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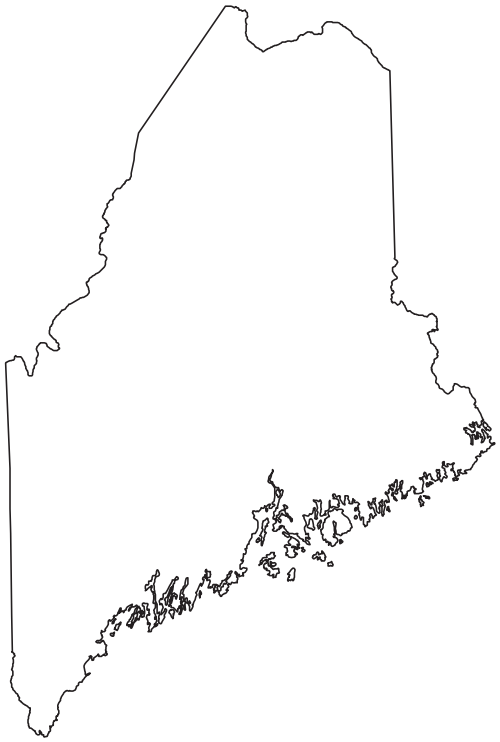
Water Resources Data
Maine
Water Year 2003

By G.J. Stewart, J.M. Caldwell, and A.R. Cloutier

Water-Data Report ME-03-1



**Prepared in cooperation with the
State of Maine and with other agencies**

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PREFACE

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

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

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The Water Resources Division of the U.S. Geological Survey, in cooperation with State, Federal, and other local governmental agencies, obtains a large amount of data pertaining to the water resources of Maine each year. These data, accumulated during the many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State.

Water-resources data for the 2002 water year for Maine consists of records of stage, discharge, ground water levels, water quality of streams and ground-water wells, precipitation quantity, and snow quantity,. This report contains discharge records for: 5 gage-height stations, 61 discharge gaging stations, stream water-quality data for 2 stations, water levels for 19 ground-water wells, water-quality data for 2 ground-water well, precipitation quantity data for 12 stations, and snow quantity data for 82 stations. Additional water data were collected at other sites, not part of the systematic data-collection program, and are published as special study and miscellaneous record sections.

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NOTE: Data for partial-record and special-study stations for both surface-water discharge and quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letters after station name designate type of data collected: (d) discharge, (c) chemical, (b) biological, (e) minor element, (n) nutrient, (m) continuous water-quality monitor, (g) gage height or elevation.]

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

NOTE: Data for partial-record and special-study stations for both ground-water level and quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letters after station name designate type of data collected:(l) water level, (c) chemical, (e) minor element, (n) nutrient]

PRECIPITATION STATIONS FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

DISCONTINUED SURFACE-WATER DISCHARGE OR GAGE-HEIGHT STATIONS

The following continuous- or partial-record surface-water discharge or gage-height stations in Maine have been discontinued. Daily or partial streamflow records or gage-heights were collected and published for the period of record shown for each station.

[Letters after station name designate type of data collected: (d) discharge, (g) gage height or elevation, (c) crest-stage partial record]

