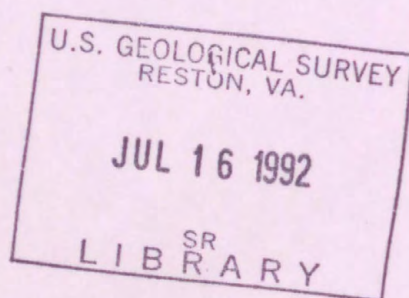
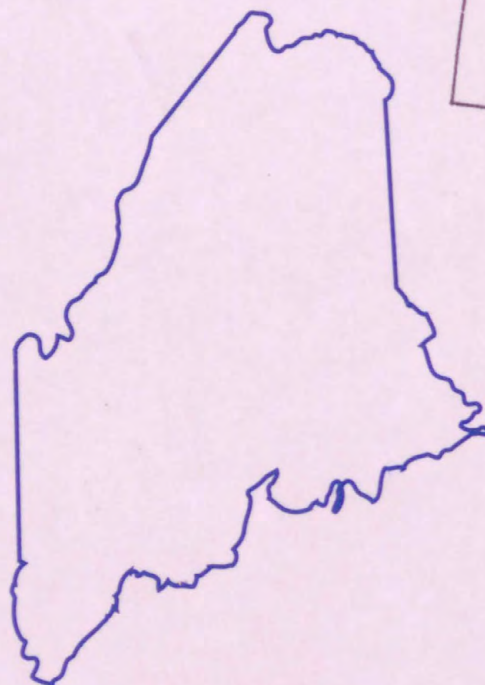


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Water Resources Data Maine Water Year 1991



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-91-1
Prepared in cooperation with the State of Maine
and with other agencies

CALENDAR FOR WATER YEAR 1991

1990

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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7	8	9	10	11	12	13								2	3	4	5	6	7	8
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28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
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1991

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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APRIL							MAY							JUNE						
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14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
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28	29	30	31				25	26	27	28	29	30	31	29	30					



Water Resources Data Maine Water Year 1991

by W.P. Bartlett, Jr., W.B. Higgins, and R.G. Lippert



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-91-1
Prepared in cooperation with the State of Maine
and with other agencies

U. S. DEPARTMENT OF THE INTERIOR

MANUEL LUJAN Jr., *Secretary*

U. S. GEOLOGICAL SURVEY

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Augusta, ME 04330

PREFACE

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

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

Andrew R. Cloutier	William J. Nichols, Jr.
Richard A. Fontaine	Joseph P. Nielsen
Gordon R. Keezer	Scott A. Olson
Robert J. Marois	Joel A. Petersen

Kenneth W. Toppin and Kenneth E. McKenna, Bow, NH, and John A. Colman, Boston, MA, reviewed portions of the report.

Gloria L. Morrill prepared the illustrations for the report.

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

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

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[Letters after station name designate type of data collected: (d) discharge, (c) chemical, (b) biological, (s) sediment, (p) physical, (m) water-quality monitor, (e) elevation, gage heights,, or contents.]

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DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

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

STATION NAME	STATION NUMBER	DRAINAGE AREA (mi ²)	PERIOD OF RECORD
St. John River Basin			
Shields Brook at the Big Black River near Seven Islands	01010100	161	1977-81
St. John River above Fish River at Fort Kent	01012500	4,790	1906-15
Clayton Stream at outlet of Clayton Lake	01012515	13.9	1982-84
Bald Mountain Brook near Bald Mountain	01012520	1.73	1980-84
Bishop Mountain Brook near Bishop Mountain	01013535	1.15	1981-84
Fish River at inlet of Fish River Lake	01012570	70.3	1982-84
St. John River at Van Buren	01015000	8,174	1908-28
Machias River near Ashland	01016500	329	1951-83
Aroostook River at Fort Fairfield	01017500	2,230	1903-10
Marley Brook near Ludlow	01017900	1.47	1964-82
Meduxnekeag River near Houlton	01018000	175	1940-82
St. Croix River Basin			
St. Croix River near Baileyville	01020000	1,315	1919-83
Machias River at Whitneyville	01021500	457	1905-09 1909-21 1929-77
East Machias River near East Machias	01022000	251	1926-26 1927-58
Pleasant River Basin			
Taylor Brook at the Great Heath	01022250	7.06	1980-82
Union River Basin			
West Branch Union River at Amherst	01023000	148	1909-19 1929-79
Garland Brook near Mariaville	01024200	9.79	1964-82
Green Lake Stream at Lakewood	01025000	47.0	1909-12 1912-13
Branch Lake Stream near Ellsworth	01026000	31.0	1909-13
Penobscot River Basin			
West Branch Penobscot River near Medway	01028000	2,115	1916-39
East Branch Penobscot River at Grindstone	01029500	1,086	1902-03 1904-06 1907-79 1979-82
Mattawamkeag River at Mattawamkeag	01031000	1,500	1902-34
Morrison Brook near Sebec Corners	01031600	4.37	1964-78
Pleasant River near Milo	01033500	324	1920-79
Passadumkeag River at Lowell	01035000	299	1915-79
Cold Stream at Enfield	01035500	28.5	1904-07
Penobscot River at Passadumkeag	01036000	7,000	1938-58
Kenduskeag Stream near Kenduskeag	01036500	178	1941-79
Kenduskeag Stream near Bangor	01037000	195	1908-19

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

STATION NAME	STATION NUMBER	DRAINAGE AREA (mi ²)	PERIOD OF RECORD
Damariscotta River Basin			
Tributary A, Little Pond near Damariscotta	0103770	0.31	1977-78
Kennebec River Basin			
Moose River near Rockwood	01039000	708	1919-25
Kennebec River at Moosehead	01041000	1,268	1919-82
Dead River near Dead River	01043500	516	1939-82
Dead River at The Forks	01045000	872	1902-07 1910-79
Austin Stream at Bingham	01046000	90.3	1913-69
Sandy River near Farmington	01047500	242	1910-15
Wilson Stream at East Wilton	01047730	45.8	1977-84
Kennebec River at Waterville	01048500	4,270	1894-35
Cold Brook near North Belgrade	01049218	0.85	1978-79
Hatchery Brook at North Belgrade	01049221	8.83	1977-79
Stony Brook near South Vassalboro	01049270	3.00	1979-80
North Branch Tanning Brook near Manchester	01049300	0.93	1963-83
Jock Stream at South Monmouth	01049396	13.7	1977-84
Androscoggin River Basin			
Ellis River at South Andover	01054300	130	1963-82
Pennesseewassee Lake Outlet at Norway	01057510	30.3	1982-83
Thompson Lake Outlet at Oxford	01058005	47.7	1975-75 1976-78 1981-82
Little Androscoggin River near Auburn	01058500	328	1940-82
Hooper Brook at Sprague Mill	01059090	8.30	1978-80
Cathance River near Topsham	01059500	36.4	1952-55
Royal River Basin			
Collyer Brook near Gray	01059800	13.8	1964-82
Saco River Basin			
Little Ossipee River near South Limington	01066500	168	1940-82
Saco River at West Buxton	01067000	1,572	1909-16 1919-40
Saco River at Salmon Falls	01067500	1,595	1938-48
Mousam River Basin			
Littlefield River at Alfred	01068980	21.6	1978-80
Mousam River near West Kennebunkport	01069500	99.0	1939-84
Piscataqua River Basin			
Salmon Falls River near South Lebanon	01072500	147	1928-69

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of specific conductance (sc), pH (pH), water temperature (wt), dissolved oxygen (do), and sediment discharge (sd) were collected and published for the record shown for each station.

Discontinued continuous-record surface-water-quality stations

Station number	Station Name		Drainage area (mi ²)	Type of record	Period of record (water years)
St. John River at Ninemile Bridge, ME	01010000	1341	sc,wt	1976-80	
St. John River at Dickey, ME	01010500	2680	sc,wt	1975-80	
St. John River at Dickey, ME	01010500	2680	sd	1976	
Allagash River near Allagash, ME	01011000	1229	sc,wt	1975-80	
Allagash River near Allagash, ME	01011000	1229	sd	1976	
St. John River above Fish River at Ft. Kent, ME	01012500	4790	sc,wt	1977-80	
St. John River at Van Buren, ME	01015000	8174	sc,wt	1979-81	
Aroostook River at Caribou, ME	01017100	1943	sc,wt	1976-81	
St. Croix River at Baring, ME	01021000	1374	wt	1960-76	
Dennys River at Dennysville, ME	01021200	92.9	wt	1960-72	
Narraguagus River at Cherryfield, ME	01022500	227	sc,wt	1978-81	
Piscataquis River near Dover-Foxcroft, ME	01031500	298	wt	1987-89	
Penobscot River at West Enfield, ME	01034500	6671	wt	1966-78	
Penobscot River at West Enfield, ME	01034500	6671	sc	1974-78	
Sheepscot River at North Whitefield, ME	01038000	145	wt	1960-76	
Sheepscot River at North Whitefield, ME	01038000	145	sc	1974-76	
Kennebec River at Bingham, ME	01046500	2715	sc,wt	1976-78	
Androscoggin River at Turner Bridge, ME	01055700	2840	sc,wt	1981	
Androscoggin River at Brunswick, ME	01059400	3434	sc,wt	1976-81	
Saco River at Cornish, ME	01066000	1293	sc,wt	1975-81	

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Maine each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Maine." This report series includes records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 51 gaging stations; stage records at 2 lakes; month-end contents at 17 lakes and reservoirs; water quality data at 13 gaging stations; water levels at 38 observation wells; and daily precipitation totals at 1 site. Locations of these sites are shown on figures 1 and 2. Additional water data were collected at various sites not involved in the systematic data-collection program, and are published as miscellaneous data. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

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

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Maine were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Part

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

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report ME-90-1." These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-Rom disc.

Additional information, including current prices, for ordering specific reports may be obtained from the District Office Chief at the address given on the back of the title page or by telephone (207) 622-8201. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

WATER RESOURCES DATA FOR MAINE, 1991

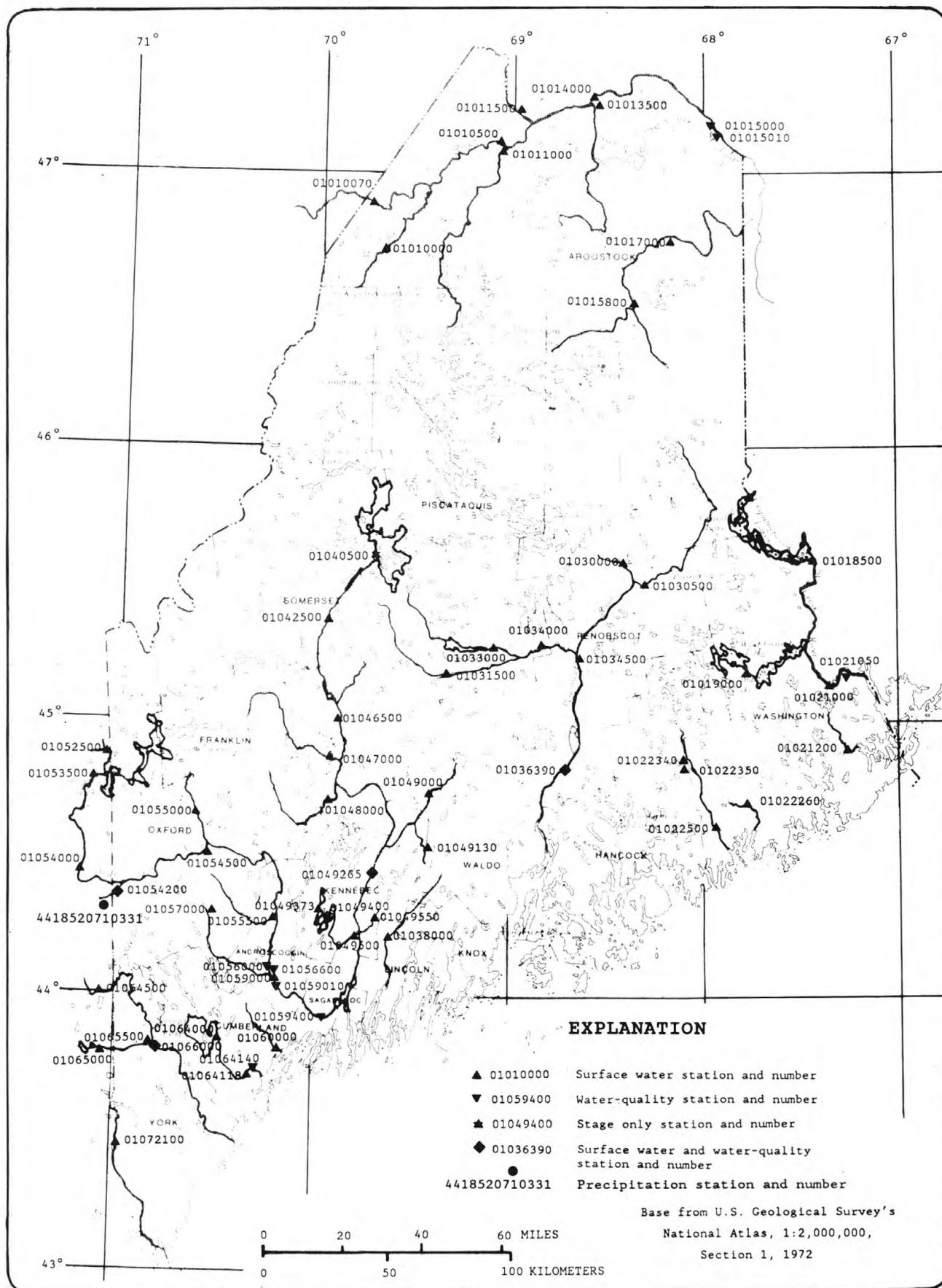


Figure 1.--Location of active surface-water data collection stations.

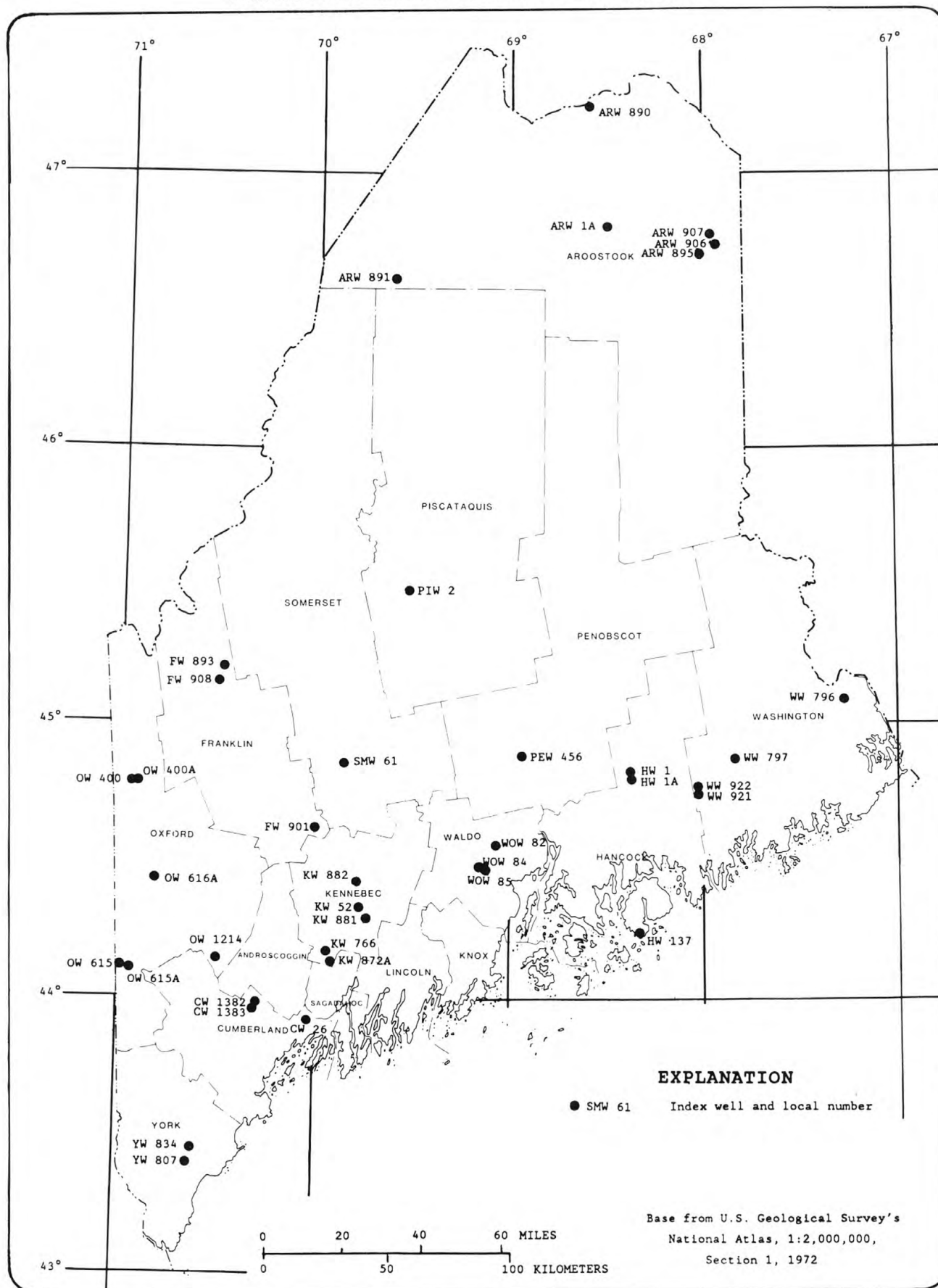


Figure 2.--Location of active ground-water data collection stations.

COOPERATION

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

Maine Department of Conservation,
C. E. Meadows, Jr., Commissioner.
Maine Department of Environmental Protection,
D. C. Marriott, Commissioner
Maine Department of Inland Fisheries and Wildlife,
W. J. Vail, Commissioner
Maine Department of Transportation,
D. F. Conners, Commissioner
Cobboossee Watershed District,
T. U. Gordon, Executive Director
Androscoggin Valley Council of Governments,
J. J. Jaworski, Executive Director
North Kennebec Regional Planning Commission,
E. Keene, Planning Director
Greater Portland Council of Governments,
J. D. Bubier, Executive Director
Penobscot Valley Council of Governments,
D. Meagher, Director
University of Maine,
P.D. Uttormark, Assistant Vice President
Northern Maine Regional Planning Commission,
R. Clark, Executive Director

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

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

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

Organizations that provided data are acknowledged in station descriptions.

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States) and records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated herein as "International gaging stations".

SUMMARY OF HYDROLOGIC CONDITIONS

Runoff for the 1991 water year was characterized by flows in the above-normal and high-normal ranges following 2 years of normal flows (above normal refers to the upper quartile of record, below normal refers to the lower quartile of record, and normal refers to the two middle quartiles). Annual runoff was in the above-normal range at 34 sites and in the high-normal range at 15 sites. Annual peak flows had less than a 2-year recurrence interval at 15 sites, a 2-year to 5-year recurrence interval at 27 sites, and a greater than 5-year recurrence interval at 6 sites. Minimum flows at 21 sites are equalled or exceeded 99 percent of the time and minimum flows at 23 sites are equalled or exceeded 90 to 98 percent of the time. The 1991 monthly and annual mean discharges and the median monthly and annual discharges for the 1951-80 reference period are shown in figure 3 for three long-term index stations. Monthly runoff conditions for Maine are summarized as follows:

October	above normal
November	normal; above normal in northern Maine
December	above normal
January	normal; above normal in northern Maine
February	normal
March	normal; above normal in eastern Maine
April	normal; above normal in northern Maine; below normal in southern Maine
May	normal; below normal in central, southern and central Maine
June	normal; below normal in coastal and northern Maine
July	below normal
August	above normal; normal in northern Maine; below normal in extreme northern Maine
September	normal; above normal in coastal, southern, and western Maine

Usable surface-water storage in seven reservoir systems in Maine totaled 118,469 million ft³ (cubic feet) at the beginning of the water year; this volume is 66 percent of capacity and 112 percent of the long-term average storage at the beginning of water year. Usable storage decreased during October, increased during November, and then began a steady seasonal decline to the 1991 water-year minimum at the end of February, when storage was 75,788 million ft³ (42 percent of capacity, and 104 percent of the long-term average storage at the end of February). Usable storage increased during April and May to the 1991 maximum of 168,174 million ft³ (94 percent of capacity and 105 percent of the long-term average storage at the end of May). Usable storage then decreased during June and July. Heavy

WATER RESOURCES DATA FOR MAINE, 1991

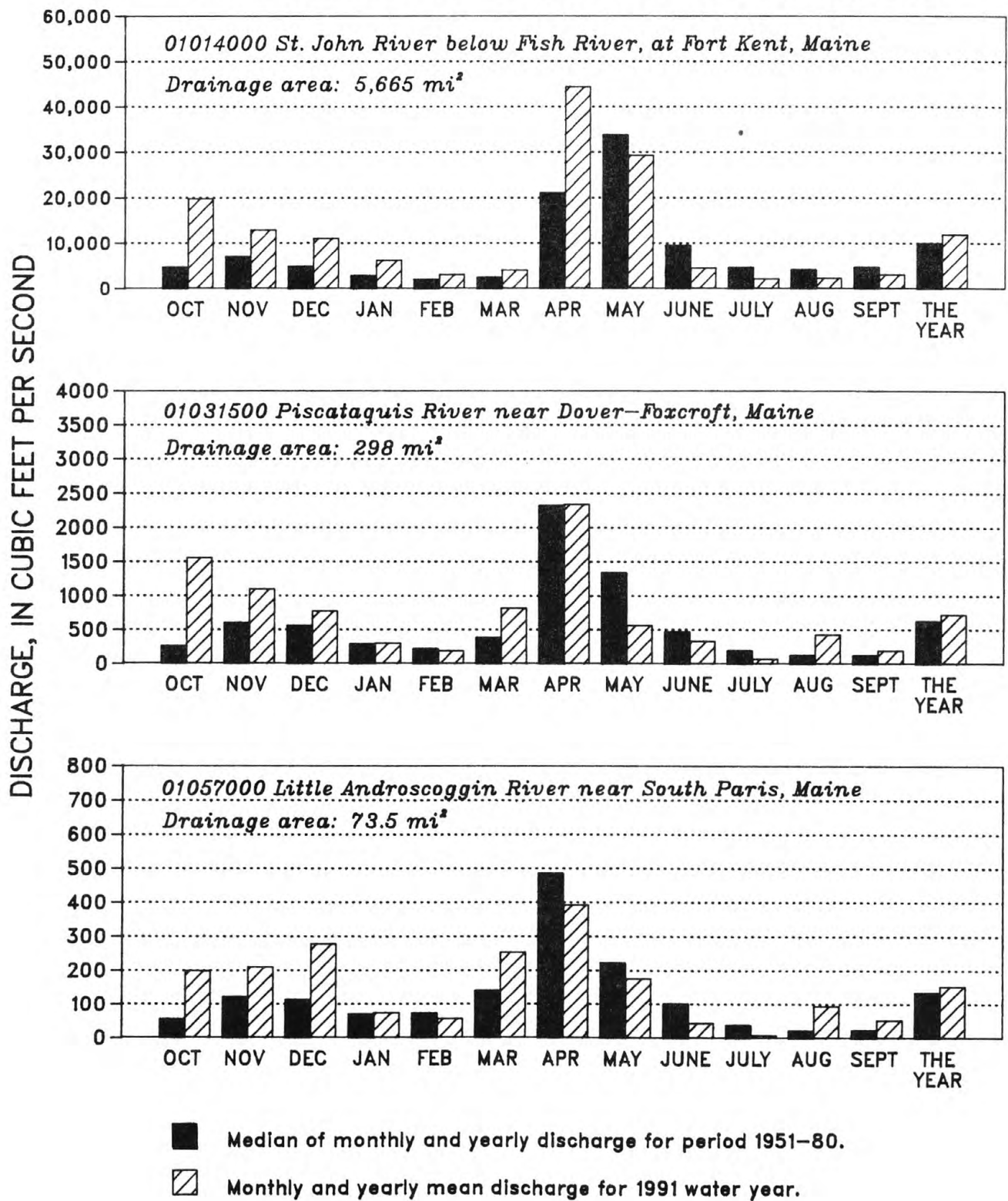


Figure 3.—Comparison of discharge at three long-term index gaging stations during 1991 water year with median discharge for period 1951-80.

precipitation associated with Hurricane Bob increased storage in August, followed by a seasonal decline in September. Usable storage at the end of the water year, was 113,349 million ft³ (63 percent of capacity and 107 percent of long-term end-of-water-year average storage).

Precipitation, as reported by the National Weather Service, ranged from 112 to 150.5 percent of median at 12 sites used to provide statewide precipitation data. Table 1 summarizes annual precipitation data at the 12 selected sites during the 1991 water year.

Table 1.-- Precipitation at selected locations in Maine for the 1991 water year

Station Location	Precipitation		Departure (inches)	Percentage of median
	Actual Oct-Sept (inches)	Median Oct-Sept (inches)		
Fort Kent	42.67	36.12	6.55	118.1
Caribou	45.69	36.59	9.10	124.9
Presque Isle	42.68	36.12	6.56	118.2
Houlton	44.96	37.20	7.76	120.9
Brassau Dam	50.74	39.29	11.45	129.1
Jackman	52.51	37.08	15.43	141.6
Woodland	51.59	46.07	5.52	112.0
Middle Dam	46.17	36.39	9.78	120.9
Rumford	53.74	43.84	9.90	122.6
Gardiner	59.45	44.36	15.09	134.0
Lewiston	54.67	45.76	8.91	119.5
Portland	65.50	43.52	21.98	150.5

Specific conductance, pH, and water temperature at the eight continuous monitoring stations in Maine were generally within the previous range for the period of daily record for individual stations. A new maximum pH of 8.0 units at the St. John River at Hamlin was recorded on July 4, 1991. A new maximum water temperature of 29.5 °C on July 20, 1991, and a new minimum dissolved oxygen concentration of 0.4 mg/l on July 29, 1991 were recorded at the Androscoggin River at North Bridge at Auburn.

The observation-well network consisted of 38 wells during the 1991 water year. One well (AR 905) was removed from the network at the beginning of the water year. Monthly ground-water levels for Maine are summarized as follows:

October	above normal; normal in eastern and southern Maine
November	above normal; normal in south central and western Maine
December	above normal
January	above normal; normal in northern, western and coastal Maine
February	normal; above normal in northern, western and southern Maine
March	above normal; normal in northern Maine, the Penobscot River basin, and in the upper Androscoggin River basin;
April	below normal in Middle Dam area normal; above normal along western border with Canada and eastern coastal
May	normal; below normal in northwestern and central coastal Maine
June	normal; below normal in northern, western and coastal Maine
July	normal; below normal in northern, western and coastal Maine
August	above normal; normal in western-central Maine below normal in western Maine
September	normal; above normal in central and southern Maine

Record month-end ground-water levels were recorded during the water year at the following wells where data have been collected for at least 10 years. Levels at the Portage well were record month-end highs in October, November, June, July and August. Clayton Lake reported record month-end high water levels in October, April and June. Acadia Park water levels were record month-end-highs in December, January, July and August. Amherst had a new month-end-high water level in October. Augusta had a new end-of-month high water level in December. Litchfield #2 water levels were record month-end-highs in December, May, June, July and August. Middle Dam had a record month-end-high water level in July. Fryeburg water levels were record month-end-highs in October, December, August and September. Kenduskeag had a record month-end-high water level in January.

SPECIAL NETWORKS AND PROGRAMS

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

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

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1990 water year that began October 1, 1989, and ended September 30, 1990. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water level data. The locations of the stations and wells where the data were collected are shown in figures 1 and 2. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers

for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

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

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 01031500, which appears just to the left of the station name, includes the two-digit Part number "01" plus the six-digit downstream-order number "031500." The Part number designates the major river basins; for example, Part "01" is for the North Atlantic Slope basins.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure

number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 3 below.)

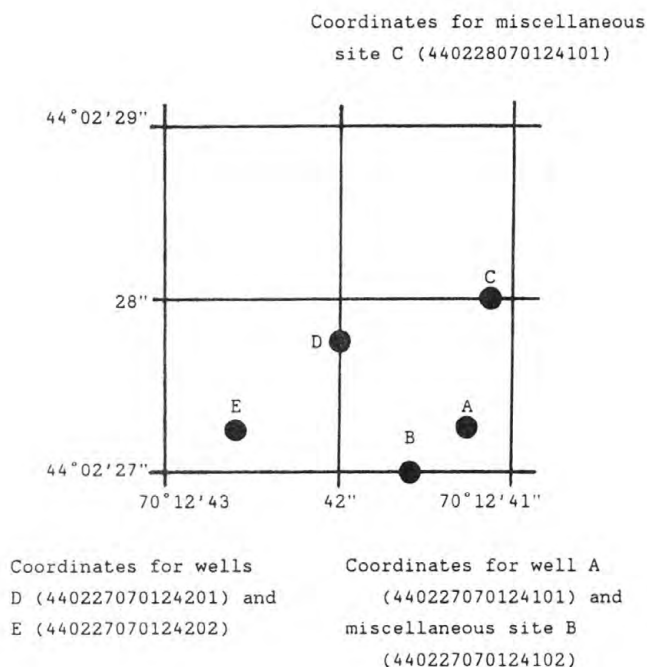


Figure 4.--System for numbering wells and miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

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

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or

"Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

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

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

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

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

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float

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

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available.

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

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

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

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

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

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present

information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, and purpose and use of the reservoir.

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

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

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

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

EXTREMES FOR CURRENT YEAR.--

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

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

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

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

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and

minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line head "CFSM"); or in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS ____ - ____," BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS ____ - ____," will consist of all of the station record within the specified water years, inclusive, including months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated

using partial water years.

The data or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrence may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.--The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period. At least 5 complete years of record must be available before this statistic is published for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of

annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic).

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF (CFSM).--Indicates 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 for the year.

ANNUAL RUNOFF (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow for the designated period.

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

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

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

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents to

reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

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

Records of Surface-Water Quality

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

Classification of records

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

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and

specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 1.

Arrangement of Records

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

On-site Measurements and Sample Collection

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

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

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of

solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are usually obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Water-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

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

Water temperature

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

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

Sediment

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

Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

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

Data Presentation

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

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

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

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

same comments apply.

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

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

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

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

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

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

Remark Codes

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

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
*	Analysis from the 1990 water year
LS	Lost sample

Records of Ground-Water Levels

Only water-level data from a national network of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in Maine are shown in figure 2.

Data Collection and Computation

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

Tables of water-level data are presented by counties arranged in alphabetical order. The primary identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, composed of an abbreviation of the county name and sequential number.

Water-level records are obtained from direct measurements with a steel tape, from the punched tape of a water-stage recorder, or from the electronic water-stage recorders. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Daily-mean water levels are

reported for wells equipped with recording gages.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot.

Data Presentation

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

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

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

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

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

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on) and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface

datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

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

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

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

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

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum. All direct measurements obtained with steel tape are listed. For wells equipped with recorders, tables of daily-mean water levels are published. The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the daily-mean table. Because all values are not published for wells with recorders (hourly values are not published but are available in the files of the Geological Survey) the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

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

hydrograph.

Records of Ground-Water Quality

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

Data Collection and Computation

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

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

Data Presentation

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

the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductance, sediment concentrations, sediment discharges, and ground-water levels.
- * Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical,

physical, biological, and radio-chemical characteristics of both surface and ground

water.

- * Ground-water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page). A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

DEFINITION OF TERMS

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

Acre-foot (AC-FT, acre-ft) is the quantity of

water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

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

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

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C plus or minus 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge

relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

Cubic feet per second per square mile [(ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

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

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

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

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

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

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

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

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

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

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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

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

Micrograms per liter (UG/L, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

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

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain

information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

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

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

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

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

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	.0 - 64.0	Sieve

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

before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

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

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

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

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

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

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

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

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water

surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027.

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

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

Solute is any substance that is dissolved in water.

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

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by

topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

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

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

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends, thus, the year ending September 30, 1991, is called the "1991 water year."

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

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

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. Scott Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathburn, N. Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels of streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by Richard L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. J. Fishman and L. C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.

- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

SURFACE-WATER RECORDS

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
*	Analysis from the 1990 water year
LS	Lost sample

NOTE: Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ngL). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analyses. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

ST. JOHN RIVER BASIN

LOCATION.--Lat 46° 42' 00", long 69° 42' 59", Aroostook County, Hydrologic Unit 01010001, on right bank in T12 R15, 0.1 mi downstream from Ninemile Brook, 0.4 mi downstream from site of Ninemile Bridge, and 11 mi northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,341 mi².

PERIOD OF RECORD.--Discharge: October 1950 to current year.

Chemical analyses: Water years 1976, 1981.

Specific conductance: April 1975 to September 1980.

Water temperatures: April 1975 to September 1980.

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

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

REMARKS.--Estimated daily discharges: Nov. 9-18, 26-28, Dec. 4 to May 31 and Aug. 12 to Sept. 5. Records good including period of no gage-height record, Aug. 12 to Sept. 5, except for periods of ice effect, Nov. 9-18, 26-28 and Dec. 4 to Apr. 11, and period of no gage-height record, Dec. 24 to May 21, which are poor. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--41 years, 2,354 ft³/s, 23.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft³/s, May 1, 1974, gage height, 12.63 ft; maximum gage height, 23 ft, Apr. 11, 1991, estimated from flood marks (backwater from ice); minimum discharge, 50 ft³/s, Sept. 5, 1953; minimum gage height, 0.25 ft, Sept. 5, 1953, Sept. 11, 12, 1960, July 27, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 26,500 ft³/s, Aug. 11, estimated; maximum gage height, 23 ft, Apr. 11, estimated from flood marks (backwater from ice); minimum discharge, 100 ft³/s, Aug. 2, gage height, .50 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7800	3140	6350	e3180	e765	e735	e3850	e15000	2630	319	105	e1000
2	10600	2690	4980	e2830	e752	e710	e4200	e15800	2360	239	109	e1600
3	8470	2480	3700	e2530	e741	e725	e4080	e15200	1780	193	109	e850
4	6060	2470	e2480	e2350	e737	e770	e3850	e13300	1360	168	106	e454
5	5500	2430	e2160	e2200	e732	e925	e3650	e11400	1070	152	137	e381
6	5400	2490	e2560	e2040	e740	e1030	e4130	e9200	884	146	171	322
7	4340	2410	e2480	e1900	e750	e1180	e5300	e10500	750	162	205	278
8	3480	2270	e2240	e1780	e748	e1280	e7200	e12900	632	247	209	242
9	3060	e1990	e2020	e1650	e740	e1230	e12900	e10800	551	1190	176	211
10	4670	e1880	e1840	e1560	e725	e1170	e19500	e7250	474	1850	182	189
11	5830	e1740	e1680	e1480	e710	e1120	e26500	e6150	430	1260	231	184
12	5680	e1410	e1590	e1400	e692	e1050	e20500	e5100	394	799	e514	175
13	7000	e1320	e1540	e1320	e672	e1000	e16800	e4450	428	565	e402	155
14	7560	e1290	e1510	e1260	e655	e945	e13400	e3750	596	484	e319	151
15	7330	e1250	e1480	e1210	e658	e900	e11700	e3140	748	420	e319	143
16	6360	e1250	e1440	e1280	e645	e860	e10500	e2650	980	357	e244	154
17	5100	e2320	e1420	e1270	e632	e835	e9500	e2740	1240	275	e191	170
18	4150	e5460	e1410	e1220	e615	e800	e8500	e3680	983	229	e156	162
19	3810	5220	e1800	e1160	e595	e850	e9200	e2800	703	195	e167	179
20	4820	4420	e2020	e1120	e605	e890	e11000	e1990	527	169	e267	220
21	4660	3290	e2100	e1070	e645	e910	e12000	e1560	420	152	e650	513
22	3840	2960	e2300	e1030	e680	e920	e13200	1270	353	141	e1180	647
23	3280	2630	e2930	e1000	e720	e922	e16600	1020	310	137	e930	537
24	5500	2480	e4650	e980	e730	e920	e20000	878	276	132	e610	462
25	13400	2710	e5720	e955	e735	e900	e22200	847	245	127	e380	473
26	12400	e2610	e5950	e920	e745	e885	e23800	803	221	134	e260	1260
27	9430	e2140	e5500	e890	e775	e895	e24800	854	199	141	e225	2190
28	6620	e2350	e4760	e880	e770	e1070	e23200	2560	198	132	e250	1880
29	5030	5680	e4180	e855	---	e2100	e18500	3180	274	124	e300	1480
30	4280	7900	e3790	e830	---	e2600	e15800	2420	439	119	e355	1310
31	3700	---	e3520	e810	---	e3100	---	2250	---	109	e480	---
TOTAL	189160	84680	92100	44960	19709	34227	396360	175442	22455	10867	9939	17972
MEAN	6102	2823	2971	1450	704	1104	13210	5659	748	351	321	599
MAX	13400	7900	6350	3180	775	3100	26500	15800	2630	1850	1180	2190
MIN	3060	1250	1410	810	595	710	3650	803	198	109	105	143
CFSM	4.55	2.10	2.22	1.08	.52	.82	9.85	4.22	.56	.26	.24	.45
IN.	5.25	2.35	2.55	1.25	.55	.95	11.00	4.87	.62	.30	.28	.50

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1991, BY WATER YEAR (WY)

	1943	1951	1957	1963	1969	1975	1981	1987	1991	1997	2003	2009
MEAN	1943	2198	1357	662	594	909	7025	7348	2053	1334	1404	1366
MAX	6102	5717	4899	1624	1997	4296	13410	16550	4705	6845	5985	3930
(WY)	1991	1964	1951	1978	1986	1979	1976	1961	1954	1984	1981	1954
MIN	347	540	311	207	143	180	1917	1474	453	174	113	102
(WY)	1956	1957	1956	1957	1961	1956	1967	1987	1988	1952	1953	1952

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1951 - 1991
ANNUAL TOTAL	1214145	1097871	
ANNUAL MEAN	3326	3008	2354
HIGHEST ANNUAL MEAN			3547
LOWEST ANNUAL MEAN			1336
HIGHEST DAILY MEAN	23000	Apr 28	38600
LOWEST DAILY MEAN	260	Aug 5	60
ANNUAL SEVEN-DAY MINIMUM	300	Jul 16	66
INSTANTANEOUS PEAK FLOW			44400
INSTANTANEOUS PEAK STAGE			23.00
INSTANTANEOUS LOW FLOW			59
ANNUAL RUNOFF (CFSM)	2.48	2.24	1.76
ANNUAL RUNOFF (INCHES)	33.68	30.46	23.85
10 PERCENT EXCEEDS	7300	8130	5930
50 PERCENT EXCEEDS	2080	1220	970
90 PERCENT EXCEEDS	580	190	255

01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME

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

DRAINAGE AREA.--171 mi².

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

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

REMARKS.--Estimated daily discharges: Oct. 1-4, Nov. 9-20, Nov. 27 to Apr. 15, and Sept. 10-26. Records fair including periods of ice effect, Nov. 9-20 and Nov. 20 to Apr. 15, period of unknown stage-discharge relationship, Sept. 10-26, and periods of no gage-height record, Oct. 1-4 and Dec. 24 to Jan. 28. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--8 years, 320 ft³/s, 25.39 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 10	0145	a*3600	b*13.69	Apr. 27	0445	2730	10.25

a estimated daily discharge

b backwater from ice

Minimum discharge, 17 ft³/s, July 30, 31, and Aug. 1, gage height, 3.10 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e440	256	e1050	e600	e126	e129	e1040	1510	277	41	17	331
2	e1300	224	e688	e530	e116	e122	e920	1550	211	32	19	181
3	e960	217	e393	e470	e118	e138	e770	1360	147	27	20	97
4	e700	240	e546	e405	e120	e165	e640	1130	114	24	35	64
5	615	479	e1140	e370	e125	e225	e690	943	98	23	98	51
6	593	551	e1220	e345	e132	e239	e820	766	86	25	142	41
7	529	454	e1060	e320	e150	e237	e1100	1230	75	26	110	34
8	570	366	e962	e300	e159	e230	e1700	1310	67	83	63	30
9	668	e268	e870	e280	e160	e217	e3200	958	60	360	40	27
10	1090	e208	e800	e262	e155	e200	e3600	653	57	223	33	e25
11	1110	e153	e730	e250	e149	e180	e3450	481	56	117	147	e32
12	1050	e141	e660	e235	e138	e165	e3070	393	54	70	237	e28
13	1090	e125	e600	e223	e128	e153	e2510	326	69	52	128	e21
14	1020	e115	e550	e211	e120	e139	e1890	262	111	69	72	e19
15	809	e118	e500	e201	e113	e128	e1350	222	95	87	49	e18
16	604	e174	e460	e260	e107	e121	1210	185	106	62	35	e25
17	456	e575	e420	e270	e99	e115	1080	266	109	46	27	e36
18	405	e870	e385	e265	e92	e110	968	574	83	36	25	e29
19	464	e654	e550	e250	e84	e127	1240	451	60	31	28	e40
20	564	e504	e640	e236	e95	e152	1540	296	49	27	46	e68
21	464	407	e625	e225	e120	e160	1570	215	41	24	52	e116
22	356	345	e560	e212	e148	e157	1740	163	36	23	62	e85
23	292	301	e690	e205	e177	e145	2340	131	33	22	63	e65
24	787	305	e900	e190	e190	e130	2430	131	32	23	58	e58
25	1530	364	e870	e181	e186	e122	2590	130	29	30	43	e125
26	1210	353	e810	e172	e172	e119	2600	112	27	23	34	e250
27	756	e274	e720	e163	e154	e130	2670	133	26	23	33	344
28	509	e431	e650	e154	e138	e165	2260	455	30	20	38	272
29	413	e1300	e580	e145	---	e540	1720	467	55	19	51	229
30	357	e1300	e650	e138	---	e1080	1500	302	54	18	59	224
31	302	---	e670	e132	---	e1080	---	294	---	17	161	---
TOTAL	22013	12072	21949	8200	3771	7120	54208	17399	2347	1703	2025	2965
MEAN	710	402	708	265	135	230	1807	561	78.2	54.9	65.3	98.8
MAX	1530	1300	1220	600	190	1080	3600	1550	277	360	237	344
MIN	292	115	385	132	84	110	640	112	26	17	17	18
CFSM	4.15	2.35	4.14	1.55	.79	1.34	10.6	3.28	.46	.32	.38	.58
IN.	4.79	2.63	4.77	1.78	.82	1.55	11.79	3.79	.51	.37	.44	.65

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1991, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1984	272	710	1991	90.5	1985
1985	347	612	1989	207	1985
1986	231	708	1991	81.3	1990
1987	93.6	265	1991	27.5	1985
1988	83.6	147	1986	13.6	1985
1989	241	852	1990	49.5	1985
1990	1273	1807	1991	678	1985
1991	633	1342	1984	152	1987
1992	204	388	1984	67.3	1988
1993	187	691	1984	49.1	1990
1994	151	551	1986	23.6	1989
1995	118	364	1986	20.1	1985

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1984 - 1991
ANNUAL TOTAL	167920	155772	
ANNUAL MEAN	460	427	320
HIGHEST ANNUAL MEAN			438
LOWEST ANNUAL MEAN			157
HIGHEST DAILY MEAN	2960	Apr 28	6790
LOWEST DAILY MEAN	20	Sep 14	7.4
ANNUAL SEVEN-DAY MINIMUM	25	Sep 9	8.0
INSTANTANEOUS PEAK FLOW			7420
INSTANTANEOUS PEAK STAGE		13.69	Apr 10
INSTANTANEOUS LOW FLOW		17	Jul 30
ANNUAL RUNOFF (CFSM)	2.69	2.50	1.87
ANNUAL RUNOFF (INCHES)	36.53	33.89	25.39
10 PERCENT EXCEEDS	1200	1090	839
50 PERCENT EXCEEDS	200	200	120
90 PERCENT EXCEEDS	44	31	34

01010500 ST. JOHN RIVER AT DICKEY, ME

LOCATION.--Lat 47°6'44", long 69°05'25", Aroostook County, Hydrologic Unit 01010001, on right bank at downstream side of highway bridge at Dickey, 0.4 mi downstream from Little Black River, and 2.8 mi upstream from Allagash River.

DRAINAGE AREA.--2,680 mi².

PERIOD OF RECORD.--Discharge: Jul-Nov. 1910 and Apr-Nov. 1911 (published as "near Dickey"), Sept. 1946 to current year.

Chemical analyses: Water years 1952, 1975, 1981.

Specific conductance: April 1975 to September 1980.

Water temperature: April 1975 to September 1980.

Suspended sediment discharge: October 1975 to September 1976.

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

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

REMARKS.--Estimated daily discharges: Dec. 5 to Apr. 25, and Jun. 26 to Sept. 5. Records good except for period of ice effect, Dec. 5 to Apr. 11, and periods of no gage height record, Apr. 9-25, and Jun. 26 to Sept. 5, which are fair. Several observations of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--45 years (water years 1947 to current year), 4,769 ft³/s, 24.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91,700 ft³/s, Apr. 29, 1979, gage height, 19.13 ft; maximum gage height, 37.89 ft, from flood marks, Apr. 9, 1981 (backwater from ice); minimum discharge, 129 ft³/s Sept. 17, 1948.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 09	1800	ice jam	a*37.89	Apr. 27	2030	47,300	14.13
Apr. 12	--	b*53,000	--	May 08	0730	29,500	11.52

a From floodmarks.

b Estimated daily discharge

Minimum daily discharge, 230 ft³/s, Aug. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7120	6340	13800	e5300	e1290	e1280	e4850	30500	5190	e960	e240	e3300
2	20100	5580	11000	e4700	e1260	e1240	e4850	32300	5230	e690	e235	e2300
3	16500	5080	7910	e4250	e1250	e1210	e4450	30600	4540	e490	e240	e1750
4	12000	5010	6130	e3870	e1230	e1250	e4120	26600	3560	e400	e235	e1370
5	8970	5570	e4500	e3650	e1220	e1380	e3900	22900	2930	e365	e230	e1220
6	9330	6080	e4550	e3350	e1210	e1720	e4050	19100	2700	e330	e350	1040
7	8240	5900	e4710	e3100	e1190	e2080	e5000	20800	2230	e645	e520	856
8	7310	5330	e4740	e2880	e1180	e2180	e8200	28600	1830	e1300	e440	705
9	7250	4710	e4490	e2720	e1170	e2190	e13500	23800	1630	e2900	e385	590
10	8830	4340	e4180	e2630	e1150	e2190	e21500	17000	1300	e3300	e520	516
11	12100	4220	e3760	e2450	e1130	e2110	e36500	12400	1230	e2500	e920	504
12	11800	3530	e2830	e2300	e1110	e2060	e53000	9740	1060	e1750	e1640	497
13	12700	3380	e2610	e2200	e1090	e1960	e44500	8220	984	e1250	e1350	478
14	13900	3900	e2590	e2110	e1060	e1890	e36700	6750	941	e940	e1000	452
15	13600	3840	e2580	e1950	e1040	e1840	e33500	5850	1060	e860	e760	406
16	11800	4070	e2610	e1910	e1000	e1790	e28500	5160	1280	e770	e560	400
17	9700	4720	e2700	e1880	e990	e1760	e23700	5080	1400	e630	e430	461
18	8130	8070	e2800	e1840	e970	e1690	e19700	6190	1650	e540	e340	544
19	7370	9460	e2900	e1770	e950	e1650	e16400	6430	1480	e430	e430	638
20	7550	8230	e3300	e1700	e950	e1720	e21500	5540	1220	e390	e700	731
21	8170	6920	e3450	e1650	e940	e1850	e22600	4750	1000	e350	e1080	826
22	7250	5780	e3800	e1600	e970	e1970	e23400	4100	822	e325	e1280	797
23	6260	5430	e4650	e1560	e980	e2120	e25300	3570	706	e305	e1410	1110
24	6990	5040	e6700	e1520	e1020	e2140	e31500	3320	620	e290	e1250	1020
25	20500	5120	e10000	e1480	e1120	e2120	e37500	3350	553	e285	e980	907
26	22900	5460	e10500	e1450	e1270	e2040	44100	3130	e520	e280	e780	1250
27	17600	4840	e10200	e1410	e1320	e1990	46100	2920	e475	e290	e580	2670
28	12700	4730	e8990	e1390	e1300	e2220	44400	4090	e435	e305	e470	3750
29	9670	7280	e7400	e1360	---	e2750	37400	7050	e455	e290	e960	2920
30	8120	14800	e6400	e1350	---	e3900	32000	6340	e670	e270	e1620	2310
31	7150	---	e5800	e1310	---	e4650	---	5340	---	e255	e3400	---
TOTAL	341610	172760	172580	72640	31360	62940	732720	371520	49701	24685	25345	36319
MEAN	11020	5759	5567	2343	1120	2030	24420	11980	1657	796	818	1211
MAX	22900	14800	13800	5300	1320	4650	53000	32300	5230	3300	3400	3750
MIN	6260	3380	2580	1310	940	1210	3900	2920	435	255	230	400
CFSM	4.11	2.15	2.08	.87	.42	.76	9.11	4.47	.62	.30	.31	.45
IN.	4.74	2.40	2.40	1.01	.44	.87	10.17	5.16	.69	.34	.35	.50

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1991, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
3625	4105	2655	1307	1125	1651
11280	10170	9781	3059	3902	9249
1978	1964	1951	1978	1981	1979
690	605	624	341	201	378
1954	1948	1956	1948	1948	1956

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR

ANNUAL TOTAL 2185408

ANNUAL MEAN 5987

HIGHEST ANNUAL MEAN

LOWEST ANNUAL MEAN

HIGHEST DAILY MEAN 47200 Apr 29

LOWEST DAILY MEAN 466 Aug 7

ANNUAL SEVEN-DAY MINIMUM 555 Aug 2

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE 37.89 Apr 9

INSTANTANEOUS LOW FLOW

ANNUAL RUNOFF (CFSM) 2.23

ANNUAL RUNOFF (INCHES) 30.33

10 PERCENT EXCEEDS 13000

50 PERCENT EXCEEDS 3900

90 PERCENT EXCEEDS 856

FOR 1991 WATER YEAR

ANNUAL TOTAL 2094180

ANNUAL MEAN 5737

HIGHEST ANNUAL MEAN

LOWEST ANNUAL MEAN

HIGHEST DAILY MEAN 86800 Apr 29

LOWEST DAILY MEAN 135 Sep 15

ANNUAL SEVEN-DAY MINIMUM 142 Sep 11

INSTANTANEOUS PEAK FLOW 91700 Apr 29

INSTANTANEOUS PEAK STAGE 37.89 Apr 9

INSTANTANEOUS LOW FLOW 129 Sep 17

ANNUAL RUNOFF (CFSM) 1.78

ANNUAL RUNOFF (INCHES) 24.18

10 PERCENT EXCEEDS 11900

50 PERCENT EXCEEDS 2000

90 PERCENT EXCEEDS 550

ANNUAL TOTAL	927947		964734		1938	
ANNUAL MEAN	2542		2643		2899	1976
HIGHEST ANNUAL MEAN					989	1957
LOWEST ANNUAL MEAN					32100	Apr 18 1983
HIGHEST DAILY MEAN	15200	Apr 28	16900	Apr 27	91	Mar 9 1948
LOWEST DAILY MEAN	370	Jan 1	360	Jul 31	91	Mar 9 1948
ANNUAL SEVEN-DAY MINIMUM	409	Jan 1	378	Jul 28	91	Mar 9 1948
INSTANTANEOUS PEAK FLOW			17000	Apr 27	36900	Apr 18 1983
INSTANTANEOUS PEAK STAGE			19.78	Apr 11	19.78	Apr 11 1991
INSTANTANEOUS LOW FLOW			355	Jul 31	87	Sep 11 1960
ANNUAL RUNOFF (CFSM)	2.07		2.15		1.58	
ANNUAL RUNOFF (INCHES)	28.09		29.20		21.43	
10 PERCENT EXCEEDS	4920		7000		4720	
50 PERCENT EXCEEDS	1920		1270		962	
90 PERCENT EXCEEDS	520		455		315	

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

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

DRAINAGE AREA.--524 mi².

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

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

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

REMARKS.--Estimated daily discharges: Jan. 10-16, and Apr. 28 to May 1. Records good, including periods of doubtful gage-height record, Jan. 10-16, and Apr. 28 to May 1.

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

AVERAGE DISCHARGE.--40 years, 885 ft³/s, 22.95 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,440 ft³/s, May 4, gage height, 11.41 ft; minimum daily, 115 ft³/s, Aug. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	1260	1560	982	381	244	639	e7730	1530	234	139	265
2	454	1160	1780	971	371	250	717	7940	1420	214	137	239
3	540	1070	1810	946	360	264	773	8260	1310	204	132	222
4	593	1020	1740	911	352	281	802	8370	1200	194	127	206
5	631	990	1620	869	348	308	840	7910	1110	185	127	193
6	628	1000	1500	837	340	307	932	7240	1010	178	127	183
7	635	1040	1400	812	332	313	1190	6780	922	177	123	176
8	639	1030	1310	784	326	330	1600	6640	851	188	117	170
9	685	989	1220	759	322	335	2170	6530	777	219	115	158
10	821	949	1140	e717	314	338	2990	6000	720	221	131	151
11	1020	984	1070	e674	312	343	3640	5330	671	228	169	158
12	1210	939	967	e618	303	341	3920	4770	632	238	192	150
13	1340	901	907	e586	298	332	3880	4310	607	246	220	141
14	1450	862	854	e554	294	328	3600	3920	568	252	255	134
15	1520	825	791	e526	296	329	3330	3510	530	257	274	129
16	1520	807	754	e494	296	321	3150	3080	498	250	281	129
17	1450	812	727	473	292	316	3010	2780	470	241	268	141
18	1370	839	703	459	285	315	2880	2660	445	239	262	133
19	1300	908	707	448	273	324	2830	2600	417	234	248	135
20	1220	965	688	438	274	350	2960	2420	399	226	272	138
21	1150	975	672	434	266	347	3170	2190	381	215	254	140
22	1100	957	668	420	269	347	3570	1970	357	206	249	136
23	1040	950	683	410	270	346	4100	1780	344	196	232	135
24	1070	930	777	410	261	360	4730	1630	323	192	218	136
25	1230	922	848	410	261	367	5540	1530	305	181	207	148
26	1520	922	936	410	257	367	6390	1450	292	176	195	168
27	1710	906	982	420	252	364	7170	1380	274	175	197	178
28	1710	886	1020	417	249	385	e7310	1380	274	168	195	181
29	1620	936	1010	403	---	424	e7450	1510	265	157	184	186
30	1490	1200	994	399	---	477	e7590	1630	245	149	174	198
31	1380	---	996	388	---	551	---	1620	---	144	243	---
TOTAL	34441	28934	32834	18379	8454	10604	102873	126850	19147	6384	6064	4957
MEAN	1111	964	1059	593	302	342	3429	4092	638	206	196	165
MAX	1710	1260	1810	982	381	551	7590	8370	1530	257	281	265
MIN	395	807	668	388	249	244	639	1380	245	144	115	129
CFSM	2.12	1.84	2.02	1.13	.58	.65	6.54	7.81	1.22	.39	.37	.32
IN.	2.45	2.05	2.33	1.30	.60	.75	7.30	9.01	1.36	.45	.43	.35

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1991, BY WATER YEAR (WY)												
MEAN	556	700	525	313	271	305	2120	3473	962	495	454	412
MAX	1650	1889	1393	839	1072	1116	4554	6360	1688	1611	2055	1222
(WY)	1955	1964	1958	1958	1981	1981	1983	1974	1952	1984	1981	1971
MIN	84.3	97.4	102	115	117	107	558	606	456	214	101	83.3
(WY)	1969	1979	1979	1990	1961	1962	1967	1987	1968	1991	1978	1978
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1952 - 1991												
ANNUAL TOTAL	278239						398921					
ANNUAL MEAN	762						1096			885		
HIGHEST ANNUAL MEAN										1285		
LOWEST ANNUAL MEAN										485		
HIGHEST DAILY MEAN	6240						8370			14500		
LOWEST DAILY MEAN	91						115			60		
ANNUAL SEVEN-DAY MINIMUM	94						124			65		
INSTANTANEOUS PEAK FLOW							8440			15000		
INSTANTANEOUS PEAK STAGE							11.41			15.39		
ANNUAL RUNOFF (CFSM)	1.45						2.09			1.69		
ANNUAL RUNOFF (INCHES)	19.75						28.39			22.95		
10 PERCENT EXCEEDS	1560						2850			2100		
50 PERCENT EXCEEDS	536						498			421		
90 PERCENT EXCEEDS	115						176			149		

01013500 FISH RIVER NEAR FORT KENT. ME

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, Hydrologic Unit 01010003, on right bank 300 ft upstream from highway bridge at Fort Kent Mills, 2 mi upstream from mouth, and 2 mi south of Fort Kent.

DRAINAGE AREA.--873 mi².

PERIOD OF RECORD.--July 1903 to December 1908 and May to November 1911 (published as "at Wallagrass"), September 1929 to current year. Monthly discharges only for some periods prior to November 1911, published in WSP 1301.

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

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

REMARKS.--Estimated daily discharges: Dec. 14, 15, 20-22, and Dec. 25 to Apr. 9. Records good except for periods of ice effect, Dec. 14, 15, 20-22, and Dec. 25 to Apr. 9, which are fair. Several observations of water temperature and specific conductance were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--67 years (water years 1904-08, 1930-current year), 1,414 ft³/s, 22.01 in./yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft³/s, May 4, gage height, 9.72 ft; minimum discharge, 176 ft³/s, Aug. 09, gage height, 2.29 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	830	4330	2200	e1570	e760	e540	e1370	10200	2170	406	218	1070
2	898	4090	2190	e1560	e740	e545	e1400	10300	2050	384	218	1040
3	961	3860	2150	e1550	e730	e555	e1450	10200	1930	371	218	1010
4	1030	3720	2200	e1510	e720	e570	e1500	10300	1820	361	213	975
5	1090	3610	2260	e1480	e730	e580	e1610	9890	1720	352	209	931
6	1120	3450	2180	e1440	e740	e600	e1850	9360	1620	345	207	882
7	1150	3330	2140	e1420	e740	e615	e2300	9440	1530	347	194	843
8	1170	3130	2130	e1380	e740	e640	e2900	9160	1420	452	185	785
9	1220	2950	2130	e1350	e735	e650	e3900	8730	1340	558	182	732
10	1440	2820	2090	e1310	e730	e655	4890	8220	1260	514	209	701
11	1520	2930	2020	e1280	e700	e660	5310	7640	1190	481	306	656
12	1620	2870	1950	e1250	e680	e660	5350	7040	1120	458	323	616
13	1790	2780	1910	e1200	e650	e655	5380	6530	1060	443	297	578
14	2210	2680	e1790	e1160	e630	e640	5420	6020	983	431	277	548
15	2710	2610	e1700	e1110	e610	e635	5470	5560	947	411	265	524
16	3010	2520	1650	e1060	e605	e625	5580	5110	895	394	249	522
17	3180	2500	1600	e1010	e600	e620	5510	4850	844	382	237	512
18	3290	2480	1560	e980	e590	e620	5470	4600	801	370	237	488
19	3400	2450	1570	e950	e580	e618	5520	4260	766	359	225	511
20	3440	2470	e1460	e930	e565	e660	5590	3950	718	347	438	543
21	3460	2390	e1470	e910	e565	e675	5690	3660	677	334	540	518
22	3390	2350	e1480	e890	e560	e680	6200	3370	630	309	636	503
23	3270	2290	1590	e880	e550	e680	7020	3120	602	299	669	491
24	3810	2220	1780	e860	e545	e695	7700	2940	571	290	689	473
25	4870	2200	e1770	e840	e540	e700	8500	2720	549	276	706	515
26	5230	2120	e1740	e830	e535	e700	9210	2520	525	266	713	688
27	5300	2080	e1710	e810	e535	e757	10000	2400	499	267	725	731
28	5200	2030	e1690	e800	e535	e950	10200	2550	490	254	777	738
29	5040	2090	e1660	e790	---	e1110	10100	2460	456	241	765	751
30	4840	2160	e1610	e780	---	e1250	10100	2380	433	232	745	797
31	4580	---	e1580	e770	---	e1330	---	2290	---	226	987	---
TOTAL	86069	83510	56960	34660	17940	21870	162490	181770	31616	11160	12859	20672
MEAN	2776	2784	1837	1118	641	705	5416	5864	1054	360	415	689
MAX	5300	4330	2260	1570	760	1330	10200	10300	2170	558	987	1070
MIN	830	2030	1460	770	535	540	1370	2290	433	226	182	473
CFSM	3.18	3.19	2.10	1.28	.73	.81	6.20	6.72	1.21	.41	.48	.79
IN.	3.67	3.56	2.43	1.48	.76	.93	6.92	7.75	1.35	.48	.55	.88

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1991. BY WATER YEAR (WY)

	1961, 1962				1963, 1964				1965, 1966				1967, 1968			
MEAN	787	1194	1055	607	475	552	3020	5173	1805	948	698	600				
MAX	2776	4116	4688	1891	1597	3104	7495	8951	3696	3075	3571	2492				
(WY)	1991	1964	1951	1958	1986	1936	1953	1969	1961	1954	1954	1963				
MIN	63.1	98.2	103	149	116	107	390	1327	652	294	112	51.7				
(WY)	1906	1906	1956	1904	1904	1944	1944	1987	1988	1965	1968	1968				

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1903 - 1991

ANNUAL TOTAL		611953	ANNUAL TOTAL		721576	ANNUAL TOTAL		156000	ANNUAL TOTAL		158000
ANNUAL MEAN		1677	ANNUAL MEAN		1977	ANNUAL MEAN		1414	ANNUAL MEAN		2175
HIGHEST ANNUAL MEAN			HIGHEST ANNUAL MEAN			HIGHEST ANNUAL MEAN			HIGHEST ANNUAL MEAN		1973
LOWEST ANNUAL MEAN			LOWEST ANNUAL MEAN			LOWEST ANNUAL MEAN			LOWEST ANNUAL MEAN		1965
HIGHEST DAILY MEAN		8460	HIGHEST DAILY MEAN		10300	HIGHEST DAILY MEAN		15600	HIGHEST DAILY MEAN		1973
LOWEST DAILY MEAN		165	LOWEST DAILY MEAN		182	LOWEST DAILY MEAN		46	LOWEST DAILY MEAN		1968
ANNUAL SEVEN-DAY MINIMUM		178	ANNUAL SEVEN-DAY MINIMUM		200	ANNUAL SEVEN-DAY MINIMUM		49	ANNUAL SEVEN-DAY MINIMUM		1968
INSTANTANEOUS PEAK FLOW			INSTANTANEOUS PEAK FLOW		10400	INSTANTANEOUS PEAK FLOW		15800	INSTANTANEOUS PEAK FLOW		1973
INSTANTANEOUS PEAK STAGE			INSTANTANEOUS PEAK STAGE		9.72	INSTANTANEOUS PEAK STAGE		12.43	INSTANTANEOUS PEAK STAGE		1973
INSTANTANEOUS LOW FLOW			INSTANTANEOUS LOW FLOW		176	INSTANTANEOUS LOW FLOW		34	INSTANTANEOUS LOW FLOW		1968
ANNUAL RUNOFF (CFSM)		1.92	ANNUAL RUNOFF (CFSM)		2.26	ANNUAL RUNOFF (CFSM)		1.62	ANNUAL RUNOFF (CFSM)		
ANNUAL RUNOFF (INCHES)		26.08	ANNUAL RUNOFF (INCHES)		30.75	ANNUAL RUNOFF (INCHES)		22.01	ANNUAL RUNOFF (INCHES)		
10 PERCENT EXCEEDS		3650	10 PERCENT EXCEEDS		5260	10 PERCENT EXCEEDS		3580	10 PERCENT EXCEEDS		
50 PERCENT EXCEEDS		1110	50 PERCENT EXCEEDS		1040	50 PERCENT EXCEEDS		715	50 PERCENT EXCEEDS		
90 PERCENT EXCEEDS		342	90 PERCENT EXCEEDS		366	90 PERCENT EXCEEDS		219	90 PERCENT EXCEEDS		

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

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

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

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

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

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

REMARKS.--Estimated daily discharges: Dec. 4-21, and Dec. 25 to Apr. 11. Records good except for periods of ice effect Dec. 4-21, and Dec. 25 to Apr. 11, which are fair. Several observations of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

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

AVERAGE DISCHARGE.--65 years, 9,693 ft³/s, 23.25 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	1530	(ice jam)	*25.59	Apr. 28	0230	*87,400	20.59
Apr. 12	0430	85,800	20.39				

Minimum discharge, 929 ft³/s, Aug. 1, 2, gage height, 1.24 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8050	17400	21500	e11800	e3650	e2750	e10300	65000	10600	1720	937	6720
2	22100	15900	19200	e11100	e3600	e2780	e10800	67700	10500	1710	947	6420
3	22400	14700	16200	e10200	e3500	e2840	e10900	66500	9660	1710	976	5040
4	18200	14200	e13000	e9700	e3450	e2900	e11200	62000	8510	1550	955	4150
5	14900	14600	e9650	e9200	e3400	e3080	e12000	55600	7520	1450	980	3570
6	14300	15000	e9310	e8700	e3350	e3310	e13000	48100	6750	1360	1060	3070
7	13900	14700	e9230	e8200	e3300	e3900	e15500	47300	6130	1370	1220	2730
8	12900	13700	e8970	e7800	e3250	e4550	e19000	55900	5600	1820	1460	2460
9	12700	12600	e8760	e7400	e3200	e4480	e25000	51500	5100	3750	1370	2180
10	14300	11700	e8500	e7100	e3150	e4380	e34000	42600	4670	5260	1350	2020
11	18100	12000	e8150	e6700	e3100	e4280	e60000	35300	4350	5730	1750	1970
12	18700	11300	e7800	e6400	e3050	e4200	78100	30500	4090	4460	2650	1870
13	19700	10600	e7340	e6100	e3000	e4100	62400	27100	3940	3470	3280	1770
14	22800	10700	e6930	e5900	e2950	e4000	52400	23800	3710	2870	2850	1680
15	24200	10100	e6730	e5600	e2950	e3900	45300	20600	3540	2580	2370	1580
16	22900	10300	e6690	e5500	e2900	e3800	41800	18000	3650	2460	1960	1560
17	20500	10800	e6660	e5300	e2900	e3750	38700	16800	3800	2250	1710	1640
18	18300	13300	e6690	e5100	e2850	e3620	35700	17600	3900	2090	1550	1650
19	17400	16000	e6820	e4900	e2820	e3630	36100	17700	3960	1880	1490	1790
20	17200	15200	e7150	e4800	e2800	e3680	41100	16000	3580	1690	2310	2060
21	17500	13800	e7290	e4600	e2780	e3700	44500	14000	3180	1530	3320	2280
22	16500	12200	7910	e4500	e2750	e3800	46800	12400	2810	1420	3790	2250
23	15000	11400	9310	e4400	e2730	e3900	55200	11000	2570	1310	3970	2210
24	16000	11000	12300	e4300	e2700	e4050	65600	10200	2380	1260	3910	2400
25	30500	10800	e16500	e4200	e2690	e4050	72700	9860	2210	1190	3460	2370
26	40100	11100	e18100	e4100	e2700	e3900	79400	9240	2010	1130	3050	3150
27	34400	10500	e18000	e4000	e2710	e3850	85000	8700	1890	1150	2820	4450
28	27800	10200	e16500	e3950	e2730	e4400	85200	9730	1860	1150	2910	5970
29	23500	11700	e14700	e3900	---	e6200	76700	12800	1840	1090	2870	5650
30	20900	19600	e13600	e3800	---	e6600	68200	13300	1780	1030	2700	5100
31	19200	---	e12700	e3750	---	e8100	---	11600	---	959	3820	---
TOTAL	614950	387100	342190	193000	84960	126480	1332600	908430	136090	64399	69795	91760
MEAN	19840	12900	11040	6226	3034	4080	44420	29300	4536	2077	2251	3059
MAX	40100	19600	21500	11800	3650	8100	85200	67700	10600	5730	3970	6720
MIN	8050	10100	6660	3750	2690	2750	10300	8700	1780	959	937	1560
CFSM	3.50	2.28	1.95	1.10	.54	.72	7.84	5.17	.80	.37	.40	.54
IN.	4.04	2.54	2.25	1.27	.56	.83	8.75	5.97	.89	.42	.46	.60

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1991, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1927	6722	8521	5731	3167	2426
1928	19840	24220	22900	7438	8610
1929	1991	1928	1951	1958	1981
1930	1116	1367	1232	871	562
1931	1969	1948	1956	1948	1948

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1927 - 1991
ANNUAL TOTAL	4173570	4351754	
ANNUAL MEAN	11430	11920	9693
HIGHEST ANNUAL MEAN			14100
LOWEST ANNUAL MEAN			5667
HIGHEST DAILY MEAN	82900	Apr 29	146000
LOWEST DAILY MEAN	1480	Aug 7	510
ANNUAL SEVEN-DAY MINIMUM	1680	Aug 3	513
INSTANTANEOUS PEAK FLOW			151000
INSTANTANEOUS PEAK STAGE			27.31
INSTANTANEOUS LOW FLOW			510
ANNUAL RUNOFF (CFSM)	2.02	2.10	1.71
ANNUAL RUNOFF (INCHES)	27.41	28.58	23.25
10 PERCENT EXCEEDS	22700	28900	23000
50 PERCENT EXCEEDS	8560	5600	4580
90 PERCENT EXCEEDS	2090	1720	1490

ST. JOHN RIVER BASIN

35

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

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

DRAINAGE AREA.--8,174 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURE: November 1978 to September 1981.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
NOV												
01...	1400	25100	76	7.5	2.0	3.5	3.1	750	12.4	95	260	44
DEC												
20...	0830	E 10300	91	7.6	-19.0	0.0	1.4	760	13.1	90	240	120
FEB												
20...	1730	E 4040	129	7.2	2.0	0.0	1.5	730	11.4	81	270	48
APR												
24...	1700	94600	54	7.3	19.0	2.5	21	750	13.3	99	140	50
JUN												
19...	1630	5710	100	7.6	27.0	21.0	1.5	750	8.5	97	K 16	K 9
AUG												
15...	0900	3420	110	7.4	24.0	23.5	2.0	745	6.7	81	60	K 22

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	CAR- BONATE WATER WH T FIELD (MG/L AS CO3) (00447)	ALKA- LINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV											
01...	34	11	1.5	1.8	0.4	31	0	25	27	5.6	2.1
DEC											
20...	40	13	1.8	2.7	0.4	36	0	30	32	8.5	3.5
FEB											
20...	56	18	2.6	4.3	0.5	51	0	42	45	11	5.5
APR											
24...	--	--	--	--	--	21	0	17	20	4.4	1.7
JUN											
19...	43	14	1.9	2.9	0.5	43	0	35	38	8.1	3.8
AUG											
15...	52	17	2.2	3.7	0.6	46	0	38	42	11	3.8

E Estimated value.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
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NOV											
01...	<0.1	3.9	52	42	0.10	0.06	0.08	0.4	0.01	<0.01	0.01
DEC											
20...	<0.1	4.4	69	53	0.20	0.03	0.04	0.3	<0.01	<0.01	<0.01
FEB											
20...	<0.1	4.7	75	73	0.26	0.01	0.01	0.2	0.02	<0.01	<0.01
APR											
24...	<0.1	--	24	--	0.25	0.04	0.05	0.4	0.06	0.01	<0.01
JUN											
19...	<0.1	2.8	71	56	0.08	0.05	0.06	0.5	<0.01	<0.01	<0.01
AUG											
15...	<0.1	2.8	85	64	0.05	0.03	0.04	0.5	0.02	<0.01	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
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NOV												
01...	90	<1	5	<0.5	<1.0	<1	<3	4	85	2	<4	10
DEC												
20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
20...	40	<1	7	<0.5	<1.0	<1	<3	1	80	1	<4	34
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	30	<1	7	<0.5	<1.0	2	<3	2	58	<1	<4	22

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
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NOV											
01...	<0.1	<10	1	<1	<1	74	<6	39	10	678	74
DEC											
20...	--	--	--	--	--	--	--	--	3	E 83	69
FEB											
20...	<0.1	<10	1	<1	<1	110	<6	8	--	--	--
APR											
24...	<0.1	--	--	--	--	--	--	--	77	19700	72
JUN											
19...	--	--	--	--	--	--	--	--	2	31	86
AUG											
15...	<0.1	<10	<1	<1	<1	110	<6	17	5	46	96

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

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

DRAINAGE AREA.--892 mi².

