0	0	---	---	0	0
30	5.5	5.0	3.0	3.0	0	0	0	0	---	---	0	0
31	5.0	5.0	---	---	0	0	0	0	---	---	0	0

01021200 Dennys River at Dennysville, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	26.0	22.0	24.5	19.5	21.5	19.0
2	---	---	---	---	---	---	24.5	23.0	24.5	19.0	20.5	18.5
3	---	---	---	---	---	---	24.5	23.0	20.5	19.0	20.5	18.5
4	---	---	---	---	---	---	24.5	22.0	20.0	19.5	20.5	19.5
5	---	---	---	---	---	---	24.5	22.0	20.5	19.5	23.0	20.0
6	---	---	---	---	---	---	24.5	22.0	21.0	19.5	21.5	20.0
7	---	---	---	---	---	---	26.0	23.0	21.0	19.5	20.5	19.5
8	---	---	---	---	---	---	26.0	24.0	21.5	20.0	20.5	19.5
9	---	---	---	---	---	---	24.0	23.0	22.0	20.0	21.0	19.5
10	---	---	---	---	---	---	25.0	22.0	23.5	21.0	20.0	19.0
11	---	---	---	---	---	---	25.0	23.0	25.5	21.0	20.0	19.0
12	---	---	---	---	---	---	24.5	23.0	23.5	21.0	20.0	18.0
13	---	---	---	---	---	---	24.0	21.0	23.0	20.5	18.5	16.5
14	---	---	---	---	---	---	21.0	18.0	23.5	20.5	18.5	16.0
15	---	---	---	---	---	---	20.0	18.0	21.5	20.0	16.5	16.0
16	---	---	---	---	---	---	22.0	19.0	20.5	19.5	18.0	16.0
17	---	---	---	---	20.5	19.0	23.5	20.5	23.0	19.5	19.5	17.0
18	---	---	---	---	21.0	19.5	23.5	20.5	23.0	20.0	18.0	16.5
19	---	---	---	---	21.5	20.0	23.5	20.5	22.0	20.5	16.5	16.0
20	---	---	---	---	22.0	21.0	22.0	20.5	21.5	20.0	16.0	15.5
21	---	---	---	---	23.5	21.0	21.0	19.5	20.5	20.0	16.5	16.0
22	---	---	---	---	22.0	21.5	21.5	19.5	23.0	20.0	16.5	15.5
23	---	---	---	---	23.0	21.5	23.0	20.0	21.5	20.0	16.5	15.5
24	---	---	---	---	23.5	22.0	24.0	20.0	20.0	19.5	16.0	15.5
25	---	---	---	---	24.0	22.0	24.5	20.5	20.5	18.5	16.0	15.0
26	---	---	---	---	23.5	22.0	23.5	20.5	20.5	18.5	15.5	14.0
27	---	---	---	---	24.5	21.5	22.0	20.5	20.5	18.5	15.0	13.5
28	---	---	---	---	24.0	21.5	22.0	20.5	20.0	19.0	13.5	12.0
29	---	---	---	---	22.0	21.0	23.0	20.5	20.5	18.5	13.5	13.5
30	---	---	---	---	23.0	21.0	23.0	20.0	21.0	19.5	14.5	13.5
31	---	---	---	---	---	---	22.0	19.0	22.0	19.0	---	---

PENOBSCOT RIVER BASIN

01034500 Penobscot River at West Enfield, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, temperature recorder at gaging station on left bank at downstream side of highway bridge, 1,000 feet downstream from Piscataquis River and 1 mile southwest of West Enfield.

DRAINAGE AREA.--6,670 sq mi (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1971.

Water temperatures: July 1966 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum 24.5°C June 23, 24; minimum, freezing point on many days during December through April.

EXTREMES, 1966-71.--Water temperatures: Maximum, 27.0°C July 29, 30, 1970; minimum, freezing point on many days during winter months.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SiO ₂)	AMM- ONIA (NH ₄)	NITE- RITE (NO ₂)	CAL- CIUM (CA)	MAG- NE- SIUM (MG)	SODIUM (NA)	PO- TAS- SIUM (K)	BICAR- BONATE (HCO ₃)	CAR- BONATE (CO ₃)	SUL- FATE (SO ₄)	CHLO- RIDE (CL)	FLUO- RIDE (F)
OCT. 13...	6050												
NOV. 9...	8380	3.4	.15	.01	6.7	.9	2.6	.4	16	0	12	3.5	.1
DEC. 22...	6000												
JAN. 26...	6000												
MAR. 4...	11000	4.0	.24	.03	6.0	.9	4.5	.5	19	0	12	3.7	.1
MAR. 25...	11700												
APR. 21...	43000												
MAY 20...	20200	3.0	.14	.01	4.3	.9	2.1	.2	15	0	7.4	2.0	.0
JUNE 28...	4850												
JULY 22...	4400												
AUG. 24...	4610	2.8	.13	.02	4.9	1.4	2.6	.6	15	0	11	1.7	.1
SEPT. 22...	5250												

DATE	NITRATE (NO ₃)	PHOS- PHATE (PO ₄)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C)	HARD- NESS (CA,MG)	NON- CAR- BONATE HARD- NESS	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	COLOR	DIS- SOLVED OXY- GEN	BIO- OXY- GEN DE- MAND	TOTAL COLI- FORM (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL- ONIES PER 100 ML)
OCT. 13...						66	7.3		6.0	4.1	1100	100
NOV. 9...	.3	.09	40	20	7	68	7.4	35	7.8	4.3	2000	43
DEC. 22...						80	6.8		10.0	2.0	880	110
JAN. 26...						115	6.4		9.0	3.9	21000	300
MAR. 4...	.4	.73	44	19	3	93	6.5	80	10.2	2.5	720	170
MAR. 25...						110	6.4		11.4	1.8	900	29
APR. 21...						107	6.3		11.8	1.1	310	12
MAY 20...	.0	.12	54	14	2	48	6.4	37	9.0	3.0	1000	29
JUNE 28...						50	6.4		7.0	2.9	7600	14
JULY 22...						50	6.5		5.1	1.8	1400	5
AUG. 24...	.0	.00		18	6	54	6.3		6.2		9800	79
SEPT. 22...						57	6.5		5.5	0.6	5100	100