Station Name	Station Number	Drainage Area (mi^2)	Period of Record (Water Year)
St. John River basin			
Shields Branch Big Black River near Seven Islands, ME (d)	01010100	158	1977-1980
St. John River above Fish River at Fort Kent, ME (d)	01012500	4,764	1906-1915
Clayton Stream at outlet of Clayton Lake, ME (d)	01012515	13.0	1982-1984
Bald Mountain Brook near Bald Mountain, ME (d)	01012520	1.69	1981-1984
Bishop Mountain Brook near Bishop Mountain, ME (d)	01012525	1.04	1982-1984
Fish River at inlet of Fish River Lake, ME (d)	01012570	70.3	1982-1984
Factory Brook near Madawaska, ME (c)	01014700	5.83	1964-1974
St. John River at Van Buren, ME (d)	01015000	8,174	1908-1928
Houlton Brook near Oxbow, ME (c)	01015700	5.08	1964-1974
Machias River near Ashland, ME (d)	01016500	329	1951-1983
Nichols Brook near Caribou, ME (c)	01017300	3.94	1964-1974
Aroostook River at Fort Fairfield, ME (d)	01017500	2,301	1904-1910
Marley Brook near Ludlow, ME (d)	01017900	1.47	1964-1982
Meduxnekeag River near Houlton, ME (d)	01018000	175	1941-1982
St. Croix River basin			
St. Croix River near Baileyville, ME (d) [b]	01020000	1,315	1920-1983
Wiggins Brook basin			
Wiggins Brook near West Lubec, ME (c)	01021300	5.04	1965-1974
Machias River basin			
Black Brook near Northfield (d)	01021466	1.59	2000-2001
Middle River near Machias, ME (c)	01021600	8.32	1965-1974
East Machias River near East Machias, ME (d)	01022000	251	1927-1958
Pleasant River basin			
Taylor Brook at the Great Heath, ME (d)	01022250	7.06	1980-1982
Forbes Pond Brook basin			
Forbes Pond Brook near Prospect Harbor, ME (c)	01022700	8.78	1965-1974
Northeast Creek basin			
Old Mill Brook at Old Norway Drive near Bar Harbor, ME (d)	01022800	1.55	1999-2000
Union River basin			
West Branch Union River at Amherst, ME (d)	01023000	148	1910-1919
			1929-1979
Garland Brook near Mariaville, ME (d)	01024200	9.79	1964-1982
Green Lake Stream at Lakewood, ME (d)	01025000	[a]47.0	1910-1911
			1913-1913
Branch Lake Stream near Ellsworth, ME (d)	01026000	[a]31.0	1910-1913
Frost Pond Brook basin			
Frost Pond Brook near Sedgwick, ME (c)	01026800	5.68	1965-1974
Penobscot River basin			
West Branch Penobscot River near Medway, ME (d)	01028000	[a]2,115	1917-1940
Penobscot River near Mattawamkeag, ME (d)[b]	01030000	3,356	1940-1991
Trout Brook near Danforth, ME (c)	01030300	4.39	1964-1973
Gulliver Brook near Monarda, ME (c)	01030400	11.0	1964-1974
Mattawamkeag River at Mattawamkeag, ME (d)	01031000	1,507	1903-1934

DISCONTINUED SURFACE-WATER DISCHARGE OR GAGE-HEIGHT STATIONS--Continued

Station Name	Station Number	Drainage Area (mi^2)	Period of Record (Water Year)
Penobscot River basin--Continued			
Morrison Brook near Sebec Corners, ME (d)	01031600	4.35	1964-1978
Sebec River at Sebec, ME (d)	01033000	326	1925-1982
			1985-1993
Pleasant River near Milo, ME (d)	01033500	323	1920-1979
Coffin Brook near Lee, ME (c)	01034900	2.21	1964-1974
Passadumkeag River at Lowell, ME (d)	01035000	297	1916-1979
Cold Stream at Enfield, ME (d)	01035500	[a]28.5	1904-1907
Penobscot River at Passadumkeag, ME (d)	01036000	[a]7,000	1939-1958
Penobscot River at Eddington, ME (d)	01036390	7,764	1979-1996
Kenduskeag Stream near Kenduskeag, ME (d)	01036500	176	1942-1979
Kenduskeag Stream near Bangor, ME (d)	01037000	[a]195	1909-1919
Shaw Brook[c] near Northern Maine Junction, ME (c)	01037200	3.06	1964-1974
Goose River basin			
Goose River at Rockport, ME (c)	01037430	8.32	1964-1974
Damariscotta River basin			
Tributary A, Little Pond near Damariscotta (d)	01037700	0.31	1977-1978
Kennebec River basin			
Moose River near Rockwood, ME (d)	01039000	[a]708	1920-1925
Moosehead Lake at East Outlet, ME (g)	01040500	1,268	1895-1994
Kennebec River at Moosehead, ME (d)	01041000	1,268	1920-1982
Mountain Brook near Lake Parlin, ME (c)	01041900	3.91	1964-1974
Dead River near Dead River, ME (d)	01043500	516	1940-1982
Dead River at The Forks, ME (d)	01045000	867	1901-1907
			1911-1979
Austin Stream at Bingham, ME (d)	01046000	90.0	1932-1969
South Branch Carrabassett River at Bigelow, ME (c)	01046800	14.2	1964-1974
Sandy River near Farmington, ME (d)	01047500	242	1911-1915
Wilson Stream at East Wilton, ME (d)	01047730	45.8	1977-1984
Pelton Brook near Anson, ME (c)	01048100	14.1	1965-1974
Kennebec River at Waterville, ME (d)[b]	01048500	4,228	1893-1935
Hall Brook at Thorndike, ME (c)	01049100	5.23	1964-1974
Johnson Brook at South Albion, ME (d)	01049130	2.92	1980-1991
Kennebec River near Waterville, ME (d)	01049205	5,179	1993-2000
Cold Brook near North Belgrade, ME (d)	01049218	0.85	1978-1979
Hatchery Brook at North Belgrade, ME (d)	01049221	8.83	1978-1979
Stony Brook near South Vassalboro, ME (d)	01049270	2.99	1979-1980
North Branch Tanning Brook near Manchester, ME (d)	01049300	0.93	1964-1983
Mill Stream at Winthrop, ME (d)	01049373	32.7	1978-1992
Jock Stream at South Monmouth, ME (d)	01049396	13.7	1978-1983
Cobbosseecontee Lake at East Winthrop, ME (g)	01049400	131	1975-1992
Togus Stream at Togus, ME (d)	01049550	23.7	1982-1995
Gardiner Pond Brook at Dresden Mills, ME (c)	01049700	8.19	1965-1974
Androscoggin River basin			
Four Ponds Brook near Houghton, ME (c)	01050900	3.41	1964-1974
Bog Brook near Buckfield, ME (c)	01055300	10.5	1964-1974