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

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

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

REMARKS.--Estimated daily discharges: Oct. 15-17 and Dec. 5 to Apr. 20. Records good except for period of ice effect, Dec. 5 to Apr. 20, and period of no gage-height record, Oct. 15-17, which are fair. Some regulation by Millinocket Lake, capacity 1,110,000,000 ft³, used for power. Several observations of water temperature and specific conductance were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--34 years, 1,482 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,600 ft³/s, Oct. 26, gage height, 14.14 ft; maximum gage height 15.29 ft, Apr. 11 (backwater from ice); minimum discharge 53 ft³/s, Aug. 1-3, gage height, 2.45 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	3560	2780	e1750	e490	e350	e2450	7160	678	110	55	392
2	2260	3000	2570	e1650	e480	e315	e2500	6860	625	102	54	336
3	2220	2480	2210	e1550	e470	e360	e2530	6600	560	96	54	292
4	1870	2280	1600	e1400	e470	e410	e2650	6350	506	92	56	259
5	1670	2160	e2040	e1300	e470	e450	e2800	5860	468	91	67	233
6	1650	2060	e3060	e1250	e460	e480	e3700	5130	429	90	77	213
7	1570	2030	e3440	e1150	e450	e520	e4650	4930	383	92	87	229
8	1450	1910	e3250	e1100	e440	e570	e5150	5030	347	94	75	237
9	1360	1710	e2880	e960	e430	e590	e6400	4540	317	92	68	223
10	1580	1600	e2500	e930	e430	e595	e8400	3900	288	90	82	211
11	1910	3010	e2150	e890	e420	e600	e12900	3360	266	88	191	204
12	2180	4330	e1950	e870	e400	e600	e13200	2960	251	84	431	156
13	2880	4050	e1760	e850	e370	e590	e12400	2600	294	80	392	145
14	4540	3560	e1650	e820	e370	e575	e10900	2260	414	79	279	138
15	e7000	2890	e1550	e790	e360	e560	e7740	1980	458	77	198	133
16	e6600	2470	e1490	e780	e350	e540	e6610	1760	432	75	150	137
17	e5400	2380	e1430	e770	e360	e525	e5990	1630	380	72	123	143
18	4470	2650	e1420	e740	e350	e520	e5580	1590	329	76	110	135
19	4070	2670	e1400	e730	e340	e630	e5460	1420	286	74	110	155
20	4680	2530	e1380	e710	e350	e720	e5740	1260	234	70	1060	205
21	4500	2370	e1370	e690	e360	e780	6320	1120	204	68	3610	329
22	3900	2220	e1370	e670	e370	e830	8160	988	184	67	3270	352
23	3410	2150	e1850	e650	e380	e850	12000	868	174	66	2560	309
24	5060	2100	e2380	e630	e390	e855	13300	799	164	66	1790	266
25	11800	2350	e2700	e610	e400	e850	12900	758	151	66	1210	278
26	12700	2440	e2750	e590	e405	e830	12400	690	138	63	857	845
27	9450	2120	e2500	e560	e400	e780	12100	667	128	60	670	1700
28	6860	2300	e2250	e540	e380	e880	11300	793	124	58	622	1710
29	5400	2330	e1950	e530	---	e1300	9560	863	120	56	603	1340
30	4610	2830	e1900	e510	---	e1700	7980	792	123	55	539	1180
31	4050	---	e1850	e500	---	e2220	---	718	---	55	465	---
TOTAL	132500	76540	65380	27470	11345	22375	233770	86236	9455	2404	19915	12485
MEAN	4274	2551	2109	886	405	722	7792	2782	315	77.5	642	416
MAX	12700	4330	3440	1750	490	2220	13300	7160	678	110	3610	1710
MIN	1360	1600	1370	500	340	315	2450	667	120	55	54	133
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1991, BY WATER YEAR (WY)

	MEAN	1082	1452	1056	571	605	741	4259	4674	1309	654	664	699
MAX	4451	5212	2823	1163	1865	3749	10380	11250	3591	2089	2380	2730	
(WY)	1982	1964	1958	1958	1979	1979	1976	1961	1984	1962	1981	1967	
MIN	201	369	370	257	206	216	1055	1061	301	77.5	79.5	111	
(WY)	1969	1979	1979	1982	1972	1967	1967	1987	1988	1991	1968	1968	

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1957 - 1991
ANNUAL TOTAL	724848	699875	
ANNUAL MEAN	1986	1917	1482
HIGHEST ANNUAL MEAN			2133
LOWEST ANNUAL MEAN			818
HIGHEST DAILY MEAN	12700	Oct 26	22100
LOWEST DAILY MEAN	200	Sep 15	42
ANNUAL SEVEN-DAY MINIMUM	213	Sep 14	44
INSTANTANEOUS PEAK FLOW			23100
INSTANTANEOUS PEAK STAGE			17.70
INSTANTANEOUS LOW FLOW			41
10 PERCENT EXCEEDS	4500	5140	3690
50 PERCENT EXCEEDS	1400	793	650
90 PERCENT EXCEEDS	330	92	226

01017000 AROOSTOOK RIVER AT WASHBURN, ME

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

DRAINAGE AREA.--1,654 mi².

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

Chemical analyses: Water years 1952-53.

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

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

REMARKS.--Estimated daily discharges: Dec. 10 to Apr. 12 and Aug. 3-15. Records, good except for period of ice effect, Dec. 10 to Apr. 12, period of doubtful gage-height record Aug. 3-15, which are fair. Considerable regulation by Squa Pan Lake, capacity 2,893,000,000 ft³, used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--61 years, 2,657 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 30,000 ft³/s, Apr. 12; maximum gage height, 17.47 ft, Apr. 12, (backwater from ice); minimum daily discharge, 105 ft³/s, July 31, Aug. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2260	5920	4970	e3480	e1200	e857	e4300	13100	1580	924	105	1080
2	3950	5230	4780	e3420	e1180	e902	e4380	12700	1430	386	105	915
3	4240	4420	4380	e3110	e1150	e740	e4450	12200	1260	216	e109	774
4	3680	4070	3600	e2800	e964	e898	e4700	11900	1110	198	e115	672
5	3230	4030	4010	e2570	e1130	e936	e5500	11000	1030	189	e125	591
6	3100	3980	5320	e2470	e1120	e1060	e7700	9570	977	187	e140	531
7	2940	4140	5580	e2100	e1100	e1100	e8500	9480	893	187	e160	470
8	2720	3860	5210	e2100	e1100	e1170	e9300	9310	728	189	e145	445
9	2560	3450	4550	e2080	e1090	e1220	e10500	8580	655	190	e130	430
10	3420	3170	e3860	e1920	e1080	e1250	e16200	7370	592	179	e170	400
11	4220	5370	e3100	e1780	e1050	e1250	e23800	6270	540	176	e360	369
12	4810	7220	e2750	e1830	e1030	e1440	e30000	5310	499	169	e790	346
13	5900	6650	e2530	e1700	e954	e1460	22800	4730	516	166	e700	299
14	9720	6480	e2360	e1620	e970	e1440	18000	4200	575	184	e500	275
15	13000	5750	e2250	e1710	e961	e1410	13700	3700	660	171	e400	261
16	12300	4710	e2150	e1700	e991	e1390	11900	3250	697	157	324	255
17	10100	4780	e2080	e1730	e973	e1160	10600	3110	763	149	262	282
18	7950	4920	e2350	e1640	e978	e1130	9910	3090	581	147	222	315
19	7070	4920	e2680	e1730	e968	e1370	9730	2750	520	146	240	377
20	7720	4920	e2750	e1660	e975	e1570	10500	2450	462	146	2530	647
21	7330	4770	e2780	e1410	e987	e1800	11000	2150	393	148	7010	680
22	6450	4230	e3200	e1570	e994	e1950	14200	1880	356	121	6250	689
23	5800	3840	e4350	e1520	e998	e2000	20400	1670	357	124	4680	634
24	8670	3810	e6000	e1460	e1010	e1720	23100	1670	319	136	3340	553
25	19600	4130	e5700	e1400	e999	e1670	23500	1680	306	133	2410	564
26	20700	4370	e5510	e1360	e971	e1640	22800	1400	288	130	1780	1330
27	17400	3900	e5070	e1280	e953	e1710	22000	1340	283	140	1490	2770
28	12200	4050	e4180	e1220	e931	e2050	20700	2160	271	124	1720	2960
29	8950	4400	e4030	e1240	---	e2750	17900	2480	580	116	1630	2520
30	7400	5030	e4000	e1230	---	e3650	14900	2080	949	112	1390	2260
31	6680	---	e3740	e1220	---	e4180	---	1770	---	105	1180	---
TOTAL	236070	140520	119820	58060	28807	48873	426970	164350	20170	5845	40512	24694
MEAN	7615	4684	3865	1873	1029	1577	14230	5302	672	189	1307	823
MAX	20700	7220	6000	3480	1200	4180	30000	13100	1580	924	7010	2960
MIN	2260	3170	2080	1220	931	740	4300	1340	271	105	105	255
e Estimated												
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1991, BY WATER YEAR (WY)												
MEAN	1782	2533	1874	1024	1019	1417	7974	8144	2497	1358	1071	1138
MAX	8098	9767	7975	2595	3684	10440	16990	20350	6928	5882	5728	5235
(WY)	1982	1964	1951	1958	1979	1936	1976	1961	1984	1954	1981	1954
MIN	265	218	175	167	101	324	1468	1775	634	189	152	143
(WY)	1956	1956	1956	1948	1948	1948	1944	1987	1988	1991	1968	1952
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1930 - 1991												
ANNUAL TOTAL				1284459				1314691				
ANNUAL MEAN				3519				3602				
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN				20700				30000				
LOWEST DAILY MEAN				367				105				
ANNUAL SEVEN-DAY MINIMUM				380				110				
INSTANTANEOUS PEAK FLOW								30000				
INSTANTANEOUS PEAK STAGE								17.47				
INSTANTANEOUS LOW FLOW												
10 PERCENT EXCEEDS				7400				9520				
50 PERCENT EXCEEDS				2500				1710				
90 PERCENT EXCEEDS				601				190				

ST. CROIX RIVER BASIN

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

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

DRAINAGE AREA.--413 mi².

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

Chemical analyses: Water year 1955.

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

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

REMARKS.--Estimated daily discharges: Dec. 19 to Jan. 14, Jan. 21-29, Feb. 1, 2, 12-14, 16-19, Feb. 23 to Mar. 1, Mar. 4, Apr. 13-26, May 3-9 and July 15 to Aug. 3. Records good including periods of no gage height record, Dec. 19 to Jan. 6, except for periods of doubtful gage height records Jan. 7-14, 21-29, Feb. 1, 2, 12-14, 16-19, Feb. 23 to Mar. 1, Mar. 4, Apr. 13-26, May 3-9 and July 15 to Aug. 3, which are fair. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft³. Final regulation is at Spednik Lake Dam about 400 ft upstream. Several observations of water temperature and specific conductance were made during the year.

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

AVERAGE DISCHARGE.--63 years, 721 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,380 ft³/s, May 3, 4, 5, gage height, 9.30 ft; minimum daily, 195 ft³/s, Apr. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	216	221	e1990	e1460	e1220	196	721	649	674	e1910	705
2	1140	216	221	e1800	e1440	1220	196	1330	649	673	e1910	700
3	1140	216	221	e1550	1430	1110	195	e3340	402	671	e1470	697
4	1120	216	221	e1550	1430	e870	196	e4380	218	671	879	694
5	1130	216	221	e1550	1430	411	196	e4380	214	670	544	692
6	1130	216	221	e1550	1430	411	196	e3690	215	666	408	689
7	1120	216	221	e1550	1430	556	196	e3220	471	664	408	687
8	1100	216	221	e1550	1420	844	196	e3220	661	662	408	686
9	1100	216	221	e1550	1410	984	199	e2360	605	663	447	682
10	1100	216	221	e1570	1410	984	205	1290	312	662	561	680
11	1100	217	221	e1550	1410	984	210	864	219	659	566	681
12	1100	218	221	e1550	e1400	984	343	863	221	657	530	678
13	1090	218	221	e1550	e1370	984	e720	548	221	656	408	673
14	1090	218	221	e1540	e1370	983	e880	279	402	689	407	668
15	1080	218	221	1540	1340	978	e880	281	526	e1140	407	666
16	1080	218	221	1540	e1340	978	e965	281	475	e1560	469	662
17	1080	218	221	1540	e1290	978	e1060	431	258	e1960	556	663
18	1080	219	221	1540	e1290	783	e1060	519	256	e1990	554	660
19	1070	221	e221	1530	e1290	431	e1060	519	251	e2080	399	659
20	1070	223	e221	1520	1290	257	e1060	311	404	e2180	268	657
21	1060	223	e221	e1510	1290	219	e1450	209	511	e2180	267	655
22	1040	223	e221	e1510	1300	218	e2720	232	510	e2130	269	650
23	915	221	e221	e1510	e1280	218	e3730	233	508	e2130	413	646
24	583	221	e604	e1500	e1240	218	e3310	430	507	e2130	568	644
25	303	221	e1460	e1500	e1240	218	e1980	657	565	e2080	566	616
26	222	221	e2010	e1500	e1240	218	e1260	657	665	e2080	565	302
27	214	221	e2080	e1500	e1240	218	1220	561	681	e2040	564	233
28	214	221	e2080	e1480	e1190	216	1220	327	680	e2040	563	236
29	214	221	e2030	e1460	---	206	745	229	680	e1990	631	237
30	214	221	e2030	1460	---	196	481	215	677	e1990	707	239
31	216	---	e2030	1460	---	196	---	455	---	e1950	708	---

TOTAL	27255	6562	19407	48000	37700	19291	28325	37032	13613	42987	19330	18037
MEAN	879	219	626	1548	1346	622	944	1195	454	1387	624	601
MAX	1140	223	2080	1990	1460	1220	3730	4380	681	2180	1910	705
MIN	214	216	221	1460	1190	196	195	209	214	656	267	233

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1991, BY WATER YEAR (WY)

MEAN	543	473	530	766	837	694	671	1007	926	824	742	649
MAX	1410	1427	2572	1646	3034	1535	2566	2801	1746	1680	1646	1530
(WY)	1974	1982	1960	1955	1978	1951	1976	1945	1952	1984	1984	1989
MIN	121	112	152	237	222	192	75.4	193	219	228	301	216
(WY)	1945	1937	1936	1956	1948	1948	1938	1943	1985	1966	1965	1966

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1929 - 1991

ANNUAL TOTAL	282892	317539	
ANNUAL MEAN	775	870	721
HIGHEST ANNUAL MEAN			1203
LOWEST ANNUAL MEAN			335
HIGHEST DAILY MEAN	3180	May 31	6210
LOWEST DAILY MEAN	214	Oct 27	1.9
ANNUAL SEVEN-DAY MINIMUM	215	Oct 27	2.0
INSTANTANEOUS PEAK FLOW			6730
INSTANTANEOUS PEAK STAGE			11.28
10 PERCENT EXCEEDS	1350	9.30 May 3	1370
50 PERCENT EXCEEDS	636		595
90 PERCENT EXCEEDS	221		221

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

DRAINAGE AREA.--227 mi²

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

Chemical analyses: Water year 1954.

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

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

REMARKS.--Estimated daily discharges: Dec. 11, 12, 31, Jan. 12, 19, 22, 24, and Sept. 2-30. Records good including periods of ice effect, Dec. 11, 12, 31, Jan. 12, 19, 22, and 24, and period of no gage-height record, Sept. 2-30.

periods of ice effect, Dec. 11, 12, 31, Jan. 12, 19, 22, and 24, and period of no gage height record, Sept. 2-30. Flow completely regulated by Grand Lake, 0.8 mi upstream, and other lakes, combined usable capacity about 8,250,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--62 years, 395 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s, Feb. 15, gage height, 4.43 ft; minimum daily discharge, 108 ft³/s, Aug. 20-22.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	677	131	148	153	1130	1080	160	268	292	362	755	745
2	771	129	148	153	1110	1060	175	327	292	358	745	e730
3	755	129	148	153	1100	778	175	663	292	358	588	e719
4	722	130	154	153	1090	313	177	1130	291	354	320	e704
5	479	130	158	156	1070	245	179	1120	290	353	254	e688
6	290	132	153	156	1060	245	181	977	292	350	253	e678
7	289	133	138	156	1050	350	184	784	292	349	252	e663
8	288	132	127	157	1040	630	186	784	292	349	258	e663
9	503	131	126	158	1020	764	191	646	292	350	242	e643
10	663	130	125	158	1010	762	196	538	292	349	243	e629
11	648	140	e127	159	1000	762	184	536	294	349	248	e629
12	639	138	e127	e158	982	756	159	535	295	347	246	e614
13	631	137	123	161	974	748	158	512	296	345	245	e562
14	632	137	124	161	964	740	158	378	293	345	245	e504
15	394	135	125	162	1210	733	159	300	292	424	244	e495
16	159	135	127	164	1350	726	161	298	292	639	242	e490
17	127	136	128	167	1320	714	162	298	292	833	242	e490
18	126	137	129	166	1300	599	161	300	291	962	242	e490
19	127	140	132	e167	1270	303	161	297	289	945	185	e481
20	126	140	132	167	1260	177	161	296	288	928	108	e485
21	124	140	131	167	1250	129	163	292	288	914	108	e485
22	124	140	137	e167	1230	128	270	293	288	901	108	e472
23	125	141	138	169	1210	127	518	291	288	879	160	e458
24	134	144	148	e423	1180	129	658	290	288	875	249	e458
25	132	145	148	629	1160	129	662	289	334	857	249	e312
26	132	145	148	627	1140	130	505	288	366	838	302	e215
27	131	145	148	624	1120	132	334	292	365	831	412	e219
28	129	147	148	622	1100	139	332	292	364	821	411	e219
29	132	148	149	619	---	138	332	292	365	806	612	e215
30	132	148	150	831	---	137	332	292	362	785	762	e215
31	132	---	e153	1140	---	137	---	292	---	767	757	---
TOTAL	10473	4125	4297	9203	31700	13940	7534	14190	9147	18923	10287	15370
MEAN	338	137	139	297	1132	450	251	458	305	610	332	512
MAX	771	148	158	1140	1350	1080	662	1130	366	962	762	745
MIN	124	129	123	153	964	127	158	268	288	345	108	215

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1991, BY WATER YEAR (WY)

MEAN	350	226	261	382	476	449	326	411	464	434	486	459
MAX	890	666	1304	1096	1330	1117	1248	1127	1159	843	1173	933
(WY)	1948	1982	1960	1970	1964	1960	1936	1945	1971	1959	1952	1942
MIN	84.5	39.4	20.3	87.8	47.5	39.4	49.7	17.7	54.9	102	129	103
(WY)	1950	1946	1946	1932	1930	1930	1931	1931	1931	1942	1936	1949

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1929 - 1991

ANNUAL TOTAL	149985		149189			
ANNUAL MEAN	411		409		395	
HIGHEST ANNUAL MEAN					701	1960
LOWEST ANNUAL MEAN					178	1931
HIGHEST DAILY MEAN	1860	Jun 1	1350	Feb 16	2780	Jun 13 1952
LOWEST DAILY MEAN	123	Dec 13	108	Aug 20	5.0	Dec 3 1945
ANNUAL SEVEN-DAY MINIMUM	125	Dec 9	125	Dec 9	6.4	Dec 1 1945
INSTANTANEOUS PEAK FLOW			1380	Feb 15	2840	Jun 12 1952
INSTANTANEOUS PEAK STAGE			4.43	Feb 15	6.35	Jun 12 1952
INSTANTANEOUS LOW FLOW			108	Aug 20	5.0	Dec 3 1945
10 PERCENT EXCEEDS	934		935		823	
50 PERCENT EXCEEDS	289		292		292	
90 PERCENT EXCEEDS	132		131		118	

ST. CROIX RIVER BASIN

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

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

DRAINAGE AREA.--1,374 mi².

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

Chemical analyses: Water year 1971.

Water temperatures: October 1959 to September 1976.

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

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

REMARKS.--Estimated daily discharges: Jan. 4, 5, 7-14, 18, 19, 21-23, 25, 26 and Sept. 19. Records good except for periods of ice effect, Jan. 4, 5, 7-14, 18, 19, 21-23, and 25, 26, and periods of no gage-height record, Sept. 19, which are fair. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity about 25,000,000,000 ft³. Final regulation is at Woodland, 5.6 mi upstream from gage. Telephone and satellite gage-height telemeters at station.

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

AVERAGE DISCHARGE.--32 years (water years 1960-current year), 2,662 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,800 ft³/s, Apr. 10, gage height, 10.29 ft; minimum daily, 842 ft³/s, June 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2530	2600	2710	4710	2970	2810	4390	2940	1170	893	2610	2500
2	2870	2680	2370	3720	3010	2730	4260	2900	1020	899	2510	2920
3	3270	2510	1830	3120	2980	2940	4070	3520	992	903	1540	2880
4	3020	2490	2310	e2300	2900	3110	3670	3260	984	897	1090	2030
5	2800	2390	3940	e2400	2940	3220	3480	3760	1750	908	1290	1960
6	3080	2510	3650	2650	2980	3280	3900	4880	1240	915	1530	1860
7	3070	2770	3480	e2500	2950	3460	5420	5990	1030	915	1160	1860
8	2780	2180	3420	e2550	2970	3340	6720	6110	986	919	1150	1860
9	2030	2280	3410	e1900	2960	3350	7100	5450	996	918	1180	1830
10	2360	2240	3370	e1900	2950	3410	9550	4680	989	953	1210	1700
11	2250	3840	2770	e2350	2950	3350	10800	3980	1540	904	2240	1310
12	2330	4430	2220	e2800	2960	3370	9980	2920	1350	870	1950	1110
13	2220	3310	2030	e2350	2960	3330	8520	3070	1090	868	1720	1080
14	2290	3320	2090	e2600	2950	3140	6900	3000	917	999	1640	957
15	2230	3260	2110	2790	2940	3280	5840	2730	901	940	1730	1200
16	1880	3220	2180	2170	2930	3140	5440	2620	900	990	1550	1130
17	2110	2620	2360	2030	2980	3160	5150	1780	908	914	1550	1040
18	2030	2310	2270	e2420	2940	3290	5010	1670	996	1940	1790	1010
19	2260	2280	3030	e2500	2940	3420	4760	2160	1040	2540	2510	e1420
20	2460	2300	3420	2680	2940	3860	3620	2100	890	2670	2920	1280
21	2300	2290	3290	e2300	2950	3870	4490	1780	893	2550	2370	1220
22	2610	2280	3100	e2750	2950	4320	6470	1740	901	2670	2450	1720
23	3270	2270	3530	e3000	2970	4420	7620	1660	913	2700	2490	1690
24	3530	2300	7210	2950	2950	4290	8430	1690	927	2870	2430	1790
25	3790	2320	9180	e2700	2940	3750	8540	1470	942	2670	2280	2610
26	3480	2310	9420	e2950	2920	3250	7050	1390	884	2600	2240	3810
27	3260	2260	8860	3190	2870	3120	5850	1520	842	2620	2290	5010
28	3310	2430	7580	2930	2700	3630	4730	1460	853	2600	2090	5940
29	3490	2710	5490	2940	---	4280	3360	1140	917	2580	2400	5720
30	3350	2290	4780	2920	---	4480	3080	973	883	2570	2570	4680
31	2820	---	4840	2970	---	4410	---	1060	---	2600	2520	---
TOTAL	85080	79000	122250	84040	82350	108810	178200	85403	30644	51785	61000	67127
MEAN	2745	2633	3944	2711	2941	3510	5940	2755	1021	1670	1968	2238
MAX	3790	4430	9420	4710	3010	4480	10800	6110	1750	2870	2920	5940
MIN	1880	2180	1830	1900	2700	2730	3080	973	842	868	1090	957

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1991, BY WATER YEAR (WY)

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	1864	2379	2835	2349	2807	2949	5258	3952	2529	1697	1659	1720																				
MAX	3865	5679	8397	5303	6031	6164	9438	7403	6054	3884	2987	3269																				
(WY)	1982	1964	1960	1978	1978	1979	1976	1989	1977	1984	1981	1981																				
MIN	555	381	853	837	964	1307	2024	1076	967	652	636	855																				
(WY)	1965	1965	1979	1985	1985	1967	1985	1987	1966	1966	1966	1978																				

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1960 - 1991
ANNUAL TOTAL	1070501	1035689	
ANNUAL MEAN	2933	2838	2662
HIGHEST ANNUAL MEAN			3863
LOWEST ANNUAL MEAN			1280
HIGHEST DAILY MEAN	10100	May 31	23200
LOWEST DAILY MEAN	901	Jul 8	262
ANNUAL SEVEN-DAY MINIMUM	962	Jul 7	327
INSTANTANEOUS PEAK FLOW			23500
INSTANTANEOUS PEAK STAGE			10.29
10 PERCENT EXCEEDS	5220	4690	4920
50 PERCENT EXCEEDS	2600	2620	2210
90 PERCENT EXCEEDS	1210	991	969

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

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

DRAINAGE AREA.--1,460 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1972 to current year.

pH: July 1972 to current year.

WATER TEMPERATURE: September 1969 to current year.

DISSOLVED OXYGEN: September 1969 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 375 microsiemens, Mar. 6, 1989; minimum, 23 microsiemens, May 2-4, 6, 1979.

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

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 150 microsiemens, June 28, 29; minimum, 36 microsiemens, Dec. 26, 27.

pH: Maximum, 7.1 units, Sept. 15, 24, 25; minimum, 6.4 units, Dec. 26-29.

WATER TEMPERATURE: Maximum, 27.0°C, July 20, 21; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 13.9 mg/L, Dec. 28; minimum, 5.7 mg/L, June 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS	SPE- CIFIC CON- DUCT- ANCE	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
		(CFS) (00061)	(US/CM) (00095)		(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MM OF HG) (00025)	(MG/L) (00300)	(MG/L) (00301)	(31625)	(31673)	
OCT													
18...	1000	1990	80	7.0	16.5	13.5	2.0	760	9.1	88		K 11	67
FEB													
21...	1045	2950	68	6.9	3.0	0.5	1.4	755	13.0	91		44	K 11
APR													
16...	1200	5640	43	6.7	3.0	4.0	2.3	755	13.1	103		65	31
AUG													
16...	0630	1740	84	6.8	20.0	24.0	1.9	750	6.7	81		K 15	K 790
DATE		HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	CAR- BONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	ALKA- LINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
OCT													
18...	14	4.5	0.72	9.6	1.0	17	0	14	15	9.3	9.1		
FEB													
21...	15	4.6	0.80	7.5	0.6	13	0	11	12	5.6	7.2		
APR													
16...	11	3.3	0.64	4.0	0.4	8	0	7	9.1	4.1	4.3		
AUG													
16...	17	5.4	0.79	9.5	0.8	15	0	12	14	9.0	12		

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 18...	<0.1	2.1	58	46	<0.10	0.04	0.05	0.4	0.05	0.04	0.01
FEB 21...	<0.1	3.2	41	37	<0.10	0.04	0.05	0.4	0.01	<0.01	<0.01
APR 16...	0.1	2.5	24	24	<0.05	0.03	0.04	<0.2	0.03	<0.01	<0.01
AUG 16...	<0.1	1.7	68	47	0.09	0.05	0.06	0.5	0.03	0.02	0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 18...	80	<1	6	<0.5	<1.0	<1	<3	2	110	1	<4	30
FEB 21...	90	<1	20	<0.5	<1.0	<1	<3	1	91	4	<4	36
APR 16...	100	<1	4	<0.5	<1.0	<1	<3	<1	81	3	<4	22
AUG 16...	60	<1	8	<0.5	<1.0	<1	<3	1	130	<1	<4	54

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, DIS- SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 18...	<0.1	<10	1	<1	<1	21	<6	16	5	27	90
FEB 21...	<0.1	<10	<1	<1	<1	21	<6	8	1	8.0	100
APR 16...	<0.1	<10	2	<1	<1	16	<6	13	1	15	100
AUG 16...	<0.1	<10	<1	<1	<1	25	<6	3	1	4.7	100

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	72	64	68	80	76	78	78	49	57	50	49	50
2	82	62	77	79	74	76	82	65	75	56	50	52
3	75	62	71	79	74	75	93	77	85	62	56	59
4	73	69	72	78	77	77	94	84	90	73	59	63
5	81	69	77	82	78	80	85	61	69	71	56	62
6	77	70	74	81	76	79	61	57	58	68	62	64
7	73	69	72	79	69	76	62	58	60	69	66	68
8	74	67	70	86	69	77	63	61	62	69	63	66
9	86	74	77	80	78	79	62	60	61	82	65	74
10	92	80	86	80	79	79	61	59	60	85	66	75
11	86	80	83	83	60	75	66	59	62	83	66	72
12	86	80	83	60	57	58	94	57	68	71	65	68
13	85	81	83	68	60	65	68	58	64	70	65	67
14	85	83	84	67	64	66	77	68	73	68	63	65
15	86	79	82	69	67	69	75	71	73	68	59	63
16	86	82	84	71	69	70	76	74	75	72	64	67
17	96	84	89	76	70	71	77	71	75	86	70	76
18	90	85	86	82	77	80	72	66	69	83	71	77
19	86	80	83	82	81	81	71	58	67	71	62	67
20	81	78	80	85	82	83	58	54	56	69	63	66
21	79	77	78	84	83	84	55	54	55	84	69	74
22	87	75	82	84	79	81	61	54	57	71	68	69
23	73	69	70	82	81	82	59	55	57	71	69	70
24	71	68	70	84	82	83	56	42	49	71	70	71
25	68	63	65	83	77	79	41	39	40	71	67	70
26	66	63	64	79	76	78	38	36	37	69	67	68
27	68	64	66	79	73	75	37	36	37	70	66	67
28	72	69	70	81	75	77	41	37	38	72	70	71
29	72	68	70	82	67	71	46	41	44	75	72	73
30	70	69	70	82	72	76	49	47	49	75	72	72
31	75	70	72	---	---	---	49	48	49	76	73	75
MONTH	96	62	76	86	57	76	94	36	60	86	49	68

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	75	71	73	77	73	74	57	57	57	64	61	62
2	72	59	64	74	71	73	59	57	57	65	63	64
3	76	69	73	84	73	78	59	56	57	63	57	61
4	78	76	77	74	71	72	61	58	59	60	56	58
5	79	77	78	73	72	72	61	59	60	62	55	60
6	75	68	70	75	73	73	61	57	60	55	52	53
7	79	72	77	74	70	72	56	48	54	51	46	49
8	78	74	75	70	67	69	48	47	48	46	45	46
9	74	72	73	69	66	67	48	43	47	49	46	47
10	74	73	73	66	64	65	43	39	42	52	49	50
11	73	71	72	64	63	64	39	37	38	56	52	54
12	77	72	74	64	62	63	38	37	37	66	56	60
13	82	78	81	66	63	64	40	38	38	67	65	66
14	81	78	80	71	66	67	42	40	40	67	62	63
15	78	73	76	70	67	68	46	42	44	70	67	69
16	74	72	73	71	67	69	48	46	46	73	68	70
17	77	72	74	70	62	65	49	48	48	79	69	72
18	75	73	74	63	55	58	50	48	49	104	80	93
19	74	73	74	60	54	56	52	49	50	93	79	87
20	75	72	72	61	58	60	60	52	55	81	76	77
21	76	73	74	61	57	59	62	49	58	87	79	83
22	75	72	74	63	57	61	50	47	49	90	85	86
23	77	72	74	58	57	58	---	---	---	94	85	89
24	75	70	72	60	57	58	---	---	---	93	89	91
25	71	69	71	63	59	60	41	40	40	93	90	91
26	71	68	70	67	63	64	---	---	---	103	93	100
27	72	70	71	68	66	67	46	45	45	106	100	103
28	74	71	72	73	63	67	52	47	48	105	95	101
29	---	---	---	63	56	60	59	53	56	110	94	101
30	---	---	---	57	56	56	62	60	61	116	110	113
31	---	---	---	58	57	57	---	---	---	128	118	124
MONTH	82	59	74	84	54	65	62	37	50	128	45	76

ST. CROIX RIVER BASIN

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

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBER	MEAN
1	125	112	119	146	139	142	68	64	65	80	75	77
2	116	111	113	143	137	140	68	64	66	77	71	74
3	125	116	121	143	135	139	69	63	66	72	70	71
4	127	119	123	140	134	137	---	---	---	86	69	76
5	128	90	119	140	132	136	---	---	---	89	84	87
6	90	78	82	138	129	134	---	---	---	90	85	88
7	112	91	106	136	132	134	118	102	107	93	89	90
8	123	111	118	136	131	133	129	119	125	93	91	92
9	127	119	123	135	129	132	130	121	125	94	91	92
10	129	118	124	132	128	130	127	116	121	96	93	95
11	128	107	121	131	123	127	123	84	106	102	95	98
12	102	83	91	136	124	130	83	79	80	129	102	116
13	107	95	99	136	129	133	88	82	86	130	124	127
14	128	106	115	134	127	131	93	84	88	136	121	128
15	130	125	127	129	119	123	98	91	94	141	130	137
16	136	130	134	130	122	126	91	88	90	126	81	102
17	138	129	134	---	---	---	105	87	96	81	57	66
18	141	131	136	---	---	---	94	65	76	64	57	62
19	138	120	129	80	70	73	85	77	83	66	58	63
20	134	116	127	70	67	68	80	66	71	57	52	54
21	145	134	139	72	67	70	76	71	74	56	53	54
22	147	136	141	72	68	70	76	68	73	55	54	55
23	146	138	141	70	68	69	74	71	73	64	54	60
24	144	137	140	69	65	67	76	72	74	78	64	71
25	143	130	138	69	66	68	78	74	76	83	74	78
26	141	131	137	69	67	68	80	76	78	79	64	70
27	145	134	140	69	67	68	81	79	80	64	52	59
28	150	140	145	---	---	---	84	77	79	52	51	51
29	150	135	144	64	61	63	85	79	81	52	51	52
30	145	132	139	67	64	66	79	76	76	57	51	53
31	---	---	---	67	64	66	79	75	77	---	---	---
MONTH	150	78	125	146	61	105	130	63	85	141	51	80
YEAR	150	36	78									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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

ST. CROIX RIVER BASIN

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	.0	.0	.0	1.0	.0	.5	3.0	2.0	2.0	11.0	10.5	10.5
2	.0	.0	.0	2.0	1.0	1.5	4.0	2.0	3.0	11.5	10.0	11.0
3	.0	.0	.0	2.0	1.0	1.5	4.5	2.0	3.0	11.5	10.5	11.0
4	.5	.0	.0	1.0	.0	.5	5.0	2.5	4.0	10.5	10.0	10.5
5	.5	.0	.5	1.0	.5	1.0	5.5	3.5	4.5	12.5	10.0	11.0
6	1.0	.5	.5	2.0	.0	1.0	5.5	4.0	5.0	11.5	10.5	11.0
7	.5	.5	.5	1.0	1.0	1.0	4.5	4.0	4.5	12.0	10.5	11.0
8	1.0	.5	1.0	1.0	.5	1.0	4.5	4.0	4.0	12.0	10.5	11.0
9	1.0	.5	1.0	1.0	.0	.5	4.0	3.0	3.5	13.5	10.5	12.0
10	1.0	.5	.5	.5	.0	.5	3.0	2.5	3.0	14.0	11.5	13.0
11	1.0	.0	.5	1.0	.5	.5	2.5	2.0	2.5	14.5	12.0	13.5
12	.5	.0	.0	1.5	.0	1.0	2.5	2.0	2.0	15.5	13.0	14.5
13	.5	.0	.0	1.5	.5	1.0	3.5	2.0	2.5	16.5	13.5	15.0
14	.0	.0	.0	2.0	.5	1.5	5.0	2.5	3.5	16.5	14.5	15.5
15	.5	.0	.5	2.0	.5	1.5	5.0	3.5	4.0	17.5	15.0	16.5
16	.5	.0	.5	2.0	.5	1.0	4.5	4.0	4.0	18.0	15.0	16.5
17	.5	.0	.0	2.5	1.0	1.5	5.0	3.5	4.0	17.5	16.0	16.5
18	.5	.0	.5	2.0	.5	1.5	6.0	3.5	4.5	16.5	15.0	16.0
19	.5	.0	.0	2.0	1.5	1.5	6.5	4.0	5.5	17.5	15.0	16.0
20	1.0	.5	1.0	2.0	1.0	1.5	7.5	5.0	6.0	18.5	15.5	17.0
21	1.5	.0	1.0	2.0	.0	1.0	7.0	6.0	6.0	19.0	16.5	18.0
22	1.5	.5	1.0	2.0	.5	1.5	6.0	6.0	6.0	19.5	18.0	19.0
23	1.0	.0	.0	2.0	.5	1.5	---	---	---	19.0	17.5	18.0
24	.5	.0	.0	1.5	.5	1.0	---	---	---	19.0	17.0	18.0
25	.5	.0	.5	2.5	1.0	2.0	8.0	6.0	7.0	21.0	19.0	20.0
26	1.0	.0	.5	3.5	1.0	2.0	---	---	---	20.5	20.0	20.0
27	1.0	.0	.5	4.0	1.5	2.5	10.0	8.0	9.0	20.5	17.0	18.5
28	1.0	.0	.5	3.0	2.5	2.5	11.0	8.5	9.5	18.5	17.0	17.5
29	---	---	---	3.5	2.0	2.5	12.0	9.5	10.5	20.0	18.5	19.0
30	---	---	---	2.5	2.0	2.0	12.5	10.0	11.5	20.0	18.5	19.5
31	---	---	---	3.5	1.5	2.5	---	---	---	19.0	18.0	18.5
MONTH	1.5	.0	.5	4.0	.0	1.5	12.5	2.0	5.0	21.0	10.0	15.5

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBER	MEAN
1	18.0	17.5	18.0	23.0	21.5	22.5	26.0	23.5	24.5	21.5	20.0	20.5
2	20.0	17.5	19.0	23.0	21.0	22.0	25.0	23.5	24.5	20.5	19.0	20.0
3	20.5	20.0	20.0	24.0	22.5	23.0	24.5	23.5	24.5	21.5	19.0	20.5
4	20.0	18.5	19.5	24.5	22.5	23.5	---	---	---	21.0	19.5	20.5
5	18.0	17.0	17.5	24.5	23.0	23.5	---	---	---	21.5	20.5	21.0
6	19.0	17.0	18.0	23.0	21.5	22.5	---	---	---	21.5	20.0	20.5
7	21.0	19.0	20.0	21.5	21.0	21.5	24.0	22.5	23.5	21.0	20.0	20.5
8	22.0	20.5	21.0	21.0	20.5	21.0	24.5	24.0	24.0	21.0	19.5	20.5
9	21.5	20.5	21.0	21.0	20.0	20.5	24.5	24.0	24.5	21.0	19.0	20.0
10	22.0	21.0	21.5	21.5	19.5	20.5	24.5	21.0	23.0	21.0	19.0	20.0
11	22.5	21.5	22.0	22.5	20.5	21.5	23.5	21.0	22.0	21.0	19.5	20.0
12	23.0	21.5	22.5	23.5	21.0	22.0	23.0	21.5	22.5	19.0	18.0	18.5
13	22.5	19.0	21.0	24.0	22.5	23.0	24.5	22.0	23.5	18.5	18.0	18.5
14	19.0	18.0	18.5	22.5	20.5	22.0	25.5	23.5	24.5	19.5	18.5	19.0
15	19.5	17.5	19.0	22.5	20.0	21.5	25.5	24.5	25.0	20.0	18.5	19.0
16	20.5	17.5	18.5	24.5	22.5	23.5	25.0	24.0	24.5	19.0	18.5	18.5
17	21.0	19.5	20.5	---	---	---	25.5	24.0	24.5	20.5	19.0	20.0
18	22.0	20.0	21.0	---	---	---	25.5	23.5	24.5	20.5	19.0	20.0
19	22.0	21.5	22.0	26.5	24.0	25.0	25.0	22.5	23.5	20.0	18.0	19.5
20	23.5	21.5	22.5	27.0	24.5	26.0	22.5	21.5	22.0	18.0	16.5	17.5
21	24.5	23.0	23.5	27.0	26.0	26.5	22.0	20.5	21.0	16.5	16.0	16.5
22	23.0	22.0	22.5	26.5	25.0	25.5	21.5	20.0	21.0	17.0	16.0	16.5
23	23.0	22.0	22.5	26.0	23.5	24.0	22.5	20.5	21.5	17.0	16.0	16.5
24	23.0	22.0	22.5	26.0	23.0	24.5	22.0	20.5	21.5	17.5	16.5	17.0
25	23.5	22.0	23.0	25.5	23.5	24.5	22.0	20.5	21.5	17.5	15.5	16.0
26	24.0	23.0	23.5	25.0	23.5	24.5	21.5	19.5	20.5	16.0	15.0	15.5
27	25.5	23.0	24.0	24.5	23.5	24.0	21.5	20.0	21.0	16.0	14.5	15.0
28	26.5	24.5	25.0	---	---	---	22.0	21.0	21.5	15.0	14.0	14.5
29	25.5	23.5	25.0	26.0	23.0	24.5	23.5	21.0	22.0	14.0	13.0	13.5
30	24.0	23.0	23.5	26.0	24.0	25.0	24.0	21.5	23.0	13.0	12.0	12.5
31	---	---	---	25.5	24.0	24.5	23.5	22.0	22.5	---	---	---
MONTH	26.5	17.0	21.5	27.0	19.5	23.5	26.0	19.5	23.0	21.5	12.0	18.5
YEAR	27.0	.0	10.5									

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN OCTOBER	MEAN	MAX	MIN NOVEMBER	MEAN	MAX	MIN DECEMBER	MEAN	MAX	MIN JANUARY	MEAN
1	8.9	7.4	8.1	11.9	11.4	11.6	13.0	12.7	12.9	13.4	13.3	13.4
2	9.0	8.7	8.8	11.7	11.6	11.6	12.9	12.7	12.8	13.4	13.1	13.2
3	9.3	8.8	9.1	11.6	11.4	11.4	13.0	12.7	12.8	13.1	12.9	13.1
4	9.4	9.1	9.2	11.4	11.3	11.4	13.1	12.9	13.0	13.0	12.9	13.0
5	9.3	9.0	9.2	11.4	11.2	11.3	12.8	12.6	12.7	13.0	12.9	13.0
6	9.3	9.1	9.2	11.5	11.2	11.4	12.8	12.6	12.7	13.0	12.8	12.9
7	9.2	9.0	9.1	11.7	11.4	11.6	13.0	12.8	12.9	13.0	12.8	12.9
8	9.1	8.9	9.0	11.9	11.4	11.6	13.0	12.9	13.0	13.3	13.0	13.1
9	9.0	8.8	8.9	12.3	11.9	12.1	13.1	12.9	13.0	13.2	13.0	13.1
10	9.1	8.8	8.9	12.2	12.1	12.2	13.1	13.0	13.0	13.0	12.8	12.9
11	9.1	9.0	9.0	12.2	11.6	11.9	13.4	13.1	13.2	13.1	12.8	12.9
12	9.0	8.8	8.9	12.5	12.2	12.4	13.7	13.3	13.5	13.0	12.7	12.8
13	9.0	8.7	8.9	12.9	12.4	12.7	13.4	12.8	13.1	12.7	12.5	12.6
14	8.9	8.6	8.7	13.2	12.9	13.1	13.3	12.8	13.1	12.6	12.3	12.4
15	8.7	8.5	8.6	13.2	13.0	13.1	13.3	13.0	13.2	12.5	12.3	12.4
16	8.8	8.5	8.6	13.1	13.0	13.1	13.1	12.8	12.9	12.5	12.4	12.5
17	8.9	8.6	8.8	13.0	12.7	12.9	13.0	12.8	12.9	12.5	12.2	12.3
18	8.9	8.6	8.7	12.9	12.8	12.8	13.0	12.8	12.9	12.5	12.2	12.4
19	9.3	8.7	8.9	13.0	12.9	12.9	12.8	12.6	12.7	12.8	12.4	12.7
20	9.6	9.3	9.5	13.0	12.9	13.0	12.8	12.6	12.7	12.7	12.3	12.5
21	9.8	9.6	9.7	13.1	12.9	13.0	12.8	12.7	12.8	12.7	12.3	12.5
22	9.8	9.5	9.7	13.1	13.0	13.1	12.8	12.6	12.7	12.8	12.6	12.7
23	9.8	9.6	9.7	13.1	12.9	13.0	12.8	12.6	12.7	12.8	12.6	12.8
24	10.0	9.7	9.9	12.9	12.6	12.7	13.0	12.6	12.8	12.8	12.6	12.7
25	9.9	9.6	9.8	12.8	12.5	12.7	13.5	13.0	13.3	12.9	12.7	12.8
26	10.1	9.7	9.9	13.0	12.7	12.9	13.6	13.5	13.5	12.8	12.7	12.8
27	10.6	10.0	10.3	13.2	12.9	13.1	13.8	13.6	13.7	12.8	12.6	12.7
28	10.7	10.4	10.5	13.0	12.7	12.9	13.9	13.5	13.8	12.6	12.4	12.5
29	10.9	10.5	10.7	12.8	12.6	12.7	13.5	13.1	13.4	12.6	12.5	12.6
30	11.1	10.8	11.0	12.7	12.4	12.6	13.2	13.1	13.1	12.6	12.5	12.6
31	11.4	11.1	11.3	---	---	---	13.3	13.0	13.1	12.5	12.4	12.5
MONTH	11.4	7.4	9.4	13.2	11.2	12.4	13.9	12.6	13.0	13.4	12.2	12.8

01021200 DENNY'S RIVER AT DENNYVILLE, ME

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

DRAINAGE AREA.--92.9 mi².

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

Water temperatures: October 1958 to September 1972.

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

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

REMARKS.--Estimated daily discharges: Dec. 11-15, 20-22, 25-29, Jan. 1-16, Jan. 19 to Feb. 2, Feb. 12-14, 17-19, and 22-27. Records good except for periods of ice effect, Dec. 11-15, 20-22, 25-29, Jan. 1-16, Jan. 19 to Feb. 2, Feb. 12-14, 17-19, and 22-27, which are fair. Flow slightly regulated by dam at outlet of Meddybumps Lake, 14 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years, 193 ft³/s, 28.25 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 05	0600	*1,220	*5.29	Apr. 22	1200	1,020	4.70
Mar. 8	0300	851	4.20	Sept. 27	0400	922	4.42
Mar. 20	0300	806	4.06				

Minimum discharge, 50 ft³/s, Sept. 13-15, 18, 19, gage height 0.87 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	235	190	e270	e165	159	298	229	191	93	63	96
2	142	198	177	e220	e170	218	265	242	187	92	60	89
3	145	183	169	e190	198	572	282	248	175	91	58	84
4	128	172	341	e165	189	469	291	249	166	89	57	81
5	167	163	1100	e150	189	471	328	231	161	88	106	78
6	198	226	770	e135	189	419	399	214	160	87	260	70
7	168	425	498	e120	186	464	444	314	156	86	213	62
8	139	336	352	e110	193	769	464	336	151	86	139	59
9	122	260	352	e110	194	531	446	283	148	85	97	56
10	143	214	311	e105	188	374	598	239	144	83	105	53
11	162	541	e245	e100	183	289	692	212	127	82	640	53
12	155	544	e200	e98	e170	241	511	199	118	81	501	53
13	217	388	e185	e97	e160	216	382	189	118	80	316	51
14	385	286	e185	e96	e160	210	320	177	118	88	184	50
15	340	232	e185	e96	180	213	286	167	115	87	125	50
16	241	206	321	e150	185	199	292	160	116	82	110	52
17	162	190	475	250	e170	191	303	159	122	79	92	53
18	123	195	388	276	e160	200	292	197	120	79	81	51
19	193	228	511	e230	e160	454	268	192	114	78	117	51
20	269	268	e410	e210	177	770	248	173	110	73	458	63
21	210	255	e320	e190	200	588	270	160	108	59	520	68
22	159	227	e350	e180	e190	415	952	125	105	54	520	65
23	153	212	355	e170	e185	303	827	101	104	54	377	59
24	393	247	495	e165	e180	256	593	96	102	80	246	60
25	618	316	e600	e160	e175	224	437	94	101	108	168	112
26	462	311	e420	e155	e170	215	353	95	99	91	129	559
27	334	263	e270	e150	e165	240	310	135	98	145	127	853
28	255	241	e230	e145	163	484	280	194	97	123	138	599
29	267	228	e250	e145	---	590	254	170	97	92	126	370
30	349	211	261	e155	---	481	235	179	95	76	109	241
31	291	---	293	e160	---	357	---	188	---	67	101	---
TOTAL	7220	8001	11209	4953	4994	11582	11920	5947	3823	2638	6343	4241
MEAN	233	267	362	160	178	374	397	192	127	85.1	205	141
MAX	618	544	1100	276	200	770	952	336	191	145	640	853
MIN	122	163	169	96	160	159	235	94	95	54	57	50
CFSM	2.51	2.87	3.89	1.72	1.92	4.02	4.28	2.07	1.37	.92	2.20	1.52
IN.	2.89	3.20	4.49	1.98	2.00	4.64	4.77	2.38	1.53	1.06	2.54	1.70

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1991, BY WATER YEAR (WY)

	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991		
MEAN	112	198	221	191	195	253	452	284	168	94.2	73.7	80.6																										
MAX	317	505	508	457	548	599	737	732	382	203	205	201																										
(WY)	1978	1964	1974	1958	1976	1979	1969	1972	1977	1984	1991	1981																										
MIN	11.7	50.5	48.5	42.3	79.7	128	134	96.4	35.4	25.3	15.7	11.4																										
(WY)	1958	1979	1956	1985	1957	1971	1985	1957	1965	1965	1956	1957																										

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1956 - 1991
ANNUAL TOTAL	90688	82871	
ANNUAL MEAN	248	227	193
HIGHEST ANNUAL MEAN			292
LOWEST ANNUAL MEAN			96.0
HIGHEST DAILY MEAN	1100	Dec 5	3350
LOWEST DAILY MEAN	28	Sep 14	8.6
ANNUAL SEVEN-DAY MINIMUM	50	Sep 9	9.5
INSTANTANEOUS PEAK FLOW			1220
INSTANTANEOUS PEAK STAGE			5.29
INSTANTANEOUS LOW FLOW			50
ANNUAL RUNOFF (CFSM)	2.67	2.44	2.08
ANNUAL RUNOFF (INCHES)	36.31	33.18	28.25
10 PERCENT EXCEEDS	478	460	424
50 PERCENT EXCEEDS	208	185	130
90 PERCENT EXCEEDS	81	81	42

01022260 PLEASANT RIVER NEAR EPPING, ME

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

DRAINAGE AREA.--60.6 mi².

PERIOD OF RECORD.--July 1980 to September 1991 (discontinued).

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

REMARKS.--Estimated daily discharges: Dec. 11, 12, 14, 15, 21, 22, 27-29, Jan. 1, 2, 4, 5, Jan. 7 to Feb. 3, Feb. 10-19, and Feb. 23 to Mar. 1. Records good except for periods of ice-effect, Dec. 11, 12, 14, 15, 21, 22, 27-29, Jan. 1, 2, 4, 5, Jan. 7 to Feb. 3, Feb. 10-19, and Feb. 23 to Mar. 1, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--11 years, 142 ft³/s, 31.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft³/s, May 13, 1989, gage height, 10.77 ft; minimum, 17 ft³/s, Sept. 10, 1980, gage height, 4.99 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	2230	*600	8.55	Mar. 21	0230	549	8.33
Jan. 15	0500	(ice jam)	*9.03	Apr. 24	1245	469	8.02
Mar. 9	1145	581	8.47				

Minimum discharge 17 ft³/s, July 22, gage height 5.01 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	170	154	e244	e105	e81	312	191	125	36	25	57
2	60	139	140	e224	e105	106	267	189	117	32	23	51
3	61	121	130	200	e105	223	236	185	103	30	22	46
4	60	112	171	e179	105	304	219	178	91	30	22	41
5	70	103	317	e165	105	338	212	175	87	27	38	39
6	63	120	480	146	111	361	212	163	83	25	93	38
7	85	198	570	e133	113	385	225	211	76	26	78	38
8	76	224	474	e121	115	420	259	253	66	29	52	35
9	67	218	405	e110	116	548	291	271	61	29	39	32
10	68	179	355	e105	e115	476	325	247	59	26	43	32
11	81	210	e307	e105	e110	375	367	206	55	24	155	31
12	85	247	e287	e100	e94	314	388	174	49	24	207	30
13	91	284	233	e100	e86	274	378	150	48	22	190	29
14	129	292	e205	e98	e87	248	332	136	49	27	113	29
15	156	261	e193	e96	e88	232	285	125	47	43	74	30
16	147	218	218	e94	e105	209	255	116	50	38	57	34
17	118	178	246	e110	e99	192	245	109	62	31	48	39
18	97	153	270	e140	e95	184	241	130	82	28	44	36
19	98	147	295	e185	e87	256	231	144	70	25	53	34
20	141	163	294	e180	96	396	214	128	60	23	128	44
21	143	176	e299	e170	117	529	203	115	55	20	173	62
22	119	176	e295	e160	128	505	282	104	50	19	179	56
23	99	161	281	e145	e130	404	364	93	46	21	166	47
24	128	162	291	e140	e125	327	453	81	44	26	131	46
25	195	186	314	e135	e110	276	436	87	40	27	100	77
26	221	205	344	e125	e94	250	370	81	38	24	80	238
27	229	206	e359	e120	e83	237	310	105	36	48	71	331
28	210	196	e341	e115	e81	257	262	185	36	59	78	401
29	189	181	e295	e110	---	303	229	198	38	42	72	405
30	188	168	263	e105	---	356	203	157	40	33	62	344
31	188	---	254	e105	---	355	---	128	---	29	57	---
TOTAL	3722	5554	9080	4265	2910	9721	8606	4815	1863	923	2673	2752
MEAN	120	185	293	138	104	314	287	155	62.1	29.8	86.2	91.7
MAX	229	292	570	244	130	548	453	271	125	59	207	405
MIN	60	103	130	94	81	81	203	81	36	19	22	29
CFSM	1.98	3.06	4.83	2.27	1.71	5.17	4.73	2.56	1.02	.49	1.42	1.51
IN.	2.28	3.41	5.57	2.62	1.79	5.97	5.28	2.96	1.14	.57	1.64	1.69

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1991, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	86.0	158	174	105	161	198	306	190	118	69.8	67.7	64.1
MAX	180	267	315	159	352	314	477	459	270	149	144	140
(WY)	1982	1989	1984	1982	1981	1991	1982	1989	1984	1984	1986	1981
MIN	34.3	55.9	63.1	46.3	74.1	110	129	122	49.1	29.8	31.7	31.3
(WY)	1985	1985	1990	1989	1989	1987	1985	1987	1988	1991	1987	1984

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR

	1990	1991	1980-1991
ANNUAL TOTAL	60004	56884	
ANNUAL MEAN	164	156	142
HIGHEST ANNUAL MEAN			194
LOWEST ANNUAL MEAN			87.6
HIGHEST DAILY MEAN	570	570	1210
LOWEST DAILY MEAN	26	19	17
ANNUAL SEVEN-DAY MINIMUM	27	23	18
INSTANTANEOUS PEAK FLOW		600	1240
INSTANTANEOUS PEAK STAGE		9.03	10.77
INSTANTANEOUS LOW FLOW		17	17
ANNUAL RUNOFF (CFSM)	2.71	2.57	2.34
ANNUAL RUNOFF (INCHES)	36.83	34.92	31.74
10 PERCENT EXCEEDS	328	315	301
50 PERCENT EXCEEDS	137	125	96
90 PERCENT EXCEEDS	43	34	38

01022340 EAST BRANCH BEAR BROOK NEAR BEDDINGTON, ME

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

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

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

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

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

REMARKS.--Estimated daily discharges: Nov. 2, 14, May 9, July 14, 23, 24, and Aug. 5, 10. Records excellent except for flows between 0.10 ft³/s and 0.010 ft³/s, and periods of missing gage-height record, Nov. 2, 14, May 9, and Aug. 10, which are good, and for flows below 0.010 ft³/s, and periods of doubtful stage-discharge relationship, July 14, 23, 24, and Aug. 5, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9.91 ft³/s, Mar. 27, 1988, gage height, 6.39 ft; no flow for several days in 1988-91.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 24	1200	2.90	5.85	Dec. 4	1740	*8.54	*6.31
Nov. 11	0340	2.81	5.84	Mar. 7	1515	3.73	5.94

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.065	.084	.10	.14	.026	.027	.15	.098	.036	.000	.000	.000
2	.048	e.072	.093	.11	.022	.82	.14	.099	.029	.000	.000	.000
3	.039	.069	.074	.093	.024	1.08	.16	.093	.020	.000	.000	.000
4	.029	.060	1.82	.072	.030	.37	.18	.11	.020	.000	.000	.000
5	.14	.057	.81	.061	.033	.54	.27	.093	.020	.000	e.006	.000
6	.087	.15	.27	.060	.037	.24	.30	.083	.016	.000	.000	.000
7	.053	.19	.18	.053	.038	1.16	.53	.59	.013	.000	.000	.000
8	.039	.12	.14	.031	.032	.51	.50	.25	.009	.000	.000	.000
9	.033	.096	.12	.031	.032	.20	.33	e.15	.005	.000	.000	.000
10	.099	.11	.10	.032	.032	.14	.42	.12	.004	.000	e.021	.000
11	.094	1.20	.078	.029	.032	.11	.36	.10	.003	.000	.026	.000
12	.18	.27	.065	.028	.032	.094	.23	.084	.002	.000	.003	.000
13	.19	.16	.071	.032	.030	.085	.17	.072	.003	.000	.001	.000
14	.32	e.11	.063	.027	.027	.083	.13	.063	.003	e.002	.000	.000
15	.18	.097	.054	.027	.047	.078	.12	.056	.002	.000	.000	.000
16	.11	.088	.17	.031	.036	.069	.16	.049	.004	.000	.000	.000
17	.084	.074	.16	.22	.029	.075	.15	.058	.043	.000	.000	.000
18	.066	.071	.32	.11	.027	.081	.13	.099	.021	.000	.000	.000
19	.11	.070	.67	.073	.024	.84	.10	.064	.008	.000	.013	.000
20	.10	.061	.23	.060	.073	.44	.10	.050	.005	.000	.049	.001
21	.076	.058	.15	.058	.062	.22	.26	.041	.003	.000	.059	.001
22	.064	.052	.43	.048	.056	.15	.83	.033	.002	.000	.040	.000
23	.066	.063	.53	.043	.054	.12	.39	.025	.001	e.001	.016	.000
24	1.35	.27	.96	.038	.045	.10	.22	.023	.001	e.001	.006	.000
25	.42	.28	.37	.033	.038	.087	.16	.020	.001	.000	.003	.46
26	.19	.21	.19	.032	.034	.088	.12	.014	.000	.000	.002	.79
27	.13	.15	.13	.028	.032	.15	.10	.15	.000	.000	.003	.33
28	.10	.23	.10	.027	.029	.92	.094	.093	.000	.000	.004	.12
29	.17	.19	.098	.024	---	.46	.081	.057	.001	.000	.002	.077
30	.14	.14	.13	.027	---	.27	.070	.038	.000	.000	.001	.082
31	.10	---	.22	.030	---	.17	---	.040	---	.000	.000	---
TOTAL	4.872	4.852	8.896	1.708	1.013	9.777	6.955	2.915	0.275	0.004	0.255	1.861
MEAN	.16	.16	.29	.055	.036	.32	.23	.094	.009	.000	.008	.062
MAX	1.35	1.20	1.82	.22	.073	1.16	.83	.59	.043	.002	.059	.79
MIN	.029	.052	.054	.024	.022	.027	.070	.014	.000	.000	.000	.000
CAL YR 1990	TOTAL	51.289	MEAN	.14	MAX	1.82	MIN	.000				
WTR YR 1991	TOTAL	43.383	MEAN	.12	MAX	1.82	MIN	.000				

e Estimated

NARRAGUAGUS RIVER BASIN
01022350 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME

LOCATION.--Lat 44°51'34", long 68°06'23", Hancock County, Hydrologic Unit 01050002, on left bank 600 ft upstream from confluence with the East Branch Bear Brook and 0.7 mi upstream from the mouth of Bear Brook at Bear Pond.
DRAINAGE AREA.--0.040 mi². Furnished by U.S. Environmental Protection Agency.
PERIOD OF RECORD.--March 1988 to current year.
REVISED RECORD.--WDR ME-89-1: Drainage area.
GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 912.72 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Estimated daily discharges: Nov. 2 and May 9. Records excellent except for flows between 0.10 ft³/s and 0.010 ft³/s, and periods of missing gage-height record, Nov. 2 and May 9, which are good, and for flows below 0.010 ft³/s, which are poor.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8.71 ft³/s, Mar. 27, 1988, gage height, 6.47 ft, (backwater from log on control); minimum discharge, 0.000 ft³/s, Aug. 1 and 2, 1991; minimum gage height, 5.02 ft, Aug. 1 and 2, 1991.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2.2 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 4	1750	*6.72	*6.19	Mar. 7	1540	3.83	5.95
Mar. 2	1920	2.57	5.81				

Minimum discharge 0.000 ft³/s, Aug. 1 and 2; minimum gage height, 5.02 ft, Aug. 1 and 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.069	.097	.12	.16	.038	.032	.17	.11	.041	.006	.001	.006
2	.056	e.074	.11	.13	.038	.68	.17	.11	.035	.005	.001	.006
3	.048	.069	.098	.11	.038	.93	.20	.11	.032	.004	.001	.005
4	.035	.069	1.59	.099	.038	.38	.22	.13	.032	.005	.001	.006
5	.13	.064	.83	.089	.040	.56	.31	.11	.032	.005	.024	.007
6	.086	.16	.29	.082	.043	.26	.35	.11	.027	.007	.008	.008
7	.055	.17	.21	.074	.045	1.12	.58	.62	.022	.010	.004	.007
8	.043	.11	.17	.057	.045	.53	.52	.28	.020	.011	.002	.005
9	.038	.089	.14	.046	.045	.23	.38	e.17	.018	.007	.002	.005
10	.097	.11	.13	.052	.045	.16	.45	.13	.014	.005	.041	.004
11	.089	1.05	.11	.047	.044	.13	.39	.12	.013	.004	.047	.004
12	.15	.28	.10	.045	.038	.11	.26	.11	.011	.004	.012	.004
13	.16	.17	.10	.045	.034	.11	.20	.11	.014	.003	.007	.003
14	.29	.12	.089	.039	.032	.10	.16	.087	.012	.013	.004	.003
15	.19	.11	.079	.039	.045	.10	.15	.079	.012	.006	.002	.003
16	.11	.11	.19	.042	.038	.093	.18	.076	.015	.003	.003	.006
17	.082	.10	.15	.23	.033	.094	.17	.080	.050	.003	.003	.004
18	.068	.10	.28	.11	.032	.094	.15	.12	.025	.003	.002	.003
19	.098	.10	.64	.079	.033	.81	.13	.087	.016	.002	.033	.008
20	.096	.095	.26	.069	.061	.45	.11	.067	.013	.002	.084	.020
21	.072	.077	.17	.068	.054	.25	.29	.057	.012	.001	.082	.011
22	.068	.069	.37	.060	.046	.17	.85	.048	.011	.001	.051	.009
23	.067	.074	.54	.056	.042	.14	.42	.036	.011	.006	.026	.009
24	1.15	.21	.98	.047	.038	.12	.25	.033	.011	.007	.016	.009
25	.44	.27	.43	.045	.038	.11	.19	.032	.009	.003	.012	.55
26	.22	.21	.24	.042	.035	.11	.16	.030	.007	.003	.010	.83
27	.14	.14	.16	.038	.032	.15	.13	.17	.008	.006	.010	.37
28	.12	.21	.13	.038	.032	.84	.12	.11	.007	.003	.010	.14
29	.19	.22	.13	.038	---	.47	.11	.066	.010	.002	.008	.085
30	.14	.16	.14	.040	---	.28	.10	.041	.008	.001	.007	.071
31	.11	---	.22	.039	---	.20	---	.049	---	.001	.007	---
TOTAL	4.707	4.887	9.196	2.155	1.122	9.813	7.87	3.488	0.548	0.142	0.521	2.201
MEAN	.15	.16	.30	.070	.040	.32	.26	.11	.018	.005	.017	.073
MAX	1.15	1.05	1.59	.23	.061	1.12	.85	.62	.050	.013	.084	.83
MIN	.035	.064	.079	.038	.032	.032	.10	.030	.007	.001	.001	.003
CAL YR 1990	TOTAL	47.264	MEAN	.13	MAX	1.59	MIN	.002				
WTR YR 1991	TOTAL	46.650	MEAN	.13	MAX	1.59	MIN	.001				

e Estimated

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME

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

DRAINAGE AREA.--227 mi².

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

Chemical analyses: Water years 1954, 1978 to 1986.

Specific conductance: January 1978 to September 1981.

Water temperatures: January 1978 to September 1981.

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

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

REMARKS.--Estimated daily discharges: Dec. 10-15, 21, 22, 28, 29, Jan. 2-17, 20-27, Feb. 1, 2, 11-14, Feb. 22 to Mar. 1 and Aug. 22-27. Records good except for periods of ice effect, Dec. 10-15, 21, 22, 28, 29, Jan. 2-17, 20-27, Feb. 1, 2, 11-14, 16-20, and Feb. 22 to Mar. 1, and periods of doubtful gage-height record Aug. 22-27, which are fair.

AVERAGE DISCHARGE.--43 years, 498 ft³/s, 29.80 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 05	1100	*3,060	*12.65	Apr. 22	2400	2,120	11.69
Mar. 08	0600	2,620	12.22	Sept. 27	0500	2,180	11.76
Mar. 20	0300	2,780	12.38				

Minimum discharge, 40 ft³/s, Aug. 4, gage height, 7.24 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	435	474	648	e310	e225	945	566	328	77	51	114
2	133	374	433	e580	e270	373	799	574	297	72	49	93
3	131	341	396	e485	284	1440	728	551	261	68	44	78
4	125	315	884	e425	281	1340	690	537	236	65	42	70
5	169	291	2900	e380	297	1490	698	523	236	63	106	67
6	217	503	2400	e345	324	1320	779	485	219	63	166	63
7	210	899	1830	e320	327	1460	934	916	195	62	127	57
8	187	637	1310	e305	343	2470	1260	996	177	65	102	57
9	165	500	1030	e290	342	1910	1330	833	158	66	90	51
10	174	425	e830	e280	344	1420	1540	671	144	65	120	47
11	215	1330	e635	e270	e320	1030	1710	553	129	58	497	44
12	235	1420	e520	e260	e275	826	1490	479	124	54	383	52
13	235	1110	e450	e255	e240	726	1240	413	121	52	266	48
14	301	815	e395	e245	e235	713	1010	372	116	75	197	45
15	327	627	e400	e240	297	682	845	339	112	83	149	43
16	286	532	803	e240	e345	614	825	306	123	72	121	49
17	230	469	1050	e560	e285	575	853	289	162	61	105	50
18	198	431	929	720	e260	583	806	389	207	56	84	47
19	249	454	1190	658	e240	1660	729	397	200	51	110	46
20	309	570	1180	e585	e285	2640	653	356	177	48	358	72
21	248	536	e920	e510	377	2110	660	313	154	46	426	119
22	213	473	e980	e410	e355	1600	1820	275	132	44	e415	109
23	198	445	1010	e355	e325	1190	2020	241	115	49	e300	94
24	578	549	1360	e330	e295	944	1660	228	109	59	e230	88
25	1050	712	1860	e310	e275	807	1280	215	97	54	e180	277
26	939	720	1640	e290	e260	737	1000	195	91	54	e160	1490
27	735	639	1200	e275	e235	751	825	329	88	104	e150	2090
28	541	586	e900	279	e230	1210	701	577	87	83	169	1610
29	585	558	e780	287	---	1520	612	526	88	71	155	1100
30	637	527	754	283	---	1430	549	425	86	61	132	741
31	523	---	796	327	---	1180	---	358	---	55	125	---
TOTAL	10474	18223	32239	11747	8256	36976	30991	14227	4769	1956	5609	8911
MEAN	338	607	1040	379	295	1193	1033	459	159	63.1	181	297
MAX	1050	1420	2900	720	377	2640	2020	996	328	104	497	2090
MIN	125	291	395	240	230	225	549	195	86	44	42	43
CFSM	1.49	2.68	4.58	1.67	1.30	5.25	4.55	2.02	.70	.28	.80	1.31
IN.	1.72	2.99	5.28	1.93	1.35	6.06	5.08	2.33	.78	.32	.92	1.46

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1991, BY WATER YEAR (WY)

MEAN	275	596	659	492	476	707	1229	700	342	185	141	174		
MAX	1074	1317	1533	1118	1125	1636	1945	1962	877	627	526	947		
(WY)	1978	1960	1970	1958	1976	1979	1982	1989	1984	1976	1986	1954		
MIN	34.3	111	87.7	113	121	153	473	336	119	47.2	28.8	32.3		
(WY)	1958	1979	1956	1989	1980	1967	1985	1949	1964	1965	1965	1968		
SUMMARY STATISTICS			FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1948 - 1991					
ANNUAL TOTAL			204901			184378								
ANNUAL MEAN			561			505			498					
HIGHEST ANNUAL MEAN									761					
LOWEST ANNUAL MEAN									272					
HIGHEST DAILY MEAN			2900			Dec 5			2900			Dec 5		
LOWEST DAILY MEAN			64			Sep 4			42			Aug 4		
ANNUAL SEVEN-DAY MINIMUM			73			Aug 29			47			Sep 10		
INSTANTANEOUS PEAK FLOW									3060			Dec 5		
INSTANTANEOUS PEAK STAGE									12.65			Dec 5		
INSTANTANEOUS LOW FLOW									40			Aug 4		
ANNUAL RUNOFF (CFSM)			2.47						2.23			2.19		
ANNUAL RUNOFF (INCHES)			33.58						30.22			29.80		
10 PERCENT EXCEEDS			1240						1220			1150		
50 PERCENT EXCEEDS			409						327			302		
90 PERCENT EXCEEDS			115						64			77		

PENOBSCOT RIVER BASIN
01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, Hydrologic Unit 01020005, on left bank 1800 ft downstream from Mattaseunk Dam and powerhouse, 1.3 mi upstream from Mattaseunk Brook, and 4.5 mi upstream from Mattawamkeag. DRAINAGE AREA.--3,356 mi², including 249 mi² drained by Chamberlain Lake through Telos Canal. PERIOD OF RECORD.--Discharge: June 1940 to current year.