01034500 Penobscot River at West Enfield, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.5	6.5	6.5	1.5	1.5	0.5	0.5	1.0	0.5	0	0
2	14.5	14.5	6.5	6.5	1.5	1.5	0.5	0.5	0.5	0.5	0	0
3	14.5	14.5	6.5	6.5	1.5	1.5	0.5	0.5	1.0	0.5	0	0
4	15.0	14.5	6.5	6.0	1.5	0.5	0.5	0.5	1.0	0.5	0	0
5	15.0	14.5	6.0	5.5	0.5	0.5	0.5	0	0.5	0.5	0	0
6	14.5	13.5	5.5	5.0	0.5	0.5	0	0	1.0	0.5	0	0
7	13.5	13.5	5.0	5.0	0.5	0.5	0	0	0.5	0.5	0	0
8	14.0	13.5	5.0	5.0	0.5	0	0	0	0.5	0	0	0
9	15.0	14.0	5.0	5.0	0	0	0	0	0	0	0	0
10	15.0	14.5	5.0	4.5	0	0	0.5	0	0.5	0	0	0
11	15.0	15.0	6.0	5.0	0	0	0.5	0.5	0.5	0	0	0
12	15.0	15.0	6.5	6.0	0	0	0.5	0.5	0	0	0	0
13	15.5	15.0	6.5	6.0	0	0	1.0	0.5	0	0	0	0
14	16.0	15.5	6.0	6.0	0	0	1.0	1.0	0	0	0	0
15	16.0	16.0	6.0	5.5	0	0	1.0	1.0	0	0	0	0
16	16.0	14.5	5.5	5.5	0	0	1.0	1.0	0	0	0	0
17	14.5	11.5	5.5	5.5	0	0	1.0	1.0	0	0	0	0
18	11.5	10.5	5.5	5.5	0	0	1.5	1.0	0	0	0	0
19	10.5	10.0	5.5	5.0	0	0	1.5	1.0	0	0	0	0
20	10.0	8.5	5.0	5.0	0	0	1.5	1.0	0	0	0	0
21	8.5	8.0	5.5	5.0	0	0	1.0	1.0	0.5	0	0	0
22	8.0	8.0	5.5	5.0	0.5	0	1.0	1.0	0	0	0	0
23	8.5	8.0	5.0	5.0	0.5	0.5	1.0	0.5	0	0	0	0
24	9.0	8.5	5.0	4.5	0.5	0.5	0.5	0.5	0	0	0.5	0
25	9.0	9.0	4.5	3.5	0.5	0	0.5	0.5	0	0	0	0
26	9.0	9.0	3.5	2.0	0	0	0.5	0.5	0	0	0	0
27	9.0	8.5	2.0	1.5	0	0	0.5	0.5	0	0	0	0
28	8.5	8.0	2.0	1.5	0	0	0.5	0.5	0	0	0	0
29	8.0	7.0	1.5	1.5	0.5	0	0.5	0.5	---	---	0	0
30	8.0	7.0	1.5	1.5	0.5	0.5	0.5	0.5	---	---	0	0
31	7.0	6.5	---	---	0.5	0.5	0.5	0.5	---	---	0	0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.5	0	5.0	4.5	17.0	16.0	23.0	21.0	24.0	23.0	19.5	18.5
2	0.5	0	6.0	5.0	18.0	16.5	23.0	23.0	24.0	23.5	19.0	18.5
3	0	0	6.0	5.5	18.0	16.5	23.0	21.5	23.5	23.0	19.0	18.5
4	0	0	5.5	5.5	17.0	15.5	22.0	21.5	23.0	22.0	20.0	19.0
5	0	0	5.5	4.5	17.0	16.5	22.0	21.5	22.0	21.5	21.5	20.0
6	0	0	4.5	4.5	17.0	16.0	23.0	22.0	21.5	21.5	21.0	19.5
7	0	0	5.5	4.5	18.5	17.0	23.5	23.0	22.0	21.5	19.5	18.5
8	0.5	0	6.5	5.5	18.5	18.0	23.5	23.0	22.0	22.0	19.0	18.0
9	1.0	0.5	6.5	6.5	19.0	18.0	23.5	22.0	23.5	22.0	20.5	19.0
10	1.0	0.5	8.0	6.5	18.5	18.0	22.0	22.0	24.0	23.5	20.5	20.0
11	1.0	1.0	10.0	8.0	18.5	17.0	23.0	21.5	24.0	24.0	20.0	20.0
12	1.5	1.0	10.5	10.0	19.5	18.5	23.0	21.5	24.0	23.5	20.0	19.0
13	1.5	1.5	10.5	10.5	20.0	19.0	22.0	21.5	23.5	22.0	19.0	18.0
14	1.5	1.0	11.0	10.5	20.0	18.5	21.5	20.5	22.0	22.0	18.0	18.0
15	1.5	1.0	11.0	10.0	18.5	17.0	20.5	20.0	22.0	20.5	19.0	18.0
16	1.0	1.0	10.5	10.5	19.5	18.5	21.5	20.5	20.5	19.5	20.0	19.0
17	1.0	1.0	10.5	10.5	21.0	19.5	22.0	21.5	20.5	19.5	20.0	19.0
18	1.0	1.0	11.5	10.5	21.5	21.0	23.0	22.0	21.5	20.5	19.0	18.5
19	1.5	1.0	13.0	11.5	23.0	21.5	23.0	21.0	22.0	21.5	18.5	17.0
20	2.0	1.5	14.0	13.0	24.0	23.0	21.5	21.0	22.0	22.0	17.0	16.5
21	3.0	2.0	14.5	14.0	24.0	23.5	22.0	21.0	23.0	22.0	17.0	17.0
22	3.0	3.0	14.5	14.0	24.0	22.0	22.0	22.0	23.0	22.0	17.0	17.0
23	3.0	3.0	14.0	14.0	24.5	24.0	22.0	22.0	22.0	20.5	17.0	17.0
24	3.5	3.0	14.0	13.0	24.5	23.5	23.0	22.0	20.5	17.0	17.0	16.5
25	3.5	3.5	14.0	12.0	23.5	22.0	23.5	23.0	17.0	16.0	16.5	15.5
26	3.5	3.5	13.0	12.0	23.0	22.0	23.5	23.5	19.0	17.0	15.5	14.5
27	3.5	3.5	13.5	13.0	22.0	21.5	23.5	23.0	19.5	19.0	14.5	14.5
28	4.0	3.5	13.5	13.0	22.0	21.0	23.0	22.0	19.5	18.5	14.5	14.0
29	4.0	3.5	15.0	13.5	21.5	20.5	23.0	23.0	19.5	19.0	14.5	14.5
30	4.5	4.0	15.5	14.5	21.0	20.0	23.5	23.0	20.0	19.5	14.5	14.5
31	---	---	16.5	15.5	---	---	23.5	23.5	20.0	19.5	---	---

01034500 Penobscot River at West Enfield, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

UNITS OF MEASUREMENT: URANIUM, MICROGRAMS PER LITER, RADIUM, AS RADIUM-226, IN PICOCURIES PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER.