DISCONTINUED SURFACE-WATER DISCHARGE OR GAGE-HEIGHT STATIONS--Continued

Station Name	Station Number	Drainage Area (mi^2)	Period of Record (Water Year)
Androscoggin River basin--Continued			
Pennesseewassee Lake Outlet at Norway, ME (d)	01057510	[a]30.3	1982-1983
Thompson Lake Outlet at Oxford, ME (d)	01058005	47.7	1975-1978, 1981-1983
Little Androscoggin River near Auburn, ME (d)	01058500	328	1941-1982
Hooper Brook at Sprague Mill, ME (d)	01059090	8.30	1978-1980
Sabattus River at Lisbon Center, ME (d)	01059160	72.5	1975-1977
Cathance River near Topsham, ME (d)	01059500	36.4	1953-1955
Presumpscot River basin			
Patte Brook near Bethel, ME (c)	01062700	5.35	1965-1974
Crooked River near Naples, ME (d)	01063100	150	1975-1977, 1995-2000
Standish Brook at Mouth, at Sebago Lake, ME (d)	01063452	0.52	1999-2000
Presumpscot River at Outlet of Sebago Lake, ME (d)	01064000	441	1887-2000
Presumpscot River at Westbrook, ME (d)[b]	01064118	577	1976-1995
Stroudwater River basin			
Stroudwater River at South Portland, ME (d)	01064158	27.6	1975-1977
Jones Creek basin			
Mill Brook near Old Orchard Beach, ME (c)	01064200	2.23	1965-1974
Saco River basin			
Ossipee River at Effingham Falls, NH (d)	01065000	330	1942-1990
Ossipee River at Cornish, ME (d)	01065500	452	1916-1996
Pease Brook near Cornish, ME (c)	01066100	4.62	1965-1974
Little Ossipee River near South Limington, ME (d)	01066500	168	1940-1982
Saco River at West Buxton, ME (d) [b]	01067000	1,572	1908-1916, 1919-1940
Saco River at Salmon Falls, ME (d)	01067500	1,593	1939-1948
Sandy Brook above landfill near Saco, ME (d)	01067851	1.28	1993-1994
Sandy Brook below landfill near Saco, ME (d)	01067853	1.42	1993-1994
Mousam River basin			
Littlefield River at Alfred, ME (d)	01068980	22.4	1978-1980
Mousam River near West Kennebunkport, ME (d)	01069500	99.0	1940-1984
Little River basin			
Branch Brook near Kennebunk, ME (c)	01069700	10.7	1965-1974
Webhannet River basin			
Blacksmith Brook at Wells, ME (d)	01069800	[a]2.48	1975-1976
Piscataqua River basin			
Salmon Falls River near South Lebanon, ME (d)	01072500	140	1929-1969

[a] Station not included in last systematic recomputation of drainage areas in Maine. Drainage area may conflict with other published information.
[b] Revisions to the maximum discharges for some periods at this site have been published in WDR ME-97-1.
[c] Station formerly published as Cold Brook near Northern Maine Junction, Maine

DISCONTINUED SURFACE-WATER QUALITY STATIONS

The following stations were discontinued as continuous-recording surface-water quality monitor 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 period of record shown for each station.