Chemical analyses: Water year 1954.

REVISED RECORDS.--WSP 2101: Drainage area.

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

REMARKS.--Estimated daily discharges: Dec. 31 to Feb. 19. Records fair, including period of ice effect, Dec. 31 to Feb. 19. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Considerable diurnal fluctuation caused by powerplant just upstream.

AVERAGE DISCHARGE.--51 years, 5,796 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,500 ft³/s, Oct. 25, gage height, 10.60 ft.; minimum daily, 2,510 ft³/s, July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6760	17600	6550	e9200	e4600	4470	8310	18300	5120	3950	2940	4110
2	7570	16600	6740	e8900	e4750	5010	7940	18200	5210	3640	3070	3950
3	6790	12400	6540	e8300	e4800	5210	7860	14700	5360	3600	4090	4030
4	6920	9020	7020	e7700	e5150	5740	7910	13600	4760	3210	3250	3860
5	6690	6730	11400	e7450	e4800	5320	8140	14200	4710	3280	3740	3830
6	7070	7310	11900	e6750	e5150	5240	9750	14300	4620	3190	4170	4320
7	6750	6670	11700	e6900	e5100	5670	13100	14800	4940	3140	3440	4420
8	6600	13400	11000	e5600	e5300	5590	14100	15300	4560	3300	3050	4250
9	6470	9570	9300	e5450	e5100	5400	17500	12000	4690	3280	3620	4600
10	6340	13200	8360	e6500	e4850	5710	21400	11000	4610	3230	3740	4650
11	6590	19300	6010	e6150	e4650	5800	23300	10800	4750	3160	5500	3370
12	6310	21500	6420	e6400	e4700	5760	17100	10800	4610	3010	5550	4270
13	7040	14400	6100	e6050	e4700	5590	16500	10700	5140	3180	3900	4110
14	9030	10600	5970	e6000	e4800	5660	15000	10600	6360	3120	3210	4360
15	10300	7210	5480	e5950	e4300	5320	13900	9100	5420	3180	3500	4530
16	8820	6050	6230	e5800	e4700	5150	15400	7820	5340	2830	3210	4280
17	7340	5890	6400	e6100	e4750	5290	14900	6690	5220	2510	2980	4260
18	6540	6580	6860	e5600	e4720	5460	15500	6760	4490	2820	3030	3980
19	7420	7670	8030	e5300	e4880	5950	16000	6720	4510	2650	4580	4140
20	10400	8390	6420	e5100	5170	6120	16400	6200	4530	2970	10000	4490
21	10700	8430	6630	e5300	5200	6400	17000	6100	4390	3080	10300	4140
22	9840	8250	8000	e4900	5300	6840	20400	5150	4260	2920	8490	3920
23	8480	8150	9740	e4450	4930	6260	30100	4820	4540	3040	7210	4030
24	15900	7670	13200	e4830	4650	6360	31200	3580	4650	2990	5290	3950
25	31200	7080	13800	e4900	4880	6070	30400	4810	4010	2600	4730	4720
26	25700	6830	11600	e4650	4680	5840	28700	4560	4100	2840	4380	6840
27	24400	6430	10300	e4500	5090	5350	27500	4900	3900	3110	4720	7450
28	22600	6620	9480	e4750	4690	7180	25100	5700	3850	2730	5220	6000
29	23900	6720	9410	e5250	---	8860	22600	5120	4110	2770	5230	5110
30	23900	7190	10300	e4550	---	9380	19300	4760	3830	2860	4760	4600
31	17200	---	e10000	e4500	---	8970	---	4780	---	3060	4690	---
TOTAL	361570	293460	266890	183780	136390	186970	532310	286870	140590	95250	145590	134570
MEAN	11660	9782	8609	5928	4871	6031	17740	9254	4686	3073	4696	4486
MAX	31200	21500	13800	9200	5300	9380	31200	18300	6360	3950	10300	7450
MIN	6310	5890	5480	4450	4300	4470	7860	3580	3830	2510	2940	3370
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1991, BY WATER YEAR (WY)

	MEAN	4759	5538	5154	4553	4636	5219	9907	10570	6049	4412	4323	4437
MAX	13200	13000	11260	7177	8748	10660	18010	25430	14860	8147	8571	13150	
(WY)	1982	1964	1951	1978	1970	1979	1976	1974	1984	1972	1976	1954	
MIN	2579	3235	2582	2703	2727	2673	4897	4821	2983	2778	2343	2422	
(WY)	1958	1956	1956	1969	1948	1969	1944	1988	1988	1978	1978	1957	

SUMMARY STATISTICS				FOR 1990 CALENDAR YEAR				FOR 1991 WATER YEAR				WATER YEARS 1940 - 1991			
ANNUAL TOTAL				2581920				2764240							
ANNUAL MEAN				7074				7573				5796			
HIGHEST ANNUAL MEAN												8226		1973	
LOWEST ANNUAL MEAN												3831		1957	
HIGHEST DAILY MEAN				31200		Oct 25		31200		Oct 25		62600		Apr 30	1973
LOWEST DAILY MEAN				3100		Feb 20		2510		Jul 17		1430		Aug 17	1941
ANNUAL SEVEN-DAY MINIMUM				3470		Aug 24		2830		Jul 16		2190		Mar 18	1969
INSTANTANEOUS PEAK FLOW								37500		Oct 25		66000		Apr 29	1973
INSTANTANEOUS PEAK STAGE								10.60		Oct 25		16.89		Apr 29	1973
10 PERCENT EXCEEDS				11600				14800				9420			
50 PERCENT EXCEEDS				6020				5670				4650			
90 PERCENT EXCEEDS				3700				3340				3210			

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, Hydrologic Unit 01020003, on right bank below Gordon Falls, 1.0 mi upstream from Mattakeunk Stream, 3.7 mi upstream from Mattawamkeag, and 4.6 mi upstream from mouth.
 DRAINAGE AREA.--1,418 mi².
 PERIOD OF RECORD.--Discharge: October 1934 to current year.
 Chemical analyses: Water year 1954.
 REVISED RECORDS.--WSP 1501: Drainage area.
 GAGE--Water-stage recorder. Elevation of gage is 228 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 11, 1991, at datum 2 ft higher.
 REMARKS.--Estimated daily discharges: Dec. 11-22, 27-29, Jan. 1 to Feb. 23, and Mar. 2-6. Records fair including periods of ice effect, Dec. 15-22, Jan. 1 to Feb. 22, and Mar. 2-6, and periods of no gage-height record, Dec. 11-16, 27-29, and Jan. 1-10. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.
 AVERAGE DISCHARGE.--57 years, 2,506 ft³/s, 24.01 in/yr.
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft³/s, Mar. 23, 1936, gage height, 17.34 ft present datum; minimum, 38 ft³/s, Sept. 19, 1952.
 EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,000 ft³/s, Apr. 11, gage height, 11.84 ft; minimum discharge, 41 ft³/s, Aug. 1, gage height, 1.46 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	6560	4350	e2380	e1000	647	6580	7820	1510	233	44	1430
2	1530	5440	4240	e2230	e980	e630	6350	7030	1400	216	46	1170
3	1810	4540	3640	e2120	e940	e855	6120	6630	1240	195	47	970
4	1850	3930	3390	e2030	e900	e1220	5870	6510	1100	182	43	818
5	1870	3470	4350	e1930	e890	e1400	5940	6450	965	167	58	704
6	2060	3200	4640	e1860	e880	e1640	6580	6220	849	151	85	615
7	2120	3220	4570	e1800	e865	1910	8050	5910	760	149	171	535
8	1950	3360	4420	e1750	e850	2170	9870	5770	681	150	218	465
9	1780	3290	3850	e1710	e830	2450	11500	5670	597	144	219	417
10	1730	3070	3280	e1670	e820	2680	13800	5330	525	139	206	374
11	1800	3560	e2770	e1640	e790	2800	14900	4800	478	132	332	332
12	1940	5450	e2310	e1580	e780	2780	14600	4240	440	130	1040	314
13	2130	6520	e2130	e1530	e760	2710	13600	3740	559	117	1540	301
14	2920	6700	e1980	e1480	e730	2610	12400	3290	1390	112	1420	285
15	4430	6400	e1870	e1440	e670	2440	11200	2890	2100	122	1130	271
16	5370	5730	e1850	e1410	e615	2300	10300	2590	2080	117	862	272
17	5510	4920	e1830	e1390	e570	2150	9660	2380	1790	117	667	281
18	5100	4550	e1820	e1470	e545	2090	8940	2650	1450	114	520	269
19	4490	4610	e1860	e1600	e570	2160	8280	2880	1170	114	477	256
20	4170	4830	e1830	e1680	e625	2880	7840	2690	936	105	979	290
21	4140	4880	e1870	e1690	e663	3860	7660	2380	741	97	2350	355
22	4120	4620	e2000	e1650	e668	4420	8320	2090	612	91	3370	449
23	3840	4220	3110	e1580	e696	4830	10200	1800	508	83	3780	474
24	4540	4030	4630	e1480	676	4490	11900	1590	442	85	3620	472
25	8290	4280	6290	e1420	746	4310	12500	1430	388	75	3090	563
26	11700	4810	6850	e1330	752	4200	12400	1280	341	65	2470	2780
27	12500	4990	e4600	e1240	744	3870	11900	1270	309	62	2030	5410
28	12100	4840	e3780	e1170	678	4280	11100	1600	284	57	2000	6400
29	10900	4600	e3200	e1120	---	5460	10100	1780	274	53	2190	6300
30	9370	4450	2820	e1070	---	6160	8920	1670	257	50	2060	5620
31	7840	---	2580	e1040	---	6530	---	1530	---	46	1740	---
TOTAL	145050	139070	102710	49490	21233	92932	297380	113910	26176	3670	38804	39192
MEAN	4679	4636	3313	1596	758	2998	9913	3675	873	118	1252	1306
MAX	12500	6700	6850	2380	1000	6530	14900	7820	2100	233	3780	6400
MIN	1150	3070	1820	1040	545	630	5870	1270	257	46	43	256
CFSM	3.30	3.27	2.34	1.13	.53	2.11	6.99	2.59	.62	.08	.88	.92
IN.	3.81	3.65	2.69	1.30	.56	2.44	7.80	2.99	.69	.10	1.02	1.03

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1991, BY WATER YEAR (WY)

	MEAN	1407	2773	2619	1379	1252	2061	8289	5649	2064	973	764	861
MAX	6901	8428	9871	3938	4685	11330	13950	12760	7262	3053	2565	5106	
(WY)	1982	1964	1951	1978	1970	1936	1976	1961	1984	1947	1962	1954	
MIN	146	219	105	197	165	230	3012	1774	405	118	98.9	58.8	
(WY)	1947	1956	1956	1948	1944	1944	1944	1987	1988	1991	1978	1952	

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1935 - 1991
ANNUAL TOTAL	1228892	1069617	
ANNUAL MEAN	3367	2930	2506
HIGHEST ANNUAL MEAN			4015
LOWEST ANNUAL MEAN			1307
HIGHEST DAILY MEAN	12500	Oct 27	14900
LOWEST DAILY MEAN	345	Jul 23	43
ANNUAL SEVEN-DAY MINIMUM	391	Jul 18	47
INSTANTANEOUS PEAK FLOW			15000
INSTANTANEOUS PEAK STAGE			11.84
INSTANTANEOUS LOW FLOW			41
ANNUAL RUNOFF (CFSM)	2.37	2.07	1.77
ANNUAL RUNOFF (INCHES)	32.24	28.06	24.01
10 PERCENT EXCEEDS	7770	6600	6480
50 PERCENT EXCEEDS	2230	1850	1220
90 PERCENT EXCEEDS	735	202	273

ANNUAL TOTAL	292071		283964				
ANNUAL MEAN	800		778			632	
HIGHEST ANNUAL MEAN						1030	1973
LOWEST ANNUAL MEAN						348	1957
HIGHEST DAILY MEAN	3010	Oct 26	4990	Apr 11	13100		Apr 2 1987
LOWEST DAILY MEAN	62	Jan 15	57	Jul 20	2.0		Oct 14 1930
ANNUAL SEVEN-DAY MINIMUM	67	Sep 3	57	Jul 30	14		Oct 14 1930
INSTANTANEOUS PEAK FLOW			5140	Apr 10	13500		Apr 2 1987
INSTANTANEOUS PEAK STAGE			8.36	Apr 10	14.46		Mar 20 1936
INSTANTANEOUS LOW FLOW			57	Jul 20	2.0		Oct 14 1930
10 PERCENT EXCEEDS	1610		1720		1480		
50 PERCENT EXCEEDS	656		547		366		
90 PERCENT EXCEEDS	122		63		121		

PENOBSCOT RIVER BASIN

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

DRAINAGE AREA.--1,162 mi².

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

Chemical analysis: Water years 1952-53.

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

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

REMARKS.--Estimated daily discharges: Dec. 6 to Mar. 19, and July 30 to Aug. 5. Records good except for period of ice effect, Dec. 6 to Mar. 19, and period of doubtful gage-height record, July 30 to Aug. 5, which are fair. Flow regulated by Sebec Lake 15 mi upstream (Reservoirs in Penobscot River basin) and other small reservoirs and power plants above station. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--60 years, 2,363 ft³/s.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 25	1045	22,500	9.44	Apr. 10	1300	*25,600	*10.04
Nov. 11	2300	14,300	7.71	Apr. 23	1030	17,800	8.49

Minimum discharge, 137 ft³/s, Aug. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	SEP
1	1640	6300	2940	e2480	e980	e1160	4570	4170	2250	584	e137
2	2600	5260	2710	e2120	e950	e1280	4000	4370	1850	465	e139
3	2100	4620	2550	e2000	e930	e1450	3980	4310	1500	382	e140
4	1730	4180	2750	e2000	e960	e1710	4190	3990	1180	332	e147
5	1900	3740	8380	e1750	e950	e1900	5470	3610	1180	286	e170
6	2280	3440	e6400	e1450	e960	e1820	8210	3240	1210	271	280
7	1980	5030	e4500	e1410	e980	e1800	13100	4580	1040	261	327
8	2070	4450	e3700	e1400	e1000	e3500	16000	5640	952	259	322
9	1860	3660	e3200	e1380	e990	e4900	18000	3720	863	280	280
10	1540	2550	e2880	e1370	e980	e5200	24600	2850	770	298	255
11	1910	9790	e2700	e1340	e950	e3150	19800	2350	713	311	614
12	2180	11800	e2500	e1300	e900	e2050	13700	2050	672	278	1450
13	3140	7680	e2250	e1250	e850	e1730	10200	1780	1850	226	1050
14	6620	5900	e1750	e1220	e820	e1590	8300	1690	4370	230	823
15	10800	4860	e1950	e1180	e800	e1520	7350	1990	3160	245	555
16	6830	4340	e2000	e1160	e780	e1470	7320	1360	2840	233	417
17	4910	3960	e1300	e1140	e750	e1380	7600	1190	2830	219	329
18	3970	4240	e1340	e1220	e730	e1520	6660	1600	2430	208	295
19	3800	4070	e1440	e1270	e725	e2060	6200	1760	1620	200	378
20	5250	4040	e1550	e1180	e720	4790	6060	1500	1550	180	4310
21	4400	3730	e1640	e1100	e850	5440	6130	1460	1370	174	6590
22	3580	3170	e2000	e1020	e1050	4520	11800	1310	1300	170	4800
23	3170	2880	e2900	e990	e1180	3640	17200	980	856	168	3480
24	8130	3150	e6400	e955	e1220	3100	13600	881	623	184	2400
25	21300	3480	e6800	e960	e1150	2850	10000	892	538	204	1670
26	14700	3560	e5200	e955	e1110	2600	8290	868	502	205	1130
27	9210	3190	e3600	e940	e1090	2490	7010	1340	457	203	888
28	6830	3120	e2950	e930	e1070	3700	6050	2950	438	195	972
29	6970	3060	e2500	e920	---	6390	5170	2750	445	164	1030
30	10500	3210	e2480	e930	---	6600	4460	2180	627	e150	939
31	8090	---	e2680	e910	---	5350	---	2000	---	e143	920
TOTAL	165990	136460	97940	40230	26425	92660	285020	75361	41986	7708	37237
MEAN	5355	4549	3159	1298	944	2989	9501	2431	1400	249	1201
MAX	21300	11800	8380	2480	1220	6600	24600	5640	4370	584	6590
MIN	1540	2550	1300	910	720	1160	3980	868	438	143	137
CFSM	4.61	3.91	2.72	1.12	.81	2.57	8.18	2.09	1.20	.21	1.03
IN.	5.31	4.37	3.14	1.29	.85	2.97	9.12	2.41	1.34	.25	1.19

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1991, BY WATER YEAR (WY)

MEAN	1607	2686	2288	1356	1364	2240	7142	4937	1915	1043	818	961
MAX	6289	7672	11590	4728	5659	14520	11630	10920	4678	4506	3686	5426
(WY)	1978	1964	1974	1978	1970	1936	1976	1969	1931	1973	1954	1954
MIN	276	405	363	339	334	513	2876	1411	623	249	161	234
(WY)	1936	1979	1930	1948	1980	1967	1981	1941	1941	1991	1952	1937

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1924 - 1991
ANNUAL TOTAL	1094146	1038930	
ANNUAL MEAN	2998	2846	2363
HIGHEST ANNUAL MEAN			3715
LOWEST ANNUAL MEAN			1254
HIGHEST DAILY MEAN	21300	24600	52900
LOWEST DAILY MEAN	251	137	106
ANNUAL SEVEN-DAY MINIMUM	299	146	127
INSTANTANEOUS PEAK FLOW		25600	60100
INSTANTANEOUS PEAK STAGE		10.04	15.58
INSTANTANEOUS LOW FLOW			99
ANNUAL RUNOFF (CFSM)	2.58	2.45	2.03
ANNUAL RUNOFF (INCHES)	35.03	33.26	27.63
10 PERCENT EXCEEDS	6630	6590	5640
50 PERCENT EXCEEDS	2200	1640	1200
90 PERCENT EXCEEDS	562	306	445

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9210	32700	17400	e16000	e7000	e6900	e22500	34200	10500	5510	3690	7970
2	12300	23000	16600	e14700	e7000	e6600	e21500	33300	10500	5290	3470	6960
3	12300	25900	15800	e14000	e7000	e7900	e20700	30500	9620	4750	4210	6310
4	11500	22100	16100	e13500	e7200	e8900	e21000	27600	8780	4700	4580	6230
5	11700	18900	27400	e12500	e7400	e10000	24200	27100	7870	4390	4010	6700
6	12500	16500	32000	e11700	e7100	e9500	28800	26800	7830	4240	5170	5380
7	12500	20300	30100	e10800	e7350	e9800	39600	27600	7510	4250	5040	5780
8	12000	21100	27700	e10700	e7300	e14500	48500	30600	7270	4240	4470	5910
9	11500	22200	24700	e9700	e7600	e17200	53500	27200	6830	4310	4340	5990
10	10900	19900	21700	e9500	e7400	e15500	68300	22800	6620	4250	4790	6080
11	11500	31900	18100	e10400	e7000	e13000	67100	21200	6540	4140	5800	5270
12	12000	45200	14900	e9800	e6700	e11900	57000	19400	6300	4260	9190	5230
13	13800	36700	e12000	e10000	e6700	e11400	46600	18300	7090	3950	8210	5790
14	18500	28900	e11000	e9600	e6700	e10700	42900	16700	11900	4210	6870	5360
15	28000	25600	e10800	e9400	e6800	e10500	39100	16400	12300	3970	6200	5780
16	24800	20600	e10200	e9200	e6100	e10200	37900	14300	11400	4010	5500	5960
17	21000	19300	e10300	e9100	e6400	e9600	38500	12600	11200	3540	4850	6120
18	18200	19100	e10500	e9650	e6350	e10000	36500	12000	10300	3470	4570	5920
19	17600	19800	e11200	e8950	e6400	e11500	35200	13200	8610	3680	4840	6310
20	20800	21700	e12200	e8500	e6700	e17000	34600	12600	7930	3590	11600	6570
21	22100	21300	e10800	e8200	e7200	e18200	34700	11600	7460	3970	23100	6500
22	19900	20300	e12000	e8400	e7400	e17500	43700	11400	6910	3820	20500	6390
23	17800	19000	e18000	e8000	e7500	e17000	60300	8410	6670	3740	18300	6570
24	26500	18800	e24500	e7500	e7000	e16100	61600	8060	6100	3850	14800	5950
25	60000	18500	e29300	e7700	e6950	e14800	56800	7160	6300	3500	12200	7340
26	60000	19800	e28000	e7800	e6800	e14200	53700	8120	5340	3490	10300	13600
27	49700	18700	e24000	e7400	e6850	e14000	50200	7960	5410	3650	8850	22400
28	45700	18000	e19400	e7000	e7200	e16800	47000	11100	5320	3730	9150	21900
29	41700	18000	e17000	e7300	---	e23000	42800	11800	5190	3460	9640	19000
30	48300	17200	e16500	e7600	---	e25500	37800	10800	5410	3420	9330	16400
31	39000	---	e17000	e7100	---	e23500	---	9990	---	3490	8380	---
TOTAL	733310	688000	567200	301700	195100	423200	1272600	550800				

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1991, BY WATER YEAR (WY)												
MEAN	8461	11840	10540	7913	7393	10780	29120	24180	11970	7689	6599	6638
MAX	28330	32430	34680	19620	21960	46110	50510	46430	38660	17570	17460	27130
(WY)	1982	1964	1974	1978	1970	1936	1976	1974	1917	1907	1976	1954
MIN	2255	2629	3411	2890	1799	2449	14490	10090	4079	4028	3375	3971
(WY)	1904	1906	1909	1904	1904	1911	1926	1985	1988	1991	1978	1923
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1903 - 1991												
ANNUAL TOTAL	5639030			5597410								
ANNUAL MEAN	15450			15340			11930					
HIGHEST ANNUAL MEAN							17760					
LOWEST ANNUAL MEAN							6382					
HIGHEST DAILY MEAN	60000			Oct 25			68300			Apr 10		
LOWEST DAILY MEAN	4870			Aug 8			3420			Jul 30		
ANNUAL SEVEN-DAY MINIMUM	5300			Aug 5			3530			Jul 25		
INSTANTANEOUS PEAK FLOW							70800			Apr 10		
INSTANTANEOUS PEAK STAGE							15.41			Apr 10		
10 PERCENT EXCEEDS	29700						32300			25500		
50 PERCENT EXCEEDS	12200						10800			7800		
90 PERCENT EXCEEDS	6000						4730			4590		

PENOBSCOT RIVER BASIN

01036390 PENOBSCOT RIVER AT EDDINGTON, ME

(National stream-quality accounting network station)

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

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

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Estimated daily discharges: Dec. 15-18, Jan. 8-16, 19, Jan. 21 to Feb. 3, Feb. 6-19, Feb. 22 to Mar. 1, May 14-21, and June 23 to July 16. Records good except for periods of ice effect, Dec. 15-18, Jan. 8-16, 19, Jan. 21 to Feb. 3, Feb. 6-19, and Feb. 22 to Mar. 1, and periods of doubtful gage-height record, May 14-21, and June 23 to July 16, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River Basin). Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--12 years, 14,210 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75,600 ft³/s, Apr. 11, gage height, 15.22 ft; minimum daily discharge, 3,380 ft³/s, July 26 and 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9330	38300	18700	22700	e7700	e7700	29300	41000	11400	e5700	3440	9040
2	10800	33700	18300	19200	e7400	8000	27500	38500	11600	e6000	3700	8660
3	12600	30100	17500	20700	e7800	9280	27000	36900	11100	e5800	3530	7240
4	12200	25500	17900	19400	9100	10500	25600	33300	10100	e5200	4540	6880
5	12100	21600	24400	17200	9550	11500	26700	31000	9270	e4750	5170	6550
6	12300	18900	35100	16800	e9200	12000	31200	30100	8850	e4350	4460	7570
7	13000	19400	35000	14900	e9000	12500	39500	30600	8710	e4400	5630	5360
8	12800	20900	32600	e12000	e8900	13800	51700	33700	8300	e4600	5210	6610
9	12200	23300	29100	e10400	e8800	15300	56400	33500	7720	e4600	4700	6100
10	11800	21000	25600	e9400	e8700	16300	67300	28200	7710	e4600	4980	6620
11	11500	25800	20900	e9000	e8600	16300	74300	24500	6890	e5000	5620	6710
12	12100	43600	16700	e9000	e8500	15800	70100	22400	7480	e4500	7500	4830
13	12900	44800	17600	e9200	e8400	15300	59900	21200	7270	e4500	9290	6120
14	15400	36100	15500	e9700	e8300	14700	53900	e14800	9640	e4500	8490	6000
15	23100	30200	e13000	e10500	e8200	14300	48800	e17700	13200	e4400	7720	5740
16	26300	25400	e12500	e11200	e8100	13900	45800	e15700	12300	e4200	6280	6230
17	22800	22000	e13000	12600	e8000	13100	45800	e13800	12100	3910	5480	6270
18	19600	20700	e14000	12800	e8000	13200	44100	e9900	11900	3720	4850	6630
19	18100	21400	17200	e12700	e8050	14300	42200	e14000	10500	3630	5380	6450
20	18800	22000	18200	12600	8230	17800	40800	e14500	9320	3730	8220	6970
21	21400	23200	17100	e11500	8400	21900	40200	e12400	8660	3730	21700	6890
22	20700	22300	17300	e10900	e8200	23600	43700	11800	8130	4940	24900	6750
23	19200	20700	23200	e10300	e8200	23000	56200	11400	e7700	4080	22500	6940
24	20300	20400	32500	e9900	e8200	21100	65000	8810	e7400	4370	19100	6910
25	45400	20300	41200	e9600	e8200	19800	63700	7790	e7100	3670	15600	7320
26	63000	20800	41600	e9200	e8000	18700	60700	8840	e6800	3380	12900	11400
27	56600	21000	34900	e9300	e7600	18100	58100	9250	e6600	3690	11600	21600
28	51300	19700	27400	e9700	e7600	19400	54600	10800	e6400	3850	10500	26400
29	47000	19600	26200	e9600	---	24500	50800	13500	e6500	3640	10600	23500
30	47800	19200	28600	e9200	---	30200	46200	12500	e6400	3500	10800	20100
31	46800	---	28300	e8700	---	30700	---	11400	---	3380	10300	---
TOTAL	739230	751900	731100	379900	232930	516580	1447100	623790	267050	134320	284690	270390
MEAN	23850	25060	23580	12250	8319	16660	48240	20120	8902	4333	9184	9013
MAX	63000	44800	41600	22700	9550	30700	74300	41000	13200	6000	24900	26400
MIN	9330	18900	12500	8700	7400	7700	25600	7790	6400	3380	3440	4830

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1991, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	12000	15830	14800	9257	9905	13460	35990	22770	14030	7680	8299	8660	
MAX	34120	27410	33650	13630	17910	24420	54980	39840	42690	15170	12950	21930	
(WY)	1982	1982	1984	1982	1981	1983	1983	1979	1984	1984	1986	1981	
MIN	6200	6594	6774	5703	5622	6955	17120	12020	4961	4333	4011	6057	
(WY)	1985	1985	1985	1985	1980	1989	1985	1985	1988	1991	1987	1984	

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR

ANNUAL TOTAL 6427380
ANNUAL MEAN 17610

FOR 1991 WATER YEAR

6378980
17480

WATER YEARS 1979 - 1991

HIGHEST ANNUAL MEAN	20440	1984
LOWEST ANNUAL MEAN	8679	1985
HIGHEST DAILY MEAN	63000	Oct 26
LOWEST DAILY MEAN	5350	Aug 27
ANNUAL SEVEN-DAY MINIMUM	6090	Sep 4
INSTANTANEOUS PEAK FLOW	75600	Apr 11
INSTANTANEOUS PEAK STAGE	15.22	Apr 11
10 PERCENT EXCEEDS	34900	38900
50 PERCENT EXCEEDS	13900	12300
90 PERCENT EXCEEDS	7070	5100

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

PENOBSCOT RIVER BASIN

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	
OCT 25...	<0.1	4.2	50	26	<0.10	0.05	0.06	0.4	0.02	<0.01	0.01	
FEB 13...	<0.1	5.0	52	35	0.10	0.08	0.10	0.3	0.04	0.01	<0.01	
APR 18...	0.1	3.7	32	22	0.11	0.02	0.03	0.3	<0.01	<0.01	<0.01	
SEP 04...	<0.1	3.3	46	31	0.06	0.02	0.03	0.4	0.03	0.02	<0.01	
DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 25...	100	<1	4	<0.5*	<1	<1	<3	6	140	4	<4	17
FEB 13...	70	<1	4	<0.5	3	<1	<3	4	110	1	<4	13
APR 18...	<10	<1	3	<0.5	2	<1	<3	5	76	4	<4	10
SEP 04...	50	<1	4	0.6	<1	<1	<3	5	120	1	<4	21
DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
OCT 25...	<0.1	<10	2	<1	<1	24	<6	13	26	3230	79	
FEB 13...	<0.1	<10	1	<1	<1	27	<6	12	3	E 68	79	
APR 18...	<0.1	<10	3	<1	<1	21	<6	11	5	590	41	
SEP 04...	<0.1	<10	<1	<1	<1	29	<6	10	4	62	93	
DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L) (22703)				
APR 1990* 09...	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	
AUG 1990* 16...	<0.6	<0.6	1.1	<0.6	1.0	<0.6	0.09	0.12				
APR 18...	<0.4	<0.4	0.7	<0.4	0.6	<0.4	0.02	0.05				
SEP 04...	<0.6	<0.6	1.2	<0.6	1.1	<0.6	0.02	0.07				

* Analysis from the 1990 water year.

LS Lost sample.

[illegible]

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	46	44	45	64	59	61	73	68	70	47	46	47
2	46	44	45	61	50	56	72	69	70	49	47	48
3	47	44	45	55	46	50	72	68	70	51	47	48
4	46	45	45	60	55	58	71	66	69	51	47	49
5	47	45	46	64	59	62	68	63	66	52	47	49
6	49	45	46	63	58	62	66	62	64	53	48	50
7	49	45	47	61	58	59	65	56	60	54	50	52
8	50	46	47	62	61	62	62	57	59	59	50	52
9	52	47	49	62	56	59	62	57	60	58	50	54
10	51	48	49	59	56	57	63	59	61	58	54	56
11	54	48	50	62	57	59	61	59	60	59	56	57
12	55	51	53	65	59	62	63	53	59	61	55	57
13	54	52	53	65	57	63	56	53	54	61	57	58
14	53	48	51	67	62	64	56	52	54	59	57	58
15	48	45	46	65	61	63	61	55	57	58	55	57
16	46	44	46	68	62	64	65	58	61	58	55	57
17	46	44	45	67	61	64	65	62	64	56	47	53
18	46	45	45	68	65	67	66	63	65	55	48	52
19	47	44	45	69	64	65	66	58	64	49	45	46
20	49	44	46	73	67	70	65	52	60	53	46	48
21	52	47	49	75	65	71	52	45	49	53	50	52
22	53	50	52	69	63	67	46	41	43	54	50	53
23	54	52	53	66	63	65	41	40	40	53	52	53
24	55	52	53	69	64	67	42	40	41	55	52	53
25	58	53	56	69	63	66	43	42	43	56	50	54
26	60	55	57	72	66	69	45	43	44	49	45	46
27	60	57	58	78	68	73	45	43	44	45	43	44
28	62	59	60	71	67	69	46	44	45	45	45	45
29	62	60	61	70	66	68	48	45	46	45	42	44
30	64	61	63	71	67	69	48	45	46	42	37	41
31	---	---	---	73	68	71	46	46	46	---	---	---
MONTH	64	44	50	78	46	64	73	40	56	61	37	51
PERIOD	78	34	51									

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

PENOBSCOT RIVER BASIN

01036390 - PENOBSCOT RIVER AT EDDINGTON, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	9.0	9.0	9.0
2	---	---	---	---	---	---	---	---	---	9.0	8.5	8.5
3	---	---	---	---	---	---	---	---	---	8.5	8.0	8.5
4	---	---	---	---	---	---	---	---	---	8.5	8.5	8.5
5	---	---	---	---	---	---	---	---	---	9.5	8.0	8.5
6	---	---	---	---	---	---	---	---	---	9.5	9.0	9.5
7	---	---	---	---	---	---	---	---	---	10.5	9.5	10.0
8	---	---	---	---	---	---	---	---	---	10.5	10.0	10.0
9	---	---	---	---	---	---	---	---	---	11.5	9.5	10.5
10	---	---	---	---	---	---	---	---	---	12.5	11.0	11.5
11	---	---	---	---	---	---	---	---	---	13.5	12.0	12.5
12	---	---	---	---	---	---	---	---	---	14.5	13.0	14.0
13	---	---	---	---	---	---	---	---	---	15.5	14.0	15.0
14	---	---	---	---	---	---	---	---	---	15.5	15.0	15.0
15	---	---	---	---	---	---	---	---	---	16.0	15.0	15.5
16	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
17	---	---	---	---	---	---	---	---	---	17.5	15.5	16.5
18	---	---	---	---	---	---	---	---	---	16.5	15.0	15.5
19	---	---	---	---	---	---	---	---	---	16.0	14.5	15.5
20	---	---	---	---	---	---	---	---	---	17.0	15.0	16.0
21	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
22	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5
23	---	---	---	---	---	---	---	---	---	18.0	17.0	17.5
24	---	---	---	---	---	---	---	---	---	18.5	16.5	17.5
25	---	---	---	---	---	---	---	---	---	20.0	18.0	18.5
26	---	---	---	---	---	---	---	---	---	20.5	18.5	19.5
27	---	---	---	---	---	---	---	---	---	19.5	17.5	18.5
28	---	---	---	---	---	---	---	---	---	17.5	16.5	17.0
29	---	---	---	---	---	---	---	---	---	18.0	17.0	17.5
30	---	---	---	---	---	---	---	---	---	18.5	17.0	18.0
31	---	---	---	---	---	---	---	---	---	17.5	17.0	17.5
MONTH	---	---	---	---	---	---	---	---	---	20.5	8.0	14.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	13.2	12.9	13.0
2	---	---	---	---	---	---	---	---	---	13.1	12.9	13.0
3	---	---	---	---	---	---	---	---	---	13.1	12.8	12.9
4	---	---	---	---	---	---	---	---	---	13.3	12.9	13.1
5	---	---	---	---	---	---	---	---	---	13.6	12.7	13.3
6	---	---	---	---	---	---	---	---	---	13.5	12.3	12.8
7	---	---	---	---	---	---	---	---	---	12.4	11.6	12.1
8	---	---	---	---	---	---	---	---	---	12.7	11.7	11.8
9	---	---	---	---	---	---	---	---	---	12.8	11.9	12.2
10	---	---	---	---	---	---	---	---	---	12.5	11.6	12.1
11	---	---	---	---	---	---	---	---	---	12.0	11.1	11.6
12	---	---	---	---	---	---	---	---	---	11.2	10.3	10.9
13	---	---	---	---	---	---	---	---	---	10.7	10.1	10.4
14	---	---	---	---	---	---	---	---	---	10.4	10.0	10.2
15	---	---	---	---	---	---	---	---	---	10.5	10.1	10.3
16	---	---	---	---	---	---	---	---	---	10.3	9.7	10.1
17	---	---	---	---	---	---	---	---	---	10.0	9.5	9.6
18	---	---	---	---	---	---	---	---	---	10.3	10.0	10.2
19	---	---	---	---	---	---	---	---	---	11.3	10.2	10.8
20	---	---	---	---	---	---	---	---	---	10.8	10.0	10.5
21	---	---	---	---	---	---	---	---	---	10.1	9.6	9.9
22	---	---	---	---	---	---	---	---	---	9.7	9.3	9.5
23	---	---	---	---	---	---	---	---	---	9.9	9.5	9.7
24	---	---	---	---	---	---	---	---	---	9.7	9.0	9.5
25	---	---	---	---	---	---	---	---	---	9.2	8.8	9.0
26	---	---	---	---	---	---	---	---	---	9.5	8.9	9.1
27	---	---	---	---	---	---	---	---	---	9.5	9.0	9.3
28	---	---	---	---	---	---	---	---	---	9.7	9.3	9.5
29	---	---	---	---	---	---	---	---	---	9.6	9.3	9.4
30	---	---	---	---	---	---	---	---	---	9.6	9.3	9.4
31	---	---	---	---	---	---	---	---	---	9.5	9.3	9.4
MONTH	---	---	---	---	---	---	---	---	---	13.6	8.8	10.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	9.7	9.3	9.5	8.7	8.1	8.4	7.8	7.6	7.7	9.0	8.4	8.8
2	9.6	9.1	9.4	8.7	8.3	8.5	7.7	7.5	7.6	9.3	8.9	9.1
3	9.4	9.0	9.2	8.6	8.3	8.4	7.8	7.6	7.7	9.2	8.6	8.9
4	9.2	9.0	9.2	8.5	8.3	8.4	7.7	7.6	7.6	8.8	8.5	8.7
5	9.6	9.2	9.4	8.4	8.2	8.3	8.0	7.7	7.9	8.8	8.5	8.7
6	9.7	9.1	9.5	8.5	8.2	8.3	8.3	8.0	8.2	8.9	8.5	8.7
7	9.5	8.8	9.2	8.5	8.4	8.5	8.9	8.2	8.5	8.9	8.5	8.7
8	9.0	8.6	8.8	8.6	8.5	8.6	8.4	8.0	8.2	8.8	8.5	8.6
9	9.1	8.6	8.8	9.1	8.6	8.9	8.3	8.0	8.2	9.0	8.5	8.7
10	9.0	8.4	8.7	9.3	9.0	9.1	8.1	7.9	8.0	8.8	8.6	8.7
11	8.7	8.2	8.5	9.3	8.9	9.1	8.4	8.1	8.3	8.7	8.3	8.5
12	8.6	8.2	8.4	9.0	8.9							

Reservoirs in Penobscot River Basin

- 01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi upstream from Millinocket and 42 mi northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft. Records furnished by Georgia-Pacific Corporation, Northern Paper Division.
- 01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 mi upstream from Millinocket, Maine, used for power; usable capacity of reservoir, 15,000,000,000 ft. Records furnished by Georgia-Pacific Corporation, Northern Paper Division.
- 01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,040,000,000 ft between gage height 2.0 ft and 11.0 ft. Records furnished by Bangor Hydroelectric Co.
- 01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 ft between elevations 643.0 ft and 655.0 ft. Records furnished by Bangor Hydroelectric Co.
- 01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity, 2,511,000,000 ft between elevations 316.1 ft and 325.1 ft. Records furnished by Bangor Hydroelectric Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WEST BRANCH PENOBSCOT RIVER	EAST BRANCH PENOBSCOT RIVER	SEBEC LAKE
	RESERVOIRS 1/	RESERVOIRS 2/	
Sept. 30, 1990.....	44,004	2,712	1,257
Oct. 31.....	52,423	4,267	2,101
Nov. 30.....	50,037	5,030	1,693
Dec. 31.....	49,697	5,393	1,665
Jan. 31, 1991.....	44,376	3,872	1,447
Feb. 28.....	37,300	2,946	1,257
Mar. 31.....	31,719	2,673	1,393
Apr. 30.....	56,638	5,491	1,954
May 31.....	55,819	5,732	2,013
June 30.....	51,244	5,091	1,984
July 31.....	43,177	4,143	1,925
Aug. 31.....	41,512	4,568	2,013
Sept. 30.....	35,774	2,795	1,311

- 1 Chesuncook, Ripogenus, Caribou, Ambajejus Pemadumcook, North Twin, South Twin, and Elbow Lakes, and Moose Pond. Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power, total capacity approximately 12,000,000,000 ft³; Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Dole and Poland Ponds.
- 2 Chamberlain, Telos, Second, and Grand Lakes, and Round Pond.

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

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

DRAINAGE AREA.--1,266 mi².

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

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

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at gage height 7.0 ft. Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to gage height 10.0 ft at a faster rate than formerly. Usable capacity, 23,730,000,000 ft³ between gage heights 10.0 ft and 17.5 ft. Water is used primarily for power.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.62 ft, Apr. 26; minimum observed, 14.30 ft, Oct. 11.

Capacity table (gage height, in feet, and contents, in million cubic feet)

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.61	17.44	17.19	16.58	16.01	14.98	14.64	17.44	17.46	16.90	15.92	15.97
2	14.60	17.43	17.21	16.52	15.97	14.92	14.66	17.38	17.40	16.83	15.91	15.90
3	14.60	17.46	17.23	16.49	15.94	14.92	14.68	17.32	17.44	16.79	15.89	15.85
4	14.59	17.46	17.28	16.46	15.92	14.95	14.68	17.30	17.47	16.76	15.86	15.81
5	14.55	17.49	17.40	16.45	15.88	15.00	14.70	17.22	17.48	16.73	15.92	15.77
6	14.49	17.39	17.37	16.45	15.83	14.97	14.76	17.16	17.46	16.67	15.88	15.73
7	14.48	17.38	17.40	16.46	15.80	14.93	14.87	17.18	17.44	16.65	15.86	15.69
8	14.46	17.34	17.39	16.47	15.74	14.95	15.15	17.10	17.41	16.62	15.83	15.65
9	14.39	17.28	17.35	16.45	15.70	14.92	15.42	17.09	17.36	16.59	15.80	15.58
10	14.37	17.20	17.29	16.44	15.66	14.90	15.82	17.08	17.33	16.55	15.76	15.53
11	14.30	17.32	17.24	16.41	15.63	14.87	16.09	17.06	17.30	16.52	15.83	15.49
12	14.34	17.31	17.20	16.42	15.60	14.85	16.22	17.06	17.27	16.49	15.85	15.44
13	14.37	17.18	17.10	16.43	15.55	14.82	16.35	17.10	17.37	16.47	15.83	15.40
14	14.61	17.20	17.06	16.41	15.51	14.78	16.46	17.10	17.38	16.48	15.82	15.37
15	14.73	17.21	17.04	16.38	15.52	14.74	16.55	17.10	17.33	16.47	15.80	15.33
16	14.86	17.19	17.00	16.34	15.49	14.71	16.67	17.15	17.32	16.43	15.77	15.28
17	14.94	17.20	16.98	16.38	15.44	14.68	16.78	17.16	17.32	16.39	15.75	15.23
18	15.00	17.22	16.90	16.36	15.38	14.65	16.92	17.24	17.30	16.39	15.71	15.15
19	15.15	17.24	16.88	16.36	15.34	14.63	17.06	17.27	17.28	16.36	15.70	15.08
20	15.35	17.23	16.86	16.34	15.32	14.65	17.16	17.29	17.24	16.33	15.97	15.03
21	15.46	17.18	16.80	16.31	15.29	14.64	17.28	17.31	17.25	16.30	16.01	14.95
22	15.56	17.18	16.75	16.29	15.25	14.61	17.45	17.32	17.21	16.27	16.05	14.85
23	15.66	17.10	16.72	16.25	15.22	14.60	17.56	17.30	17.18	16.22	16.09	14.76
24	15.95	17.08	16.80	16.20	15.18	14.60	17.58	17.28	17.14	16.20	16.09	14.69
25	16.28	17.04	16.80	16.18	15.15	14.60	17.60	17.28	17.11	16.18	16.05	14.61
26	16.56	17.00	16.79	16.15	15.10	14.56	17.62	17.25	17.06	16.16	16.00	14.66
27	16.74	16.97	16.76	16.12	15.06	14.51	17.58	17.30	17.03	16.09	15.96	14.63
28	16.88	17.00	16.70	16.09	15.01	14.50	17.56	17.36	17.02	16.05	16.04	14.61
29	17.14	17.09	16.64	16.08	---	14.52	17.55	17.35	17.03	16.02	16.02	14.59
30	17.33	17.13	16.63	16.06	---	14.57	17.48	17.36	16.98	15.97	16.00	14.57
31	17.42	---	16.60	16.09	---	14.60	---	17.40	---	15.93	15.99	---
MAX	17.42	17.49	17.40	16.58	16.01	15.00	17.62	17.44	17.48	16.90	16.09	15.97
MIN	14.30	16.97	16.60	16.06	15.01	14.50	14.64	17.06	16.98	15.93	15.70	14.57
CAL YR 1990	TOTAL 5917.00		MEAN 16.21	MAX 17.60	MIN 14.30							
WTR YR 1991	TOTAL 5918.66		MEAN 16.22	MAX 17.62	MIN 14.30							
*	23532	22727	20764	18932	15638	14558	23532	23598	21790	18644	18804	13928
#	+9070	-805	-1963	-1832	-3294	-1080	+8974	+66	-1808	-3146	+160	-4876
+	83	94	93	89	84	80	89	111	128	121	116	110

CAL YR 1990 # +4232

WTR YR 1991 # - 534

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

Change in contents, in millions of cubic feet

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

01042500 KENNEBEC RIVER AT THE FORKS, ME

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

DRAINAGE AREA.--1,590 mi².

PERIOD OF RECORD.--Discharge: October 1901 to current year. Prior to Oct. 1903 monthly discharge only, published in WSP 1302.

Chemical analyses: Water years 1952-53.

REVISED RECORDS.--WSP 1231: 1902-04, 1906-08, 1912, 1914, 1919-20(M), 1923(M), 1926(M), 1928-29(M), 1936(M), 1938(M).

WSP 1301: 1928-35 (adjusted monthly runoff). WDR ME-82-1: Drainage area.

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

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Moosehead Lake (station 01040500), Brassua Lake, and Moxie, Indian, and First Roach Ponds (Reservoirs in Kennebec River Basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--88 years, (water years 1904 to current year), 2,598 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft³/s, June 1, 1984, gage height, 13.78 ft; minimum daily, 161 ft³/s, Aug. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,500 ft³/s, Apr. 23, gage height, 8.80 ft; minimum daily, 407 ft³/s, Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3590	5620	2230	5320	4050	3450	2110	11100	1970	2670	1690	1280
2	2750	5560	2160	5150	2690	3110	2460	10800	1830	2260	1670	1790
3	3170	5590	3710	4870	2900	2530	3380	10600	2730	2200	831	2640
4	3960	5040	3640	4060	3950	3690	2660	10500	2810	924	809	2740
5	3410	6010	4240	3490	4460	3740	1900	9870	2780	951	1770	3200
6	3470	7410	5190	2760	3970	3780	2580	8960	3280	865	1570	2850
7	2630	7430	5470	2540	3720	2990	2000	8690	3700	938	1390	1910
8	2340	7000	5230	3070	3900	3590	3100	8490	1200	2010	1610	1170
9	3670	5950	5410	3850	3130	2800	4400	7270	890	1990	1890	2060
10	4310	5490	5300	3420	2850	2570	6350	6620	3170	2100	961	2110
11	4870	7050	5070	3370	4050	4360	4610	6150	3560	2110	1430	2100
12	3570	8040	5120	3870	4340	3240	3770	4730	3710	1640	1260	1750
13	1680	6110	5130	3300	4040	3860	2590	4230	3580	847	1970	1570
14	1340	4740	5100	3720	3520	3750	2340	3130	2250	848	1270	1370
15	2360	5740	5000	2880	3800	3640	2590	2990	1240	1610	1200	2800
16	2140	4420	5150	3090	3600	2320	2340	2430	441	1120	1150	3670
17	1980	2820	5140	3460	2650	2430	1570	1940	2640	1120	862	3450
18	2980	4160	4920	3280	2460	3980	2090	1400	1150	1940	870	3410
19	2210	5190	4850	2810	4270	3560	2800	1220	2800	2150	924	3740
20	1700	5460	4800	3500	3940	3140	5210	2450	2480	861	3920	3860
21	1330	5190	4690	3890	3810	3740	5530	2300	2740	848	3650	3330
22	2390	5100	4640	4000	3270	2810	10100	3100	1250	2200	2420	2550
23	2380	4860	5730	4200	3180	835	13500	3250	896	1440	1640	4130
24	3540	5030	5290	3600	2400	1970	14300	3360	2610	1440	1350	3630
25	4510	4860	5370	3150	3220	3820	13000	1250	3170	1900	1170	3830
26	3380	5280	5560	2830	4020	3880	13000	979	2700	1620	2430	3370
27	2360	4450	5980	2780	3760	3350	13100	2950	3190	1180	2830	2680
28	1450	2490	5180	3730	3730	3950	12800	2660	3330	1120	2110	1940
29	2890	2370	4590	3260	---	1950	12500	2660	1380	1710	2440	407
30	3730	3760	5420	3750	---	1170	11900	2780	976	1710	2120	3880
31	4800	---	5090	3640	---	834	---	2330	---	1700	1710	---
TOTAL	90890	158220	150400	110640	99680	94839	180580	151189	70453	48022	52917	79217
MEAN	2932	5274	4852	3569	3560	3059	6019	4877	2348	1549	1707	2641
MAX	4870	8040	5980	5320	4460	4360	14300	11100	3710	2670	3920	4130
MIN	1330	2370	2160	2540	2400	834	1570	979	441	847	809	407
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1991, BY WATER YEAR (WY)												
MEAN	1945	1799	2069	2284	2460	2255	2883	4757	3368	2625	2458	2257
MAX	6298	5317	8142	5569	5140	5202	9487	13520	10370	6002	4740	5511
(WY)	1955	1908	1974	1970	1963	1963	1983	1974	1917	1917	1917	1954
MIN	864	487	655	669	522	466	859	699	664	775	1083	1053
(WY)	1906	1912	1909	1904	1904	1906	1980	1980	1988	1988	1987	1987
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1904 - 1991												
ANNUAL TOTAL	1168358						1287047			2598		
ANNUAL MEAN	3201						3526			4380		
HIGHEST ANNUAL MEAN										1516		
LOWEST ANNUAL MEAN										28200		
HIGHEST DAILY MEAN	8040						Nov 12			Jun 1 1984		
LOWEST DAILY MEAN	432						Jan 28			Aug 30 1987		
ANNUAL SEVEN-DAY MINIMUM	1480						Mar 26			Jan 6 1909		
INSTANTANEOUS PEAK FLOW							15500			Apr 23		
INSTANTANEOUS PEAK STAGE							8.80			Apr 23		
10 PERCENT EXCEEDS	5570						5540			4310		
50 PERCENT EXCEEDS	2780						3170			2230		
90 PERCENT EXCEEDS	1410						1250			868		

01046500 KENNEBEC RIVER AT BINGHAM, ME
LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, Hydrologic Unit 01030003, on right bank at Bingham, 200 ft downstream from highway bridge, 0.4 mi downstream from Austin Stream, and 1.6 mi downstream from Wyman Dam.
DRAINAGE AREA --2 715 mi²

Chemical analyses: Water years 1966 to 1978.
Specific conductance: October 1975 to September 1978.
Water temperatures: October 1975 to September 1978.

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

AVERAGE DISCHARGE.--63 years (water years 1908-09, 1931 to current year), 4,452 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,500 ft³/s, Apr. 9, gage height, 12.18 ft; minimum daily, 1,600 ft³/s, Aug. 13.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3530	e8960	4060	7710	5620	5200	3400	16400	3580	2950	2210	3200
2	3860	e9110	4130	7760	5200	5080	3940	16200	3650	2700	2040	3370
3	4270	e8740	4040	7660	4980	5270	4380	16500	3580	2650	2140	3480
4	4180	e7920	4890	5680	4750	5080	4420	15500	3530	2950	2090	3400
5	4390	e8410	7890	4570	5090	5150	5870	14300	3580	2800	2100	3410
6	4140	e11200	9490	4350	5440	5350	6950	12600	3670	2860	1800	3520
7	4240	e9930	9450	4490	5370	5080	9450	12500	3400	2790	1920	3150
8	4110	e10800	8650	4690	5250	5320	10600	13000	3460	2900	1810	2980
9	4280	e8530	8300	5000	5270	e5200	19300	10500	3540	2730	2350	2330
10	4130	e8700	8070	5350	5330	5150	22500	8620	3550	2560	1710	2050
11	4300	e11100	7570	5490	5440	5180	13400	8320	3470	2640	2450	2010
12	3910	e13200	7460	5680	5640	5120	9180	7910	3850	2390	2070	1880
13	4840	e9340	8030	5290	5470	5310	6800	6240	3460	2160	1600	1840
14	9680	e7090	8080	5460	5350	5090	4650	5540	3560	2430	1820	1720
15	8620	6140	7620	5510	5310	5230	5180	5110	3700	2280	1780	2360
16	5260	5620	7120	5890	5490	5130	6190	4100	3550	2470	2500	3580
17	4470	6190	7700	5970	5350	5210	5550	3730	3120	2440	2220	3230
18	3790	7650	7250	5730	5400	5280	6150	3390	3610	2090	2290	4100
19	4840	8910	7480	5570	5270	5090	5970	3370	3300	3020	3490	3680
20	5270	9340	7950	5530	5310	4940	5970	3480	3130	2120	7730	4210
21	4380	8640	7310	5590	5210	4820	8880	3480	3540	1970	9050	4380
22	3700	7130	7130	5660	5160	4830	20700	3690	3490	3000	4540	4340
23	3670	6960	7680	5550	e5400	4290	21900	3420	3670	2120	2550	4360
24	14100	7190	12000	5210	e5250	4020	20300	4210	3030	2210	3140	4320
25	16200	7240	10400	e5250	5200	4210	17700	3660	3490	2300	2700	4320
26	13500	7480	9160	e5350	5470	4360	17600	3700	3730	2080	2940	4000
27	8520	6880	8810	5430	5250	4400	17800	3500	3230	2330	3260	3370
28	e6410	4760	7660	4810	5260	4140	18300	3550	3180	2680	3300	3940
29	e7180	3650	7210	4940	---	3560	17200	4010	3430	2200	3130	3570
30	e10500	3760	8140	5120	---	3480	16900	3800	3280	2030	3590	3800
31	e10200	---	8920	4860	---	3490	---	3350	---	2140	3420	---

TOTAL	194470	240570	239650	171150	148530	149060	337130	227680	104360	76990	89740	99900
MEAN	6273	8019	7731	5521	5305	4808	11240	7345	3479	2484	2895	3330
MAX	16200	13200	12000	7760	5640	5350	22500	16500	3850	3020	9050	4380
MIN	3530	3650	4040	4350	4750	3480	3400	3350	3030	1970	1600	1720

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1991, BY WATER YEAR (WY)

MEAN	3413	3565	3562	3517	3679	4157	7195	9246	4919	3518	3302	3317
MAX	9319	9740	12510	7684	6783	15070	16080	22160	13600	7098	6428	10140
(WY)	1955	1908	1974	1970	1970	1936	1983	1974	1984	1973	1976	1954
MIN	1122	744	749	1070	1624	1525	2627	2192	1638	1954	2309	1829
(WY)	1909	1909	1909	1909	1972	1985	1981	1980	1988	1988	1941	1987

1990		1991		1992		1993		1994		1995		1996		1997	
SUMMARY STATISTICS		FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		FOR 1991 WATER YEAR		FOR 1992 WATER YEAR		FOR 1993 WATER YEAR		FOR 1994 WATER YEAR		FOR 1995 WATER YEAR	
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	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208
209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272
273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288
289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304
305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336
337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352
353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368
369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384
385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416
417															

	ANNUAL TOTAL	ANNUAL MEAN
1871810	2079230	4452
5128	5697	

ANNUAL MEAN	5128	5887	4452	
HIGHEST ANNUAL MEAN			7163	1974
LOWEST ANNUAL MEAN			2613	1984

LOWEST ANNUAL MEAN					2013	1980
HIGHEST DAILY MEAN	16200	Oct 25	22500	Apr 10	62000	Jun 1 1984
LOWEST DAILY MEAN	1970	Jan 29	1600	Aug 13	110	Dec 25 1984

LOWEST DAILY MEAN	1970	Jan 29	1600	Aug 13	110	Dec 25 1947
ANNUAL SEVEN-DAY MINIMUM	2510	Mar 29	1970	Aug 4	587	Nov 18 1908
INSTANTANEOUS PEAK FLOW			20500	Aug 9	65200	Nov 1 1908

INSTANTANEOUS PEAK FLOW	29500	Apr 9	65200	Jun 1 1984
INSTANTANEOUS PEAK STAGE	12.18	Apr 9	15.61	Jun 1 1984

10 PERCENT EXCEEDS	8850	9470	7700
50 PERCENT EXCEEDS	4200	4840	3450

90 PERCENT EXCEEDS	2790	2380	2180
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01048000 SANDY RIVER NEAR MERCER, ME

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

DRAINAGE AREA.--514 mi².

PERIOD OF RECORD.--Discharge: November 1928 to September 1979, June 1987 to current year.

Chemical analyses: Water year 1954.

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

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

REMARKS.--Estimated daily discharges: Dec. 6-7, 10-14, 17-20, and Dec. 29 to Mar. 31. Records good except for periods of ice effect, Dec. 6-7, 10-14, 17-20 and Dec. 29 to Mar. 31, which are fair. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--54 years, (water years 1930-1979, 1988 to current year) 977 ft³/s 25.84 in/yr.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1, 1987 reached a stage of 19.25 ft, present datum, from floodmarks, discharge, 51,100 ft³/s, from rating curve extended above 15,000 ft³/s on the basis of slope-area measurement.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 25	0230	14,700	10.46	Apr. 7	0930	8,130	8.41
Oct. 29	1945	7,280	8.09	Apr. 10	0930	10,600	9.24
Nov. 11	1230	7,430	8.15	Apr. 22	1230	*14,800	*10.50
Dec. 24	1545	10,400	9.18	Aug. 20	1400	11,000	9.34

Minimum discharge 73 ft³/sec, Aug. 4, gage height, 2.63 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	557	1870	918	e1150	e474	e329	1840	1740	551	175	81	449
2	719	1540	817	e1050	e460	e337	1700	2600	623	169	77	347
3	435	1360	763	e970	e433	e497	1720	2120	461	159	75	283
4	335	1290	1230	e905	e454	e963	1980	1570	537	140	79	247
5	338	1140	4730	e840	e493	e1180	2890	1350	1180	125	98	221
6	566	1570	e2680	e775	e528	e983	4690	1180	874	123	122	204
7	407	2600	e1930	e710	e556	e1180	7330	3810	625	126	231	191
8	316	1680	1600	e670	e595	e2980	6020	2740	475	134	173	179
9	271	1310	1370	e640	e586	e2740	7440	1890	380	147	134	166
10	277	1290	e1100	e625	e586	e2060	8520	1490	321	148	171	157
11	314	5910	e980	e610	e529	e1560	4580	1250	285	140	2050	151
12	492	3370	e890	e600	e450	e1260	3130	1090	260	126	794	141
13	1020	2100	e840	e585	e404	e1130	2380	959	280	118	421	135
14	3710	1630	e780	e575	e383	e1100	2020	841	301	126	292	134
15	2760	1400	738	e580	e391	e970	1930	758	282	135	225	135
16	1400	1420	748	e610	e375	e926	2760	684	318	157	188	160
17	982	1850	e810	e655	e356	e954	2980	640	906	136	166	239
18	784	2340	e900	e630	e335	e1070	2470	1180	1050	119	152	216
19	1330	1810	e1050	e605	e330	e2460	2100	1010	633	109	352	191
20	2110	1760	e1190	e585	e336	e4100	1890	758	445	104	7460	276
21	1220	1530	1450	e565	e387	e2960	2310	626	346	100	3070	311
22	954	1280	1570	e545	e507	e2120	12200	539	285	93	2620	247
23	806	1190	2260	e525	e648	e1860	7480	470	248	105	1590	208
24	5780	1420	6950	e505	e569	e1180	4130	419	225	118	1070	189
25	9170	1440	4870	e505	e454	e1150	3000	390	208	172	768	421
26	3230	1270	2640	e500	e408	e1280	2490	357	191	145	564	1500
27	2150	1060	1800	e500	e376	e1420	2130	450	179	125	449	1460
28	1630	1030	1650	e495	e346	e2980	1870	1190	167	111	383	876
29	4400	1100	e1490	e497	---	e3990	1550	753	158	100	341	634
30	4390	1110	e1350	e474	---	e3090	1350	554	153	93	305	505
31	2460	---	e1240	e481	---	e2030	---	457	---	86	332	---
TOTAL	55313	51670	53334	19962	12749	52839	108880	35865	12947	3964	24833	10573
MEAN	1784	1722	1720	644	455	1704	3629	1157	432	128	801	352
MAX	9170	5910	6950	1150	648	4100	12200	3810	1180	175	7460	1500
MIN	271	1030	738	474	330	329	1350	357	153	86	75	134
CFSM	3.47	3.35	3.35	1.25	.89	3.32	7.06	2.25	.84	.25	1.56	.69
IN.	4.00	3.74	3.86	1.44	.92	3.82	7.88	2.60	.94	.29	1.80	.77

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1991, BY WATER YEAR (WY)

	MEAN	564	964	842	534	498	1209	3437	2002	757	362	260	283
MAX	3057	2947	4315	2285	3322	6479	5399	4105	1787	1577	1439	2664	
(WY)	1978	1964	1974	1978	1970	1936	1951	1972	1989	1973	1976	1954	
MIN	61.1	107	85.8	100	87.7	242	1589	480	202	109	72.9	56.3	
(WY)	1948	1979	1979	1948	1948	1956	1957	1941	1941	1965	1949	1955	

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1929 - 1991
ANNUAL TOTAL	443967	442929	
ANNUAL MEAN	1216	1214	977
HIGHEST ANNUAL MEAN			1583
LOWEST ANNUAL MEAN			436
HIGHEST DAILY MEAN	9170	Oct 25	12200
LOWEST DAILY MEAN	110	Sep 7	75
ANNUAL SEVEN-DAY MINIMUM	113	Sep 4	84
INSTANTANEOUS PEAK FLOW			14800
INSTANTANEOUS PEAK STAGE			10.49
INSTANTANEOUS LOW FLOW			73
ANNUAL RUNOFF (CFSM)	2.37	2.36	1.90
ANNUAL RUNOFF (INCHES)	32.13	32.06	25.84
10 PERCENT EXCEEDS	2540	2740	2480
50 PERCENT EXCEEDS	890	670	425
90 PERCENT EXCEEDS	188	148	112

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME
LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, Hydrologic Unit 01030003, on right bank 1.7 mi upstream
from Twentyfive Mile Stream and 5.0 mi south of Pittsfield.

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

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

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

REMARKS.--Estimated daily discharges: Jan. 8-14, 19, 20, 25, 26, 29, Jan. 31 to Feb. 3, Feb. 12-14, 16-18, and 23. Records good except for periods of ice effect, Jan. 8-14, 19, 20, 25, 26, 29, Jan. 31 to Feb. 3, Feb. 12-14, 16-18, and 23, which are fair. Flow regulated by dam 0.4 mi upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2,345,000,000 ft³. Several observations of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--62 years (water years 1930 to current year), 965 ft³ / s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,280 ft³/s, Apr. 12, gage-height, 7.54 ft, minimum daily, 39 ft³/s, June 14.

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	534	2790	925	1940	e368	353	3520	1070	499	134	86	373
2	586	2600	891	1740	e326	397	3280	1040	457	134	88	330
3	532	2310	853	1580	e330	543	2890	1080	433	132	83	313
4	585	1930	986	1290	378	826	2460	1070	596	128	54	289
5	612	1680	2340	1060	415	1030	2310	993	761	90	148	270
6	708	1500	2830	941	351	1020	2390	904	765	133	92	149
7	731	1540	3490	850	351	1100	2630	1200	586	110	79	237
8	711	1570	3980	e720	596	1510	2930	1410	409	131	93	383
9	689	1550	3890	e664	690	1720	3310	1420	363	127	311	240
10	552	1570	3570	e603	606	1800	4050	1320	353	89	371	67
11	418	2410	3260	e465	499	1720	4890	1180	349	108	135	521
12	367	3100	2920	e811	e444	1600	5220	1030	134	236	126	673
13	356	3440	2610	e1250	e339	1490	5060	894	167	254	119	822
14	594	3330	2190	e1070	e348	1430	4560	777	39	207	103	1020
15	938	2940	1800	736	354	1340	3850	684	146	187	91	1040
16	1110	2570	1670	601	e348	1280	3420	574	304	528	90	1020
17	1100	2290	1550	592	e320	1260	3180	541	403	326	88	923
18	1050	2070	1460	615	e331	1350	3030	800	566	96	86	805
19	1030	1920	1580	e676	321	1590	2890	1140	496	61	180	743
20	1150	1850	1610	e721	297	2720	2570	1210	462	94	1820	713
21	1240	1780	1650	713	288	3090	2000	1000	407	77	2370	606
22	1230	1680	1870	698	266	3240	1940	650	330	70	2820	554
23	1210	1570	2040	596	e306	3100	2290	507	269	123	2770	529
24	1780	1500	2780	507	310	2890	2600	426	274	110	2250	477
25	2700	1390	3810	e420	337	2640	2640	450	268	118	1460	558
26	3320	1260	4370	e396	332	2410	2520	360	203	167	824	1140
27	3570	1120	4440	393	364	2240	2440	518	166	113	600	1790
28	3420	1080	4100	361	324	2470	2180	833	241	81	480	2090
29	3230	1090	3430	e241	---	3050	1670	740	132	85	291	2140
30	3080	965	2660	195	---	3550	1230	578	199	88	289	2070
31	2960	---	2270	e308	---	3670	---	521	---	83	376	---
TOTAL	42093	58395	77825	23753	10539	58429	89950	26920	10777	4420	18773	22885
MEAN	1358	1946	2510	766	376	1885	2998	868	359	143	606	763
MAX	3570	3440	4440	1940	690	3670	5220	1420	765	528	2820	2140
MIN	356	965	853	195	266	353	1230	360	39	61	54	67

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1991, BY WATER YEAR (WY)

	1970-1971				1971-1972				1972-1973			
MEAN	460	918	1057	687	674	1290	3395	1472	653	343	295	391
MAX	2654	2913	4609	2260	3576	5764	5768	3202	3659	1914	1708	3447
(WY)	1978	1964	1974	1978	1970	1936	1934	1945	1984	1973	1976	1954
MIN	76.6	67.1	73.1	95.6	93.1	303	882	360	167	74.1	53.5	62.1
(WY)	1979	1953	1930	1989	1980	1967	1981	1985	1964	1983	1982	1982

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1929 - 1991

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1990	1991
ANNUAL TOTAL	476740	444759		

ANNUAL TOTAL	478748	444758	
ANNUAL MEAN	1306	1219	965

	1900	1910	1920	1930	1940	1950	1954
HIGHEST ANNUAL MEAN				1645			1954

LOWEST ANNUAL MEAN	437	1985
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HIGHEST DAILY MEAN	4510	Mar 23	5220	Apr 12	17200	Apr 3 1987
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LOWEST DAILY MEAN	35	Jul 12	39	Jun 14	4.5	Nov 10 1956
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ANNUAL SEVEN-DAY MINIMUM	114	Jul 11	81	Jul 29	6.6	Nov 6 1965
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10 PERCENT EXCEEDS	2780	2990	2480
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50 PERCENT EXCEEDS	997	777	496
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90 PERCENT EXCEEDS	315	132	122
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01049130 JOHNSON BROOK AT SOUTH ALBION, ME

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

DRAINAGE AREA.--2.92 mi².

PERIOD OF RECORD.--May 1980 to September 1991, (discontinued).

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

REMARKS.--Estimated daily discharges: Jan. 5, Jan. 8-16, 19-23, Jan. 25 to Feb. 3, Feb. 12-16, 23-25, and 28.

Records are good except for periods of ice effect, Jan. 5, Jan. 8-16, 19-23, Jan. 25 to Feb. 3, Feb. 12-16, 23-25, and 28, and for flows below 1.5 ft³/s, which are fair.