DATE	URANIUM (uG/L)	DISSOLVED SOLIDS			SUSPENDED SEDIMENT	
		RADIUM (PC/L)	GROSS A (uG/L)	GROSS B (PC/L)	GROSS A (uG/L)	GROSS B (PC/L)
OCT. 13...	.08	.03	<.5	3.3	<.4	<.5
NOV. 9...	.07	.02	.4	2.9	.4	<.4
DEC. 22...	.15	.02	1.4	3.4	<.4	<.5
APR. 21...	.08	.03	<.4	3.3	<.4	1.1

97

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, temperature recorder at gaging station on left bank at North Whitefield, just upstream from highway bridge, and 0.5 mile downstream from Pleasant Pond Brook.

REMARKS.--Recorder inoperative Oct. 9 to Mar. 15, May 4 to June 2.

[illegible]

SHEEPSHOT RIVER BASIN

01038000 Sheepscot River at North Whitefield, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.5	8.5	8.0	---	---	28.0	24.0	23.5	21.0	19.5	19.0
2	1.5	1.0	8.5	8.5	---	---	25.0	24.0	23.0	22.0	19.0	18.5
3	1.0	0.5	8.5	8.0	17.0	16.5	24.5	23.0	24.0	22.0	19.0	18.0
4	0.5	0.5	---	---	18.0	16.0	24.5	22.0	23.0	21.5	20.0	18.5
5	1.0	0.5	---	---	18.5	16.5	25.0	23.0	21.5	21.0	20.5	19.5
6	1.0	0.5	---	---	18.5	16.5	25.5	23.5	21.5	20.5	21.0	19.5
7	1.0	0.5	---	---	19.5	17.0	26.5	24.0	21.0	20.0	19.5	19.0
8	1.5	0.5	---	---	19.0	18.0	26.5	23.5	21.5	20.5	20.0	19.0
9	1.5	1.0	---	---	19.5	18.5	26.0	24.5	23.0	21.0	21.0	19.5
10	2.0	1.5	---	---	19.5	18.5	26.0	23.0	23.5	22.0	20.5	19.5
11	2.0	1.5	---	---	19.5	18.5	25.5	23.5	23.5	22.0	20.0	19.0
12	3.0	1.5	---	---	20.0	18.5	25.0	22.0	23.0	21.5	19.5	19.0
13	3.5	3.0	---	---	21.0	20.0	24.0	21.5	22.0	21.0	19.0	18.5
14	3.5	3.0	---	---	21.0	20.0	25.0	21.5	22.0	20.5	19.0	18.0
15	3.5	3.0	---	---	21.0	20.5	24.0	21.5	21.5	21.0	19.0	18.0
16	3.5	3.0	---	---	21.5	20.5	25.0	22.0	21.0	20.0	19.5	18.5
17	3.5	3.0	---	---	23.0	21.5	24.5	22.0	21.0	20.0	19.5	19.0
18	3.5	3.0	---	---	23.5	22.0	25.5	23.0	21.0	20.0	19.0	18.5
19	5.0	3.5	---	---	24.0	22.0	24.0	23.0	21.0	20.0	18.5	18.0
20	5.0	4.5	---	---	24.5	23.0	23.5	21.5	21.0	20.5	18.5	18.0
21	5.5	4.5	---	---	25.0	23.5	24.0	21.5	21.5	20.0	18.0	17.0
22	5.5	5.0	---	---	25.0	23.5	23.5	21.0	21.5	20.5	18.0	17.0
23	5.5	5.0	---	---	25.0	24.0	24.0	21.5	21.5	20.0	18.0	16.5
24	6.0	5.0	---	---	24.0	23.5	24.0	21.5	20.0	19.5	18.0	16.5
25	6.0	6.0	---	---	25.5	23.0	24.0	22.0	20.0	19.0	16.5	16.0
26	6.0	6.0	---	---	23.0	21.0	24.5	22.0	20.0	19.0	16.0	15.5
27	7.0	6.0	---	---	23.5	21.5	23.5	23.0	19.5	19.0	16.0	15.0
28	8.0	7.0	---	---	24.0	22.0	24.5	21.5	19.5	19.0	15.5	15.0
29	8.0	7.0	---	---	23.5	22.0	23.5	21.5	19.5	19.0	15.5	15.0
30	8.0	7.0	---	---	25.0	22.0	24.0	19.5	19.0	19.0	16.5	15.5
31	---	---	---	---	---	---	21.5	20.5	19.5	19.0	---	---

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, at gaging station on right bank at Bingham, 200 feet downstream from highway bridge, 0.5 mile downstream from Austin Stream, and 1.8 miles downstream from Wyman Dam.

DRAINAGE AREA.--2,720 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1971.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SILICA (SIO2)	AMM-ONIA (NH4)	CAL-CIUM (CA)	MAG-NES-IUM (MG)	SODIUM (NA)	PO-TAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	SUL-FATE (SO4)	CHLO-RIDE (CL)	FLUO-RIDE (F)
OCT. 14...	6140	14.0											
NOV. 9...	6110	8.0	3.5	.08	5.0	.8	.8	.3	10	0	8.0	2.5	.0
JAN. 6...	7380	1.0											
JAN. 26...	4790	1.0											
MAR. 4...	5440	0.0	3.4	.09	4.0	.9	1.2	.3	12	0	6.4	1.3	.0
MAR. 25...	6880	1.0											
APR. 21...	9690	1.5											
MAY 20...	7260	6.5	3.7	.08	3.5	.8	.9	.2	9	0	6.0	1.0	.0
JUNE 28...	7030	18.5											
JULY 22...	5760	20.5											
AUG. 24...	5110	20.0	2.5	.05	3.5	.9	1.0	.3	12	0	5.3	.9	.0
SEPT. 22...	3500	18.5											

DATE	NIT-RATE (NO3)	NITE-RITE (NO2)	PHOS-PHATE (PO4)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C)	HARD-NESS (CA, MG)	NON-CAR-BONATE HARD-NESS	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH	COLOR	DIS-SOLVED OXY-GEN	BIO-OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)
OCT. 14...							42	6.5		8.2	.9	53	2
NOV. 9...	.5	.01	.12	38	16	8	42	7.5	15	9.4	1.2	10	7
JAN. 6...							83	6.8		12.0	1.2	17	-
JAN. 26...							63	6.5		12.4	0.4	22	1
MAR. 4...	.7	.01	.00	40	24	4	73	6.7	17	12.0	0.9	1	0
MAR. 25...							70	6.4		10.6	0.1	11	0
APR. 21...							50	6.9		11.4	0.4	4	2
MAY 20...	.4	.01	.04	44	12	5	37	6.3	33	11.3	0.5	133	0
JUNE 28...							35	6.3		7.4	1.1	160	
JULY 22...							35	6.6		6.5	0.8	67	0
AUG. 24...	.0	.00	.03		12	3	35	6.6		8.1	1.6	120	15
SEPT. 22...							37	6.6		7.4	3.5	680	2

ANDROSCOGGIN RIVER BASIN

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, temperature recorder at gaging station on left bank at upstream side of highway bridge on U.S. Route 2, 1,800 feet upstream from mouth, and 0.4 mile west of Gilead.