AVERAGE DISCHARGE.--11 years, 4.68 ft³/s, 21.77 in./yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 24	1030	60	10.43	Mar. 7	1030	56	10.35
Nov. 10	2345	*117	*11.42	Mar. 19	0745	53	10.29
Dec. 4	1715	78	10.78	Jun. 12	1845	43	10.09
Dec. 24	0900	50	10.23	Jul. 19	2300	67	10.58
Mar. 2	1615	50	10.23				

Minimum discharge, .01 ft³/s, July 31 and Aug. 1, gage-height, 8.11 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	6.0	4.1	6.6	e1.6	1.7	8.0	4.9	1.1	.22	.02	1.2
2	.63	4.9	3.9	5.7	e1.7	16	6.7	4.3	.96	.17	.02	.94
3	.51	4.4	3.5	5.0	e1.8	13	6.5	4.0	.86	.15	.02	.88
4	.49	4.1	28	4.5	1.9	12	6.3	3.8	1.4	.13	.03	.84
5	.87	3.7	37	e3.9	2.0	12	6.2	3.3	1.1	.11	.54	.80
6	.59	9.1	34	3.6	2.3	12	6.8	4.9	.93	.12	.26	.78
7	.59	10	25	3.1	2.7	27	8.7	14	.83	.11	.10	1.3
8	.54	9.0	16	e2.5	3.4	28	8.3	10	.78	.19	.06	1.2
9	.51	6.9	11	e2.3	3.7	22	8.5	6.9	.60	.23	.03	.99
10	1.1	14	8.7	e2.1	3.7	14	8.8	5.2	.48	.12	.95	.92
11	.82	51	6.8	e1.9	3.4	9.6	8.4	4.2	.39	.07	.80	.86
12	.83	43	5.6	e1.7	e3.0	7.5	6.8	3.5	5.0	.06	.28	.71
13	1.9	32	5.3	e1.6	e2.7	6.9	5.8	2.7	7.1	.07	.21	.35
14	9.6	22	4.4	e1.6	e2.5	6.0	5.1	2.3	5.0	.39	.15	.22
15	7.7	13	4.0	e1.6	e2.3	5.6	4.7	2.1	4.8	.24	.10	.22
16	4.5	9.3	6.5	e2.0	e2.1	5.3	6.7	2.0	5.7	.10	.09	.44
17	3.2	7.6	6.6	8.2	2.1	5.3	6.5	2.2	5.9	.07	.06	.27
18	2.5	6.8	11	4.1	1.8	5.2	6.1	3.6	4.8	.05	.04	.20
19	3.6	7.5	15	e3.5	1.8	33	5.2	2.7	4.0	.04	9.9	.48
20	2.6	7.5	13	e3.2	2.0	36	4.5	2.5	3.0	.03	24	1.2
21	2.1	6.7	9.7	e3.0	2.0	29	9.5	2.1	2.2	.02	23	.57
22	2.1	6.1	12	e2.8	4.8	20	18	1.8	1.5	.02	18	.45
23	2.5	6.0	13	e2.5	e2.7	12	16	1.4	1.2	.12	10	.48
24	32	7.4	31	2.4	e2.3	10	11	1.2	1.0	.08	5.7	.52
25	34	6.9	30	e2.3	e2.2	8.4	7.2	1.1	.84	.04	3.8	3.7
26	27	6.2	24	e2.2	2.1	7.2	6.0	.87	.66	.03	2.9	9.9
27	14	5.4	15	e2.1	1.9	8.4	4.5	1.8	.55	.05	2.2	12
28	7.8	5.2	9.5	e1.9	e1.6	21	3.9	1.5	.46	.03	1.8	8.7
29	10	4.8	7.7	e1.8	---	23	3.3	1.4	.37	.02	1.5	5.8
30	9.1	4.4	7.9	e1.7	---	18	3.0	1.3	.29	.02	1.2	3.9
31	7.5	---	8.2	e1.6	---	12	---	1.2	---	.01	1.8	---
TOTAL	192.18	330.9	417.4	93.0	68.1	447.1	217.0	104.77	63.80	3.11	109.56	60.82
MEAN	6.20	11.0	13.5	3.00	2.43	14.4	7.23	3.38	2.13	.10	3.53	2.03
MAX	34	51	37	8.2	4.8	36	18	14	7.1	.39	24	12
MIN	.49	3.7	3.5	1.6	1.6	1.7	3.0	.87	.29	.01	.02	.20
CFSM	2.12	3.78	4.61	1.03	.83	4.94	2.48	1.16	.73	.03	1.21	.69
IN.	2.45	4.22	5.32	1.18	.87	5.70	2.76	1.33	.81	.04	1.40	.77

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1991, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	2.04	5.42	6.00	2.78	4.87	10.1	13.2	5.71	3.50	.75	1.03	.54
MAX	7.94	11.0	17.1	9.40	11.7	16.8	23.6	12.8	16.2	2.39	3.53	2.03
(WY)	1982	1991	1984	1986	1984	1983	1987	1989	1984	1981	1991	1991
MIN	.025	1.34	1.39	.60	1.07	3.89	4.75	1.02	.30	.10	.044	.005
(WY)	1984	1983	1990	1981	1989	1981	1985	1985	1985	1991	1980	1983

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1980 - 1991
ANNUAL TOTAL	2290.51	2107.74	
ANNUAL MEAN	6.28	5.77	4.68
HIGHEST ANNUAL MEAN			8.17
LOWEST ANNUAL MEAN			2.63
HIGHEST DAILY MEAN	51	51	130
LOWEST DAILY MEAN	.16	.01	.00
ANNUAL SEVEN-DAY MINIMUM	.29	.02	.00
INSTANTANEOUS PEAK FLOW		117	178
INSTANTANEOUS PEAK STAGE		11.42	12.34
INSTANTANEOUS LOW FLOW		.01	.00
ANNUAL RUNOFF (CFSM)	2.15	1.98	1.60
ANNUAL RUNOFF (INCHES)	29.18	26.85	21.77
10 PERCENT EXCEEDS	14	14	11
50 PERCENT EXCEEDS	3.8	3.1	1.7
90 PERCENT EXCEEDS	.47	.15	.13

KENNEBEC RIVER BASIN

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME

(National stream-quality accounting network station)

LOCATION.--Lat 44°28'25", long 69°41'08", Kennebec County, Hydrologic Unit 01030003, on right bank at North Sidney, 5.3 mi downstream from Sebasticook River, and 11.5 mi upstream from Cushnoc Dam at Augusta.

DRAINAGE AREA.--5,403 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-83-1: 1979(M). WDR ME-86-1: 1984, 1985. WDR ME-88-1: Gage datum.

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

REMARKS.--Estimated daily discharges: Oct. 1-14, Nov. 28 to Dec. 4, Dec. 7-10, 17-26, Jan. 4 to Mar. 7, June 2-5, June 12 to Aug. 19, and Aug. 29 to Sept. 30. Records good including period of ice effect Jan. 4 to Mar. 7, and other estimated periods. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River Basin). Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--13 years, 9,104 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58,000 ft³/s, Oct. 25, gage height, 18.90 ft; minimum daily, 2,970 ft³/s, July 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6570	19800	e8230	16600	e6850	e6610	15600	21600	6070	e4190	e3140	e5800
2	e7540	18100	e8340	14400	e6760	e6690	14900	22800	e6720	e3990	e3040	e5270
3	e6940	17300	e8060	13300	e6730	e6950	15000	23500	e6030	e3690	e3220	e6120
4	e6380	16500	e10400	e10900	e6820	e8450	15100	21500	e6680	e3980	e3030	e6360
5	e6530	14800	35100	e8730	e6960	e9720	17600	20100	e9210	e3680	e3300	e5860
6	e7320	16600	31300	e8450	e7040	e8890	22900	18500	7160	e3710	e3340	e5180
7	e6890	22500	e20700	e7650	e7110	e10600	31300	23700	7370	e3880	e3430	e5540
8	e6410	19000	e19000	e7150	e7510	16000	31600	23400	6240	e3860	e3380	e5120
9	e6500	17800	e17500	e7510	e7690	16600	35100	20200	5840	e3880	e3510	e3840
10	e6140	16000	e16400	e7550	e7680	14600	50100	17100	5890	e3660	e4010	e3340
11	e6210	32300	15400	e7440	e7320	12900	38900	15400	5650	e3590	e11100	e3510
12	e6730	32700	13100	e7880	e7030	11500	27300	14300	e5040	e3680	e6330	e3170
13	e8920	25000	14200	e8290	e6800	10800	22800	12900	e5210	e3700	e4630	e3170
14	e23700	20400	13500	e8390	e6790	10200	19300	10600	e4840	e3660	e3740	e3430
15	25800	17700	12800	e8130	e6810	10100	16700	9810	e4990	e3660	e3640	e3570
16	13000	15600	12100	e8960	e6760	9620	18200	8370	e5790	e4040	e3590	e4430
17	10300	15100	e12900	e9450	e6620	9980	19700	6540	e8380	e3840	e3560	e4820
18	8920	17400	e13700	e9390	e6670	10800	17800	6660	e8630	e3590	e3310	e5070
19	9090	18400	e14200	e8600	e6640	17400	17200	8960	e6870	e3580	e5530	e5450
20	14300	18600	e15100	e8700	e6620	23800	15600	8080	e5910	e3480	26600	e5980
21	11000	17900	e14100	e8010	e6660	20500	16100	7750	e5470	e3320	28300	e6510
22	9280	16200	e15200	e7970	e6910	17400	37700	6470	e5200	e3410	18900	e6160
23	8700	14700	e18600	e7830	e7220	15800	46700	6830	e5170	e3680	15300	e6010
24	19700	14800	e39900	e7360	e7130	14100	36700	6000	e4950	e3700	10900	e5820
25	51800	15400	e35000	e6880	e6900	12700	30200	6110	e4940	e3480	8160	e7130
26	32800	14600	e24000	e6840	e6740	12400	26500	5720	e4590	e3510	7320	e11700
27	24900	14400	20700	e7000	e6700	13000	25600	7180	e4330	e3490	6100	e11500
28	19200	e10700	18200	e6990	e6620	19600	25100	7160	e4600	e3440	5950	e9480
29	19100	e9490	17300	e6790	---	23600	23200	7570	e4280	e3440	e5400	e8790
30	30200	e8770	15700	e6680	---	21100	21300	6800	e4530	e3340	e6160	e7920
31	23600	---	16800	e6810	---	16100	---	6430	---	e2970	e5150	---
TOTAL	444470	528560	547530	266630	194090	418510	751800	388040	176580	113120	223070	176050
MEAN	14340	17620	17660	8601	6932	13500	25060	12520	5886	3649	7196	5868
MAX	51800	32700	39900	16600	7690	23800	50100	23700	9210	4190	28300	11700
MIN	6140	8770	8060	6680	6620	6610	14900	5720	4280	2970	3030	3170
e Estimated												
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1991, BY WATER YEAR (WY)												
MEAN	6862	8872	8107	6190	6603	11090	21690	14920	9502	5022	4965	5482
MAX	15020	17620	17660	12230	10200	22470	36430	25530	29420	10550	7196	7636
(WY)	1982	1991	1991	1986	1981	1979	1983	1989	1984	1984	1991	1981
MIN	4061	3735	3579	3409	3446	4995	7110	6016	3252	3362	3036	3769
(WY)	1979	1985	1985	1985	1980	1989	1981	1985	1988	1980	1987	1987
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1979 - 1991												
ANNUAL TOTAL	4076580			4228450								
ANNUAL MEAN	11170			11580								
HIGHEST ANNUAL MEAN							9104					
LOWEST ANNUAL MEAN							13730					1984
HIGHEST DAILY MEAN				51800			Oct 25			186000		
LOWEST DAILY MEAN				3870			Jul 20			1160		
ANNUAL SEVEN-DAY MINIMUM				4310			Jul 17			2270		
INSTANTANEOUS PEAK FLOW							58000			232000		
INSTANTANEOUS PEAK STAGE							18.90			39.31		
10 PERCENT EXCEEDS				19600			23000			17900		
50 PERCENT EXCEEDS				8650			8080			6000		
90 PERCENT EXCEEDS				4870			3680			3730		

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

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

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

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

DISSOLVED OXYGEN: October 1978 to October 1984. Seasonal records November 1984 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

pH: Maximum, 7.8 units, July 16, 17, 1991; minimum, 6.1 units, Mar. 26, July 27, 1979, June 29, 1981.

WATER TEMPERATURE: Maximum, 28.5°C, Aug. 6, 13, 1988; minimum, 0.0°C, on many days during winter periods 1979 to 1984.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS	SPE- CIFIC CON- DUCT- ANCE	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	
		(CFS) (00061)	(US/CM) (00095)		(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MM OF HG) (00025)	(MG/L) (00300)	(00301)	(31625)	(31673)	
OCT	15...	1030	24900	51	7.2	15.0	15.0	10	750	10.3	104	K 280	520
DEC	10...	1230	E 16400	56	7.4	3.0	2.0	3.0	745	14.5	110	120	K 28
FEB	14...	1030	E 6790	70	7.0	-1.0	0.0	2.0	750	13.7	95	160	98
APR	01...	1130	16100	55	7.1	5.0	2.0	4.5	760	14.1	102	K 20	K 8
JUN	18...	1100	E 8630	61	7.1	18.0	18.0	1.4	760	8.5	90	170	140
SEP	05...	1100	E 5860	63	7.2	17.0	20.5	1.5	760	8.4	93	54	54
DATE		HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	CAR- BONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	ALKA- LINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
OCT	15...	18	5.4	1.1	2.9	0.8	16	0	13	15	5.2	3.3	
DEC	10...	19	5.9	1.1	3.1	0.8	16	0	13	14	5.8	3.7	
FEB	14...	19	5.5	1.2	6.1	0.6	15	0	12	15	7.4	6.0	
APR	01...	18	5.5	1.1	3.6	0.7	15	0	12	15	5.2	4.4	
JUN	18...	18	5.4	1.2	4.8	0.6	16	0	13	16	5.5	4.8	
SEP	05...	19	5.8	1.2	6.0	0.7	17	0	14	16	6.6	4.7	

E Estimated value.

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

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITROGEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHOROUS TOTAL (MG/L AS P) (00665)	PHOSPHOROUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 15...	<0.1	4.8	37	32	0.10	<0.01	--	0.7	0.03	<0.01	0.02
DEC 10...	0.2	4.2	45	33	0.10	0.02	0.03	0.5	0.03	<0.01	<0.01
FEB 14...	<0.1	5.2	58	41	0.20	0.06	0.08	0.4	0.02	0.02	<0.01
APR 01...	<0.1	4.5	32	33	0.14	<0.01	--	0.3	0.02	0.01	<0.01
JUN 18...	<0.1	3.7	47	35	0.16	0.03	0.04	0.3	0.03	0.01	<0.01
SEP 05...	<0.1	3.9	49	38	0.10	0.01	0.01	0.4	0.03	0.01	<0.01

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 15...	50	<1	3	<0.5	<1	<1	<3	4	82	1	<4	11
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	50	<1	4	<0.5	<1	1	<3	1	73	<1	<4	18
APR 01...	70	<1	3	<0.5	<1	2	<3	2	69	1	<4	16
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	30	<1	4	0.7	<1	<1	<3	3	94	1	<4	15

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 15...	<0.1	<10	1	<1	<1	26	<6	47	28	1880	95
DEC 10...	--	--	--	--	--	--	--	--	6	E 266	72
FEB 14...	<0.1	<10	1	<1	<1	26	<6	<3	5	E 92	79
APR 01...	<0.1	<10	1	<1	<1	27	<6	15	6	261	100
JUN 18...	--	--	--	--	--	--	--	--	3	E 70	100
SEP 05...	<0.1	<10	<1	<1	<1	28	<6	41	1	E 16	100

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

PH (STANDARD UNITS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991[illegible]

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.5	16.0	16.5	---	---	---	---	---	---	---	---	---
2	17.0	16.0	16.5	---	---	---	---	---	---	---	---	---
3	16.5	15.5	16.0	---	---	---	---	---	---	---	---	---
4	15.5	15.5	15.5	---	---	---	---	---	---	---	---	---
5	15.5	15.0	15.5	---	---	---	---	---	---	---	---	---
6	15.5	14.5	15.0	---	---	---	---	---	---	---	---	---
7	16.0	15.0	15.5	---	---	---	---	---	---	---	---	---
8	15.5	15.0	15.5	---	---	---	---	---	---	---	---	---
9	15.5	15.0	15.0	---	---	---	---	---	---	---	---	---
10	15.0	14.5	14.5	---	---	---	---	---	---	---	---	---
11	14.5	14.5	14.5	---	---	---	---	---	---	---	---	---
12	15.0	14.5	15.0	---	---	---	---	---	---	---	---	---
13	15.0	15.0	15.0	---	---	---	---	---	---	---	---	---
14	15.0	14.5	15.0	---	---	---	---	---	---	---	---	---
15	15.0	15.0	15.0	---	---	---	---	---	---	---	---	---
16	15.0	14.5	15.0	---	---	---	---	---	---	---	---	---
17	14.5	14.0	14.0	---	---	---	---	---	---	---	---	---
18	14.5	13.5	14.0	---	---	---	---	---	---	---	---	---
19	14.0	13.0	13.5	---	---	---	---	---	---	---	---	---
20	13.0	12.0	12.5	---	---	---	---	---	---	---	---	---
21	12.5	11.5	12.0	---	---	---	---	---	---	---	---	---
22	12.0	11.0	11.5	---	---	---	---	---	---	---	---	---
23	11.5	11.0	11.0	---	---	---	---	---	---	---	---	---
24	11.0	10.0	10.5	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	17.5	10.0	14.5	---	---	---	---	---	---	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	12.6	11.9	12.2
2	---	---	---	---	---	---	---	---	---	12.2	11.7	11.9
3	---	---	---	---	---	---	---	---	---	12.0	11.6	11.8
4	---	---	---	---	---	---	---	---	---	12.1	11.5	11.7
5	---	---	---	---	---	---	---	---	---	12.1	11.6	11.8
6	---	---	---	---	---	---	---	---	---	11.9	11.4	11.7
7	---	---	---	---	---	---	---	---	---	11.7	11.3	11.5
8	---	---	---	---	---	---	---	---	---	12.2	11.5	11.7
9	---	---	---	---	---	---	---	---	---	11.9	11.4	11.6
10	---	---	---	---	---	---	---	---	---	11.6	11.3	11.4
11	---	---	---	---	---	---	---	---	---	11.4	10.9	11.1
12	---	---	---	---	---	---	---	---	---	11.0	10.3	10.7
13	---	---	---	---	---	---	---	---	---	10.7	10.2	10.5
14	---	---	---	---	---	---	---	---	---	10.7	10.2	10.4
15	---	---	---	---	---	---	---	---	---	10.7	10.3	10.4
16	---	---	---	---	---	---	---	---	---	10.8	10.1	10.4
17	---	---	---	---	---	---	---	---	---	10.3	9.9	10.0
18	---	---	---	---	---	---	---	---	---	10.4	9.9	10.2
19	---	---	---	---	---	---	---	---	---	10.5	10.1	10.3
20	---	---	---	---	---	---	---	---	---	10.1	10.0	10.0
21	---	---	---	---	---	---	---	---	---	10.3	9.8	10.0
22	---	---	---	---	---	---	---	---	---	10.2	9.6	9.9
23	---	---	---	---	---	---	---	---	---	10.4	9.6	10.0
24	---	---	---	---	---	---	---	---	---	10.3	9.5	9.9
25	---	---	---	---	---	---	---	---	---	10.0	9.4	9.6
26	---	---	---	---	---	---	---	---	---	10.4	9.4	9.8
27	---	---	---	---	---	---	---	---	---	9.8	9.6	9.7
28	---	---	---	---	---	---	---	---	---	10.0	9.6	9.8
29	---	---	---	---	---	---	---	---	---	10.2	9.6	9.9
30	---	---	---	---	---	---	---	---	---	10.5	10.0	10.2
31	---	---	---	---	---	---	---	---	---	10.3	10.0	10.2
MONTH	---	---	---	---	---	---	---	---	---	12.6	9.4	10.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	10.6	10.0	10.3	8.6	7.6	8.1	8.2	6.8	7.6	8.4	7.4	7.9
2	10.4	9.8	10.1	8.9	7.8	8.3	8.5	6.8	7.6	8.5	8.1	8.3
3	10.2	9.5	9.9	8.9	7.8	8.3	8.6	6.8	7.7	8.5	8.0	8.2
4	9.7	9.4	9.6	8.9	7.5	8.2	7.8	6.9	7.3	8.3	8.1	8.2
5	9.7	9.4	9.6	8.7	7.8	8.2	7.8	6.8	7.2	8.9	8.1	8.4
6	---	---	---	8.8	7.6	8.1	8.3	7.0	7.5	8.9	8.3	8.5
7	9.6	9.0	9.3	8.6	7.7	8.1	8.3	7.1	7.7	8.6	7.9	8.2
8	9.6	9.1	9.3	8.2	7.7	7.9	8.4	7.0	7.6	8.4	7.7	8.0
9	9.9	9.0	9.4	8.5	7.6	8.0	8.2	6.9	7.5	8.6	7.7	8.2
10	9.8	8.8	9.3	8.9	7.9	8.4	7.4	6.7	7.1	---	---	---
11	9.4	8.2	8.9	9.1	7.8	8.5	7.8	6.9	7.4	8.5	7.4	7.9
12	9.0	8.0	8.4	9.2	7.9							

01049373 MILL STREAM AT WINTHROP, ME

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

DRAINAGE AREA.--32.7 mi².

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

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

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

REMARKS.--No estimated daily discharges. Records good except for period of doubtful gage-height record Oct. 1 to Nov. 7, which is poor. Some regulation at low flow by Maranacook Lake outlet dam 0.3 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--14 years, 54.6 ft³/s, 22.67 in./yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 242 ft³/s, Dec. 5, gage height, 3.41 ft, minimum, 8.3 ft³/s, Oct. 9, 11, 12, gage height, 1.53 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	15	73	130	45	30	164	136	20	21	17	22
2	10	15	71	122	44	33	154	133	19	20	17	20
3	10	15	75	115	44	38	147	129	18	20	16	24
4	10	15	118	107	42	46	141	124	21	20	15	26
5	9.7	14	234	101	40	49	137	116	19	20	15	25
6	9.7	16	238	95	39	51	132	111	20	20	15	25
7	9.8	15	221	90	39	64	136	134	19	20	16	23
8	9.1	16	202	84	39	83	137	134	19	20	15	22
9	8.6	18	190	80	40	86	137	156	19	18	14	20
10	9.0	25	172	77	41	87	136	155	22	17	16	20
11	8.4	77	156	73	40	85	135	140	25	17	15	18
12	8.5	100	142	75	39	81	129	126	24	17	15	17
13	10	152	133	74	38	79	120	112	19	17	16	20
14	12	178	123	71	38	79	115	104	16	17	15	22
15	11	164	115	68	39	76	109	97	17	16	15	23
16	11	150	116	67	39	74	112	93	17	16	15	21
17	10	137	113	70	38	73	113	92	17	16	14	21
18	11	132	110	68	36	73	112	86	22	16	14	20
19	11	127	118	67	35	113	109	80	25	16	18	21
20	9.5	122	119	66	36	153	108	74	23	17	13	20
21	9.8	118	116	64	35	154	118	70	21	20	14	19
22	9.6	112	119	61	35	149	202	70	20	18	20	19
23	9.8	105	126	59	35	144	224	64	20	17	27	19
24	12	103	169	57	34	142	215	59	23	18	24	21
25	11	93	199	55	33	137	200	57	24	19	24	29
26	11	89	193	54	32	131	183	56	24	18	25	42
27	9.1	85	181	52	31	130	169	55	25	18	30	52
28	9.2	82	165	49	31	163	155	51	25	17	29	54
29	9.9	79	152	48	---	187	143	35	25	16	26	53
30	15	76	144	46	---	186	134	19	22	17	29	49
31	17	---	138	47	---	176	---	20	---	18	28	---

TOTAL	322.7	2445	4541	2292	1057	3152	4326	2888	630	557	582	787
MEAN	10.4	81.5	146	73.9	37.7	102	144	93.2	21.0	18.0	18.8	26.2
MAX	17	178	238	130	45	187	224	156	25	21	30	54
MIN	8.4	14	71	46	31	30	108	19	16	16	13	17
CFSM	.32	2.49	4.48	2.26	1.15	3.11	4.41	2.85	.64	.55	.57	.80
IN.	.37	2.78	5.17	2.61	1.20	3.59	4.92	3.29	.72	.63	.66	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1991, BY WATER YEAR (WY)

MEAN	17.2	33.0	56.3	41.2	44.1	88.3	169	100	55.5	22.3	16.3	11.4
MAX	90.2	94.0	207	144	103	220	366	232	230	51.9	23.4	26.2
(WY)	1978	1978	1984	1978	1986	1979	1987	1989	1984	1984	1990	1991
MIN	2.74	2.67	2.13	5.89	10.0	32.4	56.8	22.9	13.6	10.4	5.91	3.21
(WY)	1979	1979	1979	1985	1980	1989	1981	1985	1985	1980	1980	1978

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1978 - 1991

ANNUAL TOTAL	22854.7	23579.7	54.6
ANNUAL MEAN	62.6	64.6	96.6
HIGHEST ANNUAL MEAN			21.3
LOWEST ANNUAL MEAN			1984
HIGHEST DAILY MEAN	238	Dec 6	1280
LOWEST DAILY MEAN	8.4	Oct 11	1.3
ANNUAL SEVEN-DAY MINIMUM	9.0	Oct 6	1.7
INSTANTANEOUS PEAK FLOW			1330
INSTANTANEOUS PEAK STAGE			6.16
INSTANTANEOUS LOW FLOW			1.0
ANNUAL RUNOFF (CFSM)	1.91	Oct 9	1.67
ANNUAL RUNOFF (INCHES)	26.00		22.67
10 PERCENT EXCEEDS	144		138
50 PERCENT EXCEEDS	44		26
90 PERCENT EXCEEDS	11		5.8

01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

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

DRAINAGE AREA.--131 mi².

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

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

REMARKS.--Estimated daily elevations: Nov. 10, 11, Dec. 4-10, 24-26, Feb. 9 to Mar. 15, Mar. 21, 22, and 25. Telephone gage-height telemeter at station.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 167.99 ft, Mar. 28 and 29; minimum daily elevation, 163.66 ft, Jan. 29.

ELEVATION, IN FEET (NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166.38	165.77	164.50	165.63	163.79	e164.84	167.67	167.66	166.99	166.47	166.27	167.58
2	166.37	165.68	164.40	165.56	163.81	e164.91	167.54	167.67	166.98	166.42	166.25	167.50
3	166.34	165.61	164.31	165.49	163.84	e165.00	167.39	167.66	166.96	166.39	166.24	167.45
4	166.31	165.54	e164.47	165.40	163.87	e165.11	167.24	167.63	166.96	166.36	166.22	167.39
5	166.28	165.46	e165.04	165.31	163.90	e165.22	167.13	167.60	166.98	166.33	166.25	167.35
6	166.23	165.44	e165.61	165.21	163.91	e165.32	167.03	167.58	166.98	166.32	166.27	167.29
7	166.21	165.46	e165.68	165.10	163.95	e165.41	166.94	167.72	166.97	166.32	166.27	167.23
8	166.15	165.43	e165.67	164.99	164.00	e165.52	166.87	167.71	166.95	166.32	166.26	167.19
9	166.12	165.35	e165.66	164.88	e164.01	e165.62	166.87	167.66	166.92	166.32	166.26	167.13
10	166.07	e165.27	e165.65	164.77	e164.03	e165.72	166.93	167.60	166.90	166.31	166.34	167.08
11	166.05	e165.58	165.64	164.64	e164.06	e165.78	166.98	167.54	166.88	166.30	166.42	167.02
12	166.03	165.69	165.62	164.59	e164.08	e165.86	167.02	167.46	166.86	166.30	166.42	166.97
13	166.02	165.69	165.58	164.52	e164.12	e165.93	167.09	167.39	166.86	166.29	166.42	166.91
14	166.11	165.69	165.53	164.41	e164.14	e166.02	167.13	167.37	166.84	166.30	166.42	166.85
15	166.13	165.69	165.49	164.30	e164.17	e166.08	167.18	167.36	166.82	166.31	166.42	166.80
16	166.11	165.66	165.49	164.20	e164.20	166.13	167.26	167.33	166.82	166.31	166.42	166.80
17	166.05	165.60	165.49	164.18	e164.23	166.19	167.32	167.30	166.82	166.31	166.41	166.78
18	166.02	165.53	165.47	164.13	e164.26	166.27	167.37	167.31	166.82	166.31	166.41	166.76
19	165.93	165.48	165.48	164.09	e164.29	166.54	167.33	167.30	166.81	166.30	166.52	166.74
20	165.91	165.45	165.48	164.02	e164.32	166.90	167.27	167.26	166.80	166.29	167.13	166.78
21	165.85	165.36	165.42	163.97	e164.35	e167.13	167.27	167.24	166.77	166.29	167.36	166.75
22	165.79	165.28	165.40	163.89	e164.38	e167.27	167.66	167.22	166.74	166.27	167.50	166.71
23	165.74	165.20	165.39	163.83	e164.45	167.40	167.83	167.19	166.71	166.31	167.57	166.68
24	165.86	165.12	e165.52	163.81	e164.51	167.57	167.90	167.14	166.69	166.33	167.58	166.64
25	166.00	165.05	e165.72	163.78	e164.58	e167.72	167.89	167.10	166.65	166.32	167.60	166.69
26	166.01	164.98	e165.78	163.74	e164.64	167.80	167.85	167.07	166.63	166.31	167.61	166.83
27	165.96	164.89	165.78	163.71	e164.71	167.86	167.76	167.04	166.60	166.32	167.62	166.89
28	165.89	164.77	165.76	163.68	e164.77	167.99	167.65	167.02	166.56	166.32	167.62	166.94
29	165.91	164.68	165.74	163.66	---	167.99	167.60	166.99	166.54	166.31	167.63	166.94
30	165.89	164.59	165.70	163.67	---	167.91	167.60	166.99	166.52	166.29	167.62	166.92
31	165.83	---	165.68	163.74	---	167.80	---	166.97	---	166.28	167.60	---
MAX	166.38	165.77	165.78	165.63	164.77	167.99	167.90	167.72	166.99	166.47	167.63	167.58
MIN	165.74	164.59	164.31	163.66	163.79	164.84	166.87	166.97	166.52	166.27	166.22	166.64

CAL YR 1990 MAX 167.70 MIN 164.31
WTR YR 1991 MAX 167.99 MIN 163.66

e Estimated

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

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

DRAINAGE AREA.--217 mi².

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

Chemical analyses: Water years 1954-56.

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

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

REMARKS.--Estimated daily discharges, Mar. 13-21. Records good except for period of doubtful gage-height record, Nov. 9, to Jan. 23, which is fair, and period of missing gage-height record, Mar. 13-21, which is poor. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

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

AVERAGE DISCHARGE.--89 years (water years 1891-64, 1977 to current year), 346 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,020 ft³/s, Mar. 21, 1936; minimum, leakage only when all gates in dam were closed several days in 1890-1909.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,260 ft³/s, Apr. 22, gage height, 7.81 ft; minimum daily, 10 ft³/s, Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	780	567	865	214	166	1340	476	137	96	12	145
2	121	631	583	746	208	173	1310	645	134	93	12	201
3	119	574	503	531	206	224	1250	644	130	92	12	201
4	122	473	1070	471	204	323	1150	635	133	94	12	324
5	121	447	1960	635	208	354	954	628	144	74	12	346
6	121	586	1740	698	209	364	904	715	150	57	11	314
7	121	781	1410	686	198	830	979	1400	151	42	10	298
8	124	806	979	682	168	1110	1000	1490	125	32	11	196
9	190	840	800	593	156	949	896	1210	113	29	11	165
10	219	915	711	491	164	495	824	712	113	27	18	156
11	217	1370	663	495	193	320	863	657	113	26	13	107
12	218	1500	661	495	210	320	501	730	113	23	14	248
13	218	1400	660	620	211	e320	223	733	112	23	14	249
14	284	1300	600	682	183	e317	277	385	113	23	14	185
15	503	1160	528	640	171	e314	329	421	113	23	13	186
16	604	1040	602	505	160	e311	528	462	115	30	15	223
17	562	912	752	470	152	e306	588	428	115	27	14	222
18	571	819	816	518	153	e284	574	491	113	26	14	198
19	663	667	917	548	125	e963	547	493	112	27	628	242
20	690	629	955	534	104	e1490	532	333	110	27	1810	313
21	466	738	925	516	100	e997	612	231	108	21	1580	244
22	509	808	938	489	113	536	1790	233	115	15	1400	218
23	554	800	957	330	184	374	2100	230	117	16	1240	191
24	1130	808	1220	223	138	383	1830	244	106	11	994	226
25	1390	808	1340	225	105	426	1670	264	101	13	293	555
26	777	808	1300	249	106	534	1540	265	98	14	12	921
27	551	796	1240	261	157	707	1300	278	95	13	12	906
28	596	794	1080	264	199	1190	1180	286	94	12	12	429
29	862	629	893	250	---	1400	848	248	94	12	12	269
30	962	548	908	229	---	1410	382	218	95	11	12	277
31	914	---	902	223	---	1380	---	160	---	11	27	---
TOTAL	14596	25167	29180	15164	4699	19270	28821	16345	3482	1040	8264	8755
MEAN	471	839	941	489	168	622	961	527	116	33.5	267	292
MAX	1390	1500	1960	865	214	1490	2100	1490	151	96	1810	921
MIN	97	447	503	223	100	166	223	160	94	11	10	107
e Estimated												
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 1991, BY WATER YEAR (WY)												
MEAN	232	247	301	269	285	539	909	454	307	195	193	202
MAX	1039	879	1517	750	887	2086	2386	1331	1720	377	285	905
(WY)	1978	1978	1984	1978	1986	1936	1920	1989	1917	1906	1906	1954
MIN	55.0	57.8	39.7	97.2	97.5	126	227	78.0	48.5	30.5	13.6	24.2
(WY)	1942	1979	1942	1985	1942	1980	1915	1985	1977	1988	1983	1978
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1891 - 1991												
ANNUAL TOTAL	162540					174783						
ANNUAL MEAN	445					479			346			
HIGHEST ANNUAL MEAN									723			
LOWEST ANNUAL MEAN									172			
HIGHEST DAILY MEAN	1960					Dec 5			4320			
LOWEST DAILY MEAN	16					Sep 5			.00			
ANNUAL SEVEN-DAY MINIMUM	21					Sep 3			.00			
INSTANTANEOUS PEAK FLOW									2260			
INSTANTANEOUS PEAK STAGE									7.81			
10 PERCENT EXCEEDS	983					1140			Apr 22			
50 PERCENT EXCEEDS	261					320			260			
90 PERCENT EXCEEDS	106					23			55			

01049550 TOGUS STREAM AT TOGUS, MAINE

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

DRAINAGE AREA.--23.7 mi².

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

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

REMARKS.--Estimated daily discharges: Jan. 9-14, and Feb. 23. Records good except for period of doubtful gage-height record, Nov. 11 to Dec. 2, and periods of ice effect, Jan. 9-14 and Feb. 23, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--10 years, 42.1 ft³/s, 24.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1010 ft³/s, Apr. 1, 1987, gage height, 7.50 ft; minimum discharge 0.79 ft³/s, Sept. 30, 1984, gage height, 2.60 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 11	0200	*459	*5.64	Mar. 19	1200	347	5.14
Dec. 4	1800	390	5.34	Apr. 21	2200	241	4.61
Dec. 24	1400	267	4.75	Aug. 19	2200	318	5.00

Minimum discharge, 3.3 ft³/s, Oct. 4, gage height, 2.99 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	92	53	89	26	18	107	78	16	6.6	4.3	24
2	5.0	81	50	79	25	38	98	73	13	6.0	4.1	20
3	4.1	73	47	71	23	60	90	69	12	5.6	3.9	18
4	3.6	67	200	65	24	57	80	65	19	5.4	4.2	17
5	4.3	62	314	60	25	61	79	43	19	6.0	5.0	17
6	4.2	92	209	56	27	61	81	28	16	5.8	4.4	17
7	4.3	101	170	52	29	147	88	95	14	5.5	4.0	16
8	5.1	88	151	48	33	144	81	63	12	5.7	3.9	16
9	4.7	76	135	e43	34	109	85	51	11	5.3	3.7	13
10	5.2	107	119	e37	33	92	103	47	9.4	4.8	13	11
11	5.1	406	103	e34	31	83	98	42	9.0	5.0	7.1	11
12	5.2	273	88	e37	29	76	84	38	9.0	4.8	5.1	10
13	9.7	203	81	e38	26	73	73	36	9.9	4.8	4.7	9.5
14	54	171	74	e37	26	71	68	36	8.8	5.5	4.5	8.7
15	41	150	68	36	27	68	64	31	9.1	5.3	4.5	9.2
16	30	135	88	37	26	65	75	27	11	5.1	4.3	11
17	23	118	91	49	25	64	72	29	14	4.7	4.1	9.1
18	18	109	97	48	23	64	67	39	13	4.6	3.9	8.5
19	27	103	122	46	23	284	62	32	12	4.6	66	12
20	26	99	105	44	24	230	57	29	10	4.6	181	18
21	23	95	90	42	24	171	107	25	9.8	4.8	107	17
22	22	86	106	38	26	146	205	24	9.3	4.6	98	15
23	25	80	113	35	e25	127	152	21	8.6	6.0	63	11
24	146	86	219	33	23	120	122	19	8.5	5.0	46	10
25	132	80	207	30	21	111	104	18	7.8	4.7	34	36
26	99	73	162	28	20	106	94	17	7.5	4.8	28	65
27	79	66	135	26	19	112	83	19	7.4	4.9	26	61
28	97	63	114	26	18	189	75	18	7.0	4.5	25	50
29	150	59	103	25	---	171	69	17	6.6	4.6	26	40
30	128	56	100	25	---	147	65	16	6.7	4.5	25	33
31	109	---	103	27	---	124	---	15	---	4.3	26	---
TOTAL	1295.7	3350	3817	1341	715	3389	2688	1160	326.4	158.4	839.7	614.0
MEAN	41.8	112	123	43.3	25.5	109	89.6	37.4	10.9	5.11	27.1	20.5
MAX	150	406	314	89	34	284	205	95	19	6.6	181	65
MIN	3.6	56	47	25	18	18	57	15	6.6	4.3	3.7	8.5
CFSM	1.76	4.71	5.20	1.83	1.08	4.61	3.78	1.58	.46	.22	1.14	.86
IN.	2.03	5.26	5.99	2.10	1.12	5.32	4.22	1.82	.51	.25	1.32	.96

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1991, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1982	13.6	51.2	1982	3.00	1982
1983	48.6	112	1983	10.4	1983
1984	59.0	153	1984	18.8	1984
1985	35.1	97.5	1985	11.1	1985
1986	37.3	70.8	1986	12.2	1986
1987	79.3	148	1987	35.3	1987
1988	117	190	1988	41.4	1988
1989	55.8	123	1989	18.0	1989
1990	34.2	130	1990	4.17	1990
1991	8.81	16.8	1991	3.03	1991
1992	9.20	27.1	1992	3.13	1992
1993	7.98	20.5	1993	1.71	1993
1994			1994		1994

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1982 - 1991
ANNUAL TOTAL	20008.1	19694.2	
ANNUAL MEAN	54.8	54.0	42.1
HIGHEST ANNUAL MEAN			68.4
LOWEST ANNUAL MEAN			19.7
HIGHEST DAILY MEAN	406	406	940
LOWEST DAILY MEAN	3.2	3.6	.85
ANNUAL SEVEN-DAY MINIMUM	3.7	4.2	.92
INSTANTANEOUS PEAK FLOW		459	1010
INSTANTANEOUS PEAK STAGE		5.64	7.50
INSTANTANEOUS LOW FLOW		3.3	.79
ANNUAL RUNOFF (CFSM)	2.31	2.28	1.77
ANNUAL RUNOFF (INCHES)	31.41	30.91	24.12
10 PERCENT EXCEEDS	118	121	101
50 PERCENT EXCEEDS	36	33	22
90 PERCENT EXCEEDS	5.3	5.0	3.8

Reservoirs in Kennebec River Basin

- 01038500 BRASSUA LAKE on Moose River, 4 mi southwest of Rockwood, Maine, completed in 1928 for power, has usable capacity of 8,560,000,000 ft³ between elevations 1,043.0 ft and 1,073.0 ft. Elevation record furnished by Kennebec Water Power Co.
- 01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft³ between gage heights 1.0 ft and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01040500 MOOSEHEAD LAKE on Kennebec River (see p. 75).
- 01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi downstream from east outlet of Moosehead Lake, completed in 1954 for power, has usable capacity of 690,000,000 ft³ between elevations 950.0 ft and 955.0 ft. Elevation record furnished by Central Maine Power Co.
- 01042000 MOXIE POND on Moxie Stream, 4.8 mi east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft³ between gage heights 6.0 ft and 14.0 ft. Gage-height record furnished by Kennebec Water Power Co.
- 01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft³ between elevations 1,110.0 ft and 1,146.0 ft. Elevation record furnished by Kennebec Water Power Co.
- 01045500 WYMAN POND on Kennebec River, 1.5 mi upstream from Bingham, Maine, completed in 1930 for power, has usable capacity of 2,943,000,000 ft³ between elevations 462.0 ft and 485.0 ft. Elevation record furnished by Central Maine Power Co.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
Sept. 30, 1990.....	7,771	476	853	577	6,776	2,772
Oct. 31.....	8,820	302	792	622	9,900	2,904
Nov. 30.....	8,771	170	530	116	10,117	2,911
Dec. 31.....	8,368	0	678	0	8,865	2,904
Jan. 31, 1991.....	6,385	0	534	0	6,114	2,898
Feb. 28.....	3,221	0	618	0	2,984	2,905
Mar. 31.....	1,955	0	675	0	2,102	2,814
Apr. 30.....	8,586	994	754	586	11,259	2,933
May 31.....	8,710	815	759	541	11,571	2,902
June 30.....	8,440	828	663	595	10,941	2,789
July 31.....	7,914	664	776	505	8,588	2,663
Aug. 31.....	8,613	691	783	595	9,464	2,881
Sept. 30.....	8,344	450	813	559	8,918	2,553

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

Minimum discharge, 21 ft³/s, July 31, Aug. 1, gage height, 1.11 ft.

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1941 - 1991	
ANNUAL TOTAL	161756		156843			
ANNUAL MEAN	443		430		350	
HIGHEST ANNUAL MEAN					500 1974	
LOWEST ANNUAL MEAN					225 1965	
HIGHEST DAILY MEAN	4770	Mar 18	5520	Apr 9	7380	Jun 16 1943
LOWEST DAILY MEAN	45	Aug 5	21	Jul 31	6.8	Aug 28 1949
ANNUAL SEVEN-DAY MINIMUM	49	Sep 4	26	Jul 29	9.0	Sep 11 1952
INSTANTANEOUS PEAK FLOW			6610	Apr 9	8630	Jun 16 1943
INSTANTANEOUS PEAK STAGE			9.39	Apr 9	12.23	Feb 21 1981
INSTANTANEOUS LOW FLOW			21	Jul 31	6.8	Aug 27 1949
ANNUAL RUNOFF (CFSM)	2.92		2.83		2.30	
ANNUAL RUNOFF (INCHES)	39.59		38.39		31.28	
10 PERCENT EXCEEDS	990		955		847	
50 PERCENT EXCEEDS	276		233		157	
90 PERCENT EXCEEDS	82		67		50	

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, Hydrologic Unit 01040001, on right bank 0.4 mi downstream from Errol Dam, 0.4 mi northeast of Errol, and 0.6 mi upstream from Clear Stream.

DRAINAGE AREA.--1,046 mi².

PERIOD OF RECORD.--Discharge: January 1905 to current year. November and December 1912, monthly discharges only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

Chemical analyses: Water years 1955, 1958.

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

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

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

AVERAGE DISCHARGE.--85 years (water years 1906-12, 1914 to current year), 1,904 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s, May 22, 1969, gage height 9.40 ft; minimum daily, leakage only at various times when gates in dam were closed in water years 1918, 1919, 1923, 1924, 1928, and 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,300 ft³/s, Apr. 10, gage-height, 7.40 ft; minimum daily, 784 ft³/s, Apr. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1880	4270	2380	3000	3170	3360	1770	3260	1350	1860	1490	1970
2	1850	4280	2380	2850	3180	3340	1760	3190	1270	1780	1490	1970
3	2060	4280	2370	2860	3180	3330	1720	3190	1450	1750	1490	1970
4	2150	4310	2380	2970	3310	3450	1520	3280	1460	1680	1470	1980
5	2450	4280	2390	2850	3440	3450	1230	3280	1320	1650	1470	2040
6	2610	4590	2230	2670	3440	3330	902	2900	1380	1650	1850	2060
7	2600	4850	2190	2620	3440	3150	784	2580	1450	1650	1980	2080
8	2430	4840	2190	2610	3430	2890	1800	2590	1510	1640	1460	2000
9	2340	4840	2210	2600	3430	2890	4370	2680	1550	1630	1460	2010
10	2340	4720	2150	2600	3430	2720	9320	2360	1550	1570	1330	2080
11	2040	4520	2090	2620	3430	2620	8640	1930	1610	1480	1260	2080
12	1840	4340	2090	2570	3440	2610	6190	1720	1650	1410	1400	2000
13	1900	3980	2090	2620	3420	2580	5410	1620	1640	1410	1350	2050
14	2380	3300	2160	2650	3440	2550	4150	1370	1650	1410	1260	2070
15	3640	3050	2220	2980	3440	2400	3440	1560	1650	1410	1250	2090
16	3560	3050	2220	3290	3430	2350	3450	1630	1660	1490	1250	2070
17	2950	3020	2210	3640	3420	2380	3440	1500	1660	1520	1250	2080
18	2630	3040	2220	3650	3430	2340	3460	1470	1570	1560	1250	2080
19	2750	3050	2260	3650	3420	2290	3450	1440	1450	1580	1760	2070
20	3040	3060	2290	3640	3420	2280	3440	1440	1520	1580	2100	2080
21	3490	2580	2300	3510	3420	2220	3640	1500	1610	1580	1810	2080
22	3480	2600	2310	3270	3430	2150	4380	1530	1650	1580	1620	2080
23	3480	2610	2920	3330	3420	2200	5450	1530	1790	1590	1610	2020
24	4570	2600	4610	3340	3410	2180	5870	1530	1860	1590	1610	2180
25	6650	2580	4860	3340	3410	2210	5830	1540	1850	1580	1610	2230
26	6610	2490	4020	3350	3390	2210	5480	1540	1850	1540	1690	2600
27	4560	2390	3130	3340	3390	2240	4970	1520	1860	1520	1720	3090
28	3930	2370	2930	3360	3380	2080	4030	1410	1850	1530	1710	3070
29	3860	2380	2860	3290	---	1660	3690	1480	1850	1550	1720	1790
30	4210	2400	2980	3170	---	1570	3440	1540	1860	1550	1850	1290
31	4220	---	3300	3180	---	1760	---	1540	---	1530	1970	---
TOTAL	98500	104670	80940	95420	94990	78790	117026	61650	48380	48850	48540	63260
MEAN	3177	3489	2611	3078	3392	2542	3901	1989	1613	1576	1566	2109
MAX	6650	4850	4860	3650	3440	3450	9320	3280	1860	1860	2100	3090
MIN	1840	2370	2090	2570	3170	1570	784	1370	1270	1410	1250	1290
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1991, BY WATER YEAR (WY)												
MEAN	1583	1530	1703	1781	1816	1811	2080	3123	2281	1744	1684	1702
MAX	3949	3745	4722	3589	3392	5454	4280	8192	7129	3324	2265	4738
(WY)	1955	1908	1974	1970	1991	1936	1976	1974	1917	1973	1990	1954
MIN	921	759	844	760	718	592	770	1027	763	808	840	902
(WY)	1922	1922	1909	1909	1911	1948	1940	1941	1911	1915	1915	1911
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1906 - 1991												
ANNUAL TOTAL				839920			941016					
ANNUAL MEAN				2301			2578			1904		
HIGHEST ANNUAL MEAN										2923		1974
LOWEST ANNUAL MEAN										1046		1911
HIGHEST DAILY MEAN				6650	Oct 25		9320	Apr 10		16100	May 22	1969
LOWEST DAILY MEAN				1330	Apr 11		784	Apr 7				
ANNUAL SEVEN-DAY MINIMUM				1440	Jan 9		1290	Aug 12		152	Mar 21	1948
INSTANTANEOUS PEAK FLOW							10300	Apr 10		16500	May 22	1969
INSTANTANEOUS PEAK STAGE							7.40	Apr 10		9.40	May 22	1969
10 PERCENT EXCEEDS				3480			3890			2600		
50 PERCENT EXCEEDS				2060			2290			1690		
90 PERCENT EXCEEDS				1600			1490			1120		

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi downstream from Dead River, and 4.0 mi upstream from Gorham.

DRAINAGE AREA.--1,361 mi².

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

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

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

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Azischohos, and Umbagog Lakes combined usable capacity, 28,100,000,000 ft³, with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuations caused by power plant 0.8 mi upstream.

AVERAGE DISCHARGE.--72 years (water years 1914-22, 1929 to current year), 2,494 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,200 ft³/s, Apr. 10, gage height, 8.73 ft; minimum daily, 1,420 ft³/s, Aug. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2330	4810	3350	4240	3280	3570	2470	4540	2730	1970	1590	2810
2	2260	4770	3260	3890	3200	3580	2370	5040	2260	1950	1600	2440
3	2220	4740	3000	3610	3380	3740	2420	4620	1880	1850	1590	2270
4	2400	4730	3040	3340	3400	4000	2500	4220	1920	1840	1610	2230
5	2910	4710	3590	3390	3580	4130	2600	4080	2070	1790	1690	2200
6	3050	4940	3380	3330	3660	3810	3340	3920	1850	1790	1910	2230
7	3010	5650	3010	3060	3670	3860	5070	4320	1720	1790	2430	2190
8	2920	5550	2880	2740	3670	3650	6150	3970	1640	1830	1760	2190
9	2740	5370	2780	2680	3650	3410	8250	3600	1780	1800	1640	2130
10	2910	5410	2800	3060	3670	3290	13100	3420	1760	1800	2100	2130
11	2880	5710	2510	2740	3600	3040	13700	2950	1730	1620	2260	2280
12	2500	5230	2310	2910	3540	2950	10100	2360	1810	1590	1700	2210
13	2760	4860	2670	2950	3390	2900	7320	2270	1810	1570	1660	2100
14	4960	4290	2510	2800	3650	2840	6270	1960	1820	1650	1470	2170
15	5570	3910	2470	3070	3600	2750	4620	1940	1830	1610	1430	2200
16	4800	3960	2700	3300	3520	2600	4960	1950	1970	1600	1520	2330
17	4070	4030	2620	3770	3480	2630	5190	1780	2420	1640	1460	2290
18	3360	4670	2700	3940	3550	2640	5060	2070	2470	1610	1420	2230
19	3940	4220	2860	3840	3520	2770	4640	1940	1880	1620	1960	2280
20	4280	3930	2910	3840	3580	2830	4500	1830	1730	1630	5780	2430
21	4150	3620	2830	3840	3770	2750	4780	1810	1680	1680	3970	2340
22	4160	3240	3170	3490	3780	2540	8630	1870	1810	1720	2990	2250
23	4080	3250	4420	3350	3680	2600	8580	1830	1830	1800	2280	2290
24	8290	3390	8090	3500	3500	2580	8130	1800	1980	1780	2070	2240
25	11400	3420	7430	3440	3630	2500	7530	1780	1960	1700	1950	2610
26	9240	3200	5890	3400	3560	2470	7030	1750	2000	1750	1880	3310
27	6740	2990	4400	3510	3500	2530	6370	1980	1980	1670	1950	3630
28	5070	3000	3720	3510	3540	3070	5670	2060	1960	1650	1910	3560
29	4660	3570	3640	3500	---	3360	4650	1740	2030	1620	2120	3250
30	4880	3580	4020	3420	---	2800	4450	1870	1950	1640	2020	1640
31	4890	---	5240	3350	---	2460	---	1940	---	1630	2790	---
TOTAL	133430	128750	110200	104810	99550	94650	180450	83210	58260	53190	64510	72460
MEAN	4304	4292	3555	3381	3555	3053	6015	2684	1942	1716	2081	2415
MAX	11400	5710	8090	4240	3780	4130	13700	5040	2730	1970	5780	3630
MIN	2220	2990	2310	2680	3200	2460	2370	1740	1640	1570	1420	1640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1991, BY WATER YEAR (WY)

	2035	2067	2136	2121	2111	2436	3853	4331	2816	2031	1934	1988
MEAN	4894	4292	5811	4044	3555	7684	6474	10050	10560	3895	2792	6387
(WY)	1955	1991	1974	1970	1991	1936	1976	1937	1917	1973	1990	1954
MIN	1374	1413	1257	1276	1299	1376	1755	1746	1545	1524	1514	1406
(WY)	1942	1922	1953	1953	1922	1922	1965	1941	1915	1980	1980	1941

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1914 - 1991
ANNUAL TOTAL	1092930	1183470	
ANNUAL MEAN	2994	3242	2494
HIGHEST ANNUAL MEAN			3675
LOWEST ANNUAL MEAN			1689
HIGHEST DAILY MEAN	11400	Oct 25	20000
LOWEST DAILY MEAN	1610	Jan 15	795
ANNUAL SEVEN-DAY MINIMUM	1640	Jan 11	866
INSTANTANEOUS PEAK FLOW			14200
INSTANTANEOUS PEAK STAGE			8.73
10 PERCENT EXCEEDS	4700	Apr 10	3660
50 PERCENT EXCEEDS	2630		2000
90 PERCENT EXCEEDS	1810		1600

01054200 WILD RIVER AT GILEAD, ME

(Hydrologic bench-mark station)

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

DRAINAGE AREA.--69.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1959 (discharge measurement only), July 1964 to current year.

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

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

REMARKS.--Estimated daily discharges: Dec. 6 to Mar. 28. Records good except for period of ice effect, Dec. 6 to Mar. 28, which is fair. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--27 years, 183 ft³/s, 35.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s, Mar. 31, 1987, gage height, 13.03 ft; minimum, 6.8 ft³/s, Aug. 3 and 4, 1991, gage height, 2.83 ft.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	1945	3,480	7.37	Apr. 21	2000	6,170	9.01
Oct. 24	1030	8,590	10.40	Aug. 10	1445	2,560	6.65
Dec. 24	0945	2,540	6.67	Aug. 19	2200	*11,400	*11.94

Minimum discharge, 6.8 ft³/s, Aug. 3, 4, gage height, 2.83 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	164	131	e122	e65	e86	161	430	180	21	8.4	132
2	74	150	124	e107	e62	e150	148	352	113	18	8.0	87
3	59	141	114	e101	e58	e230	153	270	87	17	7.1	69
4	52	131	449	e96	e59	e175	199	231	117	16	12	60
5	227	126	538	e113	e62	e125	433	202	164	15	65	59
6	109	390	e228	e144	e66	e98	1190	266	120	19	54	49
7	74	340	e170	e142	e65	e250	1650	797	86	22	25	43
8	61	210	e138	e130	e61	e460	1330	332	67	24	19	38
9	57	166	e119	e112	e57	e350	1400	256	55	30	19	33
10	79	193	e113	e98	e55	e215	910	221	49	21	834	31
11	110	480	e91	e99	e53	e160	498	199	45	18	276	48
12	156	252	e83	e86	e51	e125	320	187	42	16	97	45
13	956	186	e81	e103	e49	e105	263	173	40	15	54	33
14	1190	167	e78	e102	e48	e96	234	155	36	26	37	29
15	367	178	e76	e100	e47	e88	243	140	35	25	28	31
16	218	546	e76	e96	e46	e86	369	129	48	18	26	56
17	166	563	e74	e113	e46	e92	384	127	69	14	23	45
18	140	348	e76	e118	e46	e170	337	183	55	12	20	34
19	489	243	e111	e110	e50	e410	262	137	42	12	1770	38
20	258	194	e104	e98	e57	e250	240	122	35	11	1470	72
21	183	171	e96	e89	e68	e125	1490	110	30	11	642	50
22	154	154	e141	e82	e84	e102	2480	100	27	10	398	39
23	152	156	e386	e79	e62	e95	1020	91	26	13	199	35
24	2910	175	e1480	e76	e57	e89	516	84	25	16	125	34
25	691	158	e502	e74	e55	e86	411	77	24	12	96	185
26	366	138	e263	e72	e53	e89	340	74	22	11	80	330
27	266	130	e181	e71	e53	e122	319	78	21	14	69	197
28	229	171	e162	e70	e71	e566	284	92	19	13	64	114
29	282	213	e151	e69	---	472	239	79	27	10	251	86
30	216	154	e188	e68	---	258	282	74	24	9.5	106	75
31	184	---	e184	e67	---	187	---	74	---	8.5	164	---
TOTAL	10596	6788	6708	3007	1606	5912	18105	5842	1730	498.0	7046.5	2177
MEAN	342	226	216	97.0	57.4	191	603	188	57.7	16.1	227	72.6
MAX	2910	563	1480	144	84	566	2480	797	180	30	1770	330
MIN	52	126	74	67	46	86	148	74	19	8.5	7.1	29
CFSM	4.91	3.25	3.11	1.39	.82	2.74	8.67	2.71	.83	.23	3.27	1.04
IN.	5.66	3.63	3.59	1.61	.86	3.16	9.68	3.12	.92	.27	3.77	1.16

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1991, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	130	202	144	104	107	224	513	433	143	68.6	70.1	54.6																
MAX	442	587	604	483	579	558	900	1028	394	245	239	237																
(WY)	1978	1970	1974	1986	1981	1979	1984	1969	1973	1973	1990	1981																
MIN	17.4	32.0	21.5	18.2	19.9	25.4	238	169	49.9	16.1	14.6	11.3																
(WY)	1965	1979	1979	1981	1980	1967	1965	1977	1970	1991	1965	1978																

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1964 - 1991

	1990	1991	1964-1991
ANNUAL TOTAL	80312	70015.5	
ANNUAL MEAN	220	192	183
HIGHEST ANNUAL MEAN			261
LOWEST ANNUAL MEAN			72.9
HIGHEST DAILY MEAN	2910	2910	7240
LOWEST DAILY MEAN	15	7.1	7.1
ANNUAL SEVEN-DAY MINIMUM	18	9.1	8.5
INSTANTANEOUS PEAK FLOW		11400	13600
INSTANTANEOUS PEAK STAGE		11.94	13.03
INSTANTANEOUS LOW FLOW		6.8	6.8
ANNUAL RUNOFF (CFSM)	3.16	2.76	2.63
ANNUAL RUNOFF (INCHES)	42.93	37.42	35.74
10 PERCENT EXCEEDS	416	388	413
50 PERCENT EXCEEDS	132	100	74
90 PERCENT EXCEEDS	37	22	21

01054200 WILD RIVER AT GILEAD, ME--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 1964 to September 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION) (MG/L) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
24...	1000	8320	18	5.4	8.0	8.5	10	730	10.5	94	250	300
FEB												
11...	1430	E 53	20	6.4	-4.5	0.0	1.0	730	13.9	99	<1	<1
APR												
17...	0730	390	17	6.0	3.5	3.0	1.5	740	13.0	99	K 18	21
AUG												
23...	1200	204	17	6.1	20.0	17.5	0.40	750	9.4	100	K 7	K 7
DATE		HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	CAR- BONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	ALKA- LINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT												
24...	5	1.3	0.40	0.7	0.5	0	0	0	0	2.7	<1.0	<0.1
FEB												
11...	5	1.4	0.45	1.4	0.3	3	0	2	3.8	3.5	0.6	
APR												
17...	5	1.2	0.37	0.8	0.3	2	0	1	3.2	3.0	0.4	
AUG												
23...	5	1.2	0.37	0.8	0.3	2	0	1	3.2	4.2	0.3	
DATE		FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT												
24...	<0.1	4.1	31	--	<0.10	0.02	0.03	0.6	0.10	<0.01	0.01	
FEB												
11...	<0.1	6.9	20	17	<0.10	<0.01	--	<0.2	0.02	0.01	<0.01	
APR												
17...	0.1	4.4	8	12	<0.05	<0.01	--	<0.2	<0.01	<0.01	<0.01	
AUG												
23...	0.1	5.5	13	14	<0.05	<0.01	--	<0.2	<0.01	<0.01	<0.01	

E Estimated value.

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

01054200 WILD RIVER AT GILEAD, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 24...	30	<1	6	<0.5	1	<1	<3	9	99	15	<4	32
FEB 11...	70	<1	3	<0.5	<1	10	<3	4	110	1	4	8
APR 17...	160	<1	4	<0.5	<1	<1	<3	<1	45	2	<4	4
AUG 23...	120	<1	3	<0.5	2	<1	<3	1	40	<1	<4	7

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. 7 FINER THAN .062 MM (70331)
OCT 24...	<0.1	<10	2	<1	<1	12	<6	23	133	2990	44
FEB 11...	<0.1	<10	22	<1	<1	12	<6	13	2	E 0.29	62
APR 17...	<0.1	<10	2	<1	<1	11	<6	25	3	3.2	62
AUG 23...	<0.1	<10	<1	<1	<1	11	<6	10	0	0.0	100

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS- SOLVED EXTRAC- TION (UG/L) (22703)
APR 1990*	LS	LS	LS	LS	LS	LS	LS	LS
AUG 1990*	LS	LS	LS	LS	LS	LS	LS	LS
07...	<0.6	<0.6	0.8	<0.6	0.8	<0.6	0.09	0.03
APR 1991	<0.4	<0.4	0.7	<0.4	0.7	<0.4	0.03	0.06
AUG 23...	<0.6	<0.6	1.1	<0.6	1.0	<0.6	0.03	0.05

* Analysis from the 1990 Water Year.

LS Lost sample.

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

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

DRAINAGE AREA.--2,068 mi².

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

Chemical analyses: Water year 1953.

REVISED RECORDS.--WSP 1001: Drainage area.

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

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

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

AVERAGE DISCHARGE.--90 years, (water years 1900-03, 1906 to current year), 3,748 ft³/s.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,200 ft³/s, Oct. 25, gage height 11.79 ft; minimum daily, 1,520 ft³/s, Aug. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2960	6850	4870	7040	4020	4180	4390	8160	3600	2100	1630	4240
2	3100	6470	4630	5870	3730	4150	3760	9080	3880	2070	1550	3380
3	2860	6290	4290	5900	3870	4690	4130	8450	2840	2030	1540	2880
4	2830	6170	4270	4970	4240	5810	4150	7040	2740	1910	1630	2670
5	3830	6110	7380	4370	4330	5650	5850	6340	3440	1930	1810	2610
6	4150	6490	6170	4660	4570	5450	9410	6020	3220	1940	2100	2570
7	3800	8550	5650	4740	4720	5420	15600	9650	2790	1880	2150	2550
8	3620	7670	5170	3420	4770	6770	16800	8580	2350	2080	2420	2400
9	3470	7130	4590	3180	4790	5420	17800	6580	2240	2170	1740	2460
10	3400	6980	4350	3350	4760	5060	19700	5780	2300	1970	2790	2280
11	3800	10200	3640	3490	4570	4480	19800	5290	2220	1920	5670	2510
12	3930	9020	2830	3290	4240	4110	16700	4590	2220	1750	3070	2600
13	4430	7360	3820	3340	4050	3940	12000	4280	2160	1760	2090	2390
14	10600	6530	3560	3530	4180	3910	9690	3310	2250	1810	1930	2260
15	9860	5720	2970	3640	4220	3790	8020	3150	2160	1900	1650	2390
16	7760	6560	3380	3970	4180	3730	8310	3140	2300	1740	1520	2600
17	6270	8040	3910	4190	3940	3610	9160	2880	2880	1890	1690	2690
18	5250	8450	3790	4790	4160	3790	8850	3270	3240	1720	1590	2540
19	6230	7180	4310	4930	4270	4420	7930	3360	2810	1660	2070	2500
20	7580	6190	4340	4650	4200	5400	7090	2930	2250	1700	17200	2660
21	6260	5660	3800	4690	4520	4790	7670	2750	2060	1720	11300	2720
22	5810	5110	4930	4450	4730	4440	21700	2660	2030	1750	8240	2600
23	5580	4790	8500	4080	4570	3930	21300	2580	2090	1800	5300	2440
24	14900	5000	15800	4010	4160	3850	14700	2480	2120	1930	3980	2480
25	21500	5170	15300	4180	4230	3690	12100	2430	2210	1770	2670	2710
26	15600	5010	9450	3900	4280	3470	10800	2360	2210	1790	2600	4510
27	11400	4690	6850	3940	4160	3650	9730	2510	2180	1820	2540	5130
28	8440	4130	5080	4270	4030	4800	9060	3020	2150	1680	2490	4610
29	8550	4970	5180	4260	---	7820	7590	2750	2150	1680	2900	4120
30	7990	5440	6330	4240	---	6500	6760	2500	2220	1650	2830	3460
31	7310	---	8150	4210	---	4920	---	2510	---	1610	2990	---
TOTAL	213070	193930	177290	133550	120490	145640	330550	140430	75310	57130	105680	87960
MEAN	6873	6464	5719	4308	4303	4698	11020	4530	2510	1843	3409	2932
MAX	21500	10200	15800	7040	4790	7820	21700	9650	3880	2170	17200	5130
MIN	2830	4130	2830	3180	3730	3470	3760	2360	2030	1610	1520	2260
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1900 - 1991, BY WATER YEAR (WY)												
MEAN	2769	3329	3019	2700	2626	3884	8019	7409	3948	2540	2329	2391
MAX	7423	7569	10560	5408	7192	17420	14900	16650	12210	7299	4518	9296
(WY)	1978	1908	1974	1986	1981	1936	1901	1969	1917	1973	1990	1954
MIN	1447	1511	1121	1353	951	789	3407	2550	1795	1384	1451	1393
(WY)	1911	1909	1909	1909	1911	1911	1965	1941	1911	1911	1911	1908
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1900 - 1991												
ANNUAL TOTAL	1741570			1781030			3748			1974		
ANNUAL MEAN	4771			4880			2000			1911		
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	23900			Mar 18			21700			Apr 22		
LOWEST DAILY MEAN	1890			Jan 15			1520			Aug 16		
ANNUAL SEVEN-DAY MINIMUM	2010			Jan 12			1610			Jul 29		
INSTANTANEOUS PEAK FLOW							24200			Oct 25		
INSTANTANEOUS PEAK STAGE							11.79			Oct 25		
10 PERCENT EXCEEDS	8010						8520			7150		
50 PERCENT EXCEEDS	3800						4120			2590		
90 PERCENT EXCEEDS	2210						1960			1780		

Chemical analyses: Water year 1956

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

AVERAGE DISCHARGE.--62 years, 200 ft³/s, 28.06 in/yr.

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

EXTREMES FOR CURRENT YEAR: Peak discharges greater than base discharge of 2,400 ft ³ /s and maximum (%)							
Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 24	1245	7,900	8.83	Aug. 10	1645	2,730	5.70
Apr. 9	2115	4,890	7.20	Aug. 20	0045	*9,540	*9.62
Apr. 21	2300	5,680	7.66				

Minimum discharge, 8.9 ft³/s, Aug. 3, 4, gage height, 0.96 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	285	189	e238	e73	e53	183	520	224	24	10	135
2	141	250	172	e198	e72	e55	178	697	121	21	10	82
3	119	262	149	e175	e69	e313	188	396	84	19	9.8	65
4	94	233	391	e163	e72	e595	262	313	203	19	11	55
5	336	198	620	e154	e80	e279	560	256	251	18	58	52
6	175	319	309	e144	e88	e140	1420	265	173	23	255	46
7	115	330	251	e137	e87	e543	2170	976	114	29	93	41
8	89	225	214	e130	e81	e1990	2080	437	83	33	60	37
9	91	184	193	e125	e74	e858	2820	308	66	47	51	34
10	105	229	184	e120	e68	e349	1710	251	58	32	895	31
11	126	709	150	e117	e64	e202	819	217	53	25	505	33
12	364	326	e138	e112	e61	e136	484	194	49	21	168	35
13	789	236	e130	e109	e58	e118	369	174	46	20	85	31
14	1340	206	e120	e105	e57	e110	325	155	43	41	54	29
15	488	203	e118	e103	e55	e101	371	140	43	45	39	33
16	281	460	168	e100	e53	e95	744	126	146	28	34	104
17	206	691	155	e106	e52	e92	625	127	400	21	30	61
18	178	476	153	e103	e51	e93	504	193	188	18	27	43
19	1030	316	242	e98	e51	e489	394	138	102	17	982	47
20	496	249	190	e96	e55	e346	414	116	71	16	2670	79
21	289	212	179	e91	e173	e165	1220	100	54	14	755	55
22	227	191	271	e89	e118	e118	2510	88	45	13	577	44
23	208	207	1170	e87	e97	e105	1270	77	42	35	270	39
24	3400	266	1280	e84	e77	e99	664	73	39	52	165	38
25	995	246	569	e81	e68	e97	583	67	35	26	118	155
26	481	198	e285	e77	e62	e95	521	62	32	19	93	257
27	328	169	e185	e75	e57	e112	476	272	28	18	82	156
28	281	205	e169	e72	e54	e372	397	191	26	16	89	77
29	1080	355	e180	e75	---	494	301	123	30	13	111	58
30	534	256	e364	e78	---	271	299	94	29	11	78	51
31	354	---	e535	e75	---	204	---	100	---	10	196	---
TOTAL	15019	8692	9423	3517	2027	9089	24861	7246	2878	744	8580.8	2003
MEAN	484	290	304	113	72.4	293	829	234	95.9	24.0	277	66.8
MAX	3400	709	1280	238	173	1990	2820	976	400	52	2670	257
MIN	89	169	118	72	51	53	178	62	26	10	9.8	29
CFSM	5.00	2.99	3.14	1.17	.75	3.03	8.55	2.41	.99	.25	2.86	.69
IN.	5.77	3.34	3.62	1.35	.78	3.49	9.54	2.78	1.10	.29	3.29	.7

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1991, BY WATER YEAR (WY)

MEAN	143	209	153	103	92.6	195	616	503	171	79.0	63.8	73.8
MAX	545	644	758	444	463	1315	1141	1032	482	374	277	497
(WY)	1978	1964	1974	1986	1970	1936	1951	1972	1973	1973	1991	1954
MIN	14.9	28.5	15.7	17.8	17.3	20.8	282	111	42.4	18.1	12.7	6.10
(WY)	1948	1979	1930	1948	1980	1967	1965	1941	1941	1952	1949	1948

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1930 - 1991

SUMMARY STATISTICS	FOR 1989 WATER YEAR			FOR 1988 WATER YEAR			FOR 1987 WATER YEAR			FOR 1986 WATER YEAR		
ANNUAL TOTAL	97645			94079.8								
ANNUAL MEAN	268			258			200					
HIGHEST ANNUAL MEAN							296					1974
LOWEST ANNUAL MEAN							103					1941
HIGHEST DAILY MEAN	3400	Oct 24		3400	Oct 24		9120			Apr 1		1987
LOWEST DAILY MEAN	13	Aug 5		9.8	Aug 3		3.8			Sep 16		1948
ANNUAL SEVEN-DAY MINIMUM	19	Jul 31		11	Jul 29		4.3			Sep 11		1948
INSTANTANEOUS PEAK FLOW				9540	Aug 20		16800			Oct 24		1959
INSTANTANEOUS PEAK STAGE				9.62	Aug 20		12.87			Oct 24		1959
INSTANTANEOUS LOW FLOW				8.9	Aug 3		3.8			Sep 16		1948
ANNUAL RUNOFF (CFSM)	2.76			2.66			2.07					
ANNUAL RUNOFF (INCHES)	37.49			36.12			28.06					
10 PERCENT EXCEEDS	590			550			494					
50 PERCENT EXCEEDS	172			126			82					
90 PERCENT EXCEEDS	43			31			21					

ANDROSCOGGIN RIVER BASIN

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

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

DRAINAGE AREA.--169 mi².

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

Chemical analyses: Water year 1955, 1961.

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

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

REMARKS.--Estimated daily discharges: Dec. 11, 12, 14, 15, 20, Dec. 27 to Mar. 1 and Mar. 6-9. Records good except for periods of ice effect, Dec. 11, 12, 14, 15, 20, Dec. 27 to Mar. 1 and Mar. 6-9, which are fair. Several observations of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--50 years, 303 ft³/s, 24.39 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0200	*2,420	4.97	Apr. 23	0300	2,330	*5.10

Minimum discharge, 20 ft³/s, Aug. 3, 4, gage height, .99 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	684	230	e475	e127	e100	732	570	170	38	21	101
2	113	538	216	e425	e125	161	646	643	171	36	21	90
3	99	448	207	e375	e128	293	614	574	132	36	20	72
4	86	389	541	e345	e140	375	607	487	146	34	21	62
5	88	337	1550	e319	e160	336	672	423	218	32	23	57
6	96	449	1400	e295	e175	e295	786	404	217	32	27	52
7	94	667	1110	e275	e170	e474	930	993	163	33	41	50
8	87	577	837	e255	e165	e846	936	1080	130	42	36	46
9	79	457	659	e245	e160	e880	844	773	115	51	30	41
10	89	469	562	e230	e155	662	874	604	98	43	64	39
11	104	1190	e460	e215	e150	529	797	499	84	39	269	39
12	111	1260	e390	e205	e145	431	661	426	76	34	230	35
13	142	893	387	e195	e140	381	549	356	72	33	131	33
14	310	663	e350	e185	e138	366	472	290	69	36	84	32
15	410	536	e295	e175	e135	330	427	253	69	36	61	35
16	309	466	300	e170	e133	309	530	228	80	34	54	46
17	209	437	359	e165	e130	307	604	213	119	31	47	55
18	157	505	385	e160	e120	349	590	257	147	28	41	53
19	259	509	508	e155	e115	859	522	257	126	27	120	55
20	369	463	e545	e150	e125	1290	448	218	100	25	932	112
21	299	414	459	e148	e140	1110	577	191	81	25	1130	139
22	234	370	565	e145	e160	878	1870	167	69	23	780	108
23	212	345	833	e143	e190	696	2140	147	60	25	525	87
24	817	371	1720	e140	e155	564	1460	136	56	25	355	76
25	1460	370	2210	e138	e140	506	1020	129	51	24	246	161
26	1110	330	1650	e135	e125	469	784	130	48	24	178	595
27	715	291	e1240	e133	e115	530	622	146	46	24	133	689
28	537	274	e945	e131	e105	936	504	173	43	24	110	503
29	920	269	e750	e130	---	1310	423	159	41	23	101	363
30	1160	251	e575	e130	---	1190	383	133	40	22	98	273
31	938	---	e525	e128	---	901	---	123	---	21	92	---
TOTAL	11708	15222	22763	6515	3966	18663	23024	11182	3037	960	6021	4099
MEAN	378	507	734	210	142	602	767	361	101	31.0	194	137
MAX	1460	1260	2210	475	190	1310	2140	1080	218	51	1130	689
MIN	79	251	207	128	105	100	383	123	40	21	20	32
CFSM	2.23	3.00	4.34	1.24	.84	3.56	4.54	2.13	.60	.18	1.15	.81
IN.	2.58	3.35	5.01	1.43	.87	4.11	5.07	2.46	.67	.21	1.33	.90

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1991, BY WATER YEAR (WY)

	MEAN	166	310	303	208	227	494	968	458	228	114	84.7	86.0
MAX	852	828	1384	827	1066	1747	1769	1102	695	536	440	883	
(WY)	1978	1984	1974	1978	1970	1953	1969	1989	1984	1973	1976	1954	
MIN	22.1	45.3	46.4	38.2	40.3	101	333	148	44.7	23.7	20.5	19.6	
(WY)	1948	1953	1979	1948	1980	1967	1981	1959	1964	1965	1970	1978	

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR

ANNUAL TOTAL 134000
ANNUAL MEAN 367

FOR 1991 WATER YEAR

127160
348

WATER YEARS 1942 - 1991

HIGHEST ANNUAL MEAN										303			
LOWEST ANNUAL MEAN										482			1984
HIGHEST DAILY MEAN										144			1965
LOWEST DAILY MEAN										10800			Mar 27 1953
ANNUAL SEVEN-DAY MINIMUM										5.8			Aug 28 1956
INSTANTANEOUS PEAK FLOW										6.6			Aug 24 1956
INSTANTANEOUS PEAK STAGE										13900			Mar 27 1953
INSTANTANEOUS LOW FLOW										11.18			Mar 27 1953
ANNUAL RUNOFF (CFSM)										5.6			Aug 29 1956
ANNUAL RUNOFF (INCHES)										1.80			
10 PERCENT EXCEEDS										24.39			
50 PERCENT EXCEEDS										846			
90 PERCENT EXCEEDS										207			
										36			

01056000 GULF ISLAND POND NEAR LEWISTON, ME

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

DRAINAGE AREA.--2,863 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1981 to current year.

pH: July 1981 to current year.

WATER TEMPERATURE: July 1981 to current year.

DISSOLVED OXYGEN: July 1981 to current year.

INSTRUMENTATION.--Water quality monitor since July 1981. Continuous flow through system. Submersible pump located 30 ft below top of dam on May 20, 1983. Prior to this date pump was located 47 ft below top of dam.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 189 microsiemens, Aug. 20, 1988; minimum, 21 microsiemens, Apr. 2, 1987.

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

WATER TEMPERATURE: Maximum, 28.5°C, Aug. 7, 12, 14, 1988; minimum, -0.5°C, Jan. 9, 1985.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Dec. 15, 1983, Apr. 7, 1984; minimum, 2.1 mg/L, July 25, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 173 microsiemens, July 30; minimum, 32 microsiemens, Apr. 24, 25.

pH: Maximum, 7.2 units, Jan. 29, 30, Feb. 6-8, 19, June 13, 29; minimum, 6.2 units, Apr. 11.

WATER TEMPERATURE: Maximum, 27.0°C, Jul. 24, 27, 28; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.6 mg/L, Dec. 26, 27; minimum, 2.8 mg/L, July 29.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	131	128	130	56	54	55	82	81	82	73	63	68
2	129	125	127	58	54	55	82	81	82	75	71	74
3	127	124	126	59	58	58	81	80	81	74	71	72
4	128	124	125	65	59	61	80	77	78	71	68	70
5	130	126	128	68	63	66	82	77	78	69	69	69
6	134	129	131	70	68	69	83	78	81	69	69	69
7	132	122	128	72	69	70	78	69	75	71	69	70
8	129	118	124	74	72	73	69	61	64	75	71	73
9	127	120	123	74	70	73	63	60	61	79	74	77
10	124	120	121	70	62	66	63	61	62	82	77	80
11	120	117	118	66	61	63	66	63	65	83	81	82
12	116	107	113	68	65	67	67	65	66	85	82	84
13	109	107	108	65	51	58	70	67	68	88	84	85
14	110	107	109	52	50	51	77	70	73	96	87	90
15	108	90	101	55	51	53	79	75	77	103	92	97
16	88	70	78	59	54	57	84	79	81	106	99	102
17	73	58	66	62	58	60	90	83	86	108	104	106
18	60	57	58	69	62	66	91	88	90	107	103	105
19	59	58	58	69	63	66	91	89	90	105	101	103
20	64	58	60	---	---	---	95	91	93	101	98	100
21	69	65	67	55	52	53	96	92	94	102	98	100
22	70	68	69	55	53	54	92	89	91	102	97	100
23	69	66	67	61	55	58	90	85	88	98	96	97
24	67	66	66	66	61	63	87	82	85	96	94	95
25	74	55	70	70	66	67	82	49	66	95	94	94
26	54	39	43	77	70	72	50	41	44	96	95	95
27	43	39	41	81	77	79	42	41	42	96	95	96
28	45	43	44	83	81	82	45	42	43	98	96	97
29	49	45	46	83	82	83	49	45	47	99	97	98
30	58	49	53	83	81	82	55	49	52	99	96	97
31	58	56	57	---	---	---	66	55	59	100	98	99
MONTH	134	39	89	83	50	65	96	41	72	108	63	89

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	99	98	99	101	97	99	70	63	67	56	54	55
2	98	97	97	101	100	101	64	61	62	60	56	58
3	97	96	96	102	101	101	66	62	64	61	57	60
4	98	96	97	103	101	103	71	66	68	57	52	54
5	100	98	98	103	103	103	77	72	75	52	51	52
6	103	99	101	105	103	104	83	78	81	54	52	53
7	105	102	104	103	91	98	81	67	77	61	53	56
8	105	104	105	93	86	89	67	43	54	66	60	64
9	104	101	103	86	81	83	43	36	39	66	52	60
10	102	101	101	80	75	78	37	35	36	56	48	52
11	101	94	99	75	73	73	35	33	34	51	49	50
12	95	87	92	73	71	73	34	33	33	57	51	54
13	90	83	86	74	72	73	34	33	34	62	57	58
14	86	84	85	77	73	75	36	34	35	64	59	62
15	85	84	84	80	77	78	41	36	39	70	63	67
16	92	86	88	84	80	82	45	40	43	73	68	70
17	100	91	96	87	84	86	51	45	47	79	71	76
18	103	97	100	88	86	87	54	49	53	84	78	81
19	104	102	103	91	88	89	53	52	53	88	81	85
20	105	103	104	93	90	92	55	53	54	91	85	88
21	103	102	102	93	86	91	54	53	53	95	90	93
22	105	103	104	88	80	84	58	53	55	99	94	96
23	104	97	102	81	74	77	56	33	43	100	97	98
24	98	96	97	75	69	71	33	32	32	98	96	97
25	97	96	97	73	70	71	36	32	34	97	95	96
26	104	97	99	79	73	75	39	37	38	97	95	96
27	107	103	105	82	77	79	42	40	41	99	96	97
28	105	97	101	82	80	81	47	42	44	101	97	99
29	---	---	---	90	84	86	49	46	48	103	99	101
30	---	---	---	90	80	88	53	49	51	109	101	104
31	---	---	---	83	70	78	---	---	---	111	107	109
MONTH	107	83	98	105	69	85	83	32	50	111	48	76
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	113	109	110	129	127	128	171	167	169	83	74	78
2	113	109	111	133	129	131	169	167	168	85	82	84
3	111	108	110	135	132	134	168	167	168	86	83	85
4	110	108	110	142	134	137	167	165	166	88	85	86
5	109	107	107	140	136	138	166	164	165	88	86	88
6	107	106	107	143	139	141	164	163	164	90	88	89
7	106	96	103	145	143	144	164	163	164	91	89	90
8	100	93	97	153	144	147	165	164	164	91	90	91
9	98	94	96	152	148	150	167	165	165	92	91	92
10	96	92	94	152	149	150	171	163	167	100	92	95
11	94	91	92	151	150	150	171	163	166	98	93	95
12	92	90	91	152	150	151	169	154	164	99	95	97
13	92	90	91	152	150	151	157	143	149	102	97	99
14	93	92	92	150	149	150	146	127	139	105	100	102
15	95	93	94	150	149	150	136	119	126	111	104	108
16	97	94	95	150	149	149	134	103	119	120	110	115
17	101	97	99	150	149	150	124	97	112	124	116	121
18	117	100	107	151	149	150	126	108	116	125	119	122
19	124	116	120	152	150	151	132	113	126	124	117	120
20	127	117	122	157	152	154	122	109	116	119	118	119
21	127	116	121	157	154	155	127	54	101	120	118	119
22	126	117	120	157	155	156	52	43	47	120	119	119
23	126	124	125	163	156	159	55	42	46	120	114	116
24	125	123	124	167	161	165	51	47	49	117	114	115
25	123	120	122	169	165	167	55	48	51	117	114	115
26	121	119	120	171	167	169	57	53	55	114	109	112
27	127	120	122	170	169	169	58	56	57	113	109	111
28	129	116	124	171	169	170	62	57	58	111	105	108
29	127	119	123	172	170	171	62	59	61	106	96	100
30	130	126	128	173	172	172	68	59	62	105	86	97
31	---	---	---	172	168	171	78	63	71	---	---	---
MONTH	130	90	109	173	127	153	171	42	118	125	74	103
YEAR	173	32	92									

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.8	6.7	6.8	---	---	---	---	---	---	6.8	6.7	6.7
2	6.8	6.7	6.8	---	---	---	---	---	---	6.8	6.8	6.8
3	6.8	6.7	6.7	---	---	---	---	---	---	6.8	6.8	6.8
4	6.8	6.7	6.7	---	---	---	---	---	---	6.9	6.8	6.8
5	6.8	6.8	6.8	6.7	6.6	6.7	6.9	6.8	6.9	6.9	6.8	6.8
6	6.8	6.8	6.8	6.7	6.6	6.7	6.9	6.8	6.9	6.9	6.8	6.9
7	6.9	6.8	6.9	6.7	6.6	6.7	6.8	6.8	6.8	6.9	6.8	6.9
8	6.9	6.8	6.9	6.7	6.7	6.7	---	---	---	6.9	6.8	6.8
9	6.9	6.8	6.9	6.8	6.7	6.8	6.8	6.7	6.7	6.9	6.8	6.8
10	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.8	6.8
11	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.7	6.8	6.8	6.8
12	6.8	6.8	6.8	6.9	6.8	6.8	6.8	6.7	6.7	6.9	6.8	6.9
13	6.8	6.8	6.8	6.9	6.7	6.8	6.8	6.7	6.8	6.9	6.8	6.8
14	6.9	6.8	6.8	6.8	6.6	6.7	7.0	6.8	6.9	6.9	6.8	6.8
15	6.9	6.8	6.9	6.8	6.7	6.8	7.0	6.9	7.0	6.9	6.8	6.8
16	6.8	6.7	6.8	---	---	---	7.0	7.0	7.0	6.9	6.9	6.9
17	6.7	6.6	6.7	---	---	---	7.0	7.0	7.0	6.9	6.8	6.8
18	6.6	6.6	6.6	---	---	---	7.0	7.0	7.0	6.8	6.8	6.8
19	6.7	6.6	6.6	6.9	6.8	6.9	7.0	7.0	7.0	6.8	6.8	6.8
20	6.6	6.5	6.6	---	---	---	7.0	7.0	7.0	6.8	6.8	6.8
21	6.7	6.6	6.6	6.9	6.8	6.8	7.0	7.0	7.0	6.8	6.8	6.8
22	6.7	6.7	6.7	7.0	6.9	6.9	7.0	7.0	7.0	6.8	6.8	6.8
23	6.7	6.7	6.7	7.0	6.9	7.0	7.0	7.0	7.0	6.8	6.8	6.8
24	6.7	6.7	6.7	7.0	6.9	7.0	7.0	6.9	6.9	6.8	6.8	6.8
25	6.8	6.7	6.8	7.0	6.8	6.9	6.9	6.7	6.8	6.9	6.8	6.9
26	6.6	6.4	6.5	6.9	6.8	6.8	6.7	6.6	6.6	6.9	6.8	6.9
27	6.5	6.4	6.4	7.0	6.9	7.0	6.6	6.6	6.6	6.9	6.8	6.9
28	6.6	6.5	6.5	7.1	7.0	7.0	6.6	6.6	6.6	6.9	6.8	6.9
29	6.6	6.5	6.6	7.1	7.0	7.0	6.7	6.6	6.7	7.2	6.9	7.0
30	6.7	6.6	6.6	7.0	7.0	7.0	6.7	6.7	6.7	7.2	7.0	7.1
31	6.7	6.6	6.7	---	---	---	6.7	6.6	6.6	7.1	7.0	7.0
MONTH	6.9	6.4	6.7	7.1	6.6	6.8	7.0	6.6	6.8	7.2	6.7	6.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.1	7.0	7.1	6.9	6.9	6.9	6.9	6.7	6.8	6.9	6.7	6.8
2	7.1	7.0	7.0	6.9	6.9	6.9	6.8	6.6	6.7	6.9	6.7	6.8
3	7.1	7.0	7.0	7.0	6.9	6.9	6.8	6.6	6.7	7.0	6.8	6.9
4	7.1	7.0	7.0	7.0	6.9	7.0	6.7	6.7	6.7	6.9	6.8	6.8
5	7.1	7.0	7.1	7.0	6.8	6.9	6.8	6.7	6.7	7.0	6.7	6.9
6	7.2	7.0	7.1	7.0	6.9	7.0	6.8	6.6	6.7	7.0	6.7	6.9
7	7.2	7.2	7.2	7.1	6.8	7.0	6.8	6.7	6.7	6.9	6.7	6.8
8	7.2	7.1	7.1	7.0	6.8	6.9	6.8	6.6	6.7	6.8	6.8	6.8
9	7.1	7.1	7.1	6.9	6.8	6.8	6.6	6.4	6.5	6.8	6.8	6.8
10	7.1	7.0	7.1	6.9	6.8	6.9	6.5	6.4	6.5	6.8	6.7	6.8
11	7.1	7.0	7.1	6.9	6.7	6.8	6.5	6.2	6.3	6.7	6.7	6.7
12	7.1	7.0	7.1	6.8	6.7	6.8	6.4	6.3	6.3	6.8	6.6	6.7
13	7.1	7.0	7.1	6.8	6.6	6.7	6.5	6.4	6.5	6.8	6.7	6.7
14	7.1	7.0	7.0	6.8	6.7	6.8	6.6	6.4	6.5	6.9	6.6	6.7
15	7.1	7.0	7.0	6.8	6.7	6.8	6.6	6.5	6.6	6.8	6.6	6.7
16	7.0	6.9	6.9	6.8	6.7	6.8	6.7	6.6	6.6	6.7	6.5	6.7
17	7.1	6.9	7.0	6.9	6.7	6.9	6.8	6.6	6.7	6.8	6.6	6.7
18	7.1	6.9	7.0	7.0	6.9	6.9	6.8	6.6	6.8	6.9	6.7	6.8
19	7.2	7.1	7.1	7.0	6.8	6.9	6.8	6.7	6.8	6.8	6.7	6.7
20	7.1	6.9	7.0	6.8	6.7	6.7	6.9	6.7	6.8	6.8	6.5	6.7
21	7.1	6.9	7.0	6.9	6.7	6.8	6.9	6.8	6.8	6.7	6.6	6.6
22	7.1	6.9	7.0	6.9	6.7	6.8	6.9	6.7	6.8	6.7	6.5	6.6
23	6.9	6.8	6.8	6.9	6.7	6.8	6.7	6.3	6.6	6.7	6.5	6.6
24	7.0	6.9	7.0	6.9	6.7	6.8	6.6	6.3	6.5	6.8	6.6	6.7
25	7.0	6.9	7.0	6.8	6.6	6.7	6.6	6.4	6.5	6.8	6.6	6.7
26	7.0	6.9	6.9	6.9	6.6	6.8	6.7	6.4	6.6	6.8	6.6	6.7
27	7.0	6.8	6.9	6.9	6.8	6.9	6.7	6.5	6.6	6.8	6.6	6.7
28	6.9	6.8	6.8	7.0	6.8	6.9	6.7	6.5	6.6	6.8	6.6	6.7
29	---	---	---	6.9	6.8	6.9	6.8	6.6	6.7	6.8	6.5	6.7
30	---	---	---	6.9	6.7	6.8	6.8	6.6	6.7	6.7	6.5	6.6
31	---	---	---	6.9	6.6	6.8	---	---	---	6.7	6.5	6.6
MONTH	7.2	6.8	7.0	7.1	6.6	6.8	6.9	6.2	6.6	7.0	6.5	6.7

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued
PH (STANDARD UNITS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	.0	.0	.0	.0	.0	.0	3.0	2.5	3.0	11.0	10.5	11.0
2	.0	.0	.0	.0	.0	.0	3.0	3.0	3.0	11.5	11.0	11.0
3	.0	.0	.0	.0	.0	.0	3.5	3.0	3.5	11.5	11.0	11.0
4	.0	.0	.0	.0	.0	.0	4.0	3.5	4.0	11.0	11.0	11.0
5	.0	.0	.0	.0	.0	.0	5.5	4.0	5.0	12.5	11.0	11.5
6	.0	.0	.0	.0	.0	.0	6.5	5.0	6.0	12.0	11.5	11.5
7	.0	.0	.0	.0	.0	.0	7.5	6.0	6.5	12.5	11.5	11.5
8	.0	.0	.0	.0	.0	.0	7.0	6.0	6.5	11.5	11.0	11.5
9	.0	.0	.0	.0	.0	.0	6.0	5.5	6.0	11.5	10.5	11.0
10	.0	.0	.0	.0	.0	.0	5.5	5.0	5.5	12.5	10.5	11.0
11	.0	.0	.0	.0	.0	.0	5.0	4.0	4.5	12.0	11.0	11.5
12	.0	.0	.0	.0	.0	.0	4.0	3.5	4.0	13.5	11.0	12.5
13	.0	.0	.0	.0	.0	.0	3.5	3.5	3.5	14.0	12.5	13.0
14	.0	.0	.0	.0	.0	.0	4.0	3.5	3.5	15.0	13.0	13.5
15	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0	15.5	13.5	14.5
16	.0	.0	.0	.5	.0	.0	4.5	4.0	4.5	15.5	14.5	15.0
17	.0	.0	.0	.5	.5	.5	5.0	4.5	5.0	17.5	15.0	16.0
18	.0	.0	.0	.5	.5	.5	5.5	5.0	5.0	17.5	16.5	17.0
19	.0	.0	.0	1.0	.5	1.0	6.0	5.0	5.0	17.0	16.0	16.5
20	.0	.0	.0	1.5	1.0	1.0	6.0	5.0	5.5	17.0	16.5	16.5
21	.0	.0	.0	1.5	1.0	1.5	6.0	5.5	6.0	17.5	16.5	17.0
22	.0	.0	.0	1.5	1.0	1.0	6.5	6.0	6.5	17.5	17.0	17.5
23	.0	.0	.0	1.0	1.0	1.0	6.0	5.0	5.5	17.5	17.0	17.5
24	.0	.0	.0	1.0	1.0	1.0	5.5	5.0	5.5	18.5	17.0	18.0
25	.0	.0	.0	1.0	1.0	1.0	7.0	5.5	6.5	19.0	18.0	18.5
26	.0	.0	.0	1.0	1.0	1.0	8.0	6.5	7.0	19.0	18.5	18.5
27	.0	.0	.0	1.0	1.0	1.0	9.5	7.5	8.5	19.5	18.5	19.0
28	.0	.0	.0	1.5	1.0	1.5	10.0	9.0	9.5	20.0	19.0	19.5
29	---	---	---	3.0	2.0	2.5	10.5	9.5	10.0	20.0	19.0	19.5
30	---	---	---	3.5	3.0	3.0	11.0	10.5	10.5	19.5	19.0	19.5
31	---	---	---	3.0	3.0	3.0	---	---	---	19.5	19.0	19.5
MONTH	.0	.0	.0	3.5	.0	.5	11.0	2.5	5.5	20.0	10.5	15.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	19.5	19.0	19.5	24.5	24.0	24.5	26.0	25.5	25.5	22.5	21.5	22.0
2	20.0	19.0	19.5	24.0	23.5	24.0	26.5	25.5	26.0	21.5	21.0	21.5
3	19.5	19.0	19.0	24.0	23.5	23.5	26.0	25.5	26.0	21.5	21.0	21.5
4	20.0	19.0	19.5	23.5	23.5	23.5	25.5	25.5	25.5	21.5	21.0	21.0
5	19.5	19.0	19.0	23.5	23.0	23.5	25.5	25.0	25.0	21.5	21.0	21.0
6	19.0	19.0	19.0	23.0	23.0	23.0	25.0	24.5	25.0	21.5	21.0	21.0
7	19.0	18.5	18.5	23.0	23.0	23.0	25.0	24.5	24.5	21.5	20.5	21.0
8	19.5	18.5	18.5	23.0	22.5	22.5	24.5	24.0	24.5	21.5	20.5	21.0
9	19.0	18.5	18.5	23.0	22.0	22.5	24.5	24.0	24.0	21.0	20.5	20.5
10	19.5	18.5	19.0	22.5	22.0	22.0	24.0	23.5	24.0	21.0	20.5	20.5
11	19.5	19.0	19.5	22.5	21.5	22.0	24.0	23.5	24.0	21.5	20.5	21.0
12	21.0	19.5	20.0	22.0	21.5	21.5	24.0	23.0	23.5	21.0	20.5	21.0
13	22.5	20.0	21.5	21.5	21.0	21.5	23.5	23.0	23.0	20.5	20.0	20.5
14	21.5	21.0	21.5	22.5	21.0	22.0	23.0	22.5	22.5	20.5	20.0	20.0
15	21.5	21.0	21.0	23.5	21.5	22.5	22.5	22.5	22.5	20.0	20.0	20.0
16	21.0	20.5	20.5	23.0	22.0	22.5	22.5	22.0	22.5	20.0	20.0	20.0
17	20.5	20.0	20.5	22.5	22.0	22.5	22.5	22.0	22.5	20.0	19.5	19.5
18	20.0	19.5	20.0	23.0	22.0	22.5	23.0	22.0	22.5	19.5	19.0	19.5
19	19.5	19.0	19.5	23.0	22.5	23.0	24.0	23.0	23.5	20.0	19.5	19.5
20	20.5	19.0	19.5	24.0	23.0	23.5	23.0	22.5	23.0	20.0	19.5	19.5
21	22.0	19.0	20.5	24.5	23.5	24.0	23.0	18.5	21.0	19.5	19.0	19.0
22	22.5	20.0	21.0	25.0	23.5	24.0	18.5	17.5	18.0	19.0	18.5	18.5
23	23.0	21.5	22.5	26.5	24.0	25.0	19.5	17.5	18.0	18.5	18.0	18.0
24	23.5	23.0	23.0	27.0	26.0	26.5	19.0	18.5	18.5	18.0	17.5	18.0
25	23.5	23.0	23.5	26.5	26.0	26.5	19.0	18.5	18.5	18.0	17.0	17.5
26	24.0	23.0	23.5	26.5	26.5	26.5	19.0	18.5	19.0	17.0	16.0	17.0
27	24.5	23.5	24.0	27.0	26.5	26.5	19.5	19.0	19.5	16.0	14.5	15.0
28	24.5	22.5	24.0	27.0	26.5	26.5	20.0	19.5	19.5	14.5	13.5	14.0
29	26.0	23.0	24.5	26.5	26.0	26.5	20.0	19.5	20.0	14.0	13.5	13.5
30	24.5	24.5	24.5	26.5	26.0	26.0	21.0	19.5	20.0	13.5	12.5	13.5
31	---	---	---	26.0	25.5	26.0	23.5	20.0	21.5	---	---	---
MONTH	26.0	18.5	21.0	27.0	21.0	24.0	26.5	17.5	22.5	22.5	12.5	19.0
YEAR	27.0	.0	10.5									

ANDROSCOGGIN RIVER BASIN

01056000 GULF ISLAND POND NEAR LEWISTON, ME--Continued

OXYGEN DISSOLVED (DO), (MG/L), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.5	6.6	7.1	11.8	11.7	11.8	13.0	13.0	13.0	14.0	13.7	13.8
2	7.6	6.4	7.0	11.8	11.7	11.8	13.0	12.9	12.9	13.8	13.7	13.7
3	7.3	6.9	7.1	11.8	11.8	11.8	13.0	12.9	13.0	14.2	13.8	14.1
4	7.2	6.9	7.0	11.8	11.6	11.7	13.0	12.9	13.0	14.2	14.1	14.1
5	7.1	7.0	7.1	11.6	11.3	11.5	13.3	13.0	13.1	14.1	14.0	14.1
6	7.4	7.1	7.2	11.3	11.1	11.2	13.5	13.3	13.4	14.1	14.0	14.0
7	7.8	7.4	7.6	11.1	11.0	11.1	13.9	13.5	13.7	14.1	14.0	14.0
8	7.9	7.5	7.6	11.1	10.9	10.9	14.0	13.8	13.9	14.0	13.9	13.9
9	7.9	7.6	7.7	11.7	11.1	11.4	14.0	13.8	13.9	13.9	13.7	13.8
10	8.1	7.7	7.9	12.2	11.7	11.9	14.0	13.9	13.9	13.7	13.6	13.6
11	8.2	7.7	8.0	12.4	12.1	12.3	14.0	14.0	14.0	13.6	13.5	13.6
12	8.2	8.1	8.1	12.6	12.4	12.4	13.9	13.6	13.8	13.8	13.6	13.7
13	8.3	8.1	8.2	13.0	12.6	12.8	13.7	13.6	13.6	13.8	13.5	13.7
14	8.4	8.0	8.2	13.3	13.0	13.1	13.6	13.5	13.6	13.8	13.5	13.6
15	9.0	8.2	8.7	13.3	13.2	13.3	13.6	13.5	13.6	13.6	13.5	13.5
16	9.1	8.9	9.0	13.6	13.3	13.4	13.6	13.4	13.5	13.6	13.4	13.5
17	9.0	8.8	8.9	13.6	13.5	13.6	13.4	13.4	13.4	13.5	13.3	13.4
18	9.3	8.9	9.1	13.6	13.3	13.5	13.5	13.4	13.4	13.3	13.2	13.3
19	9.4	9.2	9.3	13.2	13.1	13.2	13.5	13.3	13.4	13.3	13.2	13.3
20	9.6	9.4	9.5	---	---	---	13.4	13.3	13.3	13.3	13.2	13.3
21	9.7	9.6	9.6	12.8	12.8	12.8	13.3	13.2	13.3	13.4	13.2	13.3
22	10.1	9.7	9.8	12.9	12.8	12.9	13.3	13.2	13.2	13.6	13.3	13.4
23	10.3	9.8	10.1	13.1	12.9	13.0	13.5	13.2	13.4	13.6	13.5	13.6
24	10.8	10.2	10.4	13.1	13.0	13.1	13.5	13.3	13.4	13.6	13.5	13.6
25	11.2	10.8	10.9	13.1	12.9	13.0	14.2	13.5	13.8	13.7	13.6	13.7
26	11.5	11.2	11.4	13.0	12.8	12.9	14.6	14.2	14.5	13.8	13.7	13.7
27	11.6	11.5	11.5	12.8	12.6	12.7	14.6	14.5	14.6	13.8	13.7	13.8
28	11.6	11.5	11.6	12.6	12.6	12.6	14.5	14.5	14.5	13.8	13.7	13.7
29	11.6	11.5	11.6	12.8	12.6	12.7	14.5	14.4	14.5	---	---	---
30	11.6	11.5	11.5	13.0	12.8	12.9	14.4	14.3	14.4	---	---	---
31	11.7	11.5	11.6	---	---	---	14.3	13.9	14.1	13.6	13.5	13.5
MONTH	11.7	6.4	9.0	13.6	10.9	12.5	14.6	12.9	13.6	14.2	13.2	13.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	13.6	13.3	13.5	13.9	13.8	13.9	12.8	12.4	12.7	11.1	11.0	11.1
2	13.5	13.4	13.5	13.8	13.6	13.7	12.9	12.7	12.8	11.1	10.8	10.9
3	13.4	13.3	13.3	13.7	13.5	13.6	12.9	12.8	12.8	10.9	10.8	10.9
4	13.3	13.2	13.3	13.5	13.4	13.5	12.8	12.6	12.7	11.0	10.9	11.0
5	13.4	13.2	13.2	13.4	13.3	13.4	12.5	12.2	12.4	10.9	10.8	10.9
6	13.4	13.3	13.3	13.3	13.2	13.2	12.2	11.9	12.1	10.8	10.6	10.7
7	13.3	13.1	13.2	13.4	13.3	13.3	11.9	11.7	11.8	10.7	9.9	10.2
8	13.2	13.1	13.1	13.4	13.3	13.3	12.4	11.8	12.1	10.0	9.9	9.9
9	13.3	13.1	13.1	13.3	13.1	13.2	12.7	12.4	12.6	10.5	10.1	10.3
10	13.3	13.2	13.3	13.3	13.1	13.2	12.7	12.5	12.6	10.6	10.3	10.4
11	13.3	13.3	13.3	13.5	13.3	13.4	12.9	12.7	12.8	10.5	10.3	10.4
12	13.3	13.2	13.3	13.5	13.4	13.4	13.3	12.9	13.1	10.4	10.1	10.3
13	13.3	13.2	13.3	13.4	13.4	13.4	13.6	13.3	13.5	10.1	9.9	10.0
14	13.4	13.2	13.3	13.3	13.1	13.2	13.5	13.5	13.5	9.8	9.4	9.6
15	13.5	13.3	13.3	13.1	13.0	13.0	13.5	13.2	13.3	9.4	9.0	9.3
16	13.6	13.3	13.5	13.0	12.8	12.9	13.2	12.8	13.0	9.2	8.6	9.0
17	13.6	13.5	13.5	12.8	12.7	12.7	12.8	12.4	12.6	9.2	8.5	8.7
18	13.6	13.5	13.5	12.7	12.5	12.6	12.4	12.3	12.3	8.9	8.6	8.8
19	13.5	13.3	13.4	12.6	12.5	12.5	12.5	12.3	12.4	8.7	8.1	8.4
20	13.5	13.4	13.4	12.6	12.4	12.4	12.6	12.4	12.5	8.3	7.5	8.0
21	13.5	13.4	13.5	12.4	12.2	12.3	12.5	12.3	12.4	8.0	7.5	7.8
22	13.7	13.5	13.6	12.4	12.2	12.3	12.3	11.8	12.1	7.8	6.9	7.4
23	13.7	13.6	13.6	12.6	12.4	12.5	12.9	12.0	12.5	7.5	6.5	7.1
24	13.6	13.5	13.5	12.9	12.5	12.7	13.0	12.9	13.0	7.9	6.6	7.4
25	13.5	13.4	13.4	13.0	12.7	12.8	12.9	12.6	12.8	7.9	7.2	7.6
26	13.5	13.3	13.4	12.8	12.7	12.7	12.5	12.3	12.4	7.3	6.8	7.1
27	13.7	13.5	13.6	12.8	12.6	12.7	12.2	11.9	12.0	7.8	6.5	7.3
28	14.0	13.6	13.8	12.7	12.6	12.7	11.8	11.4	11.6	7.7	6.7	7.2
29	---	---	---	12.7	12.2	12.5	11.4	11.2	11.3	7.2	5.7	6.7
30	---	---	---	12.2	12.0	12.1	11.3	11.1	11.2	6.7	5.1	6.0
31	---	---	---	12.4	12.1	12.2	---	---	---	6.4	5.1	5.7
MONTH	14.0	13.1	13.4	13.9	12.0	12.9	13.6	11.1	12.5	11.1	5.1	8.9

90 PERCENT EXCEEDS	14	8.9	12
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01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°55'03", long 69°58'25", Cumberland County, Hydrologic Unit 01060001, at cable suspended footbridge, 530 ft downstream from railroad bridge at Brunswick.

DRAINAGE AREA.--3,434 mi².

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1975 to September 1981.

WATER TEMPERATURE: November 1975 to September 1981.

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

REMARKS.--Water-discharge records for Androscoggin River at Auburn (station 01059000) used for computation of mean daily discharge.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)
		(00060)	(00095)	(00400)	(00020)	(00010)	(00076)	(00025)	(00300)	(00301)	(31625)	(31673)
OCT												
17...	0900	9710	85	7.0	4.0	15.0	4.5	765	9.8	95	85	K 48
DEC												
12...	1200	5150	66	7.0	2.0	0.0	3.0	760	14.5	99	100	K 32
FEB												
04...	1030	5530	102	6.9	10.0	0.0	3.5	760	13.7	94	180	50
APR												
08...	1030	26500	70	6.9	8.0	7.5	4.8	760	13.1	110	130	K 12
JUN												
11...	1430	4010	99	7.0	28.0	22.0	2.0	750	8.5	99	K25	K 32
AUG												
22...	1300	16000	83	6.9	22.0	20.0	5.0	760	9.5	104	K 1800	180
DATE		HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	CAR- BONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	ALKA- LINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT												
17...	15	4.6	0.82	9.8	1.2	13	0	11	13	12	9.6	
DEC												
12...	14	4.3	0.71	6.5	0.9	10	0	8	9.7	8.4	7.7	
FEB												
04...	18	5.8	0.95	12	0.9	15	0	12	14	11	13	
APR												
08...	13	4.1	0.75	7.4	0.9	11	0	9	10	8.3	9.0	
JUN												
11...	17	5.4	0.92	13	1.1	15	0	12	14	8.5	11	
AUG												
22...	16	5.0	0.75	11	1.2	10	0	8	11	9.8	13	

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

01059400 - ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITROGEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHOROUS TOTAL (MG/L AS P) (00665)	PHOSPHOROUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHOROUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 17...	<0.1	5.3	55	51	0.10	0.05	0.06	0.5	0.04	0.02	<0.01
DEC 12...	0.3	5.6	54	41	0.20	0.07	0.09	0.6	0.02	0.02	<0.01
FEB 04...	<0.1	5.5	66	57	0.20	0.11	0.14	0.5	0.06	0.02	0.02
APR 08...	<0.1	5.2	52	42	0.18	0.04	0.05	0.5	0.05	0.02	<0.01
JUN 11...	0.1	5.0	61	54	0.30	0.02	0.03	0.6	0.05	0.02	<0.01
AUG 22...	<0.1	4.5	63	52	0.13	0.05	0.06	0.6	0.09	0.03	<0.01

DATE	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 17...	90	<1	6	<0.5	<1	<1	<3	3	160	2	<4	19
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 04...	80	<1	7	<0.5	<1	<1	<3	2	120	<1	4	37
APR 08...	80	<1	5	<0.5	<1	<1	<3	2	120	1	<4	34
JUN 11...	50	<1	8	<0.5	<1	<1	<3	2	200	1	<4	31
AUG 22...	90	<1	6	<0.5	2	<1	<3	4	210	1	<4	39

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. Z FINER THAN .062 MM (70331)
OCT 17...	<0.1	<10	2	<1	<1	22	<6	18	9	226	85
DEC 12...	--	--	--	--	--	--	--	--	9	125	50
FEB 04...	<0.1	<10	1	<1	<1	26	<6	--	2	30	78
APR 08...	<0.1	<10	1	<1	<1	21	<6	9	21	1500	43
JUN 11...	--	<10	1	<1	<1	28	<6	--	2	22	100
AUG 22...	<0.1	<10	<1	<1	<1	24	<6	<3	15	648	95

Reservoirs in Androscoggin River Basin

- 01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft³ in top 4.0 ft of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.
- 01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft³ between gage heights 8.3 ft and 20.5 ft. Gage-height record furnished by Union Water Power Co.
- 01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 ft³ between gage heights 3.0 ft and 20.5 ft. Gage-height record furnished by Union Water Power Co.
- 01052000 AZISCOHOS LAKE on Magalloway River in Lincoln Township, 3 mi east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft³ between elevations 1,490.0 ft and 1,535.0 ft. Elevation record furnished by Union Water Power Co.
- 01053000 UMBAGOG LAKE on Androscoggin River at Errol Dam, 0.6 mi northeast of Errol, NH, used for power, has usable capacity of 3,080,160,000 ft³ between gage heights 5.5 ft and 15.0 ft. Gage-height record furnished by Union Water Power Co.
- 01056000 GULF ISLAND POND on Androscoggin River, 3 mi upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft³ in top 10 ft of pond below elevation 262.0 ft. Elevation record furnished by Central Maine Power Co.
- 01056500 LAKE AUBURN on outlet stream to Androscoggin River at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft³ between elevations 254.7 ft and 260.7 ft. Elevation record furnished by Auburn Water District.
- 01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River at Oxford, Maine, used for process water, has usable capacity of 950,000,000 ft³ between gage heights 95.0 ft and 100.0 ft. Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1990	1,071	5,586	3,252	7,318
OCT. 31.	1,222	7,867	3,288	9,593
NOV. 30.	1,078	6,225	3,455	9,376
DEC. 31.	1,078	6,438	4,844	9,624
JAN. 31, 1991	650	4,746	3,862	7,416
FEB. 28.	385	2,430	2,485	4,942
MAR. 31.	459	1,831	1,779	4,135
APR. 30.	1,031	6,438	4,750	9,132
MAY 31.	1,393	7,616	5,237	9,283
JUNE 30.	1,306	7,116	5,162	8,530
JULY 31.	1,198	5,870	4,028	7,192
AUG. 31.	1,155	6,794	4,306	7,544
SEPT. 30.	927	5,657	3,326	6,968

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1990	2,300	2,404	463	1,569
OCT. 31.	2,885	2,465	544	1,598
NOV. 30.	2,495	2,478	616	1,643
DEC. 31.	2,417	2,471	640	1,742
JAN. 31, 1991	2,885	2,461	556	1,715
FEB. 28.	2,495	2,354	556	1,632
MAR. 31.	1,632	2,402	664	1,922
APR. 30.	2,476	2,446	604	1,960
MAY 31.	2,690	2,425	580	1,896
JUNE 30.	2,729	1,942	508	1,807
JULY 31.	2,495	1,821	452	1,710
AUG. 31.	2,807	2,475	485	1,727
SEPT. 30.	2,690	2,356	474	1,702

NOTE.--Contents of Gulf Island Pond at 2400, Lake Auburn and Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 1,500 ft ³ /s and maximums (*):							
Discharge		Gage height		Discharge		Gage height	
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Oct. 24	1715	1,590	3.50	Mar. 20	0030	2,140	3.94
Nov. 6	2030	1,300	3.64	Apr. 22	1745	3,710	8.09
Nov. 11	1900	3,200	4.75	May 7	1717	1,860	3.70
Dec. 5	1030	3,530	4.97	Aug. 10	1815	1,740	3.59
Dec. 24	2200	2,230	4.02	Aug. 20	1330	a*7,870	*7.53
Mar. 8	0130	2,060	3.87	Sep. 26	1900	1,680	3.53

DAILY MEAN VALUES

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR		WATER YEARS 1950 - 1991		
ANNUAL TOTAL	114831			134145				
ANNUAL MEAN	315			368		276		
HIGHEST ANNUAL MEAN						480		
LOWEST ANNUAL MEAN						132		
HIGHEST DAILY MEAN	3260	Dec	5	7030	Aug	20	9980	Mar 13 1977
LOWEST DAILY MEAN	35	Sep	5	29	Jul	22	5.7	Jul 23 1980
ANNUAL SEVEN-DAY MINIMUM	36	Sep	2	33	Jul	17	17	Sep 24 1965
INSTANTANEOUS PEAK FLOW				7870	Aug	20	11500	Mar 13 1977
INSTANTANEOUS PEAK STAGE				7.53	Aug	20	8.46	Mar 13 1977
INSTANTANEOUS LOW FLOW				29	Jul	22	2.3	Jul 23 1980
ANNUAL RUNOFF (CFSM)	2.23			2.61		1.95		
ANNUAL RUNOFF (INCHES)	30.30			35.39		26.55		
10 PERCENT EXCEEDS	686			843		642		
50 PERCENT EXCEEDS	189			180		120		
90 PERCENT EXCEEDS	43			45		43		

01064000 PRESUMPCOT RIVER AT OUTLET OF SEBAGO LAKE, ME

LOCATION.--Lat 42°49'03", long 70°27'01", Cumberland County, Hydrologic Unit 01060001, at dam of hydroelectric plant at Eel Weir Falls 1.0 mi downstream from lake outlet.

DRAINAGE AREA.--441 mi².

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

Chemical analyses: Water years 1953, 1971.

REVISED RECORDS.--WSP 1301: 1920-50 (adjusted monthly runoff). WRD ME-81-1: Drainage area.

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

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through Dam, totaling about 40 ft³/s, not included in figures of daily discharge. Flow regulated by Long Lake and Sebago Lake, surface area, 45.6 mi², which have a combined usable capacity of 11,000,000,000 ft³.

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

AVERAGE DISCHARGE.--90 years, 641 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	985	1500	2490	985	819	423	670	340	340	340	1320
2	277	985	831	2480	985	819	300	670	340	418	340	1320
3	277	985	818	2490	985	819	300	670	340	423	340	1320
4	277	985	818	2480	985	819	300	670	340	410	340	1320
5	277	902	831	2490	985	819	300	670	340	410	340	1320
6	277	902	2160	778	985	819	300	670	340	410	340	819
7	277	902	2170	772	985	819	300	670	340	410	340	831
8	277	902	2160	772	985	819	277	670	340	410	340	831
9	277	902	2170	758	985	819	277	998	340	410	340	350
10	277	902	819	758	985	819	277	998	50	410	340	350
11	277	985	2160	758	985	819	277	998	50	410	340	350
12	277	902	2170	758	985	819	277	998	50	410	340	350
13	277	915	2160	758	985	819	277	998	50	410	340	433
14	277	915	2170	819	985	819	277	998	50	410	340	350
15	277	915	2160	831	985	819	277	998	50	340	340	350
16	277	915	2170	819	985	819	277	670	50	340	340	350
17	277	915	819	831	985	819	277	670	340	340	340	350
18	277	915	831	831	985	819	277	670	340	340	340	350
19	277	915	554	831	985	819	277	670	340	340	192	350
20	277	915	554	831	985	819	277	670	340	340	50	350
21	277	819	2480	772	985	423	277	670	340	340	667	350
22	670	819	2490	772	985	423	277	670	340	340	264	350
23	670	819	2490	772	985	423	277	340	340	340	139	277
24	819	819	2490	772	985	423	277	340	340	340	833	277
25	212	819	831	772	985	423	670	340	254	340	833	277
26	819	819	831	772	985	423	670	340	275	340	833	277
27	819	819	831	772	985	423	670	340	340	340	1330	277
28	819	819	831	772	819	423	670	340	340	340	1330	831
29	819	1160	2480	772	---	423	670	340	340	340	1330	831
30	819	1500	2480	772	---	423	670	340	340	340	1330	831
31	985	---	2480	985	---	423	---	340	---	340	1330	---
TOTAL	13268	27771	50739	33040	27414	21033	10952	20096	8019	11471	16581	17942
MEAN	428	926	1637	1066	979	678	365	648	267	370	535	598
MAX	985	1500	2490	2490	985	819	670	998	340	423	1330	1320
MIN	212	819	554	758	819	423	277	340	50	340	50	277
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 1991, BY WATER YEAR (WY)												
MEAN	581	578	579	620	657	616	768	784	727	579	610	592
MAX	986	1297	1283	1399	1854	1421	4205	1988	2137	1244	835	1065
(WY)	1955	1955	1955	1955	1978	1936	1902	1989	1984	1973	1952	1954
MIN	175	176	175	195	191	189	225	184	181	175	159	177
(WY)	1986	1986	1986	1966	1966	1942	1962	1985	1985	1985	1911	1985
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1902 - 1991												
ANNUAL TOTAL	265703			258326			640			1984		
ANNUAL MEAN	728			708			298			1985		
HIGHEST ANNUAL MEAN							1091			1984		
LOWEST ANNUAL MEAN							298			1985		
HIGHEST DAILY MEAN				2490	Dec 22	2490	Dec 22	7000	Apr 7	1902		
LOWEST DAILY MEAN				50	Jun 26	50	Jun 10	.00	Jan 31	1904		
ANNUAL SEVEN-DAY MINIMUM				277	Sep 23	50	Jun 10	.00	Jun 30	1957		
10 PERCENT EXCEEDS				985				840				
50 PERCENT EXCEEDS				670				646				
90 PERCENT EXCEEDS				300				269				

01064118 PRESUMPSCOT RIVER AT WESTBROOK, ME

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

DRAINAGE AREA.--577 mi².

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

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

REMARKS.--Estimated daily discharges: Oct. 16-19, 26, Oct. 29 to Nov. 1, Nov. 2, 3, 7-9, 13-25, Dec. 2-6, Apr. 12-14, 17-19, 23, 24, 27, Jun. 10-17, Jul. 2, 16-19, Aug. 16, and Aug. 19 to Sept. 30. Records fair, except for estimated daily discharges, which are poor. Flow regulated by Sebago Lake and many small powerplants upstream.

AVERAGE DISCHARGE.--16 years, 963 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s, Mar. 14, 1977, gage height, 21.11 ft, former site and datum; maximum gage height 25.48 ft, Aug. 20, 1991 from flood marks (present site and datum); minimum daily, 30 ft³/s, July 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7,080 ft³/s, Aug. 20; minimum daily, 117 ft³/s, June 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	e1260	1740	2730	1140	797	768	1600	430	468	380	e1460
2	342	1200	e988	2710	1150	1240	732	1330	424	e462	398	e1430
3	330	e1180	e981	2710	1110	1660	600	1130	383	488	401	e1420
4	328	e1160	e2170	2670	1190	1790	571	980	517	475	412	e1410
5	337	1070	e4090	2630	1230	1550	525	853	510	466	392	e1410
6	334	1970	e4050	1690	1250	1340	601	990	431	482	453	e904
7	322	e2380	2780	831	1310	2360	636	2150	511	504	430	e910
8	320	e1700	2640	967	1470	1970	624	1450	555	488	418	e906
9	315	e1380	2520	972	1340	1430	797	1530	526	471	406	e421
10	324	1610	2140	1020	1290	1260	1000	1450	e131	455	1420	e419
11	329	3920	1090	981	1240	1140	603	1390	e126	436	1220	e422
12	299	1990	2420	930	1140	989	e640	1330	e127	414	543	e421
13	351	e1780	2390	974	1120	1020	e560	1300	e131	403	419	e499
14	1190	e1410	2390	949	1130	1150	e530	1340	e124	509	391	e413
15	695	e1300	2320	928	1140	1120	453	1240	e117	455	382	e413
16	e502	e1240	2660	966	1130	1130	785	685	e118	e385	e390	e427
17	e416	e1190	2350	1330	1110	1080	e660	859	e426	e380	400	e442
18	e380	e1180	1500	1250	1090	1140	e580	1040	396	e375	419	e428
19	e464	e1200	1550	1110	1090	2250	e540	831	448	e370	e1780	e437
20	433	e1160	1310	1050	1130	1700	484	886	357	416	e7080	e649
21	407	e1100	1610	973	1220	1090	1670	787	420	386	e5260	e584
22	452	e1060	3020	842	1360	944	4370	470	361	413	e2390	e496
23	811	e1080	3110	816	1390	754	e2820	380	359	422	e1160	e390
24	2490	e1180	4130	857	1240	701	e1590	544	335	455	e1290	e379
25	1770	e1170	2650	855	1160	849	1250	466	355	425	e1100	e747
26	e1500	1110	1600	818	1120	910	1100	404	473	391	e1030	e1730
27	1180	1060	1370	783	1050	1240	e1020	403	450	442	e1500	e1620
28	1060	1000	1810	790	880	1730	965	513	419	432	e1470	e1540
29	e1300	1300	2780	746	---	1510	e950	486	423	404	e1510	e1210
30	e1400	1520	2810	887	---	1160	1040	446	401	383	e1520	e1100
31	e1380	---	2900	1230	---	963	---	407	---	380	e1490	---
TOTAL	22101	42860	71869	38995	33220	39967	29464	29670	10784	13435	37854	25037
MEAN	713	1429	2318	1258	1186	1289	982	957	359	433	1221	835
MAX	2490	3920	4130	2730	1470	2360	4370	2150	555	509	7080	1730
MIN	299	1000	981	746	880	701	453	380	117	370	380	379

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1991, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	655	895	975	918	1066	1399	1501	1290	993	593	669	617				
MAX	1216	1904	2318	1665	2078	2481	3723	2871	2852	855	1221	885				
(WY)	1978	1984	1991	1978	1984	1983	1984	1989	1984	1986	1991	1981				
MIN	309	366	345	472	366	643	408	305	242	219	239	237				
(WY)	1986	1979	1986	1985	1980	1985	1985	1985	1985	1985	1985	1985				

SUMMARY STATISTICS

	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1976 - 1991
ANNUAL TOTAL	384368	395256	
ANNUAL MEAN	1053	1083	963
HIGHEST ANNUAL MEAN			1740
LOWEST ANNUAL MEAN			404
HIGHEST DAILY MEAN	4130	Dec 24	7080 Aug 20
LOWEST DAILY MEAN	185	Jun 29	117 Jun 15
ANNUAL SEVEN-DAY MINIMUM	320	Oct 6	125 Jun 10
INSTANTANEOUS PEAK FLOW			12500 Mar 14 1977
INSTANTANEOUS PEAK STAGE			25.48 Aug 20 1991
INSTANTANEOUS LOW FLOW			30 Jul 9 1976
10 PERCENT EXCEEDS	1770	2050	1690
50 PERCENT EXCEEDS	998	980	775
90 PERCENT EXCEEDS	408	384	388

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

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

DRAINAGE AREA.--598 mi².

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

PERIOD OF DAILY RECORD.--

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

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

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

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

DISCHARGE: October 1975 to September 1984.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

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

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

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT 16...	1000	E 520	126	7.2	15.0	16.0	6.0	760	9.2	94	2200	1200
DEC 13...	0930	2480	65	7.1	3.0	3.0	2.9	750	13.3	100	430	210
FEB 05...	0830	1270	84	7.1	1.0	2.0	5.5	760	14.1	102	1600	430
APR 09...	0900	826	115	7.1	10.5	11.0	8.0	750	10.6	97	K 6000	3800
JUN 10...	1300	E 136	83	7.2	27.0	20.5	4.0	760	8.5	94	200	100
AUG 22...	0930	E 2480	61	6.7	19.5	18.5	9.2	760	8.8	94	1000	1200
DATE		HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	CAR-BONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	ALKA-LINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 16...	25	7.7	1.3	14	2.6	26	0	21	23	13	16	
DEC 13...	13	4.1	0.67	6.6	0.8	11	0	9	11	6.7	8.0	
FEB 05...	15	4.6	0.85	9.4	1.0	17	0	14	15	6.9	11	
APR 09...	21	6.4	1.1	14	1.3	23	0	19	21	7.8	17	
JUN 10...	19	6.0	0.93	8.3	1.0	18	0	15	17	6.8	10	
AUG 22...	16	5.0	0.92	5.3	1.3	12	0	10	12	7.1	7.2	

E Estimated value.

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

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 16...	<0.1	5.6	75	74	0.20	0.05	0.06	0.8	0.06	0.03	<0.01
DEC 13...	0.2	2.6	49	36	0.10	0.03	0.04	0.3	0.01	<0.01	<0.01
FEB 05...	<0.1	2.8	49	46	0.20	0.04	0.05	0.4	0.04	0.03	0.02
APR 09...	<0.1	3.8	82	64	0.14	0.11	0.14	0.4	0.05	0.04	0.01
JUN 10...	<0.1	2.9	57	46	0.10	0.10	0.13	0.6	0.05	0.03	0.02
AUG 22...	<0.1	4.9	55	39	0.11	0.05	0.06	0.7	0.07	0.02	<0.01

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 16...	110	1	7	<0.5	<1	<1	<3	2	190	<1	<4	23
DEC 13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	20	<1	6	<0.5	<1	<1	<3	1	35	<1	<4	19
APR 09...	60	<1	6	<0.5	<1	<1	<3	11	88	<1	<4	34
JUN 10...	30	<1	5	<0.5	<1	<1	<3	2	81	1	<4	20
AUG 22...	190	<1	5	<0.5	<1	<1	5	3	270	1	<4	27

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 16...	<0.1	<10	2	<1	<1	38	<6	19	26	E 37	96
DEC 13...	--	--	--	--	--	--	--	--	15	100	49
FEB 05...	<0.1	<10	1	<1	<1	26	<6	10	6	21	76
APR 09...	<0.1	<10	1	<1	<1	32	<6	12	7	16	93
JUN 10...	--	<10	1	<1	<1	31	<6	10	6	E 2.2	67
AUG 22...	<0.1	<10	<1	<1	<1	26	<6	25	32	E 214	84

01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	157	139	149	---	---	---	---	---	---	---	---	---
2	173	161	167	---	---	---	---	---	---	---	---	---
3	173	164	168	---	---	---	---	---	---	---	---	---
4	174	140	162	---	---	---	---	---	---	---	---	---
5	155	138	145	---	---	---	---	---	---	---	---	---
6	158	146	154	---	---	---	---	---	---	---	---	---
7	167	159	163	---	---	---	---	---	---	---	---	---
8	178	162	171	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	179	163	173	---	---	---	---	---	---	---	---	---
12	186	161	175	---	---	---	---	---	---	---	---	---
13	161	146	153	---	---	---	---	---	---	---	---	---
14	151	91	120	---	---	---	---	---	---	---	---	---
15	121	109	115	---	---	---	---	---	---	---	---	---
16	128	121	125	---	---	---	---	---	---	---	---	---
17	146	131	137	---	---	---	---	---	---	---	---	---
18	158	138	145	---	---	---	---	---	---	---	---	---
19	165	115	146	---	---	---	---	---	---	---	---	---
20	138	119	126	---	---	---	---	---	---	---	---	---
21	149	136	141	---	---	---	---	---	---	---	---	---
22	151	125	142	---	---	---	---	---	---	---	---	---
23	119	94	105	---	---	---	---	---	---	---	---	---
24	94	73	82	---	---	---	---	---	---	---	---	---
25	96	74	79	---	---	---	---	---	---	---	---	---
26	121	90	100	---	---	---	---	---	---	---	---	---
27	95	87	91	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	186	73	137	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	96	76	82
2	---	---	---	---	---	---	---	---	---	87	81	85
3	---	---	---	---	---	---	---	---	---	88	84	87
4	---	---	---	---	---	---	---	---	---	92	82	88
5	---	---	---	---	---	---	---	---	---	91	81	87
6	---	---	---	---	---	---	---	---	---	97	86	90
7	---	---	---	---	---	---	---	---	---	87	68	73
8	---	---	---	---	---	---	---	---	---	82	71	76
9	---	---	---	---	---	---	---	---	---	83	73	78
10	---	---	---	---	---	---	---	---	---	79	74	77
11	---	---	---	---	---	---	---	---	---	78	74	76
12	---	---	---	---	---	---	---	---	---	77	75	76
13	---	---	---	---	---	---	---	---	---	78	75	77
14	---	---	---	---	---	---	---	---	---	77	69	74
15	---	---	---	---	---	---	---	---	---	79	68	73
16	---	---	---	---	---	---	---	---	---	92	79	84
17	---	---	---	---	---	---	---	---	---	102	89	93
18	---	---	---	---	---	---	---	---	---	103	81	91
19	---	---	---	---	---	---	---	---	---	92	89	90
20	---	---	---	---	---	---	---	---	---	91	84	88
21	---	---	---	---	---	---	---	---	---	98	90	94
22	---	---	---	---	---	---	---	---	---	100	91	98
23	---	---	---	---	---	---	---	---	---	147	97	127
24	---	---	---	---	---	---	---	---	---	155	144	151
25	---	---	---	---	---	---	---	---	---	153	138	147
26	---	---	---	---	---	---	---	---	---	151	136	142
27	---	---	---	---	---	---	---	---	---	147	138	140
28	---	---	---	---	---	---	---	---	---	136	113	125
29	---	---	---	---	---	---	---	---	---	150	128	142
30	---	---	---	---	---	---	---	---	---	153	140	146
31	---	---	---	---	---	---	---	---	---	165	145	155
MONTH	---	---	---	---	---	---	---	---	---	165	68	100

PRESUMPCOT RIVER BASIN
01064140 PRESUMPCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER TEMPERATURE, (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN OCTOBER	MEAN	MAX	MIN NOVEMBER	MEAN	MAX	MIN DECEMBER	MEAN	MAX	MIN JANUARY	MEAN
1	18.0	17.5	18.0	---	---	---	---	---	---	---	---	---
2	18.0	17.5	18.0	---	---	---	---	---	---	---	---	---
3	17.5	17.0	17.0	---	---	---	---	---	---	---	---	---
4	17.0	17.0	17.0	---	---	---	---	---	---	---	---	---
5	17.0	16.5	16.5	---	---	---	---	---	---	---	---	---
6	17.0	16.5	16.5	---	---	---	---	---	---	---	---	---
7	18.0	17.0	17.5	---	---	---	---	---	---	---	---	---
8	18.0	17.5	18.0	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	17.5	16.5	17.0	---	---	---	---	---	---	---	---	---
12	17.0	17.0	17.0	---	---	---	---	---	---	---	---	---
13	17.0	17.0	17.0	---	---	---	---	---	---	---	---	---
14	17.0	16.5	16.5	---	---	---	---	---	---	---	---	---
15	16.5	16.0	16.5	---	---	---	---	---	---	---	---	---
16	16.0	15.5	16.0	---	---	---	---	---	---	---	---	---
17	16.0	15.5	15.5	---	---	---	---	---	---	---	---	---
18	15.5	15.0	15.5	---	---	---	---	---	---	---	---	---
19	15.5	14.5	15.0	---	---	---	---	---	---	---	---	---
20	14.5	13.5	14.0	---	---	---	---	---	---	---	---	---
21	13.5	13.0	13.0	---	---	---	---	---	---	---	---	---
22	13.0	12.5	13.0	---	---	---	---	---	---	---	---	---
23	13.0	12.5	12.5	---	---	---	---	---	---	---	---	---
24	12.5	11.0	11.5	---	---	---	---	---	---	---	---	---
25	11.0	11.0	11.0	---	---	---	---	---	---	---	---	---
26	11.0	10.5	11.0	---	---	---	---	---	---	---	---	---
27	10.5	10.0	10.0	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	18.0	10.0	15.0	---	---	---	---	---	---	---	---	---

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

50 PERCENT EXCEEDS	750	899	450
90 PERCENT EXCEEDS	320	197	180

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	903	5240	e2400	6320	e1910	1400	4730	5690	1600	459	380	1980
2	1100	4600	e2320	5910	e1800	1450	4560	5410	1640	510	366	1890
3	1130	4070	e2310	5440	e1710	1690	4410	5230	1630	583	356	1760
4	1130	3770	e2800	5010	e1700	1950	4240	5030	1640	482	403	1640
5	1100	3450	3560	4840	e1740	2310	4090	4760	1730	573	459	1570
6	1110	3610	3600	4020	e1830	2290	4080	4530	1710	498	523	1430
7	1200	3920	3740	3690	e1660	3180	4250	5640	1650	647	602	1460
8	1200	3780	3920	3110	e1900	3740	4660	5760	1500	461	557	1230
9	1190	3710	3800	e2950	e2000	3850	5230	5700	1180	476	529	1110
10	1050	3740	3630	e2720	e1800	3790	6080	5540	1320	656	801	1060
11	1080	4850	3220	e2490	e1850	3690	6880	5020	1020	585	1720	1050
12	1170	5030	3020	e2290	e1770	3560	7350	4690	1090	610	2160	884
13	1480	5050	2910	e2030	e1990	3370	7310	4360	999	576	1550	976
14	2470	4950	2770	e2200	e1810	3140	6850	3600	992	456	1370	945
15	3730	4780	2600	e2200	e1710	2930	6200	3340	950	647	1250	883
16	3820	4560	2540	e2250	e1870	2800	5710	3130	919	537	1130	934
17	3790	4230	2640	e2750	e1700	2760	5210	2910	986	545	1010	867
18	3730	4320	2690	e2990	e1760	2650	4850	2820	871	412	923	891
19	3760	4280	2810	e3170	e1510	3690	4480	2620	952	444	1300	901
20	3470	4170	2740	e3010	e1410	3950	3880	2550	939	375	4510	1130
21	3410	3970	2700	e2770	e1480	4000	4370	2430	908	517	5780	1040
22	3280	3730	3040	e2530	e1500	4010	7100	2280	851	395	5940	1070
23	3050	3540	3710	e2430	e1520	3960	7450	2090	801	387	5810	1050
24	4560	3430	6210	e2300	e1450	3930	8450	2010	776	385	5390	1150
25	5920	3230	7440	e2270	e1420	3850	9200	1970	804	380	4780	1530
26	6350	3110	8280	e2080	e1400	3670	9060	1700	801	589	4240	2760
27	7010	2980	8820	e1970	e1390	3650	8440	1680	650	383	3360	3150
28	7240	2930	8620	e2150	e1390	4070	7710	1690	636	380	3000	3000
29	7030	2890	8190	e1980	---	4510	6770	1680	649	379	2600	2890
30	6330	e2750	7520	e1960	---	4650	5840	1670	590	370	2320	2760
31	5730	---	6970	e1940	---	4720	---	1610	---	376	2140	---
TOTAL	99523	118670	131520	93770	46980	103210	179440	109140	32784	15073	67259	44991
MEAN	3210	3956	4243	3025	1678	3329	5981	3521	1093	486	2170	1500
MAX	7240	5240	8820	6320	2000	4720	9200	5760	1730	656	5940	3150
MIN	903	2750	2310	1940	1390	1400	3880	1610	590	370	356	867
e Estimated												
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1991, BY WATER YEAR (WY)												
MEAN	1464	2357	2527	1955	1939	3194	7326	5629	2583	1407	1077	1051
MAX	6887	5689	8630	5791	6257	16220	12740	11720	8741	6802	3425	5073
(WY)	1978	1952	1974	1978	1986	1936	1969	1937	1917	1973	1990	1954
MIN	406	608	560	528	615	805	3292	1707	859	486	424	399
(WY)	1948	1979	1948	1948	1918	1940	1957	1941	1964	1991	1949	1978
SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR												
ANNUAL TOTAL	1172483				1042360				2704			
ANNUAL MEAN	3212				2856							
HIGHEST ANNUAL MEAN									4076			
LOWEST ANNUAL MEAN									1372			
HIGHEST DAILY MEAN	10100				Mar 21				9200 Apr 25			
LOWEST DAILY MEAN	546				Aug 6				356 Aug 3			
ANNUAL SEVEN-DAY MINIMUM	732				Aug 1				372 Jul 28			
INSTANTANEOUS PEAK FLOW									9330 Apr 25			
INSTANTANEOUS PEAK STAGE									7.99 Apr 25			
10 PERCENT EXCEEDS	6950				5720				6180			
50 PERCENT EXCEEDS	2540				2470				1660			
90 PERCENT EXCEEDS	1020				597				671			

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to September 1981.

WATER TEMPERATURE: July 1975 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
17...	1300	3610	32	6.5	19.0	14.0	1.5	755	10.1	100	59	31
DEC												
11...	1300	3210	36	6.7	-2.0	1.0	1.1	750	13.7	98	24	K 4
FEB												
05...	1130	E 1780	43	6.4	7.5	0.0	1.3	750	13.9	97	K 2	K 5
APR												
03...	0930	4410	35	6.6	8.0	4.5	1.5	765	12.3	95	K 4	K 5
JUN												
11...	1100	985	41	6.7	25.0	22.0	1.0	750	8.4	98	K 12	34
SEP												
03...	1030	1780	37	6.6	18.0	19.0	1.7	760	8.7	94	37	K 12

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3 (00450)	CAR- BONATE WATER WH IT FIELD MG/L AS CO3 (00447)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3 (00419)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT											
17...	7	2.2	0.38	2.7	0.7	4	0	3	5.5	3.3	2.7
DEC											
11...	7	2.5	0.30	3.1	0.5	4	0	3	5.3	4.2	3.8
FEB											
05...	9	3.0	0.46	3.9	0.5	7	0	6	6.1	4.0	5.2
APR											
03...	8	2.4	0.37	3.4	0.5	5	0	4	5.8	3.6	4.3
JUN											
11...	9	2.8	0.47	3.8	0.6	7	0	6	7.0	4.9	4.8
SEP											
03...	9	2.8	0.44	3.9	0.6	6	0	5	6.6	3.3	4.2

E Estimated value.

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

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHOROUS TOTAL (MG/L AS P) (00665)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 17...	0.4	6.3	15	22	<0.10	0.02	0.03	0.4	<0.01	<0.01	<0.01
DEC 11...	0.3	7.2	26	25	0.10	0.02	0.03	0.4	<0.01	<0.01	<0.01
FEB 05...	0.2	8.2	30	30	0.20	0.01	0.01	0.2	0.02	<0.01	<0.01
APR 03...	0.1	6.2	22	24	0.11	<0.01	--	0.4	<0.01	<0.01	<0.01
JUN 11...	0.3	5.5	25	27	0.10	<0.01	--	0.4	<0.01	<0.01	<0.01
SEP 03...	0.4	6.6	31	26	0.10	<0.01	--	0.3	0.01	<0.01	<0.01

DATE	ALUMINUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC, DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS- SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 17...	130	<1	3	<0.5	<1	<1	<3	5	120	1	<4	15
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	70	<1	4	<0.5	<1	<1	<3	1	120	<1	<4	23
APR 03...	60	<1	3	<0.5	<1	1	<3	1	84	2	<4	14
JUN 11...	30	<1	4	<0.5	<1	<1	<3	1	160	<1	<4	14
SEP 03...	40	<1	4	0.8	<1	1	<3	2	160	<1	<4	20

DATE	MERCURY, DIS- SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDIMENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDIMENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 17...	<0.1	<10	1	<1	<1	17	<6	26	9	88	69
DEC 11...	--	--	--	--	--	--	--	--	7	61	61
FEB 05...	<0.1	<10	1	<1	<1	23	<6	16	9	E 42	56
APR 03...	<0.1	<10	<1	<1	<1	19	<6	21	4	48	59
JUN 11...	--	<10	<1	<1	<1	22	<6	9	0	0.0	100
SEP 03...	<0.1	<10	<1	<1	<1	20	<6	7	4	19	93

01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43° 24' 50", long 70° 59' 15", Strafford County, Hydrologic Unit 01060003, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 mi².