DRAINAGE AREA.--69.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1967 to September 1971.
Water temperatures: July 1964 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 28.5°C June 30; minimum, freezing point on many days during December to April.

EXTREMES, 1964-71.--Water temperatures: Maximum, 29.0°C one day in August 1965; minimum, freezing point on many days during winter months.

REMARKS.--Recorder inoperative Oct. 26 to Nov. 18

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- CHARGE (CFS)	SILICA (SIO4)	IRON (FE) (UG/L)	MAN- GAN- ESE (MN) (UG/L)	CAL- CIUM (CA)	MAG- NE- SIUM (MG)	SODIUM (NA)	PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	SULFATE (SO4)	CHLO- RIDE (CL)	FLUO- RIDE (F)
OCT. 12A..	28												
OCT. 27...	151												
NOV. 30...	93												
JAN. 27...	40	6.8			2.3	.4	1.3	.3	6	0	5.1	.1	.0
MAR. 24...	2760	5.5	20	0	2.0	.4	1.2	.5	8	0	6.0	.5	.1
APR. 22B..	720		170										
MAY 26...	424	3.7	50	0	1.0	.4	.7	.3	3	0	3.5	.6	.0
JULY 28...	22	5.8	70	0	1.5	.7	1.7	.7	7	0	4.9	.5	.1
SEPT. 28C..	21	6.6	100	0	2.0	.7	1.2	.4	8	0	3.9	.2	.2

DATE	NIT- RATE (NO3)	NIT- RITE (NO2)	PHOS- PHATE (PO4)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C)	HARD- NESS (CA,MG)	NON CAR- BONATE HARD- NESS	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	COLOR	DIS- SOLVED OXY- GEN	BIO- OXY- GEN DE- MAND	TOTAL COLI- FORM (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL- ONIES PER 100 ML)
OCT. 12A..													
OCT. 27...							29	7.1		11.0			
NOV. 30...							32	6.7		11.8	.4	60	1
JAN. 27...	.1	.01	.01	19	7	2	53	6.7	5	13.0	.2	92	1
MAR. 24...	.1	.01	.09	22	7	0	35	6.4	6	12.8	2.1	68	
APR. 22B..													
MAY 26...	.1	.00		17	4	2	36	6.3	9	9.8	.3	78	10
JULY 28...	.0		.09		7	1	24	7.0		8.9	.6	40	3
SEPT. 28C..	.0	.0	.03		8	1	20	6.8		10.6	.4	25	0

NOTE.--Units below in micrograms per liter.

A CHROMIUM 0; LEAD 25; ZINC 10; COBALT 1; ARSENIC 0; MERCURY (Dissolved) <.5; MERCURY (Total) .6.

B LEAD 8; ZINC 70; COBALT 1; ARSENIC 0; CADMIUM 1; NICKEL 4; COPPER 80.

C CHROMIUM 2; LEAD 5; ZINC 0; ARSENIC 6; CADMIUM 1; NICKEL 8; COPPER 0; SILVER 0; SELENIUM 8; MERCURY (Total) .5.