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Great East and Lovell Lakes, and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--23 years, 192 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s, Apr. 6, 1984, gage height, 6.70 ft; minimum daily, 19 ft³/s, Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft³/s, Sept. 26, gage height, 4.35 ft; minimum daily, 25 ft³/s, July 5-7, 11, 12, 24, 28-31, Aug. 1-4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	118	124	319	181	138	274	235	92	27	25	72
2	84	118	124	311	181	139	237	236	92	27	25	69
3	47	118	124	306	178	159	199	237	92	27	25	75
4	47	118	234	299	178	254	144	236	92	26	25	54
5	46	118	416	291	180	320	144	235	92	25	26	54
6	46	118	399	284	185	310	146	235	92	25	26	53
7	46	118	316	279	192	313	147	340	68	25	26	52
8	46	155	232	264	207	341	147	403	50	27	26	49
9	96	215	236	225	219	336	147	341	50	27	26	47
10	221	215	237	200	221	319	194	259	49	26	26	35
11	216	333	235	201	217	302	234	259	49	25	26	29
12	211	416	235	205	210	285	231	259	49	25	27	29
13	210	338	233	204	197	276	228	259	48	26	27	29
14	208	218	231	204	193	231	228	223	48	26	28	29
15	208	218	229	204	187	178	211	181	48	27	29	29
16	208	215	229	207	177	178	195	181	48	27	29	42
17	208	214	235	223	168	178	195	136	48	27	29	58
18	207	209	235	239	159	178	195	92	46	27	29	58
19	204	208	235	247	157	189	195	92	43	27	219	58
20	204	208	237	250	152	232	194	102	42	27	429	60
21	204	196	301	245	152	251	194	126	42	27	411	61
22	202	177	350	237	155	251	359	145	42	27	256	63
23	241	177	350	224	159	247	470	137	42	26	169	63
24	305	177	425	216	161	245	320	132	42	25	171	86
25	338	177	523	204	160	236	238	131	41	26	152	189
26	338	177	508	194	155	229	237	131	41	26	101	428
27	338	177	363	185	145	229	237	131	41	26	71	492
28	338	177	282	180	139	255	235	130	33	25	74	440
29	331	146	289	174	---	301	235	113	27	25	75	361
30	328	124	302	167	---	335	235	92	27	25	72	254
31	215	---	315	177	---	320	---	92	---	25	73	---
TOTAL	6051	5693	8784	7165	4965	7755	6645	5901	1616	809	2753	3418
MEAN	195	190	283	231	177	250	221	190	53.9	26.1	88.8	114
MAX	338	416	523	319	221	341	470	403	92	27	429	492
MIN	46	118	124	167	139	138	144	92	27	25	25	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1991, BY WATER YEAR (WY)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	168	191	223	170	200	323	444	237	130	64.1	67.3	85.7											
MAX	499	357	604	384	439	720	908	431	453	143	165	145											
(WY)	1978	1984	1984	1978	1970	1979	1969	1984	1984	1973	1982	1981											
MIN	81.4	77.9	40.5	59.7	60.8	110	103	55.4	40.4	26.1	30.5	35.7											
(WY)	1969	1987	1979	1977	1977	1980	1985	1985	1985	1991	1987	1978											

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1969 - 1991
ANNUAL TOTAL	71495	61555	
ANNUAL MEAN	196	169	192
HIGHEST ANNUAL MEAN			307
LOWEST ANNUAL MEAN			98.6
HIGHEST DAILY MEAN	523	523	3220
LOWEST DAILY MEAN	36	25	19
ANNUAL SEVEN-DAY MINIMUM	37	25	25
INSTANTANEOUS PEAK FLOW		620	4000
INSTANTANEOUS PEAK STAGE		4.35	6.70
10 PERCENT EXCEEDS	360	317	408
50 PERCENT EXCEEDS	200	178	135
90 PERCENT EXCEEDS	49	27	40

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1990

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Stream	Tributary to	Location	Drainage area (mi)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
ST. JOHN RIVER BASIN						
Prestile Stream	St. John River	Lat 46°30'33", long 67°51'12", Aroostook County, at outfall of Mars Hill STP, 0.3 mi downstream from Rocky Brook, near Mars Hill, ME	about 86	--	09-10-91	17.8
KENNEBEC RIVER BASIN						
Moose River	Moosehead Lake	Lat 45°39'50", long 69°48'41", Somerset County, 3,000 ft below dam at outlet of Brassua Lake near Rockwood	716	many	11-20-90	426
Austin Stream	Kennebec River	Lat 45°03'25", long 69°53'10", Somerset County, at the mouth, at Bingham, ME	90.3	many	06-27-91	30.4
Mud Mills Stream	Wilson Stream	Lat 44°14'34", long 70°01'18", Kennebec County, 30 ft upstream from culvert on State Highway 135, at Monmouth, ME	8.16	1975-77	05-13-91 05-17-91	22.7 2.26
Outlet of Cochnewagon Lake	Wilson Stream	Lat 44°14'18", long 70°02'10", Kennebec County, at Outlet of Cochnewagon Lake at Monmouth, ME	3.14	1976	05-08-91 05-08-91 06-24-91 08-01-91 08-29-91 09-18-91	13.5 30.5 0.72 0.53 4.65 17.2
Wilson Stream 01047730	Kennebec River	Lat 44°36'55", long 70°11'42", Franklin County, 0.1 mi upstream from railroad bridge in East Wilton, and 1.5 mi downstream from Varnum Stream at East Wilton, ME	45.8	many	08-26-91 08-26-91	35.3 33.0
ANDROSCOGGIN RIVER BASIN						
Androscoggin River	Kennebec River	Lat 44°40'01", long 71°10'54", Coos County, NH, .05 mi down- stream from Bog Brook, and 5.3 mi upstream from Pontook Dam, near Errol, NH	1,161	--	08-06-91 08-07-91	1,890 2,770
Androscoggin River	Kennebec River	Lat 44°36'40", long 71°12'50", Coos County, NH, 3.0 mi upstream of highway bridge at Milan, NH	1,212	1987-89	08-06-91 08-07-91	1,910 2,840
PRESUMPSHOT RIVER BASIN						
Songo River	Sebago Lake	Lat 43°55'55", long 70°32'30", Cumberland County, at bridge 250 ft upstream from Songo Lock, near Naples, ME	about 121	--	04-25-91	51.5
Crooked River 01063100	Sebago Lake	Lat 43°58'44", long 70°33'50", Cumberland County, at bridge on State Highway 11, near Naples, ME	150	many	04-25-91 06-13-91 06-13-91	954 85.6 88.7

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS
WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)
ST. JOHN RIVER BASIN											
01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME (LAT 46 42 00N LONG 069 42 59W)											
JAN 1991 22...	1545	1030	0.0	-8.0	67	JUN 12...	1345	390	25.0	27.0	53
01010070 BIG BLACK RIVER NEAR DEPOT MTN, ME (LAT 46 53 38N LONG 069 45 08W)											
JAN 1991 23...	1415	205	0.0	-10.0	88	JUN 13...	0845	63	16.0	16.0	92
MAR 06...	1450	239	0.5	10.0	70	AUG 19...	1240	31	20.0	3.0	87
01010500 ST. JOHN RIVER AT DICKEY, ME (LAT 47 06 44N LONG 069 05 25W)											
NOV 1990 06...	0830	5970	3.0	0.0	45	JUN 10...	1918	1240	--	--	59
JAN 1991 15...	1300	1950	0.0	-5.0	32	JUN 11...	1400	1140	23.0	29.0	59
MAR 19...	1216	1650	0.0	1.0	63	SEP 25...	0805	562	18.0	23.0	71
MAY 29...	1430	7150	14.0	20.0	49	SEP 05...	1356	1230	19.0	26.0	60
01011000 ALLAGASH RIVER NEAR ALLAGASH, ME (LAT 47 04 14N LONG 069 04 51W)											
NOV 1990 05...	1440	4150	6.0	2.0	40	MAY 29...	1710	2330	17.0	21.0	45
JAN 1991 15...	1559	1600	0.0	-8.0	21	JUN 25...	1130	510	22.0	25.0	53
MAR 19...	1448	855	0.0	2.0	57	SEP 05...	1550	582	20.0	26.0	53
01013500 FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14N LONG 068 34 56W)											
FEB 1991 20...	1601	564	0.0	5.0	78	MAY 28...	1500	2570	12.0	26.0	56
MAR 19...	0720	618	0.0	- 5.0	71	JUN 24...	1920	566	--	--	60
APR 10...	1705	4980	2.0	1.0	60	SEP 04...	1950	979	17.0	16.0	58
01014000 ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27N LONG 068 35 35W)											
FEB 1991 20...	1546	2800	0.0	5.0	104	MAY 28...	1335	10400	13.0	26.0	58
MAR 18...	1650	3620	0.0	9.0	96	JUN 25...	1820	2020	19.0	22.0	64
APR 25...	1900	71800	2.5	10.0	42						
01015800 AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21N LONG 068 22 23W)											
JAN 1991 14...	1255	814	0.0	-10.0	22	APR 24...	1215	13400	6.0	15.0	28
MAR 18...	1210	518	0.0	5.0	64	JUN 24...	1249	163	24.0	27.0	65
01017000 AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36N LONG 068 09 29W)											
JAN 1991 14...	1530	1620	0.0	-7.0	39	JUN 24...	1555	309	26.0	30.0	90
MAR 20...	1010	1670	0.0	0.0	207	SEP 04...	1300	653	18.0	23.0	65
APR 24...	1750	23700	10.0	16.0	184						

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE US/CM)
ST. CROIX RIVER BASIN											
01018500 ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08N LONG 067 25 47W)											
FEB 1991						AUG					
26...	1709	1250	0.0	0.0	34	30...	1350	695	23.0	33.0	33
JUN											
03...	1500	216	18.0	22.0	26						
01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23N LONG 067 46 06W)											
NOV 1990						JUN					
07...	1600	133	8.0	3.0	26	18...	1500	283	22.0	26.0	25
MAY 1991						AUG					
02...	1000	239	7.0	13.0	24	30...	0810	760	22.0	24.0	27
DENNYS RIVER BASIN											
01021200 DENNYS RIVER AT DENNYSVILLE, ME (LAT 44 54 03N LONG 067 14 56W)											
NOV 1990						JUN					
08...	0900	363	6.0	2.0	32	19...	1100	112	20.0	23.0	34
FEB 1991						JUL					
27...	0900	166	0.0	2.0	42	30...	1700	72	24.0	25.0	47
MAY						AUG					
01...	1700	231	11.0	11.0	31	29...	1100	128	20.0	24.0	38
PLEASANT RIVER BASIN											
01022260 PLEASANT RIVER NEAR EPPING, ME (SW SITE 13) (LAT 44 41 52N LONG 067 47 16W)											
FEB 1991						JUL					
27...	1200	90	0.0	20.0	27	30...	1415	34	23.0	30.0	27
JUN											
19...	1730	67	20.0	20.0	25						
NARRAGUAGUS RIVER BASIN											
01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME (LAT 44 36 29N LONG 067 56 10W)											
FEB 1991						JUN					
27...	1500	240	0.0	6.0	32	20...	1057	176	22.0	25.0	42
MAY						AUG					
01...	1300	580	12.0	9.0	24	28...	1725	170	22.0	25.0	41
PENOBSCOT RIVER BASIN											
01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18N LONG 068 18 07W)											
OCT 1990						MAY					
18...	0915	5110	11.5	14.0	50	10...	0955	5450	10.5	19.0	36
NOV						JUL					
06...	1025	3140	5.5	0.5	42	10...	1020	147	19.0	22.0	55
FEB 1991						SEP					
26...	1330	776	0.0	0.0	68	10...	1210	393	17.5	18.0	50

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS-Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)
PENOBSCOT RIVER BASIN-Continued											
01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31N LONG 069 18 55W)											
JAN 1991						APR					
14...	1015	297	0.0	-7.0	45	10...	1305	6680	2.0	3.5	74
29...	0940	193	0.0	-2.0	47	JUL					
FEB						11...	1210	65	20.0	22.0	51
27...	1400	185	0.0	1.0	50						
01033000 SEBEC RIVER AT SEBEC, ME (LAT 45 16 12N LONG 069 06 44W)											
NOV 1990						JUL					
07...	0950	1240	7.0	5.0	24	11...	1010	58	20.0	22.0	24
APR 1991						SEP					
10...	1230	4740	2.0	4.0	23	09...	1055	162	20.0	17.0	24
01034000 PISCATAQUIS RIVER AT MEDFORD, ME (LAT 45 15 40N LONG 068 52 07W)											
FEB 1991						JUL					
27...	1145	1090	0.0	1.0	41	11...	0750	303	18.0	16.5	38
MAY 1991											
16...	1050	1300	18.0	19.0	28						
01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME (LAT 45 14 12N LONG 068 38 56W)											
FEB 1991						JUL					
26...	1045	6950	0.0	-3.0	50	10...	1430	4150	21.0	24.0	48
SHEEPSHOT RIVER BASIN											
01038000 SHEEPSHOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23N LONG 069 35 38W)											
NOV 1990						JUL					
30...	0950	298	4.0	2.0	43	15...	1510	31	24.5	29.0	58
MAR 1991						AUG					
14...	1500	487	2.5	5.5	40	09...	0915	11	22.0	22.0	88
MAY											
22...	0935	195	18.0	22.5	40						
KENNEBEC RIVER BASIN											
01042500 KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25N LONG 069 57 48W)											
OCT 1990						JUN					
04...	0930	413	11.5	11.0	36	27...	0930	278	21.5	28.0	32
APR 1991											
26...	1045	13100	4.0	18.0	29						
01046500 KENNEBEC RIVER AT BINGHAM, ME (LAT 45 03 06N LONG 069 53 12 W)											
OCT 1990						JUN					
02...	1545	5850	17.0	14.0	35	27...	0715	724	17.5	22.0	31
MAY 1991											
10...	1545	8470	8.5	20.5	31						
01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09N LONG 069 57 20W)											
OCT 1990						MAY					
04...	1300	299	12.0	16.0	46	08...	1415	1600	10.5	12.0	26
JAN 1991						JUL					
17...	1345	455	0.0	6.5	38	03...	0830	101	19.0	19.0	46
MAR											
13...	1530	442	0.5	3.5	43						

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)
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KENNEBEC RIVER BASIN-Continued

01048000 SANDY RIVER NEAR MERCER, ME (LAT 44 42 26N LONG 069 56 21W)											
OCT 1990						MAY					
04...	1600	340	13.0	16.5	58	10...	0730	1510	11.0	11.0	41
JAN 1991						JUL					
29...	1200	492	0.0	1.5	58	03...	1600	155	25.0	31.0	62
01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00N LONG 069 24 56W)											
NOV 1990						MAY					
29...	1600	1050	3.0	8.0	62	21...	1030	1030	17.0	25.0	84
MAR 1991						JUL					
15...	1245	1350	2.0	6.5	80	15...	1000	71	24.0	26.0	82
01049130 JOHNSON BROOK AT SOUTH ALBION, ME (LAT 44 29 53N LONG 069 29 12W)											
NOV 1990						MAY					
29...	1130	4.7	7.0	11.0	108	21...	1415	2.0	21.0	29.0	105
MAR 1991						JUL					
12...	1215	7.6	2.5	6.0	75	17...	1040	0.0	21.0	24.0	198
01049373 MILL STREAM AT WINTHROP, ME (LAT 44 18 24N LONG 069 58 18W)											
JAN 1991						JUL					
23...	0836	62	2.5	-10.0	66	16...	1255	16	24.0	33.5	62
MAR											
13...	1120	79	4.5	16.0	67						
01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15N LONG 069 47 25W)											
DEC 1990						MAY					
11...	0945	666	1.0	-1.0	65	22...	1300	253	20.5	31.0	68
JAN 1991						JUL					
24...	1045	180	1.0	0.5	72	16...	0845	22	22.0	34.0	70
MAR											
14...	1050	320	3.0	1.0	76						
01049550 TOGUS STREAM AT TOGUS, ME (LAT 44 15 57N LONG 069 41 55W)											
JAN 1991						JUL					
23...	1345	37	2.0	-3.0	56	17...	0800	4.8	20.0	23.0	41
MAY											
20...	1300	29	16.5	25.5	47						

ANDROSCOGGIN RIVER BASIN

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40N LONG 071 03 25W)											
APR 1991						SEP					
25...	0925	1150	4.5	12.0	21	06...	0920	90	14.0	16.0	35
JUL											
15...	1105	67	19.0	20.0	35						
01053500 ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57N LONG 071 07 46W)											
NOV 1990						JUL					
09...	0825	4780	5.0	1.5	26	15...	0850	1370	20.0	20.0	26
MAY 1991											
14...	1135	1370	14.0	18.0	24						
01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME (LAT 44 32 33N LONG 070 32 50W)											
MAY 1991						JUL					
23...	1035	2570	21.0	17.0	72	12...	1050	1860	24.0	21.5	92

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE US/CM)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	SPECIFIC CON- DUCT- ANCE (US/CM)
ANDROSCOGGIN RIVER BASIN--Continued											
01055000 SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32N LONG 070 35 17W)											
JAN 1991						JUL					
07...	1400	154	0.0	-4.0	21	12...	0832	21	16.0	19.0	28
FEB						SEP					
28...	1300	70	0.0	0.5	26	05...	1200	52	15.5	17.0	25
MAY											
06...	1035	227	8.0	12.0	20						
01055500 NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10N LONG 070 13 49W)											
JAN 1991						JUN					
14...	1200	185	0.0	0.0	69	26...	1330	48	24.0	32.0	80
MAR						AUG					
11...	1215	519	0.5	4.0	42	29...	1230	107	22.0	24.0	62
MAY											
08...	0945	1130	11.0	10.0	37						
01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08N LONG 070 32 16W)											
NOV 1990						MAY					
07...	1245	267	5.5	5.0	38	08...	1230	419	10.0	15.0	34
JAN 1991						JUN					
15...	1000	67	0.0	-0.5	49	26...	1130	10	20.0	26.0	75
31...	1015	50	0.0	-3.0	52	JUL					
MAR						29...	1125	4.52	1.0	22.5	80
01...	1030	37	0.0	1.0	57						
01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20N LONG 070 12 31W)											
MAY 1991											
13...	1000	8660	16.0	22.0	57						
ROYAL RIVER BASIN											
01060000 ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57N LONG 070 10 45W)											
MAY 1991						AUG					
09...	0945	706	12.0	16.0	55	20...	0840	7650	17.5	17.0	36
JUN											
19...	1415	83	19.0	18.0	116						
SACO RIVER BASIN											
01064500 SACO RIVER NEAR CONWAY, NH (LAT 43 59 27N LONG 071 05 29W)											
OCT 1990						MAR					
12...	1215	606	12.5	17.0	40	01...	1300	318	0.5	5.0	50
JAN 1991						MAY					
31...	1315	398	0.0	-1.0	48	10...	1200	1450	10.0	18.0	35
01065500 OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26N LONG 070 47 55W)											
JAN 1991						MAY					
16...	1000	825	0.0	3.5	36	10...	1500	1760	14.0	29.0	33
MAR						JUN					
12...	1300	1460	3.0	4.0	37	18...	1410	280	--	--	41
PISCATAQUA RIVER BASIN											
01072100 SALMON FALLS RIVER AT MILTON, NH (LAT 43 24 50N LONG 070 59 15W)											
DEC 1990						APR 1991					
07...	0850	584	2.0	--	60	18...	0900	191	5.5	--	58
JAN 1991						MAY					
17...	0910	219	2.0	--	42	30...	1200	91	23.0	--	57
MAR						JUL					
07...	0835	375	2.5	--	62	23...	0755	26	26.0	--	64

AROOSTOOK COUNTY

464807068284401. Local number, ARW 1A.

LOCATION.--Lat 46X48'07", long 68X28'44", Hydrologic Unit 01010003, on State Highway 11, about 3.1 mi north of the village of Portage Lake. Owner: William Condon

AQUIFER.--Bedrock of Ordovician age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 81 ft, open hole. There is a 1.5 in. pipe in the center, depth 24 ft.

INSTRUMENTATION.--Measurement with chalked tape by local observer twice a month.

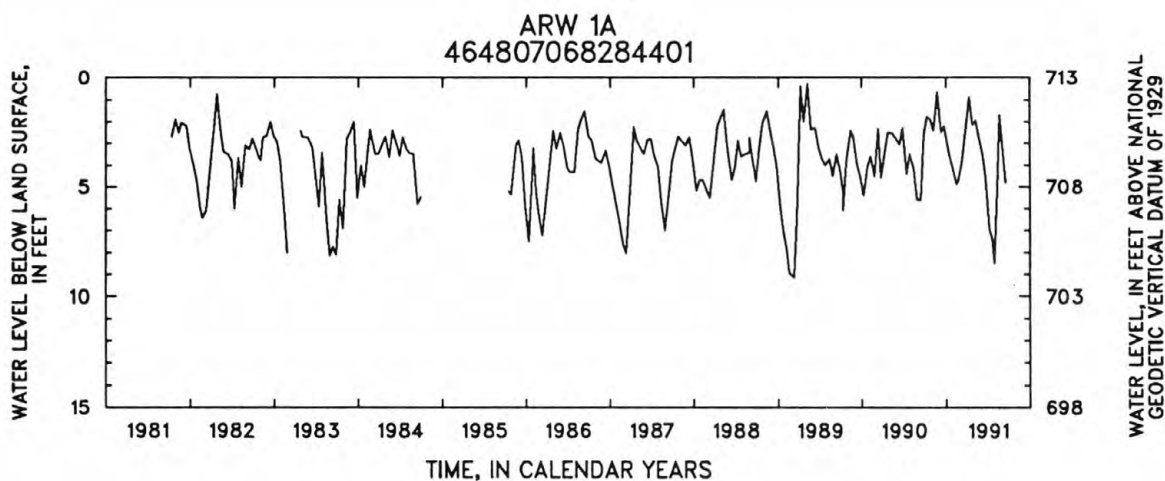
DATUM.--Elevation of land-surface datum is 713 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of 1.5 in. pipe coupling, at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, overflowed, Jan. 27, 1976, Mar. 14, 1977, Apr. 27, 1978, Apr. 13, 1984, Mar. 13, 1985, and Mar. 25, 1987; lowest measured, 10.10 ft below land-surface datum, Jan. 13, 1976, and Feb. 25, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	1.77	DEC 12	2.48	FEB 15	4.90	APR 12	.90	JUN 10	3.60	JUL 31	8.50
26	1.90	24	2.20	24	4.70	25	2.15	21	4.60	AUG 22	1.70
NOV 09	2.43	JAN 10	3.25	MAR 12	3.75	MAY 10	1.95	JUL 09	6.93	SEP 16	4.80
26	.68	22	3.79	21	Z	21	2.60	19	7.35		
WTR YR 1991 HIGH .68 NOV 26, 1990 LOW 8.50 JUL 31											
Z=Well Frozen											



GROUND-WATER LEVELS
AROOSTOOK COUNTY--Continued

471457068353001. Local number, ARW 890.

LOCATION.--Lat 47X14'57", long 68X35'30", Hydrologic Unit 01010003, 0.25 mi southeast of the intersection of State Highways 11 and 161 and U.S. Highway 1, Fort Kent. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., Nov. 1976 constructed depth 50 ft, open end, Nov. 1982 measured depth 48 ft.

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

DATUM.--Elevation of land-surface datum is 530 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of recorder shelter at land-surface datum, which is 3.0 ft above the general land surface.

REMARKS.--Record lost between Oct. 26 and Nov. 5, Feb. 11 and Mar. 17, and between Mar. 29 and Apr. 23 because of recorder malfunction.

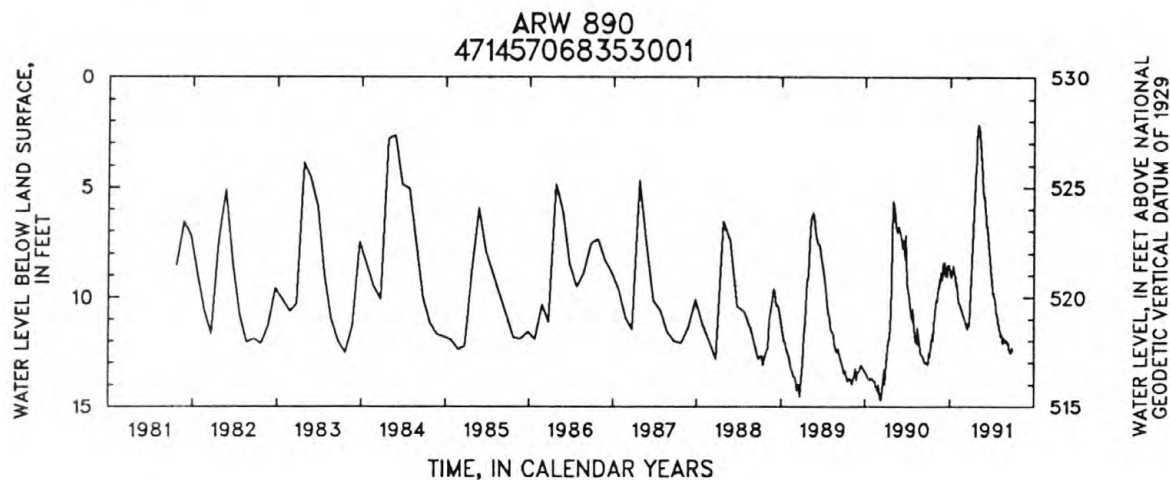
PERIOD OF RECORD.--Nov. 1976 to current year.

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

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

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.92	---	9.04	8.79	9.48	---	---	2.37	5.58	9.07	11.25	12.02
2	12.77	---	8.95	8.71	9.63	---	---	2.29	5.76	9.19	11.31	11.99
3	12.63	---	8.92	8.80	9.67	---	---	2.16	5.86	9.41	11.43	11.96
4	12.58	---	8.54	8.81	9.72	---	---	2.15	6.03	9.58	11.52	11.96
5	12.54	---	8.43	8.93	9.81	---	---	2.24	6.17	9.70	11.46	11.97
6	12.75	10.04	8.53	9.00	10.03	---	---	2.33	6.27	9.80	11.51	12.08
7	12.73	10.07	8.64	9.03	10.06	---	---	2.31	6.44	9.79	11.58	12.14
8	12.64	10.10	8.63	9.07	10.05	---	---	2.32	6.61	9.77	11.65	12.15
9	12.52	10.19	8.49	8.99	10.24	---	---	2.35	6.79	9.77	11.76	12.14
10	12.45	10.08	8.42	8.96	10.19	---	---	2.51	6.70	9.77	11.80	12.13
11	12.30	9.72	8.64	9.03	---	---	---	2.74	6.71	9.79	11.65	12.07
12	12.26	9.66	8.82	8.83	---	---	---	2.76	6.84	9.90	11.67	12.10
13	12.23	9.64	8.64	8.74	---	---	---	2.94	6.94	10.04	11.73	12.18
14	12.10	9.69	8.73	8.77	---	---	---	3.11	7.01	10.08	11.75	12.35
15	11.99	9.54	8.90	8.78	---	---	---	3.32	7.18	10.14	11.82	12.45
16	11.95	9.46	8.87	8.75	---	---	---	3.50	7.33	10.23	11.89	12.41
17	11.94	9.39	8.78	8.56	---	---	---	3.62	7.41	10.27	12.03	12.40
18	11.77	9.52	8.76	8.72	---	11.44	---	3.81	7.51	10.33	12.11	12.46
19	11.63	9.35	8.77	8.87	---	11.23	---	4.09	7.63	10.45	12.09	12.50
20	11.88	9.17	9.06	8.82	---	11.17	---	4.16	7.75	10.67	11.99	12.46
21	11.98	9.31	9.04	8.83	---	11.19	---	4.28	7.83	10.73	11.97	12.52
22	11.75	9.19	8.92	8.82	---	11.29	---	4.50	8.01	10.74	11.86	12.54
23	11.70	8.95	8.66	8.89	---	11.33	---	4.78	8.16	10.79	11.90	12.46
24	11.53	8.85	8.51	9.04	---	11.22	4.04	4.86	8.29	10.77	11.99	12.42
25	11.28	8.95	8.62	9.07	---	11.17	3.83	5.09	8.42	10.89	12.01	12.37
26	---	9.03	8.55	9.09	---	11.19	3.34	5.45	8.53	10.99	11.92	12.31
27	---	9.14	8.63	9.06	---	11.26	3.03	5.35	8.69	11.03	11.94	12.29
28	---	8.84	8.65	9.20	---	11.25	2.80	5.28	8.81	11.10	11.96	12.40
29	---	9.01	8.58	9.44	---	---	2.58	5.34	8.91	11.15	11.98	12.44
30	---	9.19	8.54	9.28	---	---	2.50	5.44	9.04	11.18	12.05	12.41
31	---	---	8.65	9.38	---	---	---	5.51	---	11.23	12.02	---
HIGH	---	---	8.42	8.56	---	---	---	2.15	5.58	9.07	11.25	11.96
LOW	---	---	9.06	9.44	---	---	---	5.51	9.04	11.23	12.11	12.54
WTR 1991	HIGH 2.15		LOW 12.92									



GROUND-WATER LEVELS
AROOSTOOK COUNTY--Continued

147

463642069344601. Local number, ARW 891.

LOCATION.--Lat 46X36'42", long 69X34'46", Hydrologic Unit 01010002, about 2.7 mi west of the village of Clayton Lake, T 11, R 14. Owner: International Paper Co.

AQUIFER.--Seboomook Formation of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 80 ft, open hole.

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

DATUM.--Elevation of land-surface datum is 1,050 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Electric tape gage index, at land-surface datum, which is 2.8 ft above the general land surface.

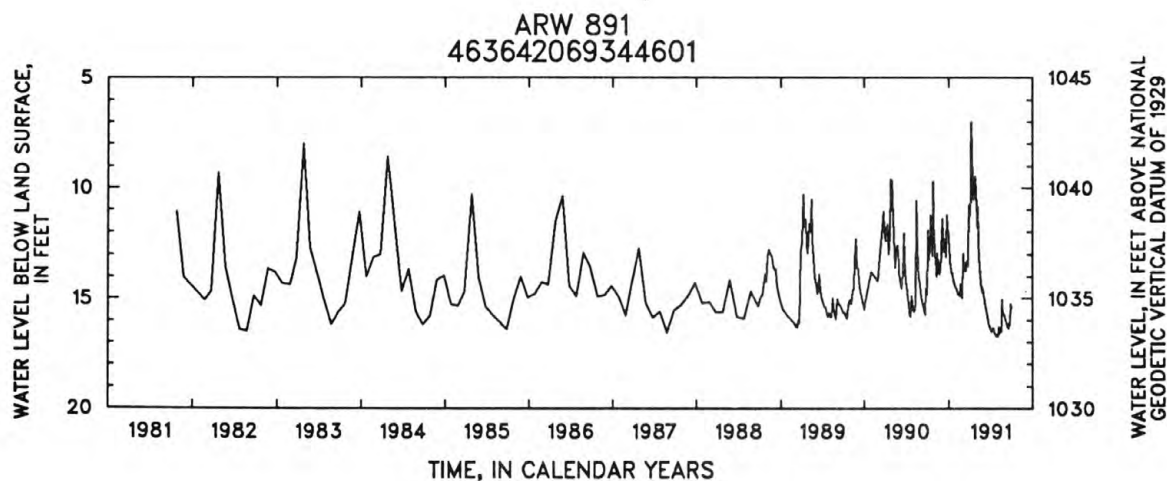
PERIOD OF RECORD.--July 1978 to current year.

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

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

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.56	12.70	12.73	12.04	14.52	15.00	10.79	10.50	14.70	16.37	16.72	15.80
2	11.91	12.92	13.02	12.15	14.52	14.92	10.94	10.63	14.75	16.43	16.73	15.84
3	12.44	13.09	13.19	12.41	14.52	14.36	11.14	10.93	14.84	16.47	16.69	15.88
4	12.74	13.21	12.23	12.60	14.60	13.75	11.25	11.19	14.94	16.49	16.68	15.93
5	12.83	13.37	11.38	12.77	14.63	13.27	11.15	11.45	15.00	16.52	16.55	16.00
6	12.82	13.44	11.45	12.85	14.60	13.04	10.21	11.79	15.08	16.51	16.32	16.05
7	13.06	13.55	11.62	13.07	14.59	12.94	9.14	11.21	15.14	16.51	16.40	16.07
8	13.20	13.71	12.00	13.31	14.65	13.15	8.32	10.86	15.20	16.47	16.54	16.13
9	13.24	13.90	12.28	13.40	14.70	13.26	7.48	11.30	15.28	16.38	16.61	16.16
10	12.61	14.00	12.52	13.40	14.77	13.40	7.01	11.80	15.32	16.39	16.58	16.16
11	12.28	13.49	12.87	13.59	14.82	13.48	7.39	12.21	15.40	16.47	16.42	16.19
12	12.29	13.88	12.60	13.63	14.71	13.50	8.06	12.56	15.48	16.48	16.34	16.24
13	11.74	13.29	12.38	13.68	14.80	13.56	8.73	12.91	15.51	16.48	16.38	16.28
14	11.24	12.92	12.66	13.80	14.81	13.64	9.35	13.21	15.57	16.36	16.43	16.32
15	11.24	13.31	12.32	13.81	14.84	13.67	9.69	13.45	15.60	16.39	16.47	16.33
16	11.67	13.58	12.34	13.84	14.76	13.72	9.95	13.64	15.62	16.46	16.51	16.33
17	12.06	13.78	12.70	13.84	14.73	13.73	10.24	13.75	15.71	16.51	16.53	16.35
18	12.31	13.23	12.80	13.82	14.85	13.69	10.52	13.72	15.77	16.56	16.52	16.39
19	12.36	13.29	12.84	13.98	14.89	13.59	10.28	13.84	15.82	16.58	16.50	16.31
20	12.41	13.41	13.09	14.00	14.83	13.43	10.03	14.04	15.89	16.62	15.52	16.13
21	12.57	13.55	13.12	14.09	14.49	13.30	10.11	14.21	15.96	16.65	15.06	16.13
22	12.80	13.70	12.95	14.18	14.34	13.37	10.00	14.35	16.04	16.66	15.34	16.19
23	13.08	13.79	12.44	14.24	14.43	13.45	9.54	14.43	16.12	16.64	15.47	16.19
24	11.77	13.82	11.28	14.17	14.57	13.44	9.51	14.47	16.18	16.67	15.60	16.24
25	9.71	13.76	11.22	14.20	14.62	13.51	9.45	14.60	16.22	16.69	15.66	16.08
26	10.38	13.87	11.27	14.31	14.71	13.52	9.44	14.74	16.27	16.69	15.70	15.34
27	10.92	13.64	11.71	14.30	14.80	13.44	9.52	14.70	16.33	16.66	15.73	15.25
28	11.40	13.63	12.01	14.34	14.92	12.80	9.77	14.46	16.34	16.70	15.76	15.37
29	11.77	13.11	12.03	14.42	---	11.11	10.07	14.46	16.28	16.74	15.77	15.44
30	12.01	12.41	11.92	14.45	---	10.84	10.33	14.61	16.32	16.72	15.76	15.35
31	12.32	---	11.97	14.41	---	10.78	---	14.64	---	16.73	15.76	---
HIGH	9.71	12.41	11.22	12.04	14.34	10.78	7.01	10.50	14.70	16.36	15.06	15.25
LOW	13.24	14.00	13.19	14.45	14.92	15.00	11.25	14.74	16.34	16.74	16.73	16.39
WTR YR 1991		HIGH 7.01		LOW 16.74								



GROUND-WATER LEVELS
AROOSTOOK COUNTY--Continued

464234068010401. Local number, ARW 895.

LOCATION.--Lat 46X42'34", long 68X01'04", Hydrologic Unit 01010004, about 2.0 mi north of City of Presque Isle.

Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., Oct. 1986. Measured depth 20 ft, screened depth 15 to 20 ft.

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

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

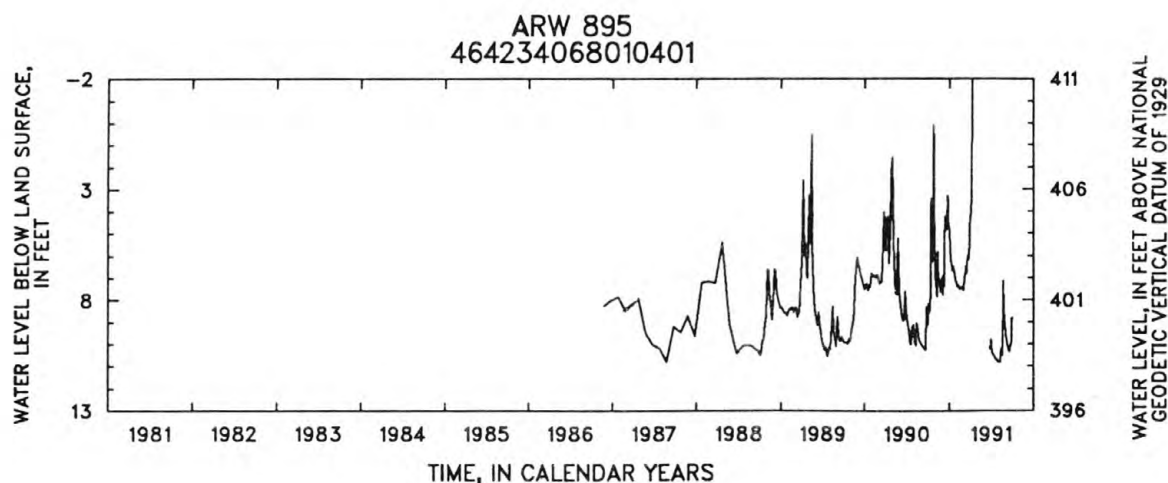
REMARKS.--Records lost between Apr. 11 and June 23 because of recorder malfunction.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.92 ft above land-surface datum, Apr. 10, 1991; lowest measured, 10.96 ft below land-surface datum, Sept. 08-09, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.06	6.08	6.99	4.87	7.18	7.54	4.36	---	---	9.81	10.79	9.42
2	8.48	6.53	7.11	5.01	7.20	7.56	4.23	---	---	9.92	10.80	9.52
3	8.16	6.99	7.33	5.16	7.25	7.54	4.13	---	---	10.21	10.80	9.63
4	8.16	7.24	7.56	5.47	7.41	7.54	4.06	---	---	10.33	10.80	9.73
5	8.29	7.32	7.75	5.70	7.38	7.42	3.90	---	---	10.38	10.80	9.79
6	8.36	7.40	7.16	5.83	7.33	7.30	3.40	---	---	10.41	10.81	9.88
7	8.41	7.43	6.87	6.07	7.33	7.18	2.62	---	---	10.43	10.81	9.95
8	8.48	7.54	6.95	6.14	7.32	7.06	1.54	---	---	10.44	10.81	10.00
9	8.56	7.70	7.16	6.23	7.33	6.96	.25	---	---	10.45	10.81	10.03
10	8.40	7.85	7.36	6.32	7.35	6.88	-1.92	---	---	10.47	10.80	10.08
11	8.05	7.22	7.33	6.40	7.36	6.83	---	---	---	10.49	10.66	10.12
12	7.81	5.80	5.18	6.44	7.40	6.65	---	---	---	10.53	10.44	10.15
13	7.30	5.87	4.51	6.53	7.50	6.52	---	---	---	10.55	10.24	10.19
14	5.86	6.11	4.23	6.64	7.46	6.48	---	---	---	10.55	10.20	10.26
15	3.74	6.44	4.60	6.61	7.50	6.48	---	---	---	10.55	10.24	10.30
16	3.42	6.95	4.82	6.59	7.45	6.48	---	---	---	10.57	10.32	10.31
17	4.07	7.15	4.87	6.48	7.47	6.66	---	---	---	10.60	10.41	10.33
18	4.88	7.06	4.57	6.52	7.48	6.77	---	---	---	10.62	10.48	10.35
19	5.40	7.06	4.44	6.48	7.48	6.59	---	---	---	10.64	10.53	10.36
20	5.25	7.09	4.55	6.50	7.47	6.30	---	---	---	10.66	10.04	10.25
21	5.41	7.17	4.80	6.74	7.45	6.15	---	---	---	10.66	7.82	10.09
22	5.88	7.32	4.73	6.74	7.44	6.01	---	---	---	10.67	7.15	10.04
23	6.25	7.53	4.32	6.66	7.43	5.94	---	---	---	10.69	7.51	10.03
24	5.36	7.62	3.53	6.79	7.42	6.01	---	---	10.15	10.69	8.05	10.03
25	.99	7.55	3.29	6.86	7.40	6.09	---	---	10.15	10.71	8.50	10.06
26	.10	7.45	3.37	6.93	7.43	6.11	---	---	10.17	10.73	8.84	9.85
27	.96	7.42	3.51	6.99	7.46	6.15	---	---	10.20	10.74	9.07	9.20
28	2.81	7.62	4.15	7.10	7.49	5.90	---	---	10.23	10.74	9.10	8.83
29	4.07	7.40	4.52	7.13	---	5.47	---	---	10.23	10.75	9.09	8.81
30	4.87	7.14	4.58	7.14	---	5.00	---	---	9.89	10.76	9.18	8.84
31	5.56	---	4.64	7.13	---	4.63	---	---	---	10.78	9.31	---
HIGH	.10	5.80	3.29	4.87	7.18	4.63	---	---	---	9.81	7.15	8.81
LOW	9.06	7.85	7.75	7.14	7.50	7.56	---	---	---	10.78	10.81	10.36
WTR YR 1991		HIGH	-1.92	LOW	10.81							



GROUND-WATER LEVELS
AROOSTOOK COUNTY--Continued

149

464259067572901. Local number, ARW 906.

LOCATION.--Lat 46X42'59", long 67X57'29", Hydrologic Unit 01010004, approximately 3.5 mi northeast of the City of Presque Isle. Owner: U.S. Geological Survey.

AQUIFER.--Till of Pleistocene age.

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

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

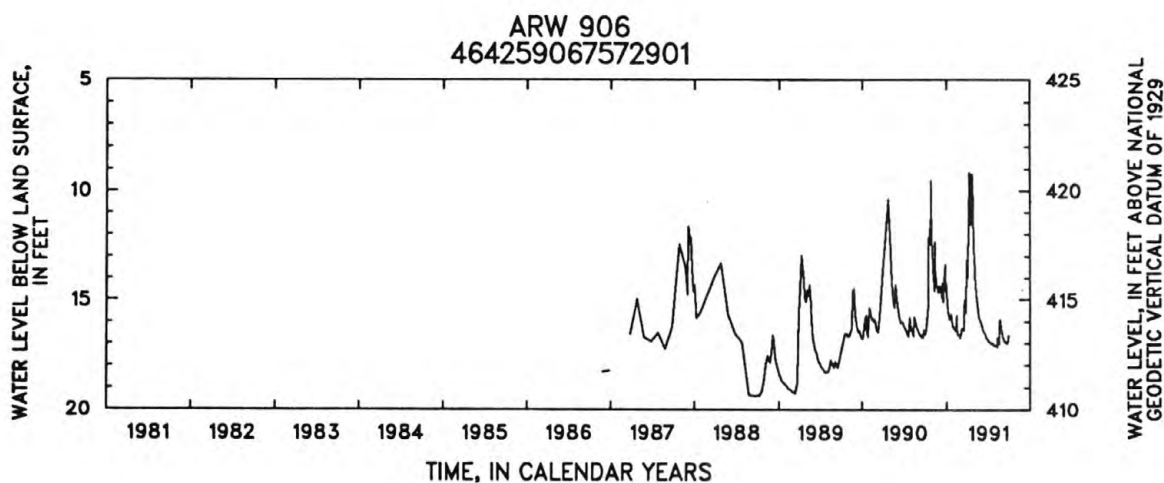
DATUM.--Elevation of land-surface datum is 431 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.88 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.16 ft below land-surface datum, Apr. 10, 1991; lowest measured, 19.38 ft below land-surface datum, Oct. 01-03, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.54	13.24	14.36	14.29	16.25	16.70	13.63	12.73	16.06	16.83	17.12	16.55
2	16.49	13.50	14.35	14.54	16.28	16.73	13.85	13.01	16.10	16.86	17.12	16.62
3	16.46	13.70	14.41	14.86	16.30	16.70	13.97	13.27	16.13	16.88	17.12	16.67
4	16.44	13.84	14.46	14.91	16.32	16.54	13.97	13.44	16.17	16.89	17.12	16.71
5	16.32	13.93	14.37	15.16	16.33	16.52	13.25	13.74	16.21	16.91	17.12	16.72
6	16.16	14.09	14.44	15.27	16.34	16.52	11.72	14.03	16.25	16.91	17.12	16.75
7	16.09	14.23	14.55	15.38	16.34	16.51	10.66	14.14	16.28	16.93	17.12	16.77
8	16.06	14.34	14.62	15.49	16.34	16.39	10.55	14.27	16.31	16.93	17.14	16.80
9	16.05	14.49	14.66	15.57	16.36	16.36	10.18	14.44	16.35	16.93	17.15	16.84
10	15.50	14.58	14.72	15.63	16.38	16.34	9.16	14.58	16.38	16.94	17.17	16.87
11	15.50	12.33	14.83	15.72	16.41	16.32	9.43	14.72	16.41	16.95	17.08	16.89
12	15.29	12.35	14.88	15.75	16.40	16.31	9.95	14.82	16.45	16.97	16.73	16.91
13	14.88	13.04	14.89	15.81	16.15	16.31	10.34	14.94	16.47	16.99	16.79	16.93
14	13.02	13.42	14.91	15.85	15.80	16.31	10.77	15.07	16.47	16.98	16.85	16.94
15	12.09	13.64	14.21	15.88	15.70	16.31	10.63	15.19	16.47	16.98	16.90	16.96
16	12.20	13.82	14.76	15.88	16.14	16.34	10.56	15.28	16.48	16.98	16.95	16.96
17	12.36	13.94	14.96	15.80	16.34	16.37	11.55	15.36	16.50	16.98	16.99	16.96
18	12.42	14.04	15.07	15.77	16.46	16.38	11.45	15.43	16.52	16.98	17.03	16.96
19	12.05	14.17	15.09	15.78	16.52	16.32	10.62	15.52	16.54	16.98	17.04	16.98
20	11.69	14.25	14.63	15.80	16.56	15.40	10.57	15.60	16.56	16.99	15.99	16.98
21	12.05	14.34	13.93	15.86	16.58	15.03	10.66	15.65	16.62	17.00	15.91	16.98
22	12.21	14.40	14.45	15.71	16.59	15.15	9.21	15.72	16.67	17.01	15.90	16.99
23	12.36	14.44	14.31	15.64	16.62	15.22	9.27	15.79	16.71	17.02	15.89	17.01
24	10.22	14.48	13.52	15.79	16.64	15.32	10.08	15.84	16.75	17.04	15.99	17.01
25	9.55	14.48	14.03	15.99	16.65	15.43	10.32	15.86	16.76	17.05	16.10	16.99
26	10.99	14.56	14.19	15.98	16.65	15.53	10.66	15.90	16.76	17.07	16.21	16.80
27	11.58	14.65	13.63	16.06	16.64	15.57	11.02	15.95	16.77	17.07	16.34	16.65
28	12.01	14.61	13.37	16.15	16.64	15.07	11.48	15.96	16.78	17.07	16.36	16.64
29	12.35	14.41	13.97	16.20	---	13.68	11.96	15.96	16.79	17.09	16.38	16.64
30	12.67	14.36	14.38	16.22	---	13.16	12.37	15.98	16.81	17.10	16.44	16.63
31	12.97	---	14.62	16.23	---	13.31	---	16.02	---	17.11	16.49	---
HIGH	9.55	12.33	13.37	14.29	15.70	13.16	9.16	12.73	16.06	16.83	15.89	16.55
LOW	16.54	14.65	15.09	16.23	16.65	16.73	13.97	16.02	16.81	17.11	17.17	17.01
WTR YR	1991	HIGH	9.16	LOW	17.17							



GROUND-WATER LEVELS
AROOSTOOK COUNTY--Continued

464303067592201. Local number, ARW 907.

LOCATION.--Lat 46X43'03", long 67X59'22", Hydrologic Unit 01010004, about 2.7 mi northeast of City of Presque Isle. Owner: U.S. Geological Survey.

AQUIFER.--Till of Pleistocene age.

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

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

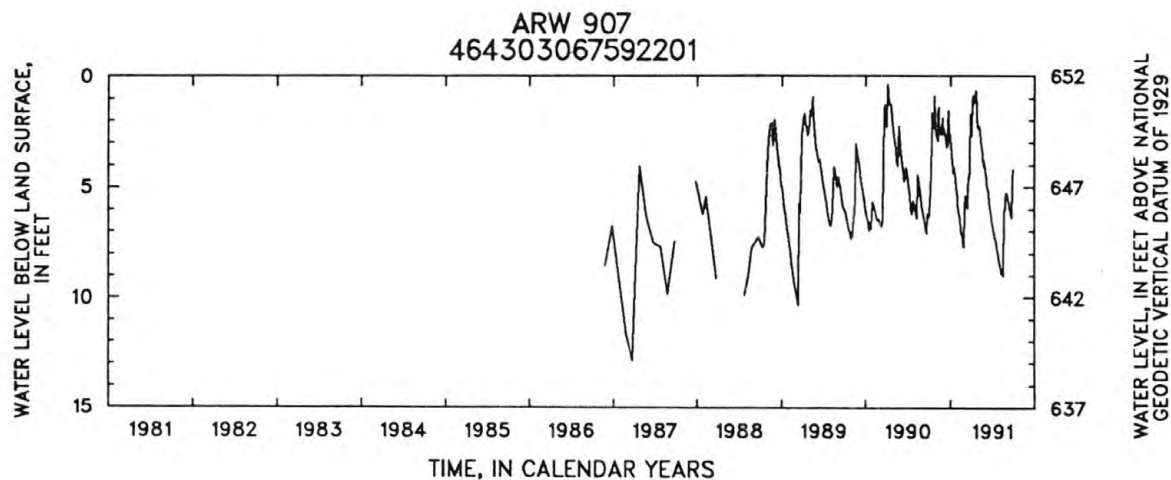
DATUM.--Elevation of land-surface datum is 652 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.77 ft above land-surface datum.

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

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

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.22	2.54	2.21	2.67	5.48	7.71	2.24	2.31	4.16	6.58	8.35	5.34
2	6.08	2.61	2.38	2.78	5.55	7.71	2.52	2.35	4.23	6.67	8.42	5.33
3	6.06	2.70	2.59	2.95	5.78	7.16	2.71	2.37	4.33	6.76	8.48	5.29
4	5.95	2.74	2.61	3.03	5.91	6.42	2.67	2.28	4.44	6.82	8.54	5.29
5	5.78	2.72	2.44	3.15	5.98	6.01	2.19	2.29	4.53	6.87	8.59	5.38
6	5.51	2.68	2.36	3.23	6.08	5.79	1.41	2.38	4.61	6.92	8.65	5.46
7	5.42	2.80	2.47	3.38	6.09	5.50	1.04	2.29	4.68	6.96	8.72	5.48
8	5.33	2.82	2.49	3.53	6.14	5.39	1.02	2.27	4.77	7.00	8.78	5.51
9	5.15	2.88	2.55	3.64	6.21	5.41	.92	2.35	4.92	7.07	8.83	5.61
10	4.29	2.91	2.59	3.74	6.29	5.42	.86	2.46	4.95	7.13	8.90	5.59
11	3.82	1.70	2.68	3.98	6.36	5.44	1.04	2.54	5.05	7.20	8.87	5.68
12	3.39	1.38	2.72	4.00	6.45	5.48	1.20	2.63	5.16	7.27	8.77	5.77
13	2.92	1.81	2.70	4.11	6.55	5.62	1.26	2.79	5.13	7.32	8.72	5.84
14	1.83	2.16	2.90	4.25	6.63	5.73	1.10	2.95	5.17	7.34	8.74	5.92
15	1.62	2.25	3.01	4.35	6.74	5.77	.93	3.07	5.25	7.37	8.81	5.99
16	1.94	2.35	3.07	4.39	6.91	5.81	.95	3.15	5.34	7.42	8.87	6.00
17	2.13	2.33	3.18	4.13	7.00	5.91	1.12	3.19	5.45	7.45	8.93	6.05
18	2.22	2.29	3.22	4.14	7.12	5.93	.97	3.25	5.56	7.51	8.99	6.18
19	1.94	2.31	3.10	4.25	7.14	5.78	.85	3.30	5.64	7.58	9.02	6.20
20	1.75	2.43	3.10	4.26	7.05	5.04	.87	3.39	5.71	7.63	7.95	6.23
21	1.96	2.58	3.11	4.38	7.13	4.64	.89	3.50	5.84	7.69	7.12	6.26
22	2.13	2.62	2.99	4.46	7.14	4.53	.64	3.70	5.94	7.77	6.34	6.33
23	2.32	2.62	2.31	4.47	7.26	4.60	.73	3.83	6.03	7.81	6.07	6.34
24	1.40	2.57	1.54	4.54	7.31	4.54	1.01	3.78	6.10	7.88	6.02	6.41
25	.91	2.32	1.84	4.61	7.36	4.40	1.28	3.93	6.15	7.96	5.96	6.16
26	1.21	2.43	2.06	4.74	7.46	4.43	1.53	4.11	6.22	8.02	5.90	5.16
27	1.60	2.51	2.28	4.91	7.55	4.43	1.79	4.11	6.29	8.07	5.77	4.57
28	1.90	2.37	2.42	5.00	7.68	3.48	2.02	3.81	6.34	8.12	5.45	4.46
29	2.05	1.90	2.54	5.11	---	1.90	2.16	3.88	6.43	8.19	5.35	4.43
30	2.18	2.02	2.60	5.16	---	1.71	2.27	4.00	6.50	8.25	5.29	4.21
31	2.35	---	2.59	5.25	---	1.98	---	4.09	---	8.31	5.28	---
HIGH	.91	1.38	1.54	2.67	5.48	1.71	.64	2.27	4.16	6.58	5.28	4.21
LOW	6.22	2.91	3.22	5.25	7.68	7.71	2.71	4.11	6.50	8.31	9.02	6.41
WTR YR 1991		HIGH	.64	LOW	9.02							



GROUND-WATER LEVELS
CUMBERLAND COUNTY

151

435453070013601. Local number, CW 26.

LOCATION.--Lat 43X54'53", long 70X01'36", Hydrologic Unit 01060001, 0.3 mi northwest of the intersection of Durham Road and U.S. Highway 1 in Brunswick. Owner: Brunswick and Topsham Water District.

AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in., reported depth 101 ft in 1953, screened 81 to 101 ft, Nov. 1982 measured depth 96 ft.

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

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

REMARKS.--Record lost between Oct. 20 and Nov. 02, doubtful gage-height record.

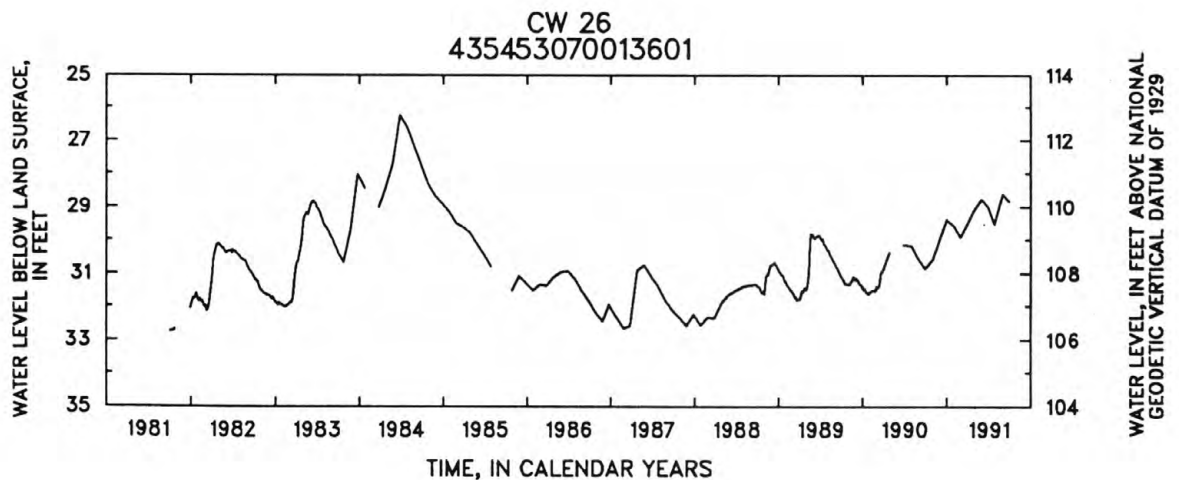
PERIOD OF RECORD.--Apr. 1958 to current year.

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

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

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	30.60	DEC 31	29.38	FEB 28	29.92	MAY 30	28.78	JUL 24	29.52	SEP 27	28.83
NOV 30	29.98	JAN 31	29.57	APR 29	29.08	JUN 27	28.98	AUG 29	28.62		
WTR YR 1991		HIGH	28.62	AUG 29	LOW	30.60	OCT 31				



GROUND-WATER LEVELS
CUMBERLAND COUNTY--Continued

435902070171301. Local number, CW 1382.

LOCATION.--Lat 43X59'02", long 70X17'13", Hydrologic Unit 01060001, about 1.6 mi north of New Gloucester.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till.

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

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

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

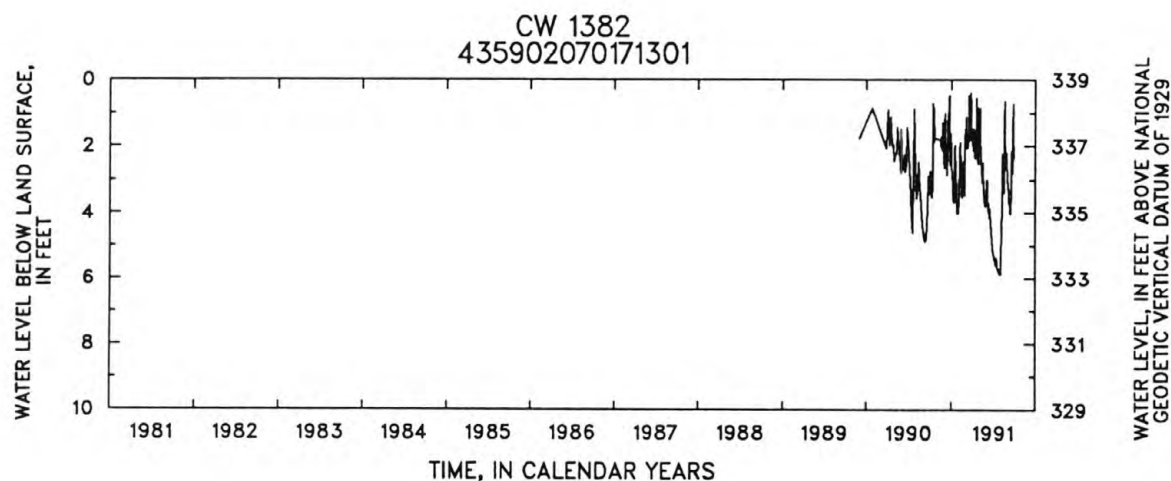
REMARKS.--Record lost between Oct. 24 and Nov. 13 because of recorder malfunction.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.41 ft below land-surface datum, Mar. 28, 1991; lowest measured, 5.89 ft below land-surface datum, Aug. 3, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.75	---	2.50	2.20	4.01	3.47	1.52	.85	3.31	5.12	5.83	2.84
2	2.83	---	2.57	2.52	3.87	2.62	1.74	1.22	3.31	5.18	5.86	2.96
3	2.96	---	2.65	2.66	3.83	1.78	1.95	1.59	3.52	5.25	5.89	3.04
4	2.98	---	1.28	2.77	3.79	1.47	1.97	2.00	3.37	5.30	5.86	3.14
5	3.08	---	1.00	2.91	3.44	1.84	1.99	2.23	3.00	5.34	5.54	3.24
6	3.17	---	1.63	2.96	3.08	1.83	2.04	2.00	3.05	5.38	5.11	3.34
7	3.30	---	1.93	3.04	2.82	1.12	2.06	.85	3.24	5.37	4.88	3.44
8	3.43	---	1.91	3.24	2.44	1.44	2.14	1.47	3.44	5.35	4.80	3.56
9	3.48	---	2.02	3.38	2.11	1.67	1.74	1.89	3.70	5.44	4.82	3.68
10	3.54	---	2.13	3.56	1.90	1.87	1.47	2.14	3.82	5.48	3.55	3.71
11	3.43	---	2.45	3.63	2.05	2.08	1.59	2.33	3.94	5.52	2.23	3.74
12	3.24	---	2.64	3.56	2.52	2.06	2.14	2.49	3.70	5.57	2.47	3.79
13	2.76	---	2.56	3.67	2.98	1.80	2.28	2.66	3.74	5.61	2.66	3.89
14	.71	1.80	2.82	3.68	3.11	1.65	2.36	2.83	3.91	5.58	2.88	3.99
15	1.26	1.80	2.86	3.69	3.25	1.90	2.28	2.93	4.07	5.45	3.03	4.04
16	1.67	1.85	2.03	3.52	3.41	2.03	1.56	3.02	4.15	5.37	3.11	3.67
17	1.85	1.98	1.70	2.11	3.43	1.99	1.80	3.09	4.00	5.40	3.25	3.50
18	1.89	2.03	1.41	1.98	3.54	1.68	2.00	2.51	3.88	5.51	3.39	3.66
19	.83	1.73	1.00	2.31	3.47	.48	2.18	2.72	3.93	5.61	1.91	3.42
20	1.28	1.73	1.52	2.36	3.39	.82	2.33	2.92	4.07	5.66	1.14	2.15
21	1.55	2.01	1.82	2.51	3.15	1.12	1.28	3.09	4.24	5.71	.65	2.50
22	1.67	2.12	.76	2.67	2.70	1.28	.56	3.29	4.38	5.74	1.32	2.73
23	1.77	2.02	.57	2.96	2.47	1.46	1.05	3.45	4.48	5.74	1.86	2.79
24	---	1.29	.49	3.22	2.63	1.62	1.41	3.47	4.59	5.77	2.21	2.81
25	---	1.53	1.31	3.45	2.89	1.80	1.80	3.62	4.66	5.79	2.43	1.50
26	---	1.96	1.89	3.62	3.07	1.18	2.03	3.77	4.76	5.83	2.54	.73
27	---	2.09	2.37	3.79	3.19	.48	2.23	3.70	4.87	5.84	2.70	1.35
28	---	2.07	2.57	3.92	3.45	.41	2.45	3.49	4.92	5.77	2.61	1.88
29	---	2.27	2.56	4.01	---	.74	2.54	3.59	5.01	5.73	2.20	2.16
30	---	2.44	2.04	3.95	---	1.03	2.27	3.70	5.07	5.74	2.47	2.37
31	---	---	1.61	3.97	---	1.40	---	3.80	---	5.79	2.59	---
HIGH	---	---	.49	1.98	1.90	.41	.56	.85	3.00	5.12	.65	.73
LOW	---	---	2.86	4.01	4.01	3.47	2.54	3.80	5.07	5.84	5.89	4.04
WTR YR 1991		HIGH	.41	LOW	5.89							



435653070201801. Local number, CW 1383.

LOCATION.--Lat 43X56'53", long 70X20'18", Hydrologic Unit 01060001, about 3.0 mi southwest of New Gloucester.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

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

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

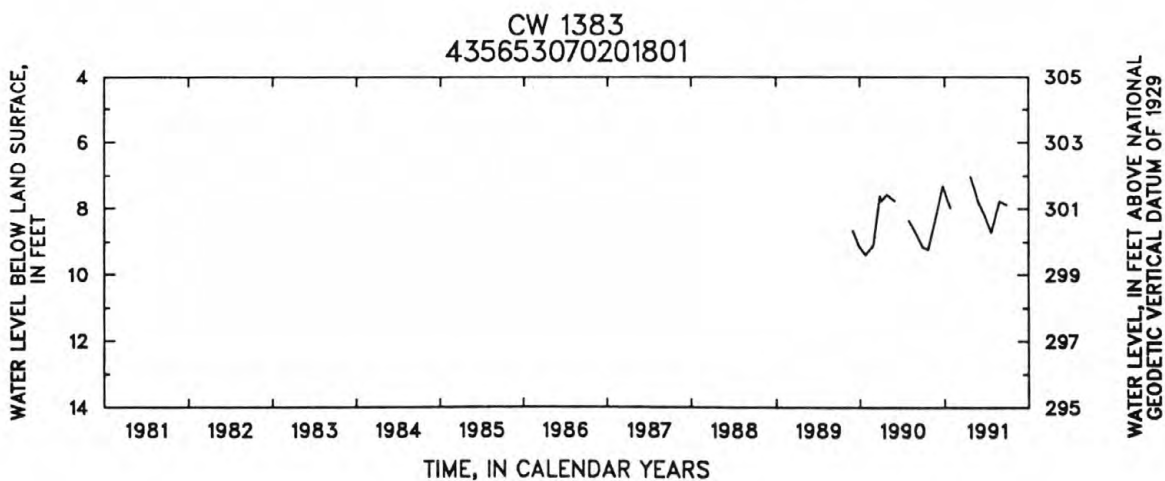
DATUM.--Elevation of land-surface datum is 309 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.93 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.03 ft below land-surface datum, Apr. 23, 1991; lowest measured, 9.40 ft below land-surface datum, Jan. 26, 1990.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	9.24	DEC 26	7.31	APR 23	7.03	JUN 27	8.25	AUG 27	7.76		
NOV 30	8.07	JAN 29	7.97	MAY 29	7.79	JUL 23	8.71	SEP 27	7.87		
WTR YR 1991		HIGH 7.03	APR 23	LOW 9.24	OCT 23						



GROUND-WATER LEVELS

FRANKLIN COUNTY

451128070280301. Local number, FW 893.

LOCATION.--Lat 45X11'28", long 70X28'03", Hydrologic Unit 01030002, approximately 150 ft northwest of the intersection of State Highway 27 and Eustis Hill Road, Eustis. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., Aug. 1985 measured depth 20 ft, screened depth 15 to 20 ft.

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

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

REMARKS.--Record lost between Oct. 1 and June 17 because recorder was vandalized and filed computer malfunctioned.

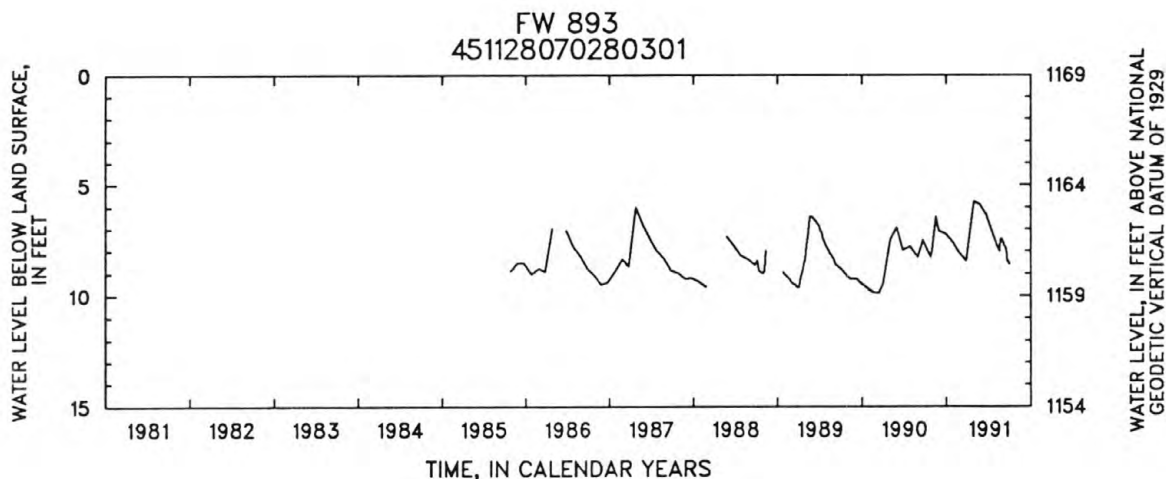
PERIOD OF RECORD.--Aug. 1985 to current year. Records prior to Oct. 1985 have not been published, but are available in the files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.75 ft below land-surface datum, Apr. 29, 1991; lowest measured, 9.99 ft below land-surface datum, Feb. 11, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	6.66	7.59	7.60
2	---	---	---	---	---	---	---	---	---	6.69	7.64	7.62
3	---	---	---	---	---	---	---	---	---	6.73	7.66	7.63
4	---	---	---	---	---	---	---	---	---	6.75	7.69	7.65
5	---	---	---	---	---	---	---	---	---	6.78	7.71	7.70
6	---	---	---	---	---	---	---	---	---	6.82	7.75	7.73
7	---	---	---	---	---	---	---	---	---	6.84	7.78	7.75
8	---	---	---	---	---	---	---	---	---	6.86	7.80	7.77
9	---	---	---	---	---	---	---	---	---	6.89	7.82	7.79
10	---	---	---	---	---	---	---	---	---	6.92	7.84	7.80
11	---	---	---	---	---	---	---	---	---	6.97	7.86	7.83
12	---	---	---	---	---	---	---	---	---	7.00	7.87	7.86
13	---	---	---	---	---	---	---	---	---	7.02	7.90	7.88
14	---	---	---	---	---	---	---	---	---	7.05	7.93	7.90
15	---	---	---	---	---	---	---	---	---	7.09	7.95	7.90
16	---	e6.44	---	---	---	---	---	---	---	7.12	7.97	7.92
17	---	---	---	---	---	---	---	---	---	7.14	7.99	8.22
18	---	---	---	---	---	---	---	---	6.33	7.17	8.01	8.42
19	---	---	---	---	---	---	---	---	6.31	7.22	8.01	8.42
20	---	---	---	---	---	---	---	---	6.31	7.25	7.76	8.44
21	---	---	---	---	---	---	---	---	6.35	7.28	7.59	8.45
22	---	---	---	---	---	---	---	---	6.39	7.31	7.53	8.47
23	---	---	---	---	---	---	---	---	6.45	7.33	7.50	8.48
24	e8.27	---	---	---	---	---	---	---	6.48	7.37	7.48	8.50
25	---	---	---	---	e8.07	---	---	e5.88	6.50	7.40	7.47	8.50
26	---	---	e7.22	---	---	---	---	---	6.52	7.43	7.46	8.50
27	---	---	---	---	---	---	---	---	6.56	7.46	7.47	8.55
28	---	---	---	---	---	e8.46	---	---	6.58	7.50	7.49	8.57
29	---	e7.11	---	e7.64	---	---	e5.75	---	6.61	7.53	7.51	8.57
30	e8.01	---	---	---	---	---	---	---	6.63	7.56	7.53	8.59
31	---	---	---	---	---	---	---	---	---	7.57	7.56	---
HIGH	---	---	---	---	---	---	---	---	---	6.66	7.46	7.60
LOW	---	---	---	---	---	---	---	---	---	7.57	8.01	8.59
WTR YR 1991	HIGH 5.75 LOW 8.59											

e Instantaneous water level



443831070002601. Local number, FW 901.

LOCATION.--Lat 44X38'31", long 70X00'26", Hydrologic Unit 01030003, about 0.5 mi northeast of New Sharon.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., Sept. 1987 measured depth 37 feet, screened 25 to 35 feet, screen slot size 0.006 in.