01054200 Wild River at Gilead, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	---	---	1.5	1.0	0	0	1.0	0.5	0	0
2	11.5	10.5	---	---	3.0	1.0	0	0	0.5	0.5	0	0
3	12.0	10.5	---	---	2.0	1.0	0	0	1.0	0.5	0	0
4	11.5	10.5	---	---	1.0	0	0	0	1.0	0	0	0
5	10.5	9.5	---	---	0	0	0	0	0.5	0	0	0
6	11.0	8.0	---	---	0	0	0	0	0	0	0	0
7	14.0	10.0	---	---	0	0	0	0	0	0	0	0
8	14.5	11.5	---	---	0	0	0	0	0	0	0	0
9	15.0	11.5	---	---	0	0	0.5	0	0	0	0	0
10	15.0	11.5	---	---	0	0	0.5	0	0	0	0.5	0
11	15.0	14.0	---	---	0	0	0	0	0	0	0.5	0.5
12	17.0	14.5	---	---	0	0	0	0	0	0	0.5	0.5
13	16.0	15.0	---	---	0	0	0.5	0	0	0	0.5	0
14	17.0	15.0	---	---	0	0	0.5	0.5	0	0	0.5	0
15	15.5	15.0	---	---	0	0	0.5	0	0	0	0	0
16	15.0	9.5	---	---	0	0	0.5	0	0	0	0	0
17	9.5	6.0	---	---	0	0	0.5	0.5	0	0	0	0
18	7.0	4.5	---	---	0	0	0.5	0.5	0	0	0	0
19	7.0	5.5	3.0	2.0	0	0	1.0	0.5	0	0	0	0
20	7.0	4.0	3.5	2.0	0	0	1.0	0.5	0	0	0	0
21	6.0	4.0	5.0	3.5	0	0	0.5	0.5	0	0	0	0
22	8.0	6.0	4.0	3.5	0.5	0	0.5	0	0	0	0	0
23	9.0	8.0	4.5	3.5	0.5	0	0.5	0.5	0	0	0	0
24	10.5	9.0	3.5	1.0	0	0	0.5	0	0	0	0	0
25	10.0	9.0	1.0	0.5	0	0	0	0	0	0	0	0
26	---	---	1.0	0.5	0	0	0	0	0	0	0	0
27	---	---	0.5	0.5	0	0	0.5	0	0	0	0.5	0
28	---	---	1.0	0.5	0	0	0.5	0.5	0	0	0.5	0
29	---	---	1.5	1.0	0	0	0.5	0.5	---	---	0.5	0
30	---	---	2.0	1.5	0	0	0.5	0	---	---	0	0
31	---	---	---	---	0	0	0.5	0	---	---	0	0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0	0	4.5	1.0	15.5	10.0	26.0	21.5	24.0	18.5	19.5	14.0
2	0	0	3.0	1.0	16.0	10.0	24.0	20.0	22.0	20.0	20.0	14.0
3	0	0	2.0	0.5	14.5	12.0	23.0	17.0	20.5	19.0	21.5	15.0
4	1.5	0	1.5	0.5	15.0	12.0	24.5	16.0	19.0	17.0	24.5	19.0
5	3.0	0	4.0	1.0	16.0	11.0	25.5	18.0	19.5	15.5	25.0	20.5
6	3.5	0	5.0	1.0	16.5	10.5	25.0	19.5	21.0	17.0	23.5	19.0
7	1.0	0	5.5	1.0	19.5	12.0	26.5	20.0	21.5	18.0	22.0	18.0
8	3.0	0	5.0	1.0	18.0	14.5	26.5	19.5	24.0	16.5	24.5	19.0
9	3.5	0	3.5	2.0	17.0	13.0	25.5	20.0	25.5	19.0	21.5	18.0
10	4.0	1.0	6.0	1.5	16.5	11.5	26.5	19.0	26.5	20.0	21.0	15.5
11	4.0	0	7.0	2.0	16.0	11.0	23.5	18.5	24.5	20.5	19.5	15.5
12	4.0	0	6.0	3.0	18.0	13.0	23.0	15.5	23.0	18.5	19.0	18.0
13	2.0	0	4.5	4.0	20.0	14.5	21.5	15.5	23.0	15.0	18.0	16.5
14	1.0	0.5	6.5	3.0	19.0	15.5	21.5	17.0	24.5	17.0	16.5	15.0
15	3.0	0	8.0	2.0	18.0	14.5	23.5	16.5	20.0	17.0	18.0	15.0
16	1.5	0	6.0	4.5	20.0	13.5	22.0	17.0	23.0	15.0	19.0	15.5
17	---	---	8.0	5.0	21.5	15.0	24.0	18.5	24.0	16.0	18.0	16.0
18	---	---	10.0	5.0	21.0	16.0	23.5	18.5	25.5	18.5	17.0	15.0
19	---	---	10.5	5.5	23.0	16.5	20.5	17.0	26.5	19.5	16.0	13.5
20	---	---	11.0	6.0	23.5	18.5	19.5	17.0	24.5	21.0	14.5	13.5
21	---	---	9.0	6.5	21.5	19.5	23.0	15.5	25.0	20.0	16.0	14.5
22	---	---	8.0	6.0	25.0	18.5	23.5	16.5	24.5	19.5	16.0	12.0
23	3.0	0.5	---	---	23.5	20.0	23.5	17.0	21.5	16.0	14.5	11.0
24	5.0	0.5	---	---	23.5	19.5	21.5	18.5	20.0	15.0	13.5	11.0
25	3.5	1.0	---	---	23.0	18.5	22.0	13.0	21.0	14.5	13.0	9.5
26	4.0	1.0	---	---	23.5	19.5	24.5	19.0	21.0	17.0	14.0	9.5
27	4.5	1.0	9.5	8.5	22.0	17.0	24.5	20.5	18.5	16.5	14.0	9.5
28	3.5	1.0	10.5	8.0	24.5	16.5	24.5	18.0	16.5	15.5	13.0	11.0
29	2.0	1.0	14.0	8.0	23.0	18.0	21.5	18.5	19.5	15.5	16.0	12.0
30	4.0	1.0	14.0	10.0	28.5	19.5	20.0	19.0	20.0	17.0	16.0	13.5
31	---	---	15.0	11.0	---	---	20.5	18.5	20.5	15.5	---	---

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, at gaging station on right bank 1.5 miles downstream from Little Androscoggin River and 2.1 miles downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1971.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	TEMPER- ATURE (DEG C)	SILICA (SIO2)	AMM- ONIA (NH4)	CAL- CIUM (CA)	MAG- NE- SIUM (MG)	SODIUM (NA)	PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	SUL- FATE (SO4)	CHLO- RIDE (CL)	FLUO- RIDE (F)
OCT.													
15A..	3240	15.0											
NOV.													
30...	5900	2.0	5.6	.02	6.1	.9	7.1	.7	14	0	13	9.0	.1
JAN.													
5...	4650	0.0											
JAN.													
27...	4350	0.0											
FEB.													
23...	5400	0.0	6.7	.35	6.5	.8	8.5	.8	18	0	10	12	.2
MAR.													
24...	6080	0.5											
APR.													
22...	27300	6.0											
MAY													
19...	9940	13.5	0.0	.31	5.0	.8	5.4	.6	16	0	4.2	6.8	.0
JUNE													
29...	4580	22.5											
JULY													
21...	4210	23.5											
AUG.													
25...	3580	22.0	4.8	.59	8.5	1.0	18	1.0	35	0	18	16	.0
SEPT.													
23...	4230	19.5											

DATE	NIT- RATE (NO3)	NIT- RITE (NO2)	PHOS- PHATE (PO4)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C)	HARD- NESS (CA,MG)	NON- CAR- BONATE HARD- NESS	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	COLOR	DIS- SOLVED OXY- GEN	BIO- OXY- GEN DE- MAND	TOTAL COLI- FORM (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL- ONIES PER 100 ML)
OCT.													
15A..							114	6.2		6.4		75000	8500
NOV.													
30...	.6	.03	.55	51	18	7	113	7.2	21	11.2	3.0	32000	2900
JAN.													
5...							121	6.6		12.4	3.6	51000	7700
JAN.													
27...							125	6.4		10.8	7.6	30000	1900
FEB.													
23...	.9	.04	.34	72	20	5	114	6.3	27	10.4	3.7	23000	2000
MAR.													
24...							117	6.3		12.2	2.2	5800	470
APR.													
22...							107	6.2		11.6	1.4	4100	380
MAY													
19...	.4	.03	.18	51	16	3	108	6.5	27	10.0	3.8	12000	1500
JUNE													
29...							113	6.4		4.6	4.2	24000	4500
JULY													
21...							114	6.7		5.0	1.6	37000	6000
AUG.													
25...	.4	.03	.25		25	0	115	6.6		5.6	6.8	20000	3400
SEPT.													
23...							113	6.6		5.5	2.6	89000	5000

Note.--Units below are in micrograms per liter.

A LEAD 8, ZINC <10, COBALT 2, ARSENIC 10, CADMIUM 5, CHROMIUM 1, MERCURY (Total) <.5.