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

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

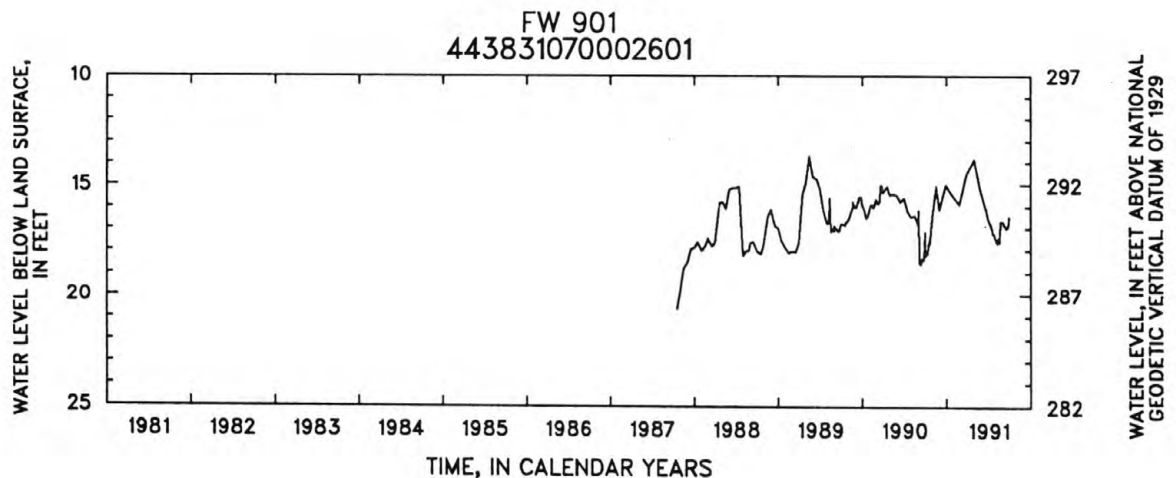
REMARKS.--Record lost between Oct. 26 and June 19 because field computer malfunctioned.

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

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

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.16	---	---	---	---	---	---	---	---	16.59	17.47	16.67
2	18.12	---	---	---	---	---	---	---	---	16.66	17.48	16.71
3	18.24	---	---	---	---	---	---	---	---	16.66	17.54	16.72
4	18.06	---	---	---	---	---	---	---	---	16.71	17.58	16.71
5	18.04	---	---	---	---	---	---	---	---	16.74	17.56	16.74
6	18.06	---	---	---	---	---	---	---	---	16.75	17.59	16.79
7	18.11	---	---	---	---	---	---	---	---	16.74	17.62	16.83
8	18.18	---	---	---	---	---	---	---	---	16.76	17.63	16.85
9	18.09	---	---	---	---	---	---	---	---	16.79	17.65	16.89
10	18.16	---	---	---	---	---	---	---	---	16.81	17.62	16.89
11	18.12	---	---	---	---	---	---	---	---	16.84	17.48	16.87
12	18.00	---	---	---	---	---	---	---	---	16.92	17.42	16.92
13	17.87	---	---	---	---	---	---	---	---	16.91	17.45	16.95
14	17.77	---	---	---	---	---	---	---	---	16.90	17.49	16.97
15	17.70	---	---	---	---	---	---	---	---	16.98	17.52	16.99
16	17.77	e15.05	---	---	---	---	---	---	---	17.04	17.54	16.95
17	17.71	---	---	---	---	---	---	---	---	17.08	17.58	16.91
18	17.54	---	---	---	---	---	---	---	---	17.10	17.61	16.93
19	17.42	---	---	---	---	---	---	---	---	17.15	17.57	16.94
20	17.67	---	---	---	---	---	---	---	16.09	17.22	17.17	16.91
21	17.56	---	---	---	---	---	---	---	16.10	17.25	16.85	16.91
22	17.41	---	---	---	---	---	---	---	16.20	17.27	16.70	16.93
23	17.43	---	---	---	---	---	---	---	16.25	17.25	16.65	16.93
24	17.19	---	---	---	---	---	---	---	16.27	17.23	16.66	16.93
25	17.09	---	---	---	e15.90	---	---	e15.17	16.32	17.27	16.68	16.88
26	---	---	e14.98	---	---	---	---	---	16.42	17.30	16.68	16.68
27	---	---	---	---	---	---	---	---	16.46	17.33	16.64	16.51
28	---	---	---	---	---	e14.48	---	---	16.49	17.36	16.65	16.45
29	---	e16.13	---	e15.54	---	---	e13.85	---	16.51	17.40	16.67	16.46
30	e16.48	---	---	---	---	---	---	---	16.56	17.43	16.68	16.47
31	---	---	---	---	---	---	---	---	---	17.45	16.64	---
HIGH	---	---	---	---	---	---	---	---	---	16.59	16.64	16.45
LOW	---	---	---	---	---	---	---	---	---	17.45	17.65	16.99
WTR YR 1991	HIGH 13.85		LOW 18.24									
e Instantaneous water level												



GROUND-WATER LEVELS

FRANKLIN COUNTY--Continued

450539070301301. Local number, FW 908.

LOCATION.--Lat 45X05'39", long 70X30'13", Hydrologic Unit 01030002, about 4.3 mi southwest of Stratton. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till.

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

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

DATUM.--Elevation of land-surface datum is 1,338 ft above National Geodetic Vertical Datum of 1929, from

topographic map. Measuring point: Top of casing, 3.20 ft above land-surface datum.

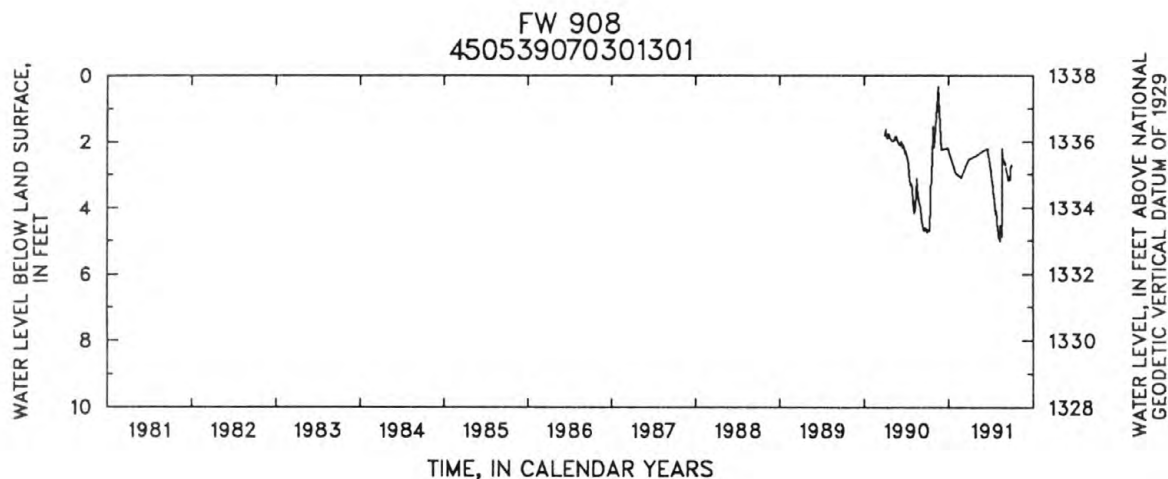
REMARKS.--Record lost between Oct. 25 and June 17 because field computer malfunctioned.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.34 ft below land-surface datum, Nov. 16, 1990; lowest measured, 5.02 ft below land-surface datum, Aug. 9, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.67	---	---	---	---	---	---	---	---	2.91	4.72	2.69
2	4.66	---	---	---	---	---	---	---	---	2.98	4.79	2.73
3	4.67	---	---	---	---	---	---	---	---	3.04	4.85	2.78
4	4.68	---	---	---	---	---	---	---	---	3.11	4.92	2.80
5	4.67	---	---	---	---	---	---	---	---	3.17	4.87	2.84
6	4.66	---	---	---	---	---	---	---	---	3.20	4.86	2.88
7	4.67	---	---	---	---	---	---	---	---	3.22	4.91	2.91
8	4.70	---	---	---	---	---	---	---	---	3.24	4.98	2.95
9	4.70	---	---	---	---	---	---	---	---	3.27	5.02	3.00
10	4.64	---	---	---	---	---	---	---	---	3.38	4.85	3.03
11	4.59	---	---	---	---	---	---	---	---	3.46	4.53	3.06
12	4.44	---	---	---	---	---	---	---	---	3.54	4.57	3.08
13	4.08	---	---	---	---	---	---	---	---	3.62	4.63	3.13
14	3.36	---	---	---	---	---	---	---	---	3.59	4.68	3.18
15	3.33	---	---	---	---	---	---	---	---	3.65	4.76	3.15
16	3.32	e.34	---	---	---	---	---	---	---	3.76	4.80	3.05
17	3.29	---	---	---	---	---	---	---	---	3.84	4.84	3.12
18	3.22	---	---	---	---	---	---	---	2.22	3.92	4.88	3.18
19	2.76	---	---	---	---	---	---	---	2.29	4.00	4.11	3.14
20	2.77	---	---	---	---	---	---	---	2.36	4.08	2.21	3.11
21	2.75	---	---	---	---	---	---	---	2.42	4.15	2.48	3.14
22	2.73	---	---	---	---	---	---	---	2.47	4.21	2.48	3.16
23	2.67	---	---	---	---	---	---	---	2.52	4.09	2.50	3.15
24	1.53	---	---	---	---	---	---	---	2.57	4.10	2.53	3.16
25	---	---	---	---	e3.10	---	---	e2.29	2.61	4.20	2.55	2.85
26	---	---	e2.19	---	---	---	---	---	2.65	4.27	2.58	2.70
27	---	---	---	---	---	---	---	---	2.71	4.35	2.59	2.74
28	---	---	---	---	---	e2.55	---	---	2.76	4.43	2.59	2.77
29	---	e2.25	---	e2.96	---	---	e2.44	---	2.78	4.51	2.64	2.75
30	e2.18	---	---	---	---	---	---	---	2.84	4.58	2.66	2.73
31	---	---	---	---	---	---	---	---	---	4.66	2.60	---
HIGH	---	---	---	---	---	---	---	---	---	2.91	2.21	2.69
LOW	---	---	---	---	---	---	---	---	---	4.66	5.02	3.18
WTR YR 1991	HIGH .34		LOW 5.02									
e Instantaneous water level												



GROUND-WATER LEVELS

157

HANCOCK COUNTY

444950068220601. Local number, HW 1.

LOCATION.--Lat 44X49'50", long 68X22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi west of the intersection with State Highway 181 in Amherst. Owner: Walter Jordan.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 18 in., depth 14 ft, cased with rock to 14 ft, open end.

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

DATUM.--Elevation of land-surface datum is 330 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top edge of hole in base of recorder shelter, 0.65 ft below land-surface datum. The measuring point is 1.4 ft above the general land surface.

REMARKS.--Record lost between Feb. 24 and Mar. 2 because well was frozen.

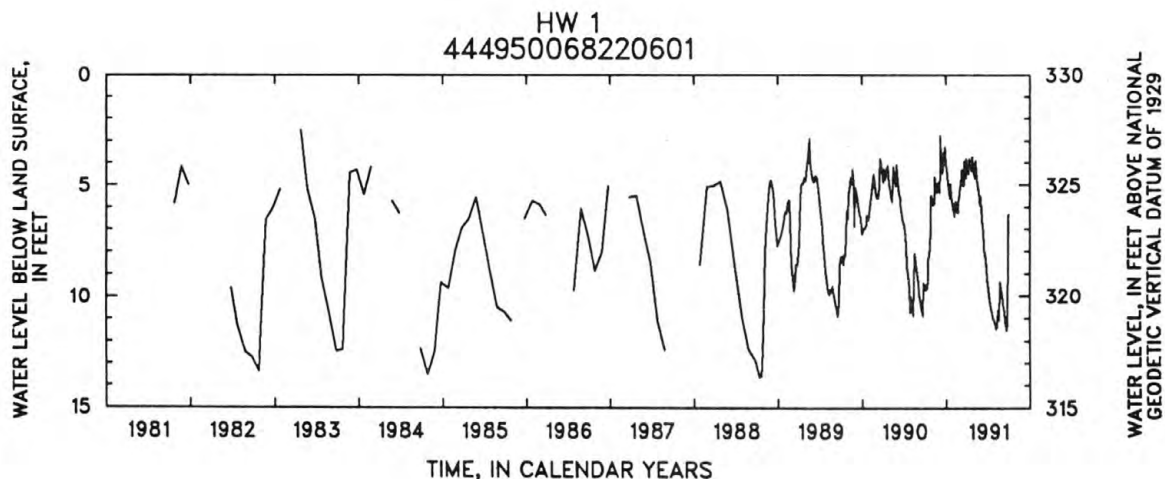
PERIOD OF RECORD.--Nov. 1943 to current year. Records for May 15-30, 1979; Apr. 26-30, 1981; and the monthly summary for January 1981 are unreliable and should not be used.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft below land-surface datum, May 29, 1961. Well goes dry frequently.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.66	5.71	5.09	4.18	6.28	---	4.26	4.53	5.98	9.61	11.28	10.02
2	9.63	5.76	5.17	4.24	6.31	---	4.32	4.58	6.09	9.70	11.32	10.10
3	9.70	5.80	5.33	4.36	6.34	5.10	4.42	4.60	6.22	9.79	11.38	10.15
4	9.72	5.82	4.23	4.48	6.41	4.92	4.47	4.62	6.37	9.87	11.45	10.20
5	9.63	5.93	2.78	4.59	6.28	4.78	4.47	4.70	6.52	9.95	11.48	10.30
6	9.51	5.89	3.20	4.67	6.13	4.90	4.49	4.70	6.66	10.03	11.35	10.40
7	9.48	5.77	3.49	4.81	5.96	4.45	4.43	3.90	6.79	10.11	11.28	10.50
8	9.54	5.75	3.63	4.96	5.90	4.31	4.11	4.10	6.93	10.17	11.28	10.59
9	9.58	5.83	3.74	5.01	5.80	4.33	4.16	4.25	7.10	10.26	11.33	10.70
10	9.64	5.83	3.85	5.08	5.73	4.33	3.97	4.33	7.24	10.32	11.40	10.77
11	9.59	4.64	4.06	5.23	5.81	4.33	3.82	4.43	7.37	10.38	11.04	10.85
12	9.50	4.71	4.19	5.21	5.86	4.34	3.99	4.50	7.56	10.46	10.72	10.95
13	9.38	4.83	4.21	5.30	5.86	4.68	4.06	4.64	7.75	10.53	10.65	11.04
14	8.79	4.99	4.41	5.44	5.86	4.96	4.12	4.78	7.93	10.59	10.76	11.14
15	8.37	5.04	4.47	5.56	5.96	4.96	4.16	4.92	8.08	10.61	10.80	11.23
16	8.29	5.08	4.35	5.61	6.22	5.04	4.20	5.01	8.20	10.65	10.86	11.31
17	8.28	5.17	4.16	4.96	6.23	5.05	4.21	5.08	8.22	10.70	10.94	11.39
18	8.24	5.29	4.09	4.96	6.23	4.95	4.25	5.13	8.07	10.75	11.00	11.48
19	8.12	5.30	3.55	5.15	6.24	4.13	4.30	5.16	8.10	10.80	11.07	11.54
20	8.02	5.33	3.86	5.21	6.28	3.94	4.38	5.21	8.19	10.86	10.62	11.53
21	7.94	5.34	3.98	5.37	5.99	4.07	4.37	5.28	8.33	10.92	10.07	11.34
22	7.87	5.35	3.82	5.50	5.78	4.08	3.77	5.41	8.51	10.97	9.55	11.30
23	7.89	5.31	3.73	5.60	5.62	4.09	3.73	5.57	8.67	11.03	9.39	11.31
24	6.86	5.10	3.28	5.64	---	4.13	3.85	5.66	8.82	11.02	9.45	11.35
25	5.51	4.89	3.28	5.77	---	4.45	3.94	5.76	8.95	11.03	9.56	10.90
26	5.49	4.93	3.43	5.82	---	4.68	4.03	5.93	9.07	11.07	9.62	7.99
27	5.63	4.95	3.66	5.91	---	4.45	4.11	5.89	9.20	11.10	9.68	6.40
28	5.70	4.92	3.79	5.98	---	3.82	4.24	5.48	9.31	11.12	9.75	6.35
29	5.66	4.94	3.85	6.09	---	3.92	4.34	5.59	9.44	11.15	9.80	6.34
30	5.61	5.02	3.92	6.10	---	4.06	4.45	5.76	9.53	11.19	9.84	6.32
31	5.64	---	4.03	6.08	---	4.21	---	5.88	---	11.23	9.90	---
HIGH	5.49	4.64	2.78	4.18	---	---	3.73	3.90	5.98	9.61	9.39	6.32
LOW	9.72	5.93	5.33	6.10	---	---	4.49	5.93	9.53	11.23	11.48	11.54
WTR YR 1991		HIGH	2.78	LOW	11.54							



GROUND-WATER LEVELS
HANCOCK COUNTY--Continued

444950068220602. Local number, HW 1A.

LOCATION.--Lat 44X49'55", long 68X21'59", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi west of the intersection with State Highway 181 in Amherst. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 47 ft, screened depth 37 ft to 47 ft, screen slot size 0.006 in.

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

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

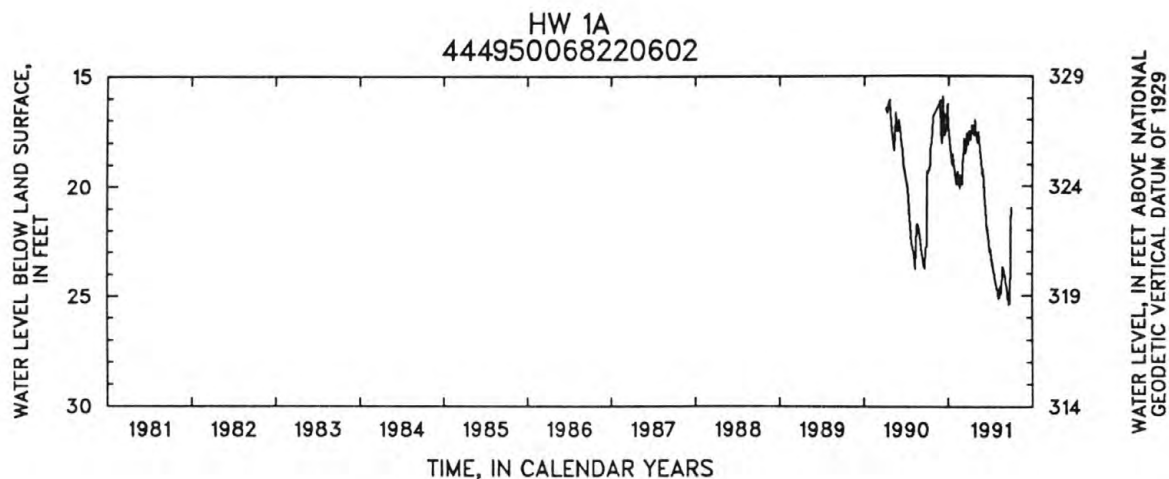
REMARKS.--Record lost between Oct. 25 and Nov. 20 because recorder malfunctioned.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.82 ft below land-surface datum, Apr. 17, 1990; lowest measured, 25.41 ft below land-surface datum, Sept. 19, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

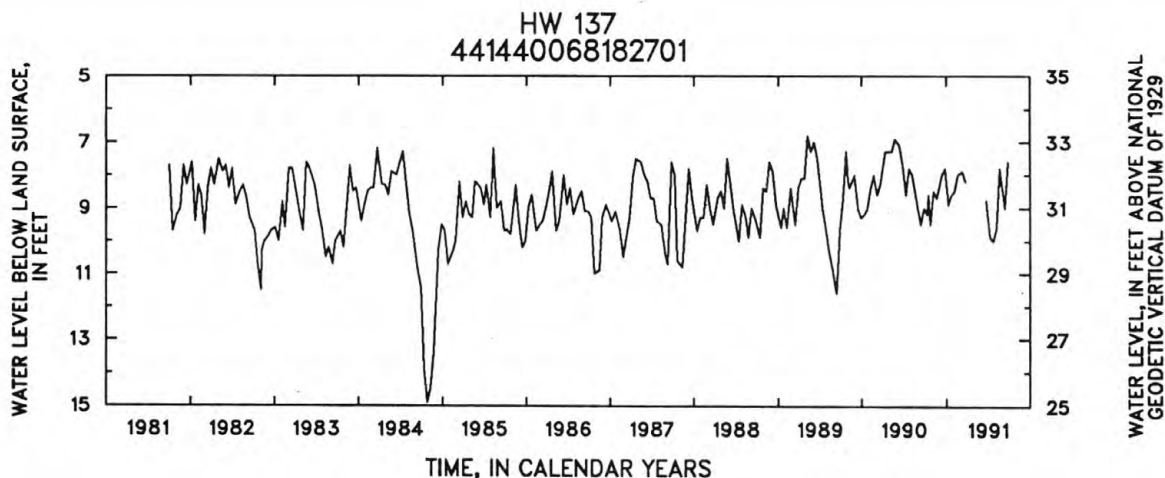
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.36	---	17.90	17.45	19.87	19.94	17.67	17.78	19.60	22.96	24.81	24.09
2	19.35	---	17.91	17.43	19.76	19.69	17.74	17.86	19.91	23.04	24.85	24.16
3	19.41	---	18.07	17.78	19.90	19.06	17.87	17.93	19.98	23.18	25.01	24.16
4	19.41	---	17.59	17.82	19.93	18.63	17.91	17.99	20.16	23.17	25.06	24.18
5	19.35	---	16.19	18.01	19.87	18.49	17.85	18.01	20.38	23.33	25.14	24.30
6	19.31	---	15.95	18.04	19.78	18.55	17.90	18.04	20.50	23.42	24.79	24.38
7	19.21	---	16.23	18.25	19.56	18.15	17.90	17.65	20.66	23.39	24.79	24.47
8	19.30	---	16.40	18.38	19.50	17.82	17.62	17.58	20.81	23.59	24.88	24.54
9	19.25	---	16.56	18.37	19.44	17.96	17.55	17.54	21.01	23.64	24.95	24.64
10	19.30	---	16.80	18.51	19.35	17.98	17.40	17.61	21.09	23.54	25.10	24.63
11	19.24	---	17.16	18.72	19.43	18.15	17.24	17.75	21.21	23.69	24.72	24.75
12	19.20	---	17.29	18.58	19.59	18.19	17.37	17.68	21.47	23.71	24.56	24.85
13	18.99	---	17.31	18.78	19.54	18.34	17.40	17.85	21.58	23.82	24.73	24.92
14	18.61	---	17.68	18.92	19.49	18.33	17.43	18.03	21.75	23.82	24.97	25.12
15	18.28	---	17.68	19.04	19.59	18.33	17.44	18.27	21.93	23.94	24.59	25.09
16	18.21	---	17.59	19.04	19.79	18.52	17.51	18.36	22.00	23.94	24.71	25.19
17	18.20	---	17.66	18.70	19.90	18.41	17.52	18.44	22.00	24.02	24.77	25.23
18	17.91	---	17.45	18.57	20.10	18.31	17.55	18.57	21.96	24.07	24.78	25.32
19	17.81	---	17.25	18.70	19.97	17.87	17.62	18.56	22.00	24.18	24.91	25.41
20	17.80	---	17.45	18.73	19.85	17.59	17.69	18.70	22.09	24.23	24.48	25.37
21	17.70	16.22	17.19	18.85	19.70	17.65	17.58	18.80	22.30	24.26	24.17	25.28
22	17.62	16.36	16.97	19.00	19.62	17.78	17.31	18.96	22.41	24.42	23.84	25.26
23	17.54	16.15	16.86	19.07	19.58	17.83	17.07	19.21	22.49	24.39	23.72	25.28
24	16.86	16.11	16.60	19.07	19.52	17.85	17.02	19.28	22.80	24.44	23.77	25.34
25	---	16.52	16.34	19.24	19.57	18.06	17.01	19.44	22.71	24.50	23.83	25.07
26	---	17.31	16.28	19.27	19.63	18.14	17.21	19.54	22.87	24.53	23.79	23.42
27	---	17.66	16.59	19.31	19.69	17.97	17.27	19.42	22.99	24.57	23.80	22.24
28	---	17.53	16.80	19.48	19.90	17.54	17.45	19.23	23.02	24.64	23.87	21.55
29	---	17.70	16.86	19.58	---	17.48	17.61	19.30	23.03	24.72	23.88	21.19
30	---	17.73	17.03	19.54	---	17.47	17.71	19.42	22.90	24.70	23.88	20.97
31	---	---	17.32	19.60	---	17.66	---	19.53	---	24.74	24.05	---
HIGH	---	---	15.95	17.43	19.35	17.47	17.01	17.54	19.60	22.96	23.72	20.97
LOW	---	---	18.07	19.60	20.10	19.94	17.91	19.54	23.03	24.74	25.14	25.41
WTR YR 1991		HIGH	15.95	LOW	25.41							



441440068182701. Local number, HW 137.
LOCATION.--Lat 44X14'40", long 68X18'27", Hydrologic Unit 01050002, Seawall Campground of Acadia National Park, 1.3 mi south of Southwest Harbor. Owner: National Park Service.
AQUIFER.--Bedrock of Devonian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 175 ft, open hole.
INSTRUMENTATION.--Measurement with plover by local observer twice a month.
DATUM.--Elevation of land-surface datum is 40 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.
PERIOD OF RECORD.--June 1981 to current year. Water levels prior to Oct. 1981 have not been published but are available in the files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.8 ft below land-surface datum, May 11, 1989; lowest measured, 14.9 ft below land-surface datum, Oct. 25, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	9.20	NOV 21	8.70	JAN 24	8.60	MAR 28	8.20	AUG 08	9.60		
17	8.62	DEC 13	8.00	FEB 07	8.50	JUN 25	8.76	22	7.80		
25	9.50	27	7.80	21	8.00	JUL 11	9.90	SEP 12	9.00		
NOV 08	8.50	JAN 10	8.90	MAR 14	7.90	25	10.00	26	7.60		
WTR YR 1991		HIGH	7.60	SEP 26		LOW	10.00	JUL 25			



GROUND-WATER LEVELS

KENNEBEC COUNTY

441849069442001. Local number, KW 52.

LOCATION.--Lat 44X18'49", long 69X44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi south of State Highway 105, in Augusta. Owner: Walter Panek.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 22 ft, cased with rock to 22 ft, open end.

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

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

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

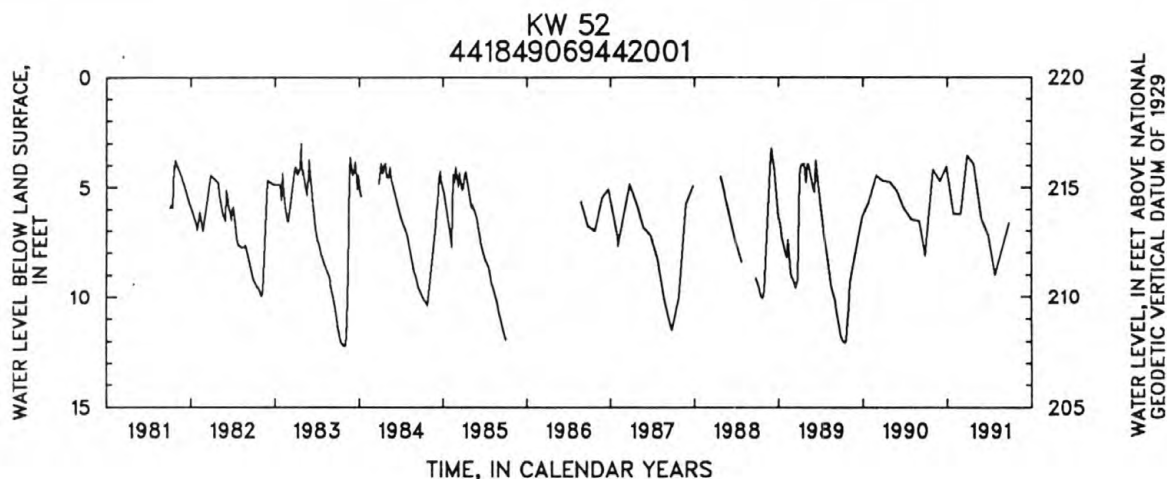
PERIOD OF RECORD.--Dec. 1960 to current year.

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

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

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	4.18	NOV 30	4.70	DEC 26	4.04	JAN 28	6.22	FEB 28	6.20	MAR 28	3.55
APR 23	3.92	MAY 28	6.43	JUN 27	7.23	JUL 25	9.01	AUG 29	7.61	SEP 24	6.63
WTR YR 1991	HIGH	3.55	MAR 28	LOW	9.01	JUL 25					



440918069564001. Local number, KW 766.

LOCATION.--Lat 44X09'18", long 69X56'40", Hydrologic Unit 01030003, 690 ft northeast of the intersection of Hallowell Neck Road, Libby Road, and Plains Road, Litchfield. Owner: U.S. Geological Survey.

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

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

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

DATUM.--Elevation of land-surface datum is 300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of recorder shelter, at land-surface datum, which is 2.7 ft above the general land surface.

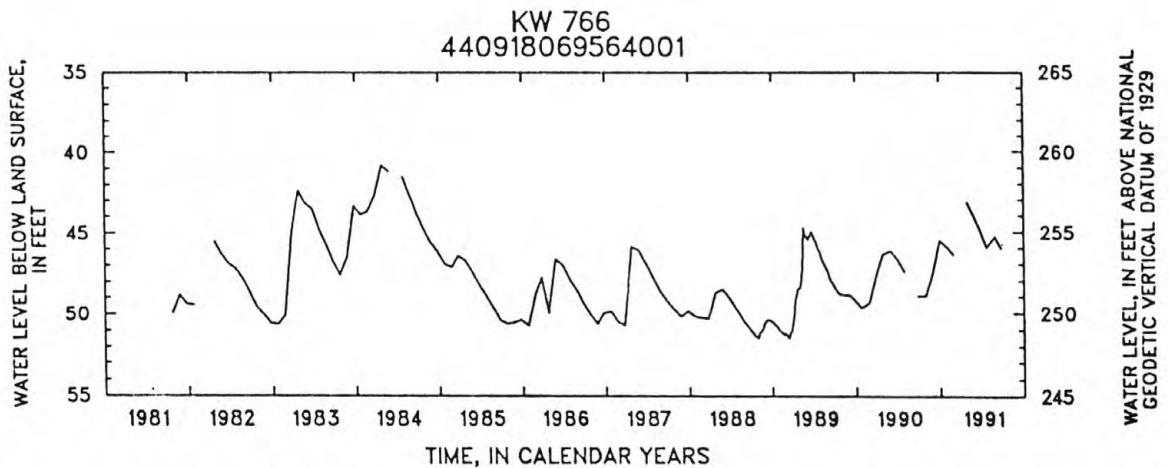
PERIOD OF RECORD.--June 1976 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.76 ft below land-surface datum, June 02, 1984; lowest measured, 51.57 ft below land-surface datum, Mar. 15, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	48.96	DEC 31	45.48	FEB 28	46.38	MAY 30	44.05	JUL 23	45.95	SEP 24	46.02
NOV 30	47.57	JAN 31	45.91	APR 29	43.19	JUN 27	44.94	AUG 28	45.25		
WTR YR 1991		HIGH	43.19	APR 29		LOW	48.96	OCT 31			



GROUND-WATER LEVELS
KENNEBEC COUNTY--Continued

440810069553601. Local number, KW 872A.

LOCATION.--Lat 44X08'17", long 69X55'36", Hydrologic Unit 01030003, on Small Road, 0.40 mi north of State Highway 197, Litchfield. Owner: Stephen Condon.

AQUIFER.--Bedrock of Devonian age.

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

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 404 ft, cased to bedrock, open end.

DATUM.--Elevation of land-surface datum is 220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum, which is 2.2 ft above the general land surface.

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

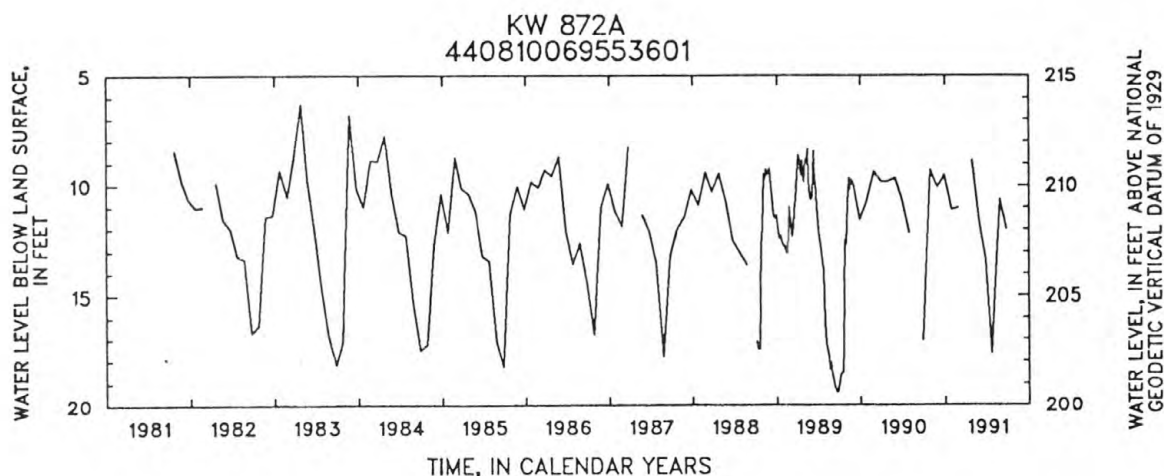
PERIOD OF RECORD.--Nov. 1978 to current year.

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

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

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	9.30	NOV 30	10.10	DEC 31	9.54	JAN 31	11.12	FEB 28	11.04	APR 29	8.86
MAY 30	11.65	JUN 27	13.37	JUL 23	17.64	AUG 28	10.65	SEP 24	12.00		
WTR YR 1991	HIGH	8.86	APR 29	LOW	17.64	JUL 23					



GROUND-WATER LEVELS
KENNEBEC COUNTY--Continued

163

441533069452401. Local number, KW 881.

LOCATION.--Lat 44X15'33", long 69X45'24", Hydrologic Unit 01030003, on unimproved road, about 0.5 mi east of State Highway 9, in Augusta. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

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

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

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

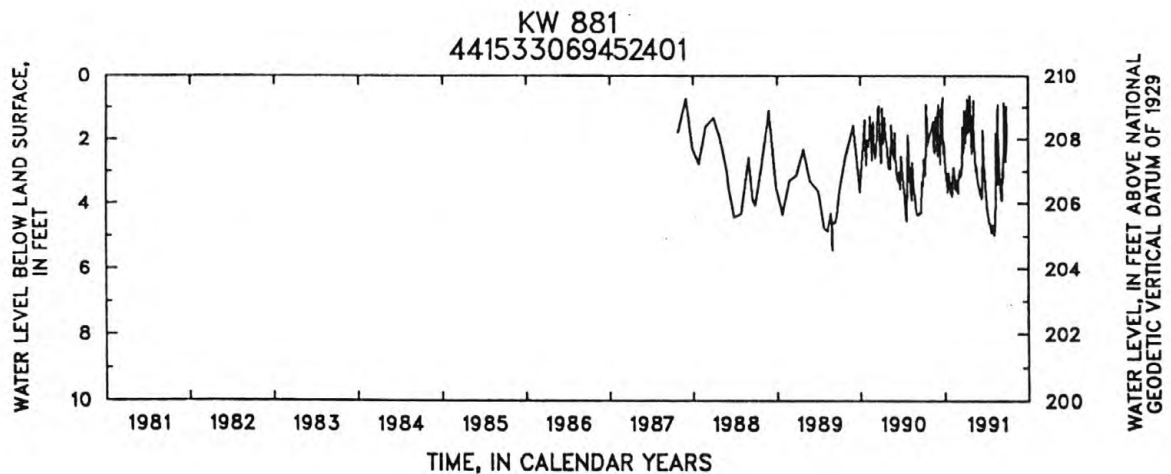
REMARKS.--Record lost between Oct. 23 and November 13 because of recorder malfunction.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.64 ft below land-surface datum, Apr. 22, 1991; lowest measured, 7.73 ft below land-surface datum, Sept. 16, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.71	---	2.34	2.36	3.78	3.68	1.83	1.29	3.59	3.86	4.80	3.69
2	2.63	---	2.45	2.52	3.68	3.45	2.00	1.48	3.66	3.98	4.85	3.78
3	2.81	---	2.56	2.70	3.67	3.33	2.11	1.74	3.73	4.09	4.94	3.84
4	2.83	---	1.30	2.85	3.71	3.18	2.12	2.03	3.67	4.19	4.99	3.90
5	2.85	---	.93	2.96	3.43	3.25	2.01	2.24	3.57	4.25	4.89	3.92
6	2.94	---	1.44	3.03	3.24	3.22	1.72	2.18	3.59	4.30	4.81	3.79
7	3.04	---	1.82	3.15	3.07	2.96	1.17	.79	3.64	4.34	4.81	3.77
8	3.15	---	1.95	3.23	2.96	2.98	1.17	1.24	3.67	4.35	4.81	3.87
9	3.17	---	2.04	3.25	2.92	3.08	.93	1.64	3.79	4.40	4.83	3.78
10	3.09	---	2.15	3.35	2.90	3.10	.75	1.93	3.80	4.46	3.57	2.97
11	2.83	---	2.38	3.46	2.94	3.16	.88	2.13	3.86	4.52	1.83	2.94
12	2.27	---	2.53	3.37	3.07	3.18	1.25	2.29	3.75	4.58	2.42	3.08
13	1.68	---	2.55	3.51	3.16	3.03	1.54	2.52	2.85	4.62	2.69	3.13
14	.94	1.44	2.79	3.57	3.14	3.06	1.78	2.71	2.91	4.60	2.90	3.20
15	1.41	2.18	2.78	3.64	3.25	3.12	1.81	2.87	2.94	4.63	3.06	1.91
16	1.83	2.27	1.63	3.51	3.42	3.06	.91	2.96	2.58	4.68	3.19	.87
17	2.09	2.37	1.31	3.08	3.50	2.93	1.02	3.02	1.73	4.69	3.33	1.24
18	2.22	2.47	1.12	3.04	3.59	2.83	1.21	2.87	1.94	4.74	3.41	1.82
19	1.34	2.24	1.00	3.14	3.55	1.77	1.49	2.86	2.25	4.79	2.56	2.14
20	1.67	1.51	1.59	3.13	3.55	1.62	1.73	2.90	2.43	4.82	1.20	2.32
21	2.00	1.43	1.88	3.20	3.52	1.99	1.21	2.96	2.64	4.86	.93	2.48
22	2.13	1.73	1.07	3.28	3.29	2.23	.64	3.10	2.85	4.91	1.19	2.48
23	---	1.81	1.00	3.31	3.33	2.31	.89	3.22	3.01	4.77	1.78	2.48
24	---	1.29	.70	3.36	3.38	2.29	1.10	3.22	3.13	4.65	2.24	2.61
25	---	1.44	1.28	3.48	3.43	2.44	1.45	3.34	3.25	4.70	2.50	2.72
26	---	1.75	1.83	3.51	3.51	2.18	1.71	3.46	3.34	4.73	2.66	2.24
27	---	1.94	2.22	3.57	3.55	1.55	1.95	3.44	3.48	4.68	2.77	1.00
28	---	1.97	2.39	3.63	3.66	1.13	2.23	3.43	3.53	4.69	2.93	.99
29	---	2.10	2.48	3.70	---	1.22	2.37	3.47	3.67	4.72	3.53	1.97
30	---	2.24	2.46	3.65	---	1.34	2.46	3.52	3.77	4.75	3.61	2.16
31	---	---	2.08	3.63	---	1.68	---	3.56	---	4.76	3.60	---
HIGH	---	---	.70	2.36	2.90	1.13	.64	.79	1.73	3.86	.93	.87
LOW	---	---	2.79	3.70	3.78	3.68	2.46	3.56	3.86	4.91	4.99	3.92
WTR YR 1991		HIGH	.64	LOW	4.99							



GROUND-WATER LEVELS
KENNEBEC COUNTY--Continued

442233069490701. Local number, KW 882.

LOCATION.--Lat 44X22'33", long 69X49'07", Hydrologic Unit 01030003, about 4.5 mi northwest of Augusta. Owner: U. S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

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

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

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

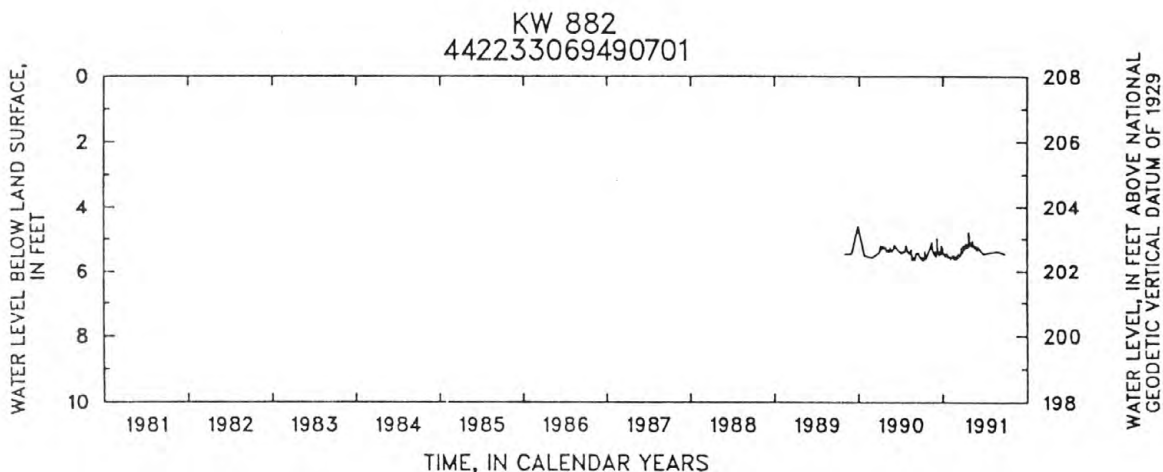
REMARKS.--Record lost between Oct. 23 and Nov. 13 and May 28 and Sept. 30, because of recorder malfunction.

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

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

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.56	---	5.52	5.46	5.63	5.61	5.29	5.11	---	---	---	---
2	5.60	---	5.53	5.43	5.57	5.52	5.30	5.12	---	---	---	---
3	5.67	---	5.55	5.45	5.55	5.56	5.32	5.15	---	---	---	---
4	5.62	---	5.16	5.46	5.57	5.50	5.28	5.21	---	---	---	---
5	5.59	---	5.00	5.47	5.57	5.55	5.22	5.23	---	---	---	---
6	5.62	---	5.22	5.46	5.59	5.58	5.16	5.17	---	---	---	---
7	5.66	---	5.32	5.49	5.54	5.46	5.14	5.06	---	---	---	---
8	5.67	---	5.33	5.53	5.52	5.50	5.16	5.15	---	---	---	---
9	5.65	---	5.34	5.49	5.53	5.52	5.15	5.19	---	---	---	---
10	5.64	---	5.36	5.49	5.54	5.50	5.14	5.20	---	---	---	---
11	5.62	---	5.43	5.53	5.55	5.51	5.19	5.18	---	---	---	---
12	5.60	---	5.43	5.45	5.56	5.50	5.26	5.16	---	---	---	---
13	5.56	---	5.39	5.48	5.56	5.53	5.27	5.20	---	---	---	---
14	5.39	5.12	5.50	5.52	5.51	5.53	5.26	5.23	---	---	---	---
15	5.51	5.35	5.47	5.54	5.52	5.53	5.22	5.26	---	---	---	---
16	5.60	5.35	5.39	5.49	5.60	5.53	5.17	5.25	---	---	---	---
17	5.60	5.39	5.43	5.45	5.61	5.52	5.22	5.21	---	---	---	---
18	5.58	5.44	5.37	5.48	5.64	5.47	5.23	5.23	e5.41	---	---	---
19	5.51	5.40	5.43	5.53	5.57	5.26	5.23	5.27	---	---	---	---
20	5.61	5.44	5.49	5.49	5.54	5.30	5.24	5.26	---	---	---	---
21	5.60	5.48	5.44	5.53	5.57	5.39	5.05	5.25	---	---	---	---
22	5.55	5.47	5.38	5.57	5.53	5.42	4.80	5.29	---	---	---	---
23	---	5.43	5.35	5.57	5.63	5.41	4.99	5.32	---	---	---	---
24	---	5.39	5.21	5.55	5.60	5.36	5.03	5.28	e5.37	e5.40	---	e5.46
25	---	5.43	5.25	5.59	5.56	5.42	5.10	5.30	---	---	---	---
26	---	5.51	5.29	5.57	5.56	5.42	5.13	5.34	---	---	---	---
27	---	5.50	5.39	5.55	5.56	5.38	5.14	5.23	---	---	---	---
28	---	5.45	5.37	5.56	5.62	5.22	5.20	---	---	---	e5.38	---
29	---	5.49	5.32	5.59	---	5.23	5.20	---	---	---	---	---
30	---	5.53	5.29	5.54	---	5.27	5.18	---	---	---	---	---
31	---	---	5.40	5.54	---	5.33	---	---	---	---	---	---
HIGH	---	---	5.00	5.43	5.51	5.22	4.80	---	---	---	---	---
LOW	---	---	5.55	5.59	5.64	5.61	5.32	---	---	---	---	---
WTR YR 1991	HIGH 4.80		LOW 5.67									
e Instantaneous water level												



OXFORD COUNTY

444637070552301. Local number, OW 400.

LOCATION.--Lat 44X46'37", long 70X55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.

Owner: Union Water Power Co.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in., depth 15 ft, cased with concrete pipe to 15 ft, open end.

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

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

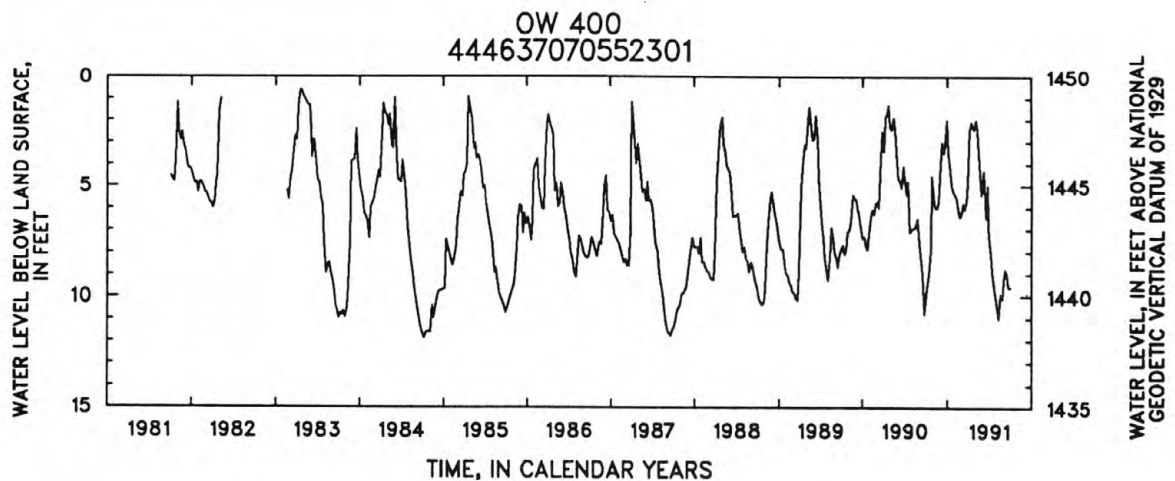
REMARKS.--Prior to 1973 well was used for domestic supply.

PERIOD OF RECORD.--Apr. 1944 to current year. Records from May 16 to Sept. 30, 1982, are unreliable and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft above land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft below land-surface datum, Oct. 09, 16, 23, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	9.90	DEC 02	4.00	FEB 10	5.60	APR 14	2.10	JUN 19	6.12	AUG 11	11.00
08	9.40	09	3.00	17	6.10	28	2.40	23	5.00	18	9.90
14	9.00	16	3.50	24	6.40	MAY 05	2.00	26	6.82	26	10.10
21	7.90	23	3.10	MAR 03	6.30	12	2.40	30	7.30	SEP 01	9.30
24	4.54	30	2.00	10	5.80	19	4.00	JUL 07	8.10	08	8.80
NOV 04	5.80	JAN 06	3.50	17	6.10	26	5.40	14	8.90	15	9.00
11	6.00	13	4.30	24	5.70	JUN 09	4.30	21	9.60	22	9.60
18	6.00	20	5.00	31	4.90	16	6.40	28	10.00	29	9.60
25	5.70	27	5.30	APR 07	2.40	18	6.47	AUG 05	10.60		
WTR YR 1991	HIGH	2.00	DEC 30, MAY 05	LOW	11.00	AUG 11					



GROUND-WATER LEVELS
OXFORD COUNTY--Continued

443647070552302. Local number, OW 400A.

LOCATION.--Lat 44X46'37", long 70X55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

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

INSTRUMENTATION.--Weekly measurement with chalked tape by local observer. Electronic water-level recorder--daily-mean values stored based on 24 hourly measurements after June 17.

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

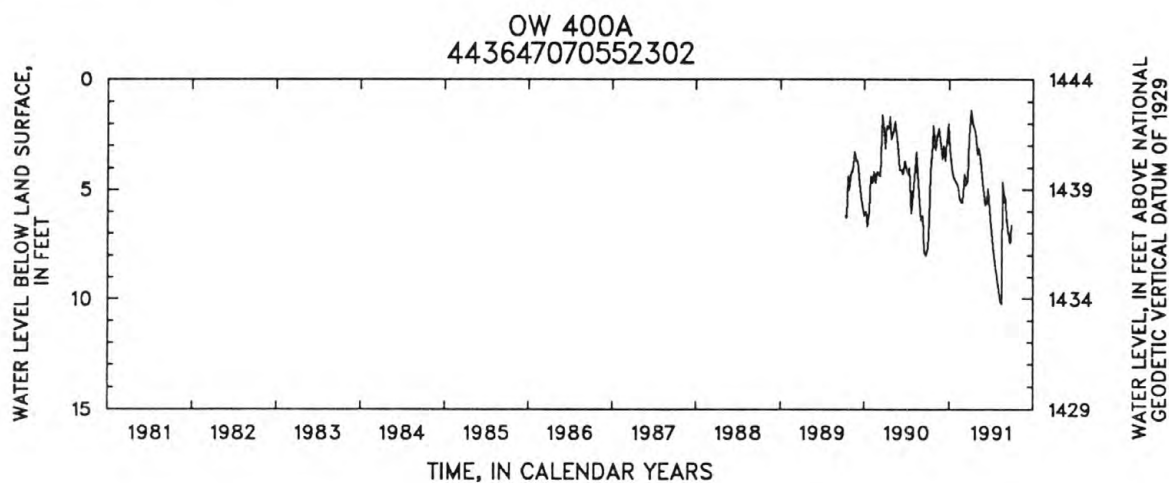
REMARKS.--Record lost between Oct. 1 and June 17 because field computer malfunctioned.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.40 ft below land-surface datum, Apr. 7, 1991; lowest measured, 10.23 ft below land-surface datum, Aug. 18 and 19, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.70	---	---	---	---	---	---	---	---	6.47	9.29	5.44
2	---	---	e3.60	---	---	---	---	---	---	6.61	9.37	5.38
3	---	---	---	---	---	e5.60	---	---	---	6.75	9.46	5.36
4	---	e3.20	---	---	---	---	---	---	---	6.88	9.56	5.50
5	---	---	---	---	---	---	---	e3.40	---	6.97	9.64	5.85
6	---	---	---	e3.20	---	---	---	---	---	7.07	9.73	6.05
7	---	---	---	---	---	---	e1.40	---	---	7.17	9.82	6.16
8	e6.40	---	---	---	---	---	---	---	---	7.25	9.88	6.30
9	---	---	e3.00	---	---	---	---	---	e5.70	7.38	9.94	6.43
10	---	---	---	---	e4.90	e4.30	---	---	---	7.49	9.99	6.39
11	---	e2.60	---	---	---	---	---	---	---	7.60	10.04	6.61
12	---	---	---	---	---	---	---	e3.10	---	7.71	10.10	6.75
13	---	---	---	e4.00	---	---	---	---	---	7.80	10.14	6.83
14	e4.20	---	---	---	---	---	e2.00	---	---	7.89	10.15	6.92
15	---	---	---	---	---	---	---	---	---	8.02	10.16	6.99
16	---	---	e3.70	---	---	---	---	---	e5.60	8.10	10.19	7.05
17	---	---	---	---	e5.40	e4.80	---	---	---	8.16	10.21	7.12
18	---	e2.20	---	---	---	---	---	---	4.98	8.25	10.23	7.23
19	---	---	---	---	---	---	---	e3.70	5.30	8.34	10.23	7.27
20	---	---	---	e4.40	---	---	---	---	5.40	8.42	8.36	7.35
21	e3.00	---	---	---	---	---	---	---	5.30	8.50	5.20	7.40
22	---	---	---	---	---	---	---	---	5.16	8.60	4.66	7.42
23	---	---	e2.80	---	---	---	---	---	5.35	8.66	4.74	7.38
24	e2.10	---	---	---	e5.60	e4.60	---	---	5.52	8.75	4.90	7.46
25	---	e2.70	---	---	---	---	---	---	5.67	8.82	5.01	7.40
26	---	---	---	---	---	---	---	e4.70	5.79	8.89	5.09	7.36
27	---	---	---	e4.60	---	---	---	---	5.96	8.94	5.29	7.19
28	---	---	---	---	---	---	e2.40	---	6.04	9.02	5.56	6.93
29	---	---	---	---	---	---	---	---	6.24	9.08	5.54	6.72
30	---	---	e2.00	---	---	---	---	---	6.34	9.15	5.29	6.64
31	---	---	---	---	---	e2.60	---	---	---	9.21	5.38	---
HIGH	---	---	---	---	---	---	---	---	---	6.47	4.66	5.36
LOW	---	---	---	---	---	---	---	---	---	9.21	10.23	7.46
WTR YR 1991	HIGH 1.40 LOW 10.23											
e Instantaneous water level												



440642070583401. Local number, OW 615.

LOCATION.--Lat 44X06'41", long 70X58'32", Hydrologic Unit 01060002, at the intersection of State Highway 113 and road to Fish Street, Fryeburg. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 1.5 in., depth 40 ft, screened depth 35 to 40 ft.

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

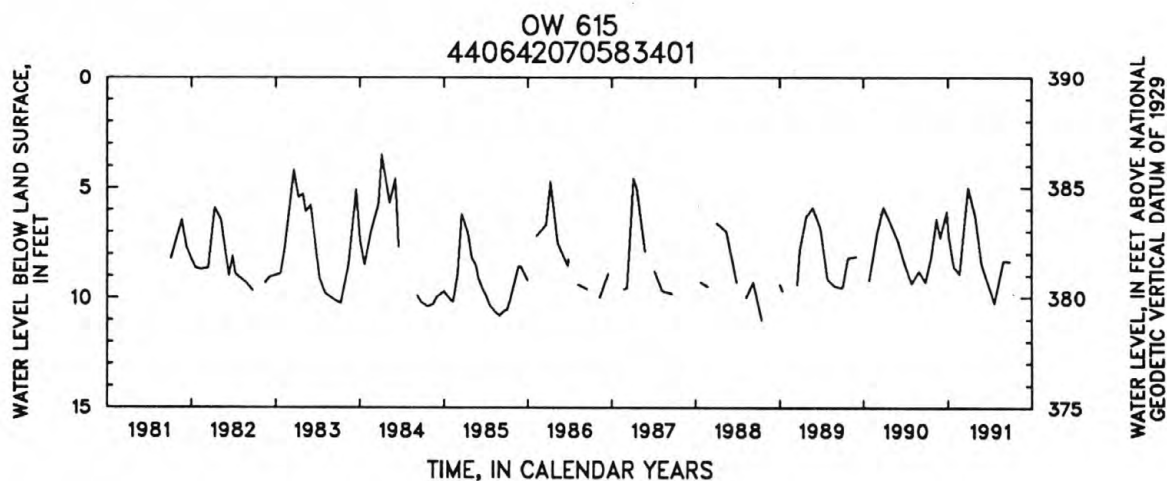
DATUM.--Elevation of land-surface datum is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum, which is 2.9 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.00 ft below land-surface datum, Apr. 04, 1987; lowest measured, 11.58 ft below land-surface datum, Oct. 01, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	8.14	DEC 27	6.07	FEB 21	8.90	MAY 29	8.47	AUG 29	8.32
NOV 15	6.45	JAN 04	7.20	MAR 29	5.01	JUN 27	9.45	SEP 27	8.36
29	7.29	29	8.62	APR 30	6.27	JUL 23	10.25		
WTR YR 1991	HIGH	5.01	MAR 29	LOW	10.25	JUL 23			



GROUND-WATER LEVELS
OXFORD COUNTY--Continued

440642070583402. Local number, OW 615A.

LOCATION.--Lat 44X06'42", long 70X58'34", Hydrologic Unit 01060002, at the intersection of State Highway 113 and the road to Fish Street, Fryeburg. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 32 ft, screened depth 26.6 to 31.6 ft, screen slot size 0.010 in.

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

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

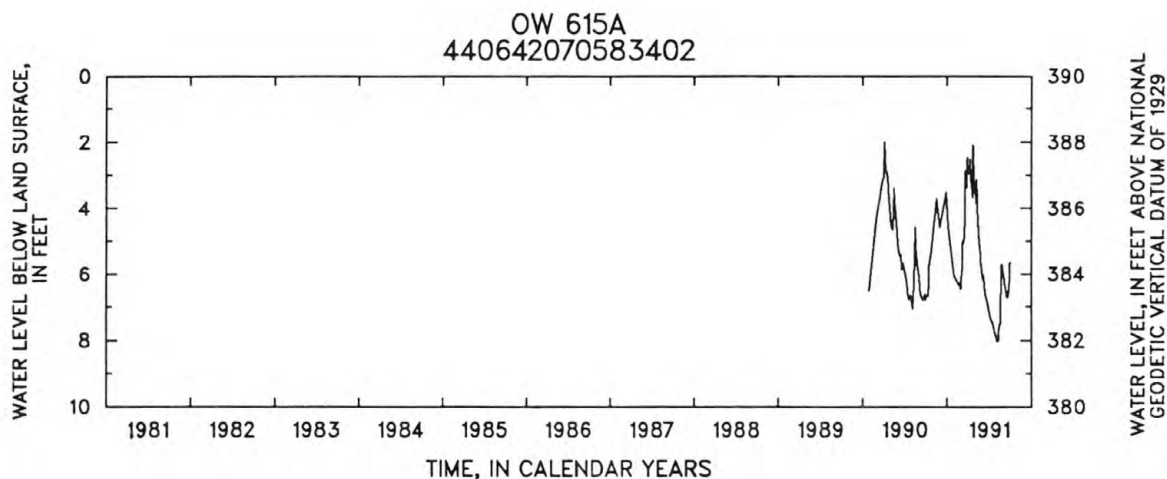
REMARKS.--Record lost between Oct. 24 and Feb. 20 because field computer malfunctioned.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.00 ft below land-surface datum, Apr. 05, 1990; lowest measured, 8.02 ft below land-surface datum, Aug. 5 and 6, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.74	---	---	---	---	6.46	2.87	3.25	6.00	7.17	7.93	6.08
2	6.70	---	---	---	---	6.36	2.93	3.26	6.08	7.21	7.96	6.12
3	6.69	---	---	---	---	6.16	2.96	3.48	6.16	7.24	8.00	6.16
4	6.69	---	---	---	---	5.96	2.94	3.70	6.18	7.28	8.01	6.20
5	6.69	---	---	e4.56	---	5.92	2.85	3.86	6.11	7.31	8.02	6.26
6	6.66	---	---	---	---	5.87	2.80	3.84	6.05	7.33	8.02	6.32
7	6.65	---	---	---	---	5.37	2.77	3.13	6.10	7.35	8.01	6.35
8	6.66	---	---	---	---	5.07	2.80	3.30	6.18	7.37	8.01	6.40
9	6.67	---	---	---	---	5.01	2.73	3.54	6.29	7.38	8.00	6.46
10	6.67	---	---	---	---	5.00	2.53	3.75	6.36	7.41	7.85	6.51
11	6.63	---	---	---	---	5.03	2.72	3.93	6.43	7.43	7.70	6.55
12	6.55	---	---	---	---	5.05	2.95	4.11	6.49	7.44	7.64	6.59
13	6.37	---	---	---	---	4.99	3.14	4.30	6.54	7.44	7.60	6.63
14	6.02	---	---	---	---	4.90	3.29	4.48	6.60	7.45	7.56	6.66
15	5.77	e3.72	---	---	---	4.90	3.38	4.63	6.66	7.47	7.54	6.70
16	5.65	---	---	---	---	4.81	3.31	4.77	6.70	7.50	7.53	6.72
17	5.61	---	---	---	---	4.68	3.41	4.90	6.72	7.53	7.52	6.71
18	5.58	---	---	---	---	4.45	3.52	4.94	6.73	7.57	7.51	6.72
19	5.52	---	---	---	---	3.27	3.60	4.98	6.75	7.60	7.39	6.72
20	5.48	---	---	---	---	2.89	3.68	5.07	6.77	7.64	6.80	6.62
21	5.47	---	---	---	6.36	2.86	3.19	5.17	6.81	7.67	6.43	6.54
22	5.46	---	---	---	6.32	2.91	2.10	5.29	6.85	7.70	5.95	6.52
23	5.49	---	---	---	6.29	2.97	2.17	5.41	6.89	7.73	5.77	6.52
24	---	---	---	---	6.31	3.08	2.38	5.50	6.92	7.76	5.72	6.53
25	---	---	---	---	6.34	3.29	2.60	5.63	6.95	7.79	5.73	6.44
26	---	---	---	---	6.40	3.38	2.84	5.74	6.99	7.81	5.76	6.12
27	---	---	e3.52	---	6.42	3.26	3.07	5.79	7.04	7.83	5.82	5.81
28	---	---	---	---	6.45	2.60	3.29	5.83	7.07	7.85	5.89	5.69
29	---	e4.59	---	e6.07	---	2.47	3.46	5.87	7.09	7.87	5.93	5.66
30	---	---	---	---	---	2.63	3.50	5.94	7.13	7.88	5.95	5.68
31	---	---	---	---	---	2.82	---	5.98	---	7.91	6.01	---
HIGH	---	---	---	---	---	2.47	2.10	3.13	6.00	7.17	5.72	5.66
LOW	---	---	---	---	---	6.46	3.68	5.98	7.13	7.91	8.02	6.72
WTR YR 1991	HIGH 2.10 LOW 8.02											
e Instantaneous water level												



GROUND-WATER LEVELS
OXFORD COUNTY--Continued

169

442515070481002. Local number, OW 616A.

LOCATION.--Lat 44X25'15", long 70X48'10", Hydrologic Unit 01040002, at Bethel Airport, Bethel. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 27 ft; screened depth 16.9 to 21.9 ft, screen slot size 0.008 in; screened depth 21.9 to 26.9 ft, screen slot size 0.006 in.

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

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

REMARKS.--Record lost between October 25 and February 20 because field computer malfunctioned.

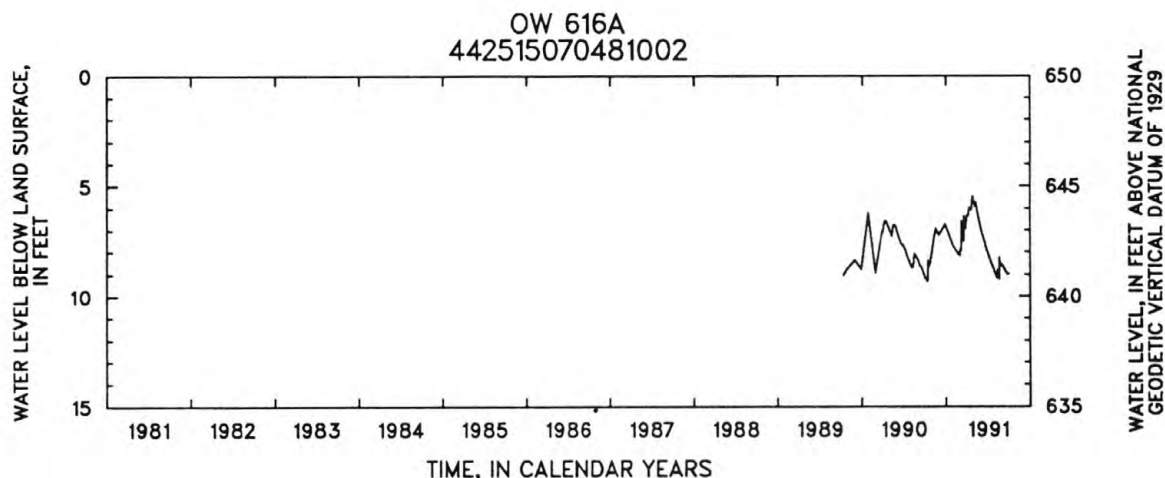
PERIOD OF RECORD.--Oct. 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.49 ft below land-surface datum, Apr. 24 and 25, 1991; lowest measured, 9.33 ft below land-surface datum, Oct. 12, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.14	---	---	---	---	8.15	6.34	5.78	6.98	8.08	8.95	8.63
2	9.15	---	---	---	---	8.13	6.37	5.77	7.03	8.10	8.98	8.63
3	9.17	---	---	---	---	7.97	6.37	5.79	7.06	8.13	9.01	8.64
4	9.18	---	---	---	---	7.85	6.36	5.85	7.10	8.17	9.03	8.65
5	9.19	---	---	---	---	7.88	6.34	5.90	7.16	8.19	9.05	8.67
6	9.20	---	---	---	---	7.92	6.32	5.91	7.19	8.22	9.08	8.68
7	9.23	---	---	---	---	7.01	6.22	5.70	7.23	8.25	9.12	8.71
8	9.25	---	---	---	---	6.58	6.13	5.75	7.26	8.27	9.14	8.75
9	9.27	---	---	---	---	6.94	6.08	5.79	7.31	8.31	9.16	8.76
10	9.29	---	---	---	---	7.12	6.01	5.83	7.34	8.35	8.96	8.77
11	9.32	---	---	---	---	7.22	5.97	5.89	7.38	8.38	8.81	8.79
12	9.33	---	---	---	---	7.30	5.99	5.94	7.42	8.40	8.96	8.81
13	9.21	---	---	---	---	7.38	6.01	5.99	7.45	8.43	9.04	8.83
14	8.41	---	---	---	---	7.40	6.04	6.05	7.49	8.46	9.09	8.85
15	8.59	e6.91	---	---	---	7.44	6.06	6.12	7.53	8.49	9.12	8.87
16	8.68	---	---	---	---	7.49	6.08	6.17	7.56	8.52	9.15	8.88
17	8.67	---	---	---	---	7.52	6.05	6.24	7.60	8.54	9.19	8.89
18	8.64	---	---	---	---	7.47	6.03	6.30	7.64	8.57	9.21	8.90
19	8.60	---	---	---	---	6.83	6.02	6.38	7.68	8.60	8.96	8.92
20	8.58	---	---	---	---	6.37	6.05	6.42	7.71	8.62	8.26	8.94
21	8.57	---	---	---	8.08	6.64	6.02	6.46	7.74	8.64	8.57	8.96
22	8.57	---	---	---	8.10	6.72	5.71	6.52	7.78	8.69	8.59	8.98
23	8.58	---	---	---	8.10	6.69	5.57	6.59	7.82	8.72	8.61	8.98
24	8.41	---	---	---	8.10	6.72	5.49	6.62	7.86	8.74	8.61	8.99
25	---	---	---	---	8.11	6.82	5.49	6.68	7.89	8.76	8.61	9.01
26	---	---	---	---	8.12	6.90	5.52	6.74	7.93	8.79	8.61	8.99
27	---	---	e6.74	---	8.12	6.93	5.56	6.78	7.95	8.82	8.63	8.99
28	---	---	---	---	8.13	6.78	5.65	6.82	7.97	8.84	8.63	8.99
29	---	e7.24	---	e7.71	---	6.44	5.70	6.87	8.02	8.88	8.55	8.99
30	---	---	---	---	---	6.37	5.77	6.91	8.04	8.91	8.59	8.99
31	---	---	---	---	---	6.38	---	6.93	---	8.93	8.61	---
HIGH	---	---	---	---	---	6.37	5.49	5.70	6.98	8.08	8.26	8.63
LOW	---	---	---	---	---	8.15	6.37	6.93	8.04	8.93	9.21	9.01

WTR YR 1991 HIGH 5.49 LOW 9.33
e Instantaneous water level



GROUND-WATER LEVELS
OXFORD COUNTY--Continued

440823070291501. Local number, OW 1214.

LOCATION.--Lat 44X08'23", long 70X29'15", Hydrologic Unit 01040002, on State Highway 121, about 0.1 mi east of the intersection with Skeetfield Road, in Oxford. Owner: U.S. Geological Survey.

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

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

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

DATUM.--Elevation of land-surface datum is 334 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Electric tape gage index, at land surface datum, which is 1.2 ft above the general land surface.

REMARKS.--Test hole adjacent to this well shows a depth to bedrock of 174 ft. Record lost between Mar. 24 and 31 because battery malfunctioned.