CHEMICAL ANALYSES OF FIELD-MEASURED SAMPLES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

STATION NUMBER	STATION NAME AND LOCATION	DRAINAGE AREA (SQ MI)	DATE SAMPLED	TIME	DISCH- ARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C)	PH	TEMPER- ATURE (°C)	DISS- OLVED OXYGEN (MG/L)
ST. JOHN RIVER BASIN									
01010500	St. John River at Dickey, Me.	2,700	08-13-71	1345	1,570	64	7.2	20.0	9.4
01011000	Allagash River near Allagash, Me.	1,250	08-13-71	1415	636	80	7.7	20.0	9.1
01013500	Fish River near Fort Kent, Me.	871	08-13-71	1600	395	69	7.8	21.5	7.5
01014000	St. John River at Fort Kent, Me.	5,690	08-13-71	1530	3,030	80	7.4	21.5	8.3
01015800	Aroostook River near Masardis, Me.	888	08-13-71	1800	95	65	7.6	20.0	8.8
01016500	Machias River near Ashland, Me.	330	08-13-71	1720	223	65	7.6	21.0	8.3
01017900	Marley Brook near Ludlow, Me.	1.47	08-13-71	1915	0.26	114	7.6	14.5	8.8
ST. CROIX RIVER BASIN									
01019000	Grand Lake Stream near Grand Lake Stream, Me.	224	07-14-71	1145	198	26	6.8	19.5	8.2
01020000	St. Croix River near Baileyville, Me.	1,320	07-14-71	1115	1,450	31	7.0	19.0	8.3
DENNY'S RIVER BASIN									
01021200	Dennys River at Dennysville, Me.	92.4	07-13-71	1400	133	33	7.1	22.5	8.3
NARRAGUAGUS RIVER BASIN									
01022500	Narraguagus River at Cherry- field, Me.	232	07-13-71	1245	85	33	7.0	22.0	7.8
UNION RIVER BASIN									
01023000	W. Br. Union River at Amherst, Me.	148	07-13-71	1100	35	33	6.7	20.0	8.6
PENOBSCOT RIVER BASIN									
01031500	Piscataquis River near Dover- Foxcroft, Me.	297	07-27-71	1000	62	67	6.9	23.0	6.0
01031600	Morrison Brook near Sebec Corners, Me.	4.37	07-27-71	1050	0.44	113	8.3	20.0	7.5
01033500	Pleasant River near Milo, Me.	324	07-27-71	1115	109	38	7.0	22.0	8.0
01036500	Kenduskeag Stream near Kenduskeag, Me.	178	07-27-71	1330	16	115	8.1	23.0	7.5
SHEEPS COT RIVER BASIN									
01038000	Sheeps cot River at North Whitefield, Me.	148	07-19-71	1300	201	55	7.3	23.5	7.3
KENNEBEC RIVER BASIN									
01042500	Kennebec River at The Forks, Me.	1,589	07-26-71	1045	199	33	7.2	22.0	8.6
01045000	Dead River at The Forks, Me.	872	07-26-71	1115	2,330	31	6.9	22.5	8.3
01047000	Carrabassett River near North Anson, Me.	354	07-26-71	1245	88	52	7.2	24.0	7.7
01048000	Sandy River near Mercer, Me.	514	07-26-71	1500	112	84	8.5	25.0	8.4
01049300	No. Br. Tanning Brook near Manchester, Me.	0.93	07-19-71	1130	0.15	78	7.1	19.0	6.8
ANDROSCOGGIN RIVER BASIN									
01055500	Nezinscot River at Turner Center, Me.	171	07-20-71	1715	77	65	7.2	22.5	7.0
01057000	Little Androscoggin River near South Paris, Me.	76.2	07-20-71	1630	37	59	7.2	22.5	9.2
ROYAL RIVER BASIN									
01060000	Royal River at Yarmouth, Me.	142	07-15-71	1000	64	109	7.5	21.0	8.3
SACO RIVER BASIN									
01066000	Saco River at Cornish, Me.	1,298	07-20-71	1330	741	42	6.7	22.0	7.8
01066500	Little Ossipee River near South Limington, Me.	161	07-20-71	1300	74	40	6.7	23.0	6.7

Note.--All samples taken at stream gaging stations. See Part 1 for complete description of location including latitude and longitude.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

LOCATION	DATE	LOCAL NUMBER	TOWN	DEPTH OF WELL (FT)	WATER- BEARING MATERI- AL A/	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	SILICA (SIO2)	CAL- CIUM (CA)
471357N0683815.1	10-22-70	AR 588	FORT KENT	4	T	245	6.3	9.0	9.0	33
471420N0683820.1	10-22-70	AR 647	FORT KENT	188	R	193	7.9		9.6	28
471658N0683507.1	10-21-70	AR 676	FORT KENT	64	R	149	6.7	10.0	7.3	19
470427N0674849.1	10-21-70	AR 621	HAMLIN	143	R	316	8.2		6.3	47
472110N0682045.1	10-21-70	AR 592	MADAWASKA	70	F	317	7.7		11	54

LOCATION	DATE	MAG- NE- SIUM (MG)	SODIUM (NA)	PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	SUL- FATE (SO4)	CHLO- RIDE (CL)	FLUO- RIDE (F)	NIT- RATE (NO3)	TOTAL IRON (FE) (UG/L)
471357N0683815.1	10-22-70	4.2	3.0	1.5	12	0	43	17	.1	30	40
471420N0683820.1	10-22-70	2.9	7.2	.3	102	0	8.2	3.7	.2	.12	530
471658N0683507.1	10-21-70	2.5	3.3	.6	36	0	15	9.5	.1	6.4	50
470427N0674849.1	10-21-70	7.4	2.7	.3	166	0	19	4.8	.0	2.6	160
472110N0682045.1	10-21-70	3.5	3.4	.3	138	0	36	2.5	.1	6.8	60

LOCATION	DATE	TOTAL MAN- GANESE (MN) (UG/L)	DISS- OLVED SOLIDS (RESI- DUE AT 180 C)	HARD- NESS (CA,MG)	NON- CAR- BONATE HARD- NESS	AMM- ONIA (NH4)	NIT- RITE- (NO2)	COLOR
471357N0683815.1	10-22-70	0	207	100	90	.00	.00	0
471420N0683820.1	10-22-70	180	120	82	0	.00	.01	0
471658N0683507.1	10-21-70	0	103	53	24	.00	.02	0
470427N0674849.1	10-21-70	0		148	12	.00	.01	0
472110N0682045.1	10-21-70	0	204	149	36	.00	.01	0

A/ WATER-BEARING MATERIAL: F, SHALE; R, SAND AND GRAVEL; T, TILL.

PART 3. GROUND WATER RECORDS

ANDROSCOGGIN COUNTY

440227N0701241.1. (An 1) Ernest L. Libby. Auburn. Dug unused water-table well in marine deposits, diam 4 ft, depth 15 ft, cased with rock to 15 ft. Lsd about 220 ft above msl. MP top of granite well curb at lsd. Highest water level, 3.30 June 16, 1960; lowest, 10.23 Nov. 16, 1965. Records available: 1959-71.

1970		Jan. 15	4.65	June 28	4.79
Oct. 15	7.85	28	4.35	July 15	4.80
28	5.23	Apr. 15	3.86	28	5.27
Nov. 16	4.41	28	3.99	Aug. 14	5.43
28	3.92	May 14	3.88	28	6.09
Dec. 15	3.97	28	3.84	Sept. 14	7.06
1971		June 15	4.47	28	7.34
Jan. 2	4.45				

AROSTOOK COUNTY

464619N0682804.1. (Ar 1) H. L. Stevens. Portage Lake. Driven unused water-table well in sand, diam 1.5 in, depth 8 ft (formerly 11 ft), cased with iron pipe 0-8, screened 8-11. Lsd about 930 ft above msl. MP top of pipe, 2.0 ft above lsd. Highest water level, overflowed Dec. 21, 1957; lowest, 14.0 (estimated) Nov. 30, 1955. Has been dry frequently. Records available: 1942-71.

1970		1971		May 14	2.16
Oct. 1	5.37	Jan. 14	6.70	27	3.10
14	2.53	30	7.30	June 14	5.30
31	2.70	Feb. 15	5.48	28	6.40
Nov. 15	4.30	28	5.60	July 14	e7.9
Dec. 1	3.04	Mar. 15	6.35	28	e8.3
15	4.80	30	4.50	Aug. 14	e8.8
31	5.90	Apr. 15	1.40	28	e9.2
		27	1.00	Sept. 30	6.86

e Water-level estimated.

460657N0675122.1. (Ar 3) Ralph W. Williams. Houlton. Drilled unused artesian well in bedrock, diam 6 in, depth 90 ft, cased with steel. Lsd about 370 ft above msl. MP hole in top of pump base at lsd. Highest water level, 10.93 Apr. 15, 1960; lowest, 25.91 Oct. 15, 1960. Records available 1958-71.

1970		Feb. 28	e16.00	June 28	15.45
Oct. 28	13.94	Mar. 29	14.94	July 29	16.99
Dec. 28	15.94	Apr. 27	11.12	Aug. 31	e18.03
1971		May 26	13.03	Sept. 25	18.98
Jan. 27	16.27				

e Water-level estimated.

CUMBERLAND COUNTY

435453N0700136.1. (C 26) Brunswick and Topsham Water District. Brunswick. Drilled unused artesian well in stratified glacial drift, diam 12 in, depth 101 ft, cased with steel 0-81, screened 81-101 ft. Lsd 139 ft above msl. MP base of water-level recorder at lsd. Highest water level, 30.61 May 25, 1971; lowest, 36.41 Feb. 10, 1966. Records available: 1958-71.

Mean water level for the day, from recorder graph.

1970		Feb. 28	32.34	June 20	30.75
Oct. 5	31.79	Mar. 10	32.32	30	30.75
31	31.77	15	32.27	July 5	30.80
Nov. 5	31.72	20	32.07	10	30.83
10	31.88	25	32.06	15	30.86
15	31.92	31	31.95	20	30.92
Dec. 31	32.18	Apr. 5	31.58	25	30.95
1971		10	31.29	31	30.95
Jan. 5	32.26	15	31.07	Aug. 6	30.90
10	32.32	20	30.96	10	30.92
15	32.35	25	30.94	15	30.99
20	32.39	30	30.93	20	30.97
25	32.45	May 5	30.78	25	31.08
30	32.43	10	30.72	31	31.08
Feb. 5	32.54	25	30.61	Sept. 5	31.12
10	32.52	31	30.62	20	31.19
15	32.44	June 5	30.63	25	31.25
20	32.35	10	30.70	30	31.29
25	32.33	15	30.73		

HANCOCK COUNTY

444950N0682206.1. (H 1) Norman Salisbury. Amherst. Dug unused water-table well in glacial drift, diam 18 in, depth 14 ft, cased with rock to 14 ft. Lsd about 330 ft above msl. MP top of 2x4 timber at lsd. Highest water level, 2.10 May 29, 1961; lowest, 17.8 (estimated) Sept. 30, 1965. Has been dry frequently. Records available: 1943-71.

1970		Jan. 27	7.10	June 13	7.50
Oct. 15	12.50	Feb. 17	4.50	30	9.50
27	7.40	27	5.10	July 12	10.50
Nov. 11	7.00	Mar. 11	5.50	27	11.50
27	5.00	27	4.70	Aug. 12	12.10
Dec. 11	6.10	Apr. 12	3.50	26	12.80
30	7.20	26	4.80	Sept. 11	12.80
1971		May 12	5.00	26	13.00
Jan. 12	7.40	27	6.40		

KENNEBEC COUNTY

441849N0694420.1. (K 52) Walter Panek. Augusta. Dug unused water-table well in glacial till, diam 36 in, depth 22 ft. Lsd about 220 ft above msl. MP top of floor of shelter house at lsd. Highest water level, 3.46 Nov. 30, 1963; lowest, 14.29 Oct. 31, 1963. Records available: 1960-71.

Mean water level for the day, from recorder graph.

1970		Feb. 20	4.81	June 5	6.40
Oct. 31	9.94	25	5.09	10	6.60
Nov. 5	7.32	28	4.84	15	6.75
10	5.62	Mar. 5	4.68	20	7.10
30	4.38	10	5.04	25	7.40
Dec. 5	4.58	15	5.09	30	7.29
10	4.93	20	4.31	July 5	7.47
15	5.34	25	4.64	10	7.73
20	5.57	31	4.04	15	8.09
25	5.79	Apr. 5	3.92	20	8.42
31	6.04	10	4.17	25	8.66
1971		15	4.32	31	9.00
Jan. 5	6.19	20	4.57	Aug. 5	8.98
10	6.23	25	4.97	25	8.99
15	6.29	30	5.60	31	9.30
20	6.42	May 5	4.07	Sept. 5	9.40
25	6.72	10	4.92	10	9.59
31	5.93	15	5.42	15	9.77
Feb. 5	5.99	20	5.79	20	9.47
10	5.97	25	5.95	25	9.02
15	4.21	31	6.15	30	8.75

442023N0695538.1. (K 88) A. Allen Stackpole. Winthrop. Drilled unused artesian well in bedrock, diam 6 in, depth 298 ft, cased with steel. Lsd about 350 ft above msl. MP top of pipe at lsd. Highest water level, 35.34 Apr. 29, 1970; lowest, 59.86 Oct. 31, 1962. Records available: 1962-71.