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

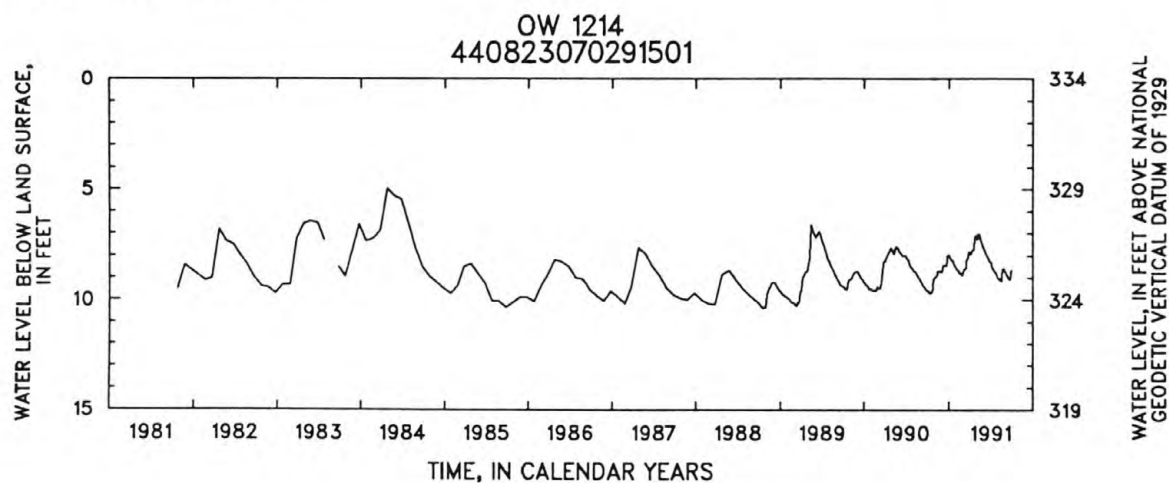
REVISED RECORDS.--WDR ME-82-1: 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.07 ft below land-surface datum, June 03, 1984; lowest measured, 10.37 ft below land-surface datum, Oct. 20-22, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.57	9.01	8.71	7.95	8.51	8.89	7.92	7.11	7.63	8.28	8.97	8.67
2	9.57	8.99	8.72	7.95	8.54	8.89	7.92	7.11	7.66	8.29	8.99	8.72
3	9.58	8.97	8.73	7.96	8.54	8.86	7.92	7.12	7.70	8.30	9.01	8.73
4	9.58	8.97	8.72	7.98	8.55	8.75	7.92	7.17	7.72	8.30	9.02	8.74
5	9.59	8.97	8.62	8.01	8.57	8.74	7.92	7.22	7.73	8.30	9.02	8.77
6	9.60	8.94	8.54	8.03	8.59	8.74	7.91	7.24	7.75	8.40	9.05	8.79
7	9.61	8.93	8.50	8.07	8.60	8.70	7.90	7.15	7.79	8.51	9.06	8.80
8	9.65	8.93	8.44	8.08	8.61	8.60	7.90	7.05	7.81	8.51	9.08	8.82
9	9.65	8.93	8.42	8.09	8.62	8.59	7.89	7.02	7.83	8.52	9.09	8.84
10	9.66	8.91	8.40	8.13	8.64	8.58	7.85	7.01	7.86	8.54	9.08	8.86
11	9.67	8.87	8.40	8.15	8.65	8.58	7.80	7.01	7.88	8.56	9.04	8.90
12	9.68	8.82	8.40	8.15	8.66	8.58	7.76	7.01	7.91	8.58	9.04	8.92
13	9.69	8.77	8.40	8.16	8.71	8.59	7.74	7.01	7.93	8.61	9.05	8.95
14	9.69	8.73	8.41	8.17	8.72	8.57	7.73	7.03	7.96	8.62	9.07	8.97
15	9.67	8.72	8.41	8.19	8.72	8.57	7.71	7.08	7.98	8.65	9.09	8.98
16	9.66	8.69	8.41	8.22	8.73	8.57	7.71	7.12	7.99	8.67	9.11	8.99
17	9.66	8.68	8.41	8.20	8.75	8.56	7.71	7.15	8.01	8.69	9.13	9.01
18	9.66	8.68	8.42	8.21	8.76	8.50	7.71	7.21	8.04	8.70	9.16	9.04
19	9.63	8.68	8.43	8.23	8.78	8.36	7.71	7.25	8.06	8.71	9.13	9.05
20	9.60	8.68	8.45	8.23	8.79	8.21	7.71	7.28	8.07	8.72	8.80	9.04
21	9.59	8.68	8.45	8.23	8.79	8.17	7.68	7.31	8.10	8.72	8.67	9.04
22	9.58	8.68	8.45	8.32	8.77	8.16	7.51	7.34	8.12	8.75	8.63	9.06
23	9.56	8.68	8.40	8.34	8.78	8.16	7.30	7.37	8.16	8.76	8.60	9.07
24	9.51	8.68	8.22	8.37	8.79	---	7.17	7.39	8.18	8.77	8.59	9.09
25	9.35	8.68	8.08	8.38	8.79	---	7.12	7.42	8.21	8.79	8.59	9.06
26	9.22	8.69	8.02	8.38	8.83	---	7.09	7.46	8.22	8.81	8.59	8.88
27	9.16	8.72	8.00	8.40	8.87	---	7.08	7.48	8.24	8.82	8.57	8.77
28	9.10	8.72	7.98	8.43	8.88	---	7.09	7.49	8.25	8.84	8.60	8.71
29	9.03	8.73	7.97	8.46	---	7.79	7.10	7.55	8.27	8.89	8.61	8.66
30	9.03	8.73	7.95	8.47	---	---	7.11	7.60	8.27	8.92	8.63	8.64
31	9.03	---	7.95	8.48	---	---	---	7.62	---	8.94	8.64	---
HIGH	9.03	8.68	7.95	7.95	8.51	---	7.08	7.01	7.63	8.28	8.57	8.64
LOW	9.69	9.01	8.73	8.48	8.88	---	7.92	7.62	8.27	8.94	9.16	9.09
WTR YR 1991	HIGH 7.01 LOW 9.69											

e Instantaneous water level



PENOBSCOT COUNTY

445319068560101. Local number, PEW 456.

LOCATION.--Lat 44X53'19", long 68X56'01", Hydrologic Unit 01020005, on Kenduskeag-Levant Road, 2.5 mi south of Kenduskeag, near Kenduskeag-Levant town line, Kenduskeag. Owner: Clarence W. Parker, Jr.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 98 ft, open hole.

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

DATUM.--Elevation of land-surface datum is 190 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of fiberglass shelter, 0.36 ft above land-surface datum, which is 4.3 ft above the general land surface.

REMARKS.--Record lost between Oct. 1 and 15 because recorder malfunctioned.

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

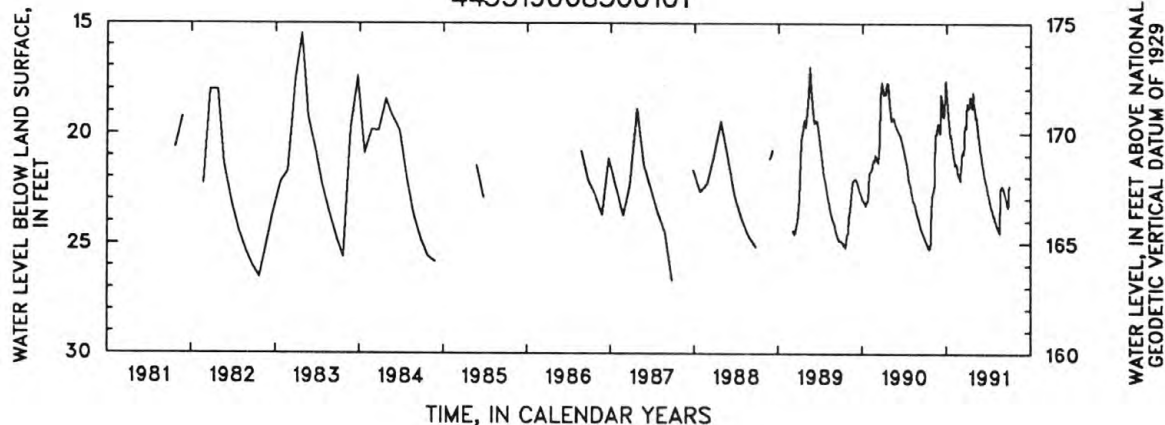
REVISED RECORDS.--WDR ME-84-1: 1979, 1980, 1981.

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

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

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	22.85	19.83	18.30	21.17	22.15	18.74	18.86	21.13	22.82	24.05	22.45
2	---	22.78	19.89	18.38	21.22	22.15	18.79	18.91	21.20	22.87	24.08	22.47
3	---	22.72	20.00	18.54	21.26	21.94	18.85	18.98	21.28	22.93	24.12	22.48
4	---	22.67	19.90	18.70	21.34	21.57	18.86	19.11	21.35	22.98	24.16	22.49
5	---	22.65	18.80	18.85	21.39	21.44	18.83	19.22	21.40	23.03	24.18	22.53
6	---	22.58	18.24	18.95	21.44	21.44	18.82	19.31	21.46	23.07	24.21	22.59
7	---	22.53	18.33	19.09	21.39	21.30	18.81	19.23	21.52	23.12	24.22	22.63
8	---	22.44	18.38	19.25	21.37	20.99	18.77	19.25	21.59	23.16	24.25	22.68
9	---	22.40	18.42	19.35	21.37	20.89	18.73	19.33	21.70	23.19	24.29	22.75
10	---	22.34	18.46	19.45	21.36	20.87	18.57	19.40	21.75	23.22	24.32	22.77
11	---	21.41	18.63	19.67	21.37	20.87	18.38	19.47	21.81	23.27	24.33	22.81
12	---	20.23	18.75	19.72	21.43	20.88	18.37	19.52	21.87	23.33	24.34	22.87
13	---	20.06	18.78	19.83	21.49	20.91	18.39	19.65	21.93	23.37	24.36	22.92
14	---	20.09	18.97	19.97	21.52	20.91	18.45	19.76	22.00	23.40	24.39	22.97
15	---	20.03	19.08	20.08	21.55	20.84	18.50	19.88	22.05	23.42	24.42	23.03
16	25.23	20.00	19.11	20.17	21.67	20.82	18.54	19.96	22.10	23.46	24.45	23.05
17	25.24	20.00	19.21	20.12	21.76	20.79	18.60	20.05	22.14	23.50	24.48	23.09
18	25.23	20.01	19.25	20.05	21.84	20.69	18.68	20.09	22.15	23.55	24.51	23.15
19	25.23	19.95	19.15	20.08	21.88	20.38	18.75	20.14	22.18	23.60	24.54	23.19
20	25.20	19.81	19.15	20.09	21.89	19.90	18.82	20.21	22.22	23.65	23.96	23.21
21	25.15	19.75	19.13	20.21	21.94	19.68	18.84	20.28	22.28	23.70	23.22	23.23
22	25.12	19.69	19.03	20.31	21.94	19.66	18.57	20.43	22.34	23.76	22.77	23.28
23	25.11	19.61	18.83	20.39	21.94	19.66	18.28	20.58	22.41	23.79	22.55	23.32
24	24.97	19.55	18.45	20.46	21.94	19.62	18.15	20.64	22.46	23.78	22.50	23.36
25	24.12	19.56	17.71	20.60	21.96	19.71	18.22	20.75	22.52	23.79	22.46	23.38
26	23.61	19.65	17.62	20.69	22.00	19.75	18.32	20.87	22.57	23.83	22.43	23.16
27	23.40	19.67	17.83	20.76	22.03	19.64	18.43	20.88	22.64	23.86	22.40	22.76
28	23.28	19.62	17.94	20.83	22.10	19.02	18.59	20.85	22.69	23.90	22.40	22.52
29	23.18	19.68	17.99	20.93	---	18.68	18.69	20.91	22.73	23.94	22.40	22.42
30	23.04	19.77	18.04	20.98	---	18.64	18.80	20.99	22.78	23.97	22.39	22.38
31	22.92	---	18.16	21.04	---	18.74	---	21.06	---	24.01	22.40	---
HIGH	---	19.55	17.62	18.30	21.17	18.64	18.15	18.86	21.13	22.82	22.39	22.38
LOW	---	22.85	20.00	21.04	22.10	22.15	18.86	21.06	22.78	24.01	24.54	23.38
WTR YR 1991		HIGH	17.62	LOW	25.24							

PEW 456
445319068560101

GROUND-WATER LEVELS
PISCATAQUIS COUNTY

452829069322101. Local number, PIW 2.

LOCATION.--Lat 45X28'29", long 69X32'21", Hydrologic Unit 01030001, approximately 1.0 mi north of Greenville Junction. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., Sept. 1987 measured depth 31 ft, screened depth 14 to 24 feet, screen slot size 0.006 in.

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

DATUM.--Elevation of land-surface datum is 1,087 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.24 ft above land-surface datum.

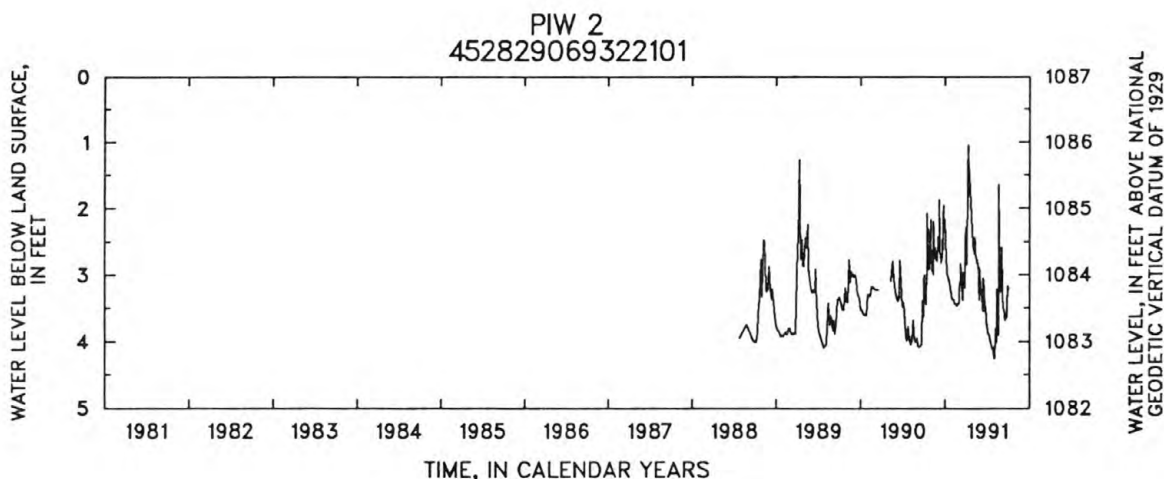
REMARKS.--Record lost between Oct. 25 and 29 and Apr. 13 and 28 because recorder malfunctioned.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.05 ft below land-surface datum, Apr. 09, 1991; lowest measured, 4.25 ft below land-surface datum, July 31 and Aug. 1, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.07	2.53	2.53	2.27	3.37	3.43	2.77	2.59	3.11	3.82	4.25	2.59
2	3.01	2.73	2.58	2.40	3.37	3.42	2.82	2.60	3.13	3.85	4.09	2.59
3	3.16	2.81	2.62	2.55	3.37	3.22	2.85	2.62	3.19	3.87	4.07	3.25
4	3.27	2.87	2.45	2.69	3.37	3.11	2.74	2.64	3.26	3.88	4.10	3.35
5	3.32	2.92	1.88	2.76	3.37	3.11	2.42	2.67	3.26	3.90	3.91	3.36
6	3.32	2.95	2.10	2.82	3.37	3.14	1.90	2.69	3.28	3.90	3.81	3.38
7	3.36	2.94	2.21	2.87	3.38	3.10	1.51	2.47	3.33	3.90	3.90	3.46
8	3.42	2.94	2.41	2.97	3.41	2.84	1.51	2.44	3.38	3.90	3.96	3.51
9	3.44	2.97	2.66	3.00	3.42	2.96	1.05	2.54	3.44	3.90	4.01	3.53
10	3.45	3.00	2.72	3.02	3.43	3.04	1.20	2.62	3.48	3.91	3.71	3.54
11	3.45	2.20	2.75	3.03	3.44	3.12	1.28	2.66	3.52	3.93	3.22	3.56
12	3.28	2.33	2.75	3.03	3.44	3.17	1.32	2.70	3.55	3.95	3.46	3.56
13	3.02	2.53	2.75	3.03	3.44	3.23	---	2.73	3.19	3.97	3.59	3.57
14	2.08	2.67	2.80	3.06	3.44	3.27	---	2.75	3.05	3.98	3.68	3.63
15	2.30	2.74	2.83	3.08	3.44	3.31	---	2.78	3.13	4.00	3.76	3.68
16	2.65	2.75	2.76	3.10	3.44	3.35	---	2.80	3.17	4.02	3.82	3.64
17	2.83	2.67	2.74	3.10	3.45	3.37	---	2.83	3.19	4.04	3.87	3.62
18	2.94	2.60	2.74	3.10	3.46	3.38	---	2.79	3.20	4.05	3.91	3.63
19	2.55	2.62	2.47	3.12	3.47	3.28	---	2.78	3.26	4.07	3.72	3.65
20	2.31	2.68	2.57	3.14	3.47	2.97	---	2.82	3.32	4.09	1.65	3.63
21	2.63	2.73	2.62	3.17	3.45	2.97	---	2.86	3.41	4.10	2.42	3.63
22	2.78	2.77	2.56	3.20	3.45	3.03	---	2.90	3.46	4.11	2.65	3.62
23	2.90	2.78	2.17	3.22	3.45	3.07	---	2.93	3.49	4.12	2.84	3.62
24	2.92	2.79	1.96	3.24	3.45	3.11	---	2.97	3.53	4.09	2.98	3.62
25	---	2.78	2.13	3.26	3.44	3.17	---	3.18	3.57	4.11	3.10	3.46
26	---	2.79	2.23	3.28	3.43	3.20	---	3.38	3.61	4.13	3.25	3.18
27	---	2.80	2.24	3.32	3.43	3.18	---	3.15	3.64	4.14	3.26	3.17
28	---	2.74	2.26	3.34	3.43	2.48	---	2.90	3.72	4.17	2.63	3.19
29	---	2.53	2.27	3.36	---	2.29	2.54	2.97	3.76	4.19	2.61	3.21
30	2.17	2.43	2.24	3.37	---	2.54	2.59	3.06	3.80	4.23	2.61	3.23
31	2.40	---	2.17	3.37	---	2.69	---	3.11	---	4.25	2.60	---
HIGH	---	2.20	1.88	2.27	3.37	2.29	---	2.44	3.05	3.82	1.65	2.59
LOW	---	3.00	2.83	3.37	3.47	3.43	---	3.38	3.80	4.25	4.25	3.68
WTR YR 1991		HIGH	1.05	LOW	4.25							



SOMERSET COUNTY

445148069513301. Local number, SMW 61.

LOCATION.--Lat 44X51°48", long 69X51°33", Hydrologic Unit 01030003, approximately 3.0 mi northeast of Madison.

Owner: U.S. Geological Survey.

AQUIFER.--Glaciomarine deposits of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in, Sept. 1984 measured depth 40 ft, screened depth 35 to 40 ft, screen slot size 0.010 in.

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

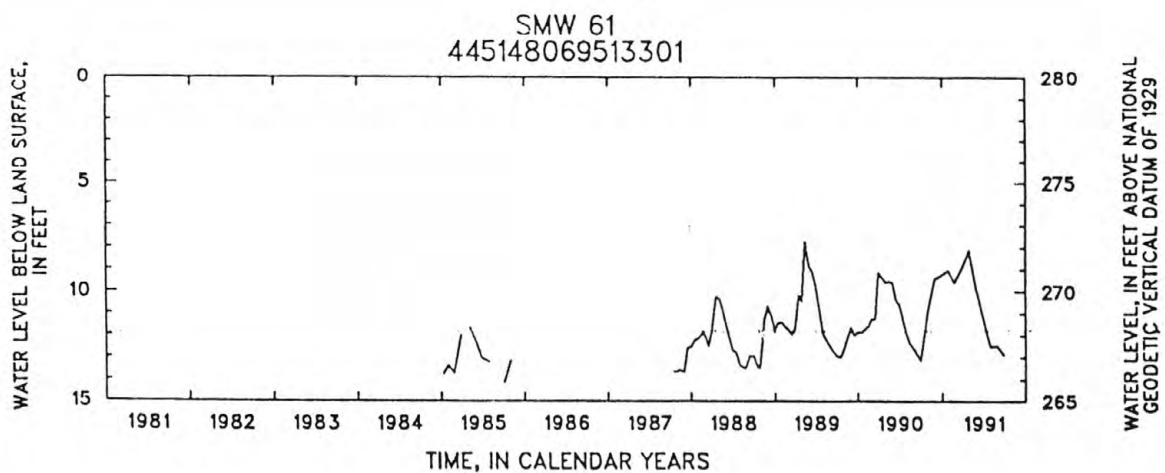
DATUM.--Elevation of land-surface datum is 280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.75 ft below land-surface datum, May 14, 1989; lowest measured, 14.16 ft below land-surface datum, Oct. 04, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	10.94	DEC 26	9.30	FEB 25	9.58	APR 29	8.14	JUN 28	11.13	AUG 26	12.47
NOV 29	9.40	JAN 29	9.03	MAR 28	9.01	MAY 25	9.58	JUL 31	12.51	SEP 27	12.89
WTR YR 1991	HIGH	8.14	APR 29	LOW	12.89	SEP 27					



GROUND-WATER LEVELS

WALDO COUNTY

443407069020901. Local number, WOW 82.

LOCATION.--Lat 44X34'07", long 69X02'09", Hydrologic Unit 01020005, about 3.5 mi southwest of Monroe. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 33 ft, screened depth 28 to 33 ft, screen slot size 0.006 in.

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

DATUM.--Elevation of land-surface datum is 315 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.62 ft above land-surface datum.

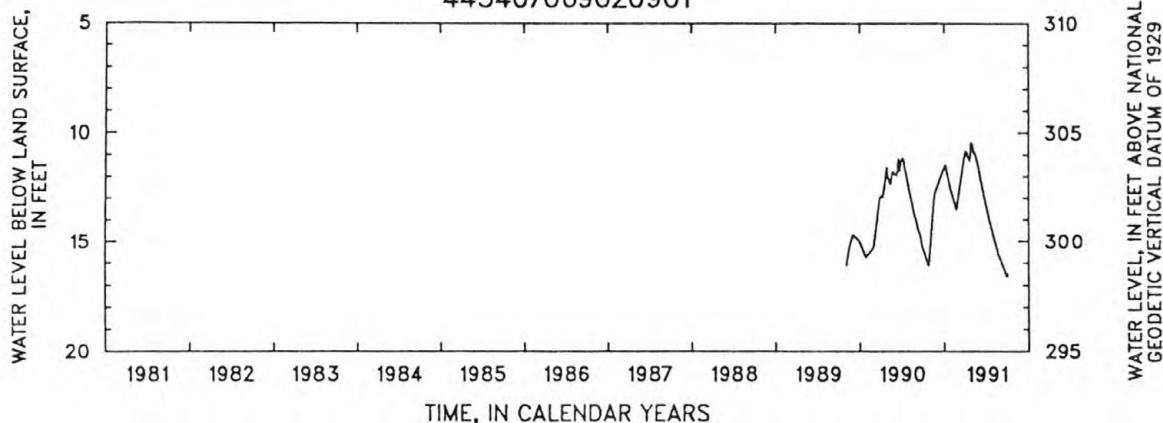
REMARKS.--Record lost between Oct. 26 and Mar. 27 because field computer malfunctioned.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.55 ft below land-surface datum, May 01, 1991; lowest measured, 16.61 ft below land-surface datum, Sept. 27, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.36	---	---	---	---	---	10.84	10.55	11.84	13.44	14.82	15.89
2	15.39	---	---	---	---	---	10.83	10.58	11.90	13.50	14.86	15.94
3	15.43	---	---	---	---	---	10.87	10.63	11.95	13.56	14.91	15.96
4	15.45	---	---	e11.46	---	---	10.88	10.71	12.02	13.61	14.96	15.98
5	15.49	---	---	---	---	---	10.88	10.79	12.07	13.67	14.99	16.01
6	15.53	---	---	---	---	---	10.89	10.83	12.14	13.70	15.04	16.04
7	15.58	---	---	---	---	---	10.92	10.87	12.19	13.74	15.08	16.07
8	15.62	---	---	---	---	---	10.94	10.91	12.24	13.78	15.10	16.09
9	15.63	---	---	---	---	---	10.96	10.92	12.30	13.83	15.15	16.13
10	15.66	---	---	---	---	---	10.99	10.91	12.35	13.89	15.19	16.14
11	15.70	---	---	---	---	---	11.03	10.91	12.40	13.93	15.23	16.17
12	15.73	---	---	---	---	---	11.08	10.89	12.44	13.98	15.26	16.22
13	15.78	---	---	---	---	---	11.09	10.92	12.51	14.03	15.30	16.23
14	15.81	---	---	---	---	---	11.10	10.97	12.57	14.07	15.33	16.25
15	15.85	---	---	---	---	---	11.09	11.02	12.63	14.12	15.37	16.28
16	15.88	---	---	---	---	---	11.12	11.04	12.68	14.16	15.41	16.32
17	15.90	---	---	---	---	---	11.16	11.07	12.74	14.19	15.45	16.34
18	15.92	---	---	---	---	---	11.21	11.14	12.79	14.23	15.48	16.38
19	15.93	---	---	---	---	---	11.23	11.19	12.85	14.28	15.52	16.40
20	16.02	e12.82	---	---	e13.54	---	11.27	11.25	12.88	14.33	15.58	16.42
21	16.05	---	---	---	---	---	11.27	11.27	12.95	14.36	15.60	16.46
22	16.07	---	---	---	---	---	11.18	11.32	13.00	14.40	15.62	16.49
23	16.10	---	---	---	---	---	10.96	11.37	13.06	14.44	15.65	16.52
24	16.10	---	---	---	---	---	10.71	11.39	13.11	14.49	15.70	16.54
25	16.10	---	---	---	---	---	10.57	11.46	13.16	14.54	15.72	16.55
26	---	---	e11.66	---	---	---	10.48	11.53	13.20	14.59	15.73	16.58
27	---	---	---	---	---	---	10.45	11.58	13.24	14.61	15.75	16.61
28	---	---	---	e12.61	---	11.14	10.47	11.62	13.27	14.66	15.79	16.60
29	---	---	---	---	---	11.04	10.50	11.69	13.33	14.71	15.81	16.54
30	---	---	---	---	---	10.95	10.53	11.73	13.39	14.74	15.82	16.49
31	---	---	---	---	---	10.88	---	11.78	---	14.78	15.83	---
HIGH	---	---	---	---	---	---	10.45	10.55	11.84	13.44	14.82	15.89
LOW	---	---	---	---	---	---	11.27	11.78	13.39	14.78	15.83	16.61
WTR YR 1991	HIGH		10.45	LOW		16.61						
e Instantaneous water level												

WOW 82
443407069020901

GROUND-WATER LEVELS
WALDO COUNTY--Continued

175

442822069080901. Local number, WOW 84.

LOCATION.--Lat 44X28'22", long 69X08'09", Hydrologic Unit 01050002, about 2.25 mi northeast of Morrill. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 19 ft, screened depth 9 to 19 ft, screen slot size 0.006 in.

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

DATUM.--Elevation of land-surface datum is 342 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.95 ft above land-surface datum.

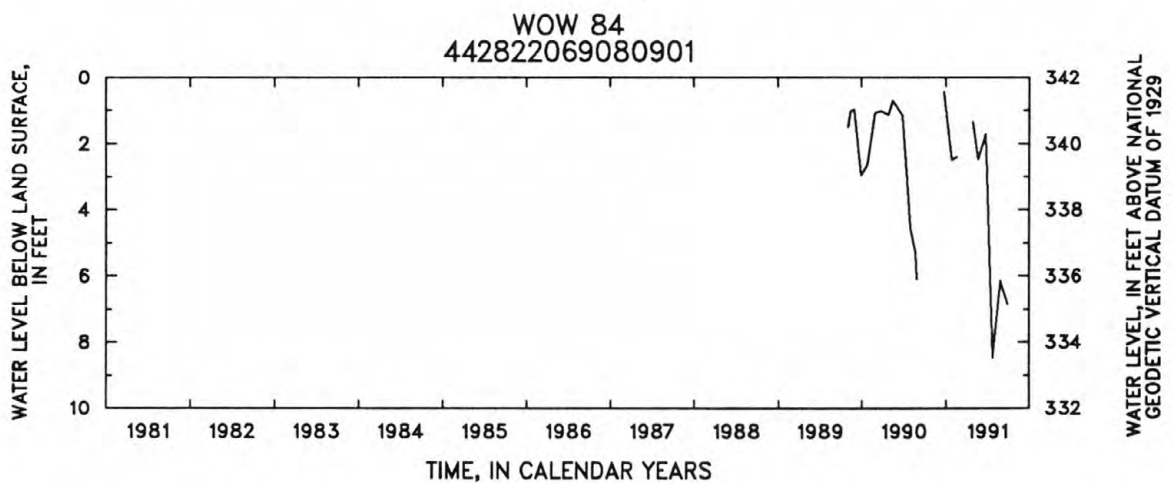
REMARKS.--Well also sampled for water quality.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.44 ft below land-surface datum, Dec. 26, 1990; lowest measured, 8.48 ft below land-surface datum, July 25, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	7.11	JAN 28	2.50	MAR 28	2	MAY 22	2.49	JUL 25	8.48	SEP 26	6.86
DEC 26	.44	FEB 20	2.41	APR 29	1.34	JUN 25	1.70	AUG 28	6.13		
WTR YR 1991	HIGH	.44	DEC 26	LOW	8.48	JUL 25					



GROUND-WATER LEVELS
WALDO COUNTY--Continued

442822069081301. Local number, WOW 85.

LOCATION.--Lat 44X28'22", long 69X08'13", Hydrologic Unit 01050002, about 2.25 mi northeast of Morrill. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 27 ft; screened depth 17 to 22 ft, screen slot size 0.008 in; screened depth 22 to 27 ft, screen slot size 0.006 in.

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

DATUM.--Elevation of land-surface datum is 334 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.06 ft above land-surface datum.

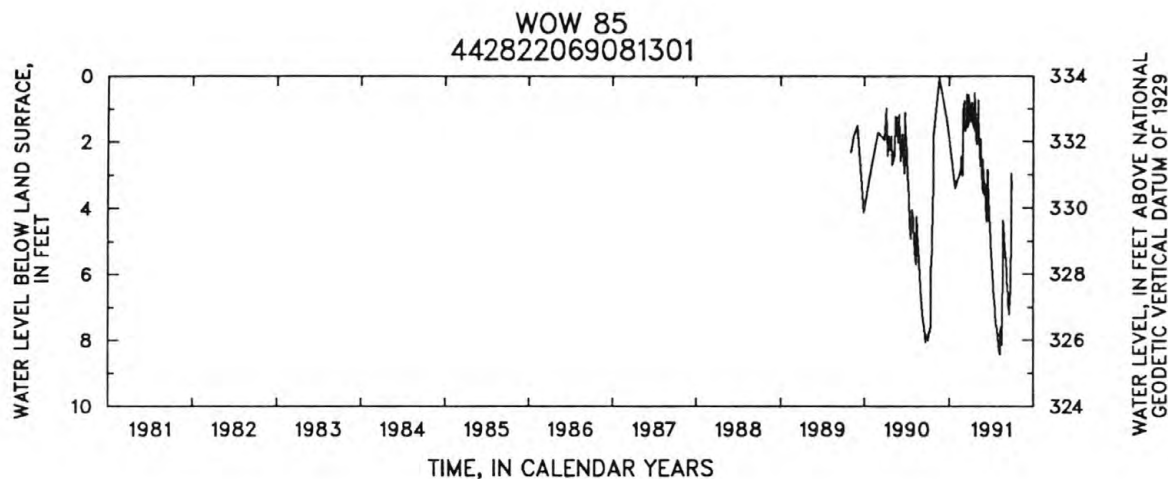
REMARKS.--Record lost between Oct. 26 and Feb. 19 because of field computer malfunction.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.05 ft below land-surface datum, Nov. 20, 1990; lowest measured, 8.45 ft below land-surface datum, Aug. 10, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.02	---	---	---	---	3.02	1.24	1.43	3.20	5.17	7.98	5.40
2	7.98	---	---	---	---	2.39	1.31	1.38	3.41	5.29	8.08	5.46
3	7.99	---	---	---	---	1.15	1.38	1.44	3.62	5.46	8.20	5.47
4	7.92	---	---	---	---	.85	1.33	1.64	3.55	5.59	8.29	5.54
5	7.88	---	---	---	---	.92	1.18	1.91	3.29	5.71	8.34	5.73
6	7.78	---	---	---	---	1.09	1.09	2.02	3.43	5.82	8.34	5.88
7	7.73	---	---	---	---	.76	.87	.73	3.65	5.93	8.32	5.99
8	7.75	---	---	---	---	1.00	.99	1.07	3.83	6.01	8.35	6.11
9	7.72	---	---	---	---	1.33	1.00	1.34	4.07	6.14	8.43	6.28
10	7.77	---	---	---	---	1.50	.82	1.58	4.16	6.25	8.45	6.31
11	7.70	---	---	---	---	1.62	.83	1.80	4.30	6.36	8.11	6.45
12	7.58	---	---	---	---	1.67	1.22	1.98	4.41	6.51	7.77	6.62
13	7.45	---	---	---	---	1.63	1.40	2.29	4.19	6.62	7.63	6.76
14	6.80	---	---	---	---	1.47	1.54	2.48	4.09	6.71	7.62	6.90
15	5.89	---	---	---	---	1.52	1.55	2.63	4.11	6.81	7.69	7.02
16	5.62	---	---	---	---	1.59	.96	2.74	3.49	6.87	7.83	7.06
17	5.49	---	---	---	---	1.50	1.08	2.75	2.86	6.91	7.96	7.09
18	5.38	---	---	---	---	1.31	1.30	1.93	2.91	7.02	8.08	7.20
19	5.06	---	---	---	---	.55	1.50	2.15	3.13	7.15	8.15	7.23
20	4.60	e.05	---	---	2.91	.83	1.66	2.41	3.32	7.27	7.33	7.08
21	4.43	---	---	---	2.78	1.17	1.16	2.64	3.58	7.39	5.78	6.78
22	4.37	---	---	---	2.49	1.39	.53	2.93	3.83	7.54	4.49	6.66
23	4.41	---	---	---	2.45	1.44	.85	3.12	4.03	7.57	4.37	6.57
24	2.85	---	---	---	2.53	1.37	1.05	3.18	4.17	7.56	4.55	6.62
25	1.86	---	---	---	2.68	1.55	1.26	3.38	4.34	7.60	4.70	6.39
26	---	---	e1.43	---	2.80	1.40	1.48	3.56	4.45	7.65	4.75	4.64
27	---	---	---	---	2.84	.93	1.71	3.01	4.60	7.68	4.84	2.98
28	---	---	---	e3.42	3.03	.58	1.93	2.54	4.72	7.72	5.01	3.13
29	---	---	---	---	---	.80	2.08	2.75	4.89	7.77	5.11	3.29
30	---	---	---	---	---	1.01	2.10	3.00	5.02	7.83	5.19	3.42
31	---	---	---	---	---	1.27	---	3.17	---	7.89	5.25	---
HIGH	---	---	---	---	---	.55	.53	.73	2.86	5.17	4.37	2.98
LOW	---	---	---	---	---	3.02	2.10	3.56	5.02	7.89	8.45	7.23
WTR YR 1991	HIGH		.05	LOW		8.45						
e Instantaneous water level												



WASHINGTON COUNTY

450713067162801. Local number, WW 796.

LOCATION.--Lat 45X07'13", long 67X16'28", Hydrologic Unit 01050001, in Calais, on Charlotte Road, about 2.25 mi south of U.S. Highway 1. Owner: U.S. Government (Moosehorn National Wildlife Refuge).

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., Sept. 1967 reported depth 150 ft, cased with steel to 21 ft, open hole, Nov. 1982 measured depth 146 ft.

INSTRUMENTATION.--Measurement with chalked tape by local observer twice a month.

DATUM.--Elevation of land-surface datum is 130 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum, which is 0.8 ft above the general land surface.

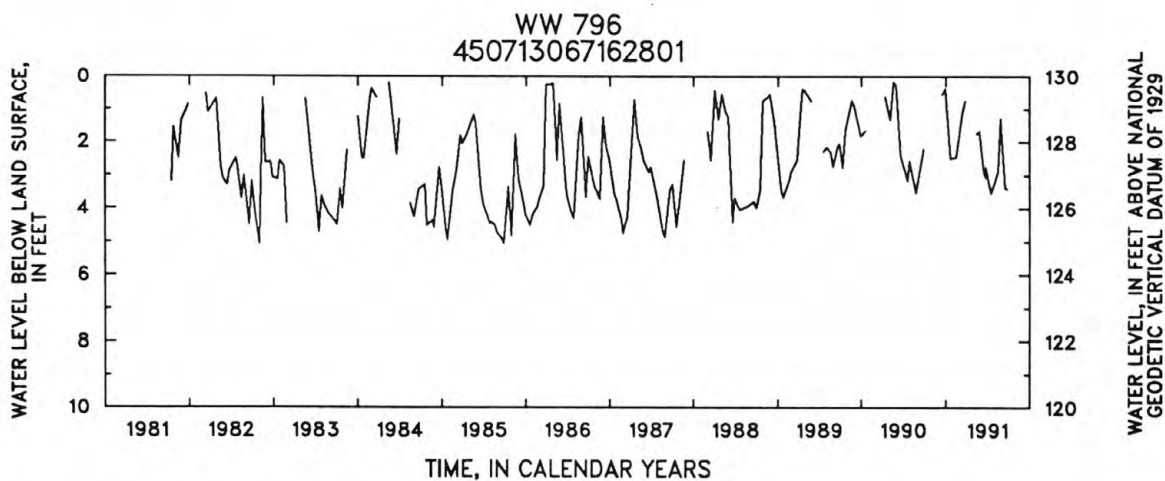
REMARKS.--No measurements made between January 17 and Apr. 14.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, overflowed Feb. 14, Sept. 25, and Dec. 16, 1981, Apr. 16, 1982, Mar. 20 and 26, Apr. 22 and 28, May 04, June 01, Dec. 14 and 15, 1983, Apr. 03, 15, and 28, 1984; lowest measured, 5.34 ft below land-surface datum, Sept. 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 17	.55	FEB 15	2.44	MAY 15	1.74	JUN 24	3.07	JUL 24	3.37	SEP 15	3.39
28	.37	MAR 17	1.06	28	1.66	25	2.76	AUG 16	2.90	25	3.42
JAN 23	2.49	27	.78	JUN 16	2.94	JUL 15	3.55	26	1.29		
WTR YR 1991	HIGH	.37	DEC 28	LOW	3.55	JUL 15					



GROUND-WATER LEVELS

WASHINGTON COUNTY--Continued

445227067520101. Local number, WW 797.

LOCATION.--Lat 44X52'27", long 67X52'01", Hydrologic Unit 01050002, about 0.35 mi south of State Highway 9 in Township T24MD, Hadley Lakes. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--A wash-bored observation well, diameter 2 in., Sept. 1985 measured depth 30 ft, screened depth 25 to 30 ft.

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

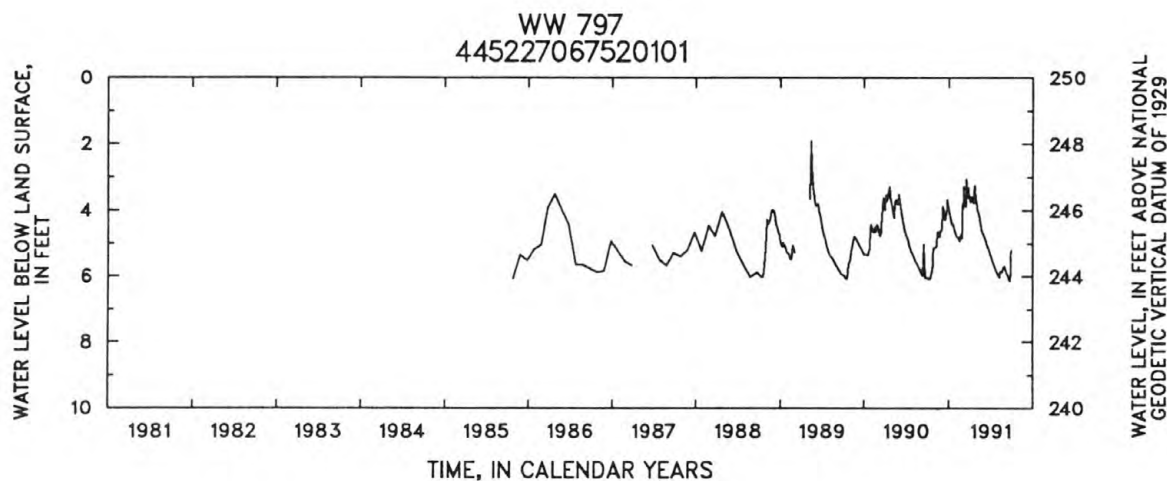
DATUM.--Elevation of land-surface datum is 250 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: V-notch on top of casing, north side of shelter, which is 3.42 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.84 ft below land-surface datum, May 14-15, 1989; lowest measured, 7.29 ft below land-surface datum, Aug. 19, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.04	5.13	4.58	3.91	4.69	4.84	3.56	3.69	4.70	5.33	5.93	5.72
2	6.04	5.13	4.58	3.93	4.72	4.53	3.63	3.74	4.73	5.35	5.95	5.75
3	6.04	5.13	4.60	3.97	4.73	3.80	3.67	3.78	4.75	5.38	5.96	5.77
4	6.06	5.13	4.54	4.02	4.75	3.92	3.71	3.86	4.77	5.40	5.98	5.80
5	6.07	5.12	4.02	4.06	4.78	3.94	3.73	3.93	4.79	5.42	5.99	5.82
6	6.07	5.13	3.88	4.09	4.79	3.95	3.75	3.98	4.81	5.44	5.99	5.84
7	6.07	5.13	3.87	4.13	4.80	3.56	3.75	4.00	4.84	5.46	5.99	5.86
8	6.07	5.12	3.90	4.18	4.80	3.26	3.69	4.00	4.84	5.48	6.01	5.88
9	6.07	5.11	3.94	4.19	4.80	3.45	3.68	4.02	4.87	5.51	6.02	5.90
10	6.08	5.09	3.99	4.22	4.81	3.57	3.65	4.05	4.89	5.53	6.03	5.92
11	6.08	4.95	4.05	4.28	4.82	3.66	3.59	4.07	4.91	5.56	5.94	5.93
12	6.08	4.74	4.10	4.29	4.83	3.74	3.58	4.09	4.94	5.58	5.87	5.95
13	6.08	4.66	4.15	4.32	4.83	3.82	3.59	4.13	4.96	5.60	5.85	5.97
14	6.08	4.64	4.20	4.36	4.84	3.85	3.62	4.18	5.00	5.62	5.85	5.99
15	6.05	4.63	4.24	4.39	4.86	3.82	3.65	4.23	5.02	5.64	5.85	6.00
16	6.00	4.63	4.26	4.43	4.87	3.87	3.68	4.28	5.04	5.66	5.85	6.02
17	5.94	4.67	4.27	4.41	4.89	3.89	3.72	4.31	5.07	5.67	5.86	6.04
18	5.92	4.71	4.29	4.38	4.91	3.87	3.75	4.36	5.10	5.69	5.87	6.06
19	5.89	4.74	4.22	4.38	4.92	3.33	3.77	4.40	5.12	5.71	5.89	6.08
20	5.87	4.77	4.15	4.40	4.92	3.07	3.79	4.43	5.13	5.73	5.89	6.10
21	5.82	4.79	4.10	4.44	4.84	3.19	3.78	4.47	5.13	5.74	5.89	6.11
22	5.77	4.79	4.06	4.44	4.80	3.33	3.43	4.50	5.14	5.77	5.85	6.12
23	5.73	4.80	4.04	4.49	4.71	3.43	3.27	4.55	5.17	5.78	5.80	6.13
24	5.68	4.80	3.95	4.50	4.72	3.50	3.25	4.58	5.19	5.79	5.76	6.14
25	5.46	4.77	3.73	4.53	4.76	3.59	3.27	4.61	5.20	5.82	5.73	6.12
26	5.29	4.69	3.66	4.56	4.80	3.62	3.35	4.66	5.22	5.84	5.72	5.87
27	5.21	4.63	3.67	4.58	4.80	3.57	3.40	4.68	5.24	5.85	5.71	5.51
28	5.17	4.60	3.72	4.61	4.82	3.33	3.49	4.68	5.26	5.86	5.70	5.31
29	5.14	4.58	3.76	4.63	---	3.30	3.56	4.68	5.28	5.88	5.69	5.22
30	5.14	4.58	3.79	4.64	---	3.39	3.63	4.69	5.31	5.90	5.69	5.20
31	5.13	---	3.85	4.66	---	3.50	---	4.69	---	5.91	5.69	---
HIGH	5.13	4.58	3.66	3.91	4.69	3.07	3.25	3.69	4.70	5.33	5.69	5.20
LOW	6.08	5.13	4.60	4.66	4.92	4.84	3.79	4.69	5.31	5.91	6.03	6.14
WTR YR 1991		HIGH	3.07	LOW	6.14							



444500068011601. Local number, WW 921.

LOCATION.--Lat 44X45'00", long 68X01'16", Hydrologic Unit 01050002, about 0.5 mi west of Deblois. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., Sept. 1987 measured depth 32 feet, screened 22 to 32 feet, screen slot size 0.006 in.

INSTRUMENTATION.--Measurement with chalked tape by local observer twice a month.

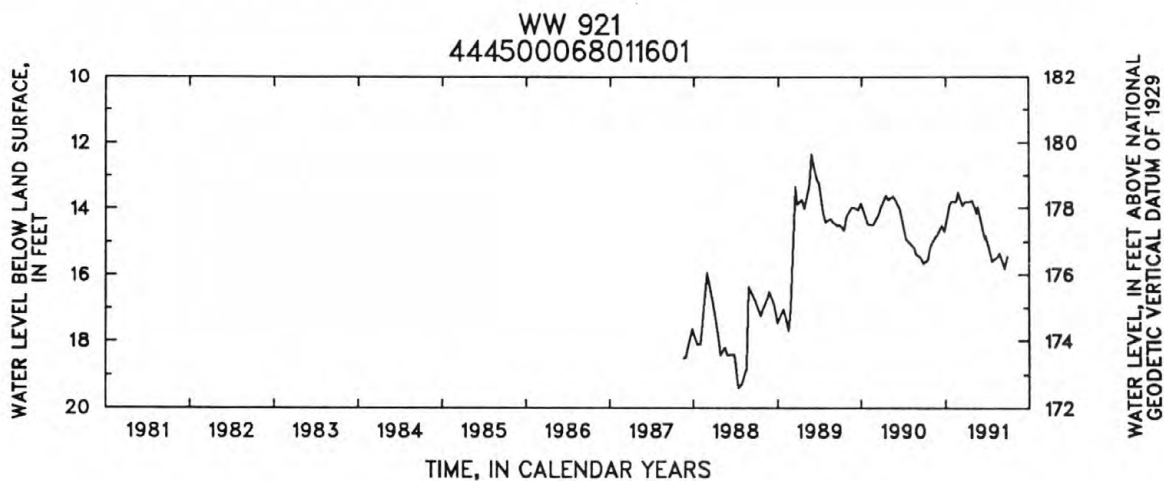
DATUM.--Elevation of land-surface datum is 192 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.61 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.35 ft below land-surface datum, May 29, 1989; lowest measured, 19.39 ft below land-surface datum, July 15, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	15.55	DEC 28	14.69	MAR 17	13.91	MAY 21	13.95	JUL 23	15.61		
28	15.15	JAN 18	13.87	26	13.80	JUN 16	14.76	AUG 16	15.45		
NOV 17	14.88	27	13.78	APR 15	13.80	24	14.94	25	15.36		
25	14.81	FEB 16	13.80	26	13.77	25	14.82	SEP 15	15.82		
DEC 16	14.53	26	13.52	MAY 15	14.16	JUL 15	15.40	28	15.45		
WTR YR 1991	HIGH	13.52	FEB 26	LOWEST	15.82	SEP 15					



GROUND-WATER LEVELS
WASHINGTON COUNTY--Continued

444526068013301. Local number, WW 922.

LOCATION.--Lat 44X45'26", long 68X01'53", Hydrologic Unit 01050002, about 1.0 mi north of Deblois. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., Sept. 1987 measured depth 42 feet, screened 25 to 40 feet, screen slot size 0.006 in.

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

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

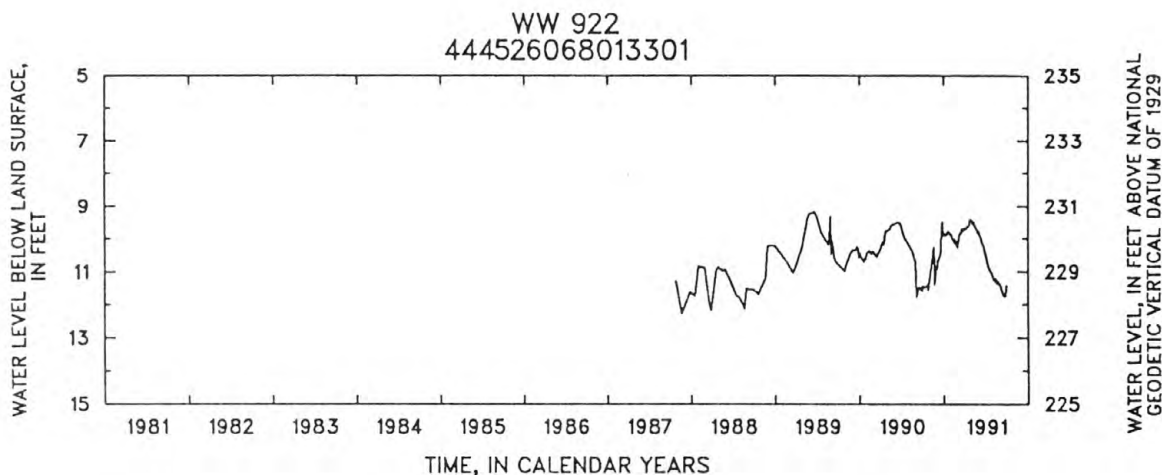
REMARKS.--Record lost between Oct. 26 and Nov. 19 because of recorder malfunction.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.18 ft below land-surface datum, June 18, 1989; lowest measured, 12.26 ft below land-surface datum, Nov. 19, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.46	---	10.89	9.84	9.90	10.26	9.70	9.46	9.80	10.54	11.18	11.43
2	11.46	---	10.91	9.84	9.92	10.22	9.70	9.46	9.83	10.58	11.21	11.46
3	11.47	---	10.92	9.84	9.89	10.16	9.70	9.47	9.87	10.62	11.24	11.46
4	11.48	---	10.88	9.86	9.93	10.11	9.70	9.48	9.88	10.66	11.26	11.48
5	11.46	---	10.73	9.87	9.95	10.06	9.69	9.51	9.90	10.69	11.25	11.50
6	11.45	---	10.67	9.85	9.99	10.03	9.69	9.54	9.91	10.71	11.24	11.54
7	11.46	---	10.67	9.89	10.02	10.00	9.69	9.50	9.94	10.74	11.24	11.58
8	11.48	---	10.64	9.89	10.02	9.91	9.67	9.49	9.95	10.76	11.26	11.59
9	11.49	---	10.63	9.90	10.02	9.88	9.67	9.50	9.98	10.79	11.29	11.61
10	11.48	---	10.60	9.90	10.02	9.87	9.65	9.52	10.00	10.81	11.28	11.63
11	11.48	---	10.60	9.90	10.03	9.84	9.64	9.54	10.03	10.84	11.21	11.64
12	11.47	---	10.59	9.86	10.08	9.82	9.63	9.55	10.08	10.87	11.21	11.66
13	11.46	---	10.57	9.82	10.12	9.81	9.63	9.58	10.10	10.90	11.22	11.68
14	11.45	---	10.56	9.82	10.10	9.80	9.63	9.61	10.13	10.90	11.25	11.70
15	11.45	---	10.58	9.82	10.02	9.80	9.62	9.64	10.14	10.91	11.29	11.71
16	11.45	---	10.49	9.84	10.02	9.81	9.61	9.64	10.16	10.93	11.31	11.71
17	11.46	---	10.43	9.79	10.08	9.81	9.60	9.66	10.16	10.96	11.34	11.72
18	11.45	---	10.38	9.77	10.13	9.83	9.59	9.67	10.16	10.97	11.36	11.73
19	11.43	---	10.34	9.78	10.14	9.77	9.58	9.67	10.18	10.98	11.38	11.75
20	11.44	10.26	10.11	9.78	10.08	9.69	9.57	9.67	10.20	10.99	11.31	11.72
21	11.45	10.86	9.88	9.80	10.10	9.72	9.56	9.69	10.23	11.00	11.30	11.71
22	11.43	11.36	9.72	9.81	10.11	9.74	9.46	9.71	10.26	11.01	11.29	11.73
23	11.44	11.39	9.68	9.82	10.15	9.75	9.44	9.73	10.30	11.03	11.30	11.73
24	11.37	11.22	9.50	9.79	10.19	9.73	9.42	9.74	10.33	11.03	11.33	11.75
25	11.57	11.11	9.51	9.81	10.18	9.73	9.42	9.77	10.37	11.05	11.35	11.71
26	---	11.08	9.76	9.84	10.18	9.74	9.42	9.82	10.40	11.08	11.38	11.57
27	---	11.01	9.85	9.85	10.24	9.74	9.43	9.79	10.43	11.08	11.38	11.46
28	---	10.93	9.89	9.84	10.25	9.68	9.44	9.75	10.45	11.09	11.38	11.44
29	---	10.88	9.85	9.84	---	9.66	9.45	9.76	10.47	11.11	11.38	11.45
30	---	10.87	9.82	9.87	---	9.66	9.46	9.77	10.50	11.13	11.40	11.45
31	---	---	9.81	9.85	---	9.70	---	9.79	---	11.17	11.41	---
HIGH	---	---	9.50	9.77	9.89	9.66	9.42	9.46	9.80	10.54	11.18	11.43
LOW	---	---	10.92	9.90	10.25	10.26	9.70	9.82	10.50	11.17	11.41	11.75
WTR YR 1991		HIGH	9.42	LOW	11.75							



YORK COUNTY

432310070393301. Local number, YW 807.

LOCATION.--Lat 43X23'10", long 70X39'33", Hydrologic Unit 01060003, about 4.5 mi southeast of South Sanford.

Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Wash-bored observation well, diameter 2 in., measured depth 39 ft, screened depth 34 to 39 feet, screen slot size 0.010 in.

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

DATUM.--Elevation of land-surface datum is 202 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

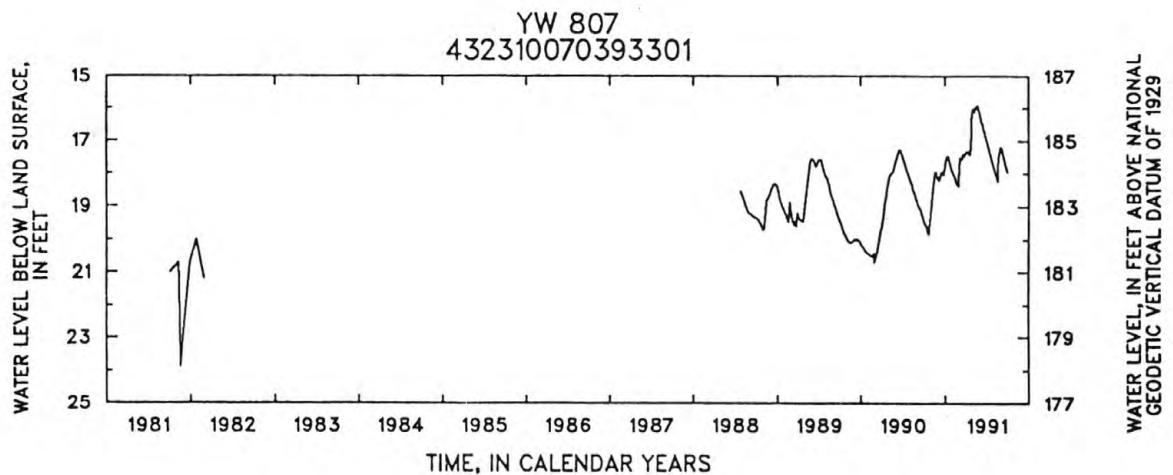
REMARKS.--Record lost between Oct. 24 and Nov. 14 because recorder malfunctioned.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.93 ft below land-surface datum, May 21 and 24, 1991; lowest measured, 20.69 ft below land-surface datum, Feb. 28, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.45	---	18.15	17.79	17.97	18.37	17.38	16.12	16.16	17.00	17.82	17.23
2	19.47	---	18.16	17.70	17.95	18.29	17.37	16.08	16.21	17.02	17.85	17.23
3	19.49	---	18.18	17.66	17.97	18.14	17.37	16.03	16.24	17.04	17.90	17.21
4	19.50	---	18.13	17.63	18.02	17.88	17.36	16.07	16.26	17.08	17.92	17.23
5	19.53	---	18.17	17.60	18.04	17.75	17.34	16.07	16.30	17.13	17.94	17.26
6	19.54	---	18.18	17.56	18.05	17.77	17.33	16.05	16.34	17.15	17.97	17.28
7	19.55	---	18.22	17.54	18.04	17.59	17.33	16.05	16.35	17.17	17.99	17.31
8	19.56	---	18.21	17.53	18.02	17.53	17.33	16.09	16.37	17.19	18.01	17.34
9	19.57	---	18.19	17.51	18.06	17.55	17.33	16.10	16.43	17.22	18.04	17.39
10	19.59	---	18.18	17.52	18.08	17.55	17.33	16.12	16.44	17.24	18.02	17.38
11	19.62	---	18.17	17.52	18.10	17.55	17.35	16.09	16.45	17.26	18.04	17.43
12	19.65	---	18.12	17.47	18.15	17.55	17.37	16.03	16.47	17.29	18.07	17.48
13	19.65	---	18.06	17.49	18.17	17.55	17.37	16.02	16.50	17.31	18.10	17.51
14	19.68	---	18.08	17.53	18.14	17.55	17.38	16.02	16.52	17.36	18.14	17.54
15	19.70	18.29	18.03	17.54	18.17	17.55	17.36	16.01	16.53	17.39	18.16	17.58
16	19.72	18.18	18.00	17.51	18.21	17.54	17.37	15.98	16.57	17.42	18.19	17.59
17	19.75	18.10	18.00	17.51	18.24	17.54	17.40	15.97	16.62	17.43	18.21	17.62
18	19.76	18.04	17.96	17.56	18.26	17.53	17.41	15.98	16.66	17.46	18.24	17.67
19	19.77	18.00	17.99	17.59	18.26	17.43	17.43	15.97	16.68	17.48	18.12	17.70
20	19.80	17.98	18.02	17.58	18.28	17.44	17.43	15.96	16.69	17.51	17.70	17.73
21	19.82	17.98	17.99	17.63	18.33	17.46	17.38	15.93	16.72	17.54	17.63	17.76
22	19.82	17.97	17.96	17.68	18.31	17.47	17.33	15.96	16.74	17.57	17.56	17.79
23	19.84	17.96	17.95	17.71	18.30	17.46	17.22	15.98	16.77	17.58	17.48	17.82
24	---	17.99	17.95	17.71	18.28	17.43	17.03	15.93	16.79	17.64	17.42	17.86
25	---	18.02	18.02	17.79	18.29	17.47	16.81	15.97	16.85	17.66	17.38	17.86
26	---	18.08	18.02	17.79	18.30	17.48	16.60	16.03	16.87	17.68	17.31	17.86
27	---	18.09	18.05	17.80	18.32	17.45	16.45	16.04	16.89	17.71	17.27	17.90
28	---	18.10	18.00	17.83	18.36	17.41	16.33	16.05	16.90	17.73	17.25	17.93
29	---	18.14	17.95	17.88	---	17.41	16.24	16.07	16.94	17.76	17.24	17.95
30	---	18.16	17.89	17.86	---	17.41	16.16	16.10	16.97	17.78	17.20	17.96
31	---	---	17.87	17.90	---	17.41	---	16.12	---	17.80	17.20	---
HIGH	---	---	17.87	17.47	17.95	17.41	16.16	15.93	16.16	17.00	17.20	17.21
LOW	---	---	18.22	17.90	18.36	18.37	17.43	16.12	16.97	17.80	18.24	17.96
WTR YR 1991		HIGH	15.93	LOW	19.84							



GROUND-WATER LEVELS
YORK COUNTY--Continued

432611070404601. Local number, YW 834.

LOCATION.--Lat 43X26'11", long 70X40'46", Hydrologic Unit 01060003, about 3.5 mi northeast of South Sanford.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel.

WELL CHARACTERISTICS.--Wash-bored observation water-table well, diameter 2 in., depth 17 ft, screened depth 7 to 17 ft, screen slot size 0.006 in.

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

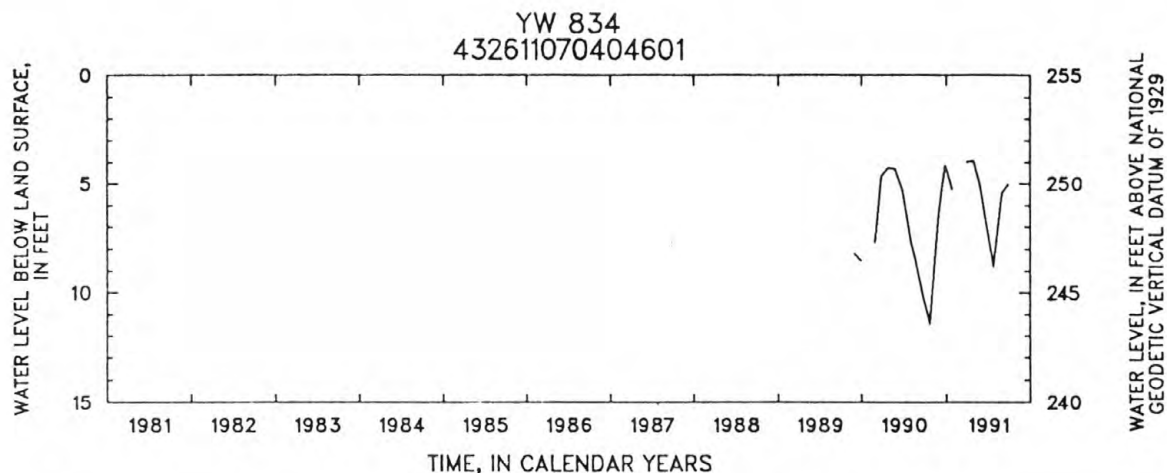
DATUM.--Elevation of land-surface datum is 255 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.65 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.93 ft below land-surface datum, Apr. 30, 1991; lowest measured, 11.41 ft below land-surface datum, Oct. 23, 1990.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	11.41	DEC 27	4.17	JAN 29	5.27	APR 30	3.93	JUN 27	7.05	AUG 29	5.45
NOV 29	6.37	JAN 04	4.40	APR 02	3.98	MAY 29	5.04	JUL 24	8.79	SEP 27	5.02
WTR YR 1991		HIGH	3.93	APR 30		LOW	11.41	OCT 23			



QUANTITY OF PRECIPITATION

183

441852071033101 WILD RIVER PRECIPITATION AT BEANS PURCHASE, NH

(Hydrologic bench-mark station)

LOCATION.--Lat 44°18'52", long 71°03'33", Coos County, Hydrologic Unit 01040002, in an old log landing opposite the Shelburne Trailhead, 250 ft east of Wild River Road and 7.8 miles by road from Wild River at Gilead, ME gage (01054200).

PERIOD OF RECORD.--October 30, 1990 to September 30, 1991.

INSTRUMENTATION.--Standard 8-in. diameter, weighing bucket raingage with 20 in. capacity and protected with an alter windshield. Potentiometer output is recorded on a data logger.

REMARKS.--Gage is operated in conjunction with streamflow gage 01054200, Wild River at Gilead, ME. Satellite precipitation telemeter at station since July 2, 1991.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0
2	---	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
3	---	.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0
4	---	.1	2.5	.0	.0	1.1	.0	.0	.5	.0	.9	.0
5	---	.0	.0	.0	.0	.1	.0	.0	.2	.0	.6	.0
6	---	1.2	.0	.0	.0	.0	.1	1.0	.0	.0	.0	.0
7	---	.0	.0	.0	.0	1.3	.0	.1	.0	.0	.0	.0
8	---	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
9	---	.0	.0	.0	.0	.0	.2	.0	.0	.1	.5	.0
10	---	1.8	.1	.0	.0	.0	.1	.0	.0	.0	3.1	.2
11	---	.2	.0	.0	.0	.0	.2	.0	.0	.0	.1	.3
12	---	.2	.0	1.1	.0	.0	.0	.0	.0	.0	.1	.0
13	---	.1	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0
14	---	.0	.0	.0	.6	.0	.0	.0	.0	.2	.0	.0
15	---	.0	.4	.0	.1	.0	.2	.0	.0	.1	.0	.2
16	---	.0	.5	.4	.1	.0	.0	.0	.3	.0	.0	.0
17	---	.1	.0	.2	.0	.0	.0	.2	.1	.0	.0	.2
18	---	.0	.2	.2	.0	.5	.0	.1	.0	.0	.0	.0
19	---	.0	.1	.0	.0	.5	.0	.0	.0	.0	5.1	.5
20	---	.0	.0	.0	.2	.0	.0	.0	.0	.0	.1	.1
21	---	.0	.3	.0	.0	.0	2.3	.0	.0	.0	.6	.0
22	---	.0	.1	.0	.2	.0	1.4	.0	.0	.0	.1	.0
23	---	.1	.4	.0	.0	.6	.0	.0	.0	.2	.0	.0
24	---	.0	.9	.0	.0	.3	.0	.3	.0	.0	.0	.0
25	---	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
26	---	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.7
27	---	.0	.0	.0	.0	.3	.0	.1	.0	.0	.0	.1
28	---	.0	.1	.0	.0	.1	.0	.1	.0	.0	1.3	.0
29	---	.1	.2	.0	---	.0	.0	.0	.3	.0	.0	.1
30	.0	.0	.0	.1	---	.0	.5	.0	.0	.0	.0	.0
31	.0	---	.1	.3	---	.0	---	.6	---	.0	.8	---
TOTAL	---	3.9	6.4	2.4	1.2	5.3	5.0	2.7	1.4	1.2	13.4	3.5

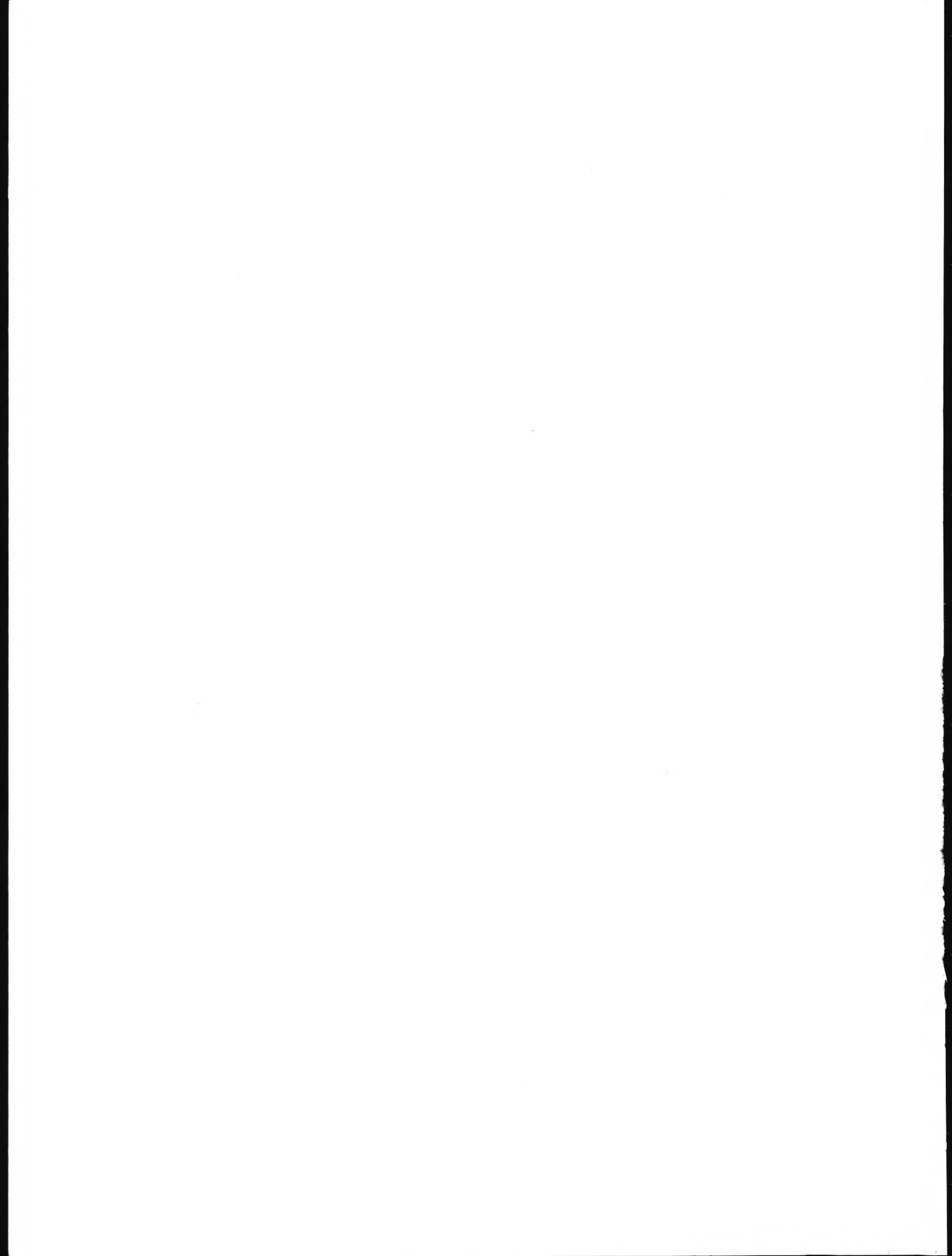
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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

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

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