1970		1971		June 28	43.70
Oct. 30	51.17	Apr. 28	40.68	Aug. 2	44.80
Nov. 30	47.38	May 27	41.53	30	46.11

OXFORD COUNTY

444637N0705523.1. (O 400) Union Water Power Co. Middle Dam, Lower Richardson Lake. Dug domestic water-table well in glacial till, diam 24 in, depth 15 ft, cased with concrete pipe to 15 ft. Lsd about 1,450 ft above msl. MP top of casing, 2.0 ft above lsd. Highest water level, 0.2 May 20, 1945, Apr. 30, 1961, Apr. 16, 1967; lowest, 12.2 Oct. 9, 16, 23, 1966. Records available: 1944-71.

	1970		Jan.	24	7.0	May	30	2.5
Oct.	4	7.6		31	7.1	June	6	3.4
	11	6.4	Feb.	7	7.9		13	4.3
	18	5.5		14	7.4		20	6.0
	25	4.8		21	8.1		27	7.0
Nov.	1	6.0		28	7.0	July	4	7.0
	8	5.8	Mar.	7	7.2		11	7.4
	15	5.8		14	7.1		18	8.3
	22	5.5		21	5.8		25	8.8
	29	4.9		28	5.8	Aug.	1	9.6
Dec.	6	4.2	Apr.	4	5.2		8	9.9
	13	4.8		11	3.8		15	9.8
	20	5.2		18	1.6		22	10.5
	27	5.7		25	0.7		29	10.7
	1971		May	2	0.8	Sept.	5	10.8
Jan.	3	6.4		9	1.9		12	10.8
	10	6.7		16	2.2		19	11.9
	17	6.7		23	3.5		26	10.8

SOMERSET COUNTY

444219N0695458.1. (Sm 1) J. Harrison Farrand. Mercer. Dug unused water-table well in sand, diam 5 ft, cased with rock to 14 ft. Lsd about 270 ft above msl. MP top of horizontal 2x4 timber at NE corner of well cover, 0.4 ft above lsd. Highest water level, 3.75 Apr. 13, 1960; lowest, 14.1 (estimated) Nov. 30, 1952. Records available: 1942-71. Recording gage removed Dec. 11, 1970 and reinstalled May 27, 1971.

1970									
Oct.	5	10.54	Feb.	11	6.03	July	20	7.34	
	10	10.75		25	6.73		25	7.65	
	15	10.93	Mar.	12	6.80		27	h7.72	
	20	10.98		24	5.00		31	7.97	
	25	10.81	Apr.	12	4.21	Aug.	5	8.03	
	31	10.95		25	4.43		10	8.17	
Nov.	5	11.00	May	12	4.90		15	8.33	
	10	11.08		26	5.34		20	8.55	
	15	11.13		31	5.34		25	8.80	
	20	11.17	June	5	5.67		26	h8.87	
	25	9.82		10	5.93		31	8.47	
	30	8.63		15	6.18	Sept.	5	9.07	
Dec.	5	7.37		20	6.47		10	9.30	
	11	6.62		25	6.46		15	9.18	
	27	6.03		26	h6.44		20	9.33	
	1971			30	6.55		25	9.34	
Jan.	13	5.95	July	5	6.73		26	h9.48	
	26	6.18		10	6.98		30	9.63	
				15	7.24				

Note.--Water levels when recorder was in operation are from recorder graph and are mean for the day except as noted.

h Instantaneous measurement, made manually.

WASHINGTON COUNTY

444240N0672835.1. (W 1) Julian A. Johnson. Machias. Drilled artesian stock well in bedrock, diam 6 in, depth 54 ft, cased with steel. Lsd about 140 ft above msl. MP top of casing at lsd. Highest water level, 5.29 Apr. 16, 1961; lowest, 13.95 Feb. 2, 1959. Records available: 1958-71.

1970	Feb. 1	10.35	June 14	11.45	
Oct. 14	11.35	27	9.95	26	11.90
30	9.75	Mar. 15	9.66	July 15	12.05
Nov. 16	10.90	30	10.08	Aug. 3	12.05
27	9.70	Apr. 15	6.60	14	11.82
Dec. 14	9.65	26	7.90	29	12.20
31	e10.80	May 14	9.30	Sept. 14	12.18
1971	27	10.00	28	11.32	
Jan. 14	11.35				
e Water level estimated.					

e Water level estimated.

WASHINGTON COUNTY (Continued)

444955N0670005.1. (W 2) Lubec Water District. Lubec. Driven unused artesian well in glacial sand and gravel, diam 2.5 in, depth 52 ft, cased with iron pipe 0-42, screened 42-52. Lsd about 50 ft above msl. MP top of casing at lsd. Highest water level, 9.31 June 14, 1960; lowest, 19.89 Nov. 12, 1965. Records available: 1958-71.

1970	Feb. 25	17.96	June 28	11.32	
Oct. 27	18.37	Mar. 28	18.32	July 28	12.47
Nov. 27	18.46	Apr. 27	12.16	Aug. 29	13.79
Dec. 31	e18.60	May 13	10.72	Sept. 27	14.74
1971	29	10.69			
Jan. 28	17.47				
e Water level estimated.					

e Water level estimated.

YORK COUNTY

434822N0704825.1. (Y 1) James P. Small. Cornish. Dug unused water-table well in glacial outwash, diam 36 in, depth 24 ft, cased with brick to 24 ft. Lsd about 370 ft above msl. MP mark chiseled on top of concrete well curb at lsd. Highest water level, 7.90 Apr. 16, 1952; lowest, 18.40 Nov. 14, 1948. Records available: 1943-71.

Mean water level for the day, from recorder graph.

	1970		Jan. 20	13.75	May 15	9.89
Oct.	5	15.76	25	14.17	20	10.37
	10	15.50	31	14.57	25	10.78
	15	15.39	Feb. 5	14.96	June 25	13.67
	20	15.35	10	15.05	30	13.95
	25	8.88	15	15.04	July 5	14.29
Nov.	31	10.00	20	11.35	10	14.58
	5	10.83	25	11.04	15	14.71
	10	11.80	28	11.26	20	14.97
	15	12.13	Mar. 5	10.46	25	14.66
	20	12.49	10	10.96	31	14.70
	25	12.05	15	11.27	Aug. 5	13.90
Dec.	30	11.44	20	9.36	10	12.93
	5	11.48	25	9.56	15	13.20
	10	10.78	31	9.97	20	13.65
	15	11.25	Apr. 5	8.45	25	14.50
	20	7.95	10	8.68	31	14.81
	25	9.10	15	8.30	Sept. 5	14.84
	31	10.54	20	8.57	10	15.20
	1971		25	9.01	15	15.30
Jan.	5	11.84	30	9.04	20	13.44
	10	12.51	May 5	9.02	25	13.10
	15	13.23	10	9.24	30	13.50

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