Discontinued continuous-recording surface-water quality monitor stations

Station Name	Station Number	Drainage Area (mi^2)	Type of Record	Period of Record (water year)
St. John River basin				
St. John River at Ninemile Bridge, ME	01010000	1,341	sc,wt	1976-80
St. John River at Dickey, ME	01010500	2,680	sc,wt	1975-80
			sd	1976
Allagash River near Allagash, ME	01011000	1,229	sc,wt	1975-80
			sd	1976
St. John River above Fish River at Ft. Kent, ME	01012500	4,764	sc,wt	1977-80
St. John River at Van Buren, ME	01015000	8,174	sc,wt	1979-81
St. John River near Hamlin, ME	01015010	8,236	sc,wt,do	1989-95
			pH	1989-94
Aroostook River at Caribou, ME	01017100	1,943	sc,wt	1976-81
St. Croix River basin				
St. Croix River at Baring, ME	01021000	1,374	wt	1960-76
Dennys River basin				
Dennys River at Dennysville, ME	01021200	92.9	wt	1959-72
Narraguagus River basin				
Narraguagus River at Cherryfield, ME	01022500	227	sc,wt	1978-81
Penobscot River basin				
Piscataquis River near Dover-Foxcroft, ME	01031500	298	wt	1987-89
Penobscot River at West Enfield, ME	01034500	6,671	wt	1966-78
			sc	1974-78
Penobscot River at Eddington, ME	01036390	7,764	sc,pH,wt,do	1979-94
Sheepscot River basin				
Sheepscot River at North Whitefield, ME	01038000	145	wt	1958-71
				1974-76
			sc	1974-76
Kennebec River basin				
Kennebec River at Bingham, ME	01046500	2,715	sc,wt	1976-78
Kennebec River at North Sidney, ME	01049265	5,403	sc,pH,wt,do	1979-94
Androscoggin River basin				
Wild River at Gilead, ME	01054200	69.6	wt	1964-83
				1992-93
Androscoggin River at Turner Bridge, ME	01055700	2,840	wt	1981, 1995
			sc,do	1995
Gulf Island Pond near Lewiston, ME	01056000	2,863	sc,wt,do	1981-95
Androscoggin River at North Bridge at Auburn, ME	01056600	2,907	wt,do	1988-95
Androscoggin River below Dressers Rips near Auburn, ME	01059010	3,263	sc,pH,wt,do	1988-95
Androscoggin River at Brunswick, ME	01059400	3,434	sc,wt	1981
Presumpscot River basin				
Presumpscot River near West Falmouth, ME	01064140	598	sc,pH,wt,do	1976-93
Presumpscot River at Presumpscot Falls near Falmouth, ME	01064149	641	sc,wt,do	1994-96
Saco River basin				
Saco River at Cornish, ME	01066000	1,293	sc,wt	1975-81

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

The following stations were discontinued as surface-water quality sampling stations. Samples were collected and analyzed for various record types for the period of record (in water years) and the number of samples shown.

There is a broad range of water-quality parameters available for most stations whose record exceeds more than a few years operation. Sampling schedules are often intermittent for certain types of data, with analyses available for some but not all years within a station's period of record. A description of the variety of data available is shown by grouping similar parameters into lettered record types. **Chemical data (c)** includes most of the "major ions," and may include some of the following physical properties: specific conductance, pH, temperature, color, turbidity, dissolved oxygen; **Minor element data (e)** comprises the "heavy metals" and some of the "alkaline earth" groups. Determinations usually include some but not all of the following: Al, As, Ba, Cd, Cr, Co, Cu, Hg, Li, Ni, Pb, Se, Sn, Sr, Zn; **Radiochemical data (r)** reports determinations of the concentrations of individual radioactive element, such as radium 226, cobalt 60, strontium 90, and tritium. This category also includes the gross measurement of radioactivity (alpha, beta, gamma) without regard to the radiochemical species that produce the radioactivity; **Pesticide data (p)** are organic compound (insecticides and herbicides) used to control insects and plants. Routinely, the analyses search for traces of between 12 to 22 compounds; **Organic data (o)** includes organic data (other than pesticides) such as OC, PCB, and PCN; **Nutrient data (n)** are constituents containing nitrogen or phosphorus. Results usually include several of the following: nitrite plus nitrate, phosphorus, ammonia nitrogen, organic nitrogen, ammonia nitrogen plus organic nitrogen (Kjeldahl method); **Biological data (b)** reports the identification and concentrations of microscopic plant organisms (phytoplankton, periphyton), or enteric bacteria (total coliform, fecal coliform or fecal streptococcal) living in aquatic habitats; and **Sediment data (s)** includes suspended-sediment concentration, suspended-sediment discharge, and particle-size data for discrete samples.

Discontinued surface-water quality sampling stations

Station Name	Station Number	Drainage Area (mi^2)	Type of Record	Period of Record and (number of samples)
St. John River basin				
St. John River at Ninemile Bridge, ME	01010000	1,341	c,e,n	1981 (5)
Big Black River near Seven Islands, ME	01010080	304	c,e,n	1981 (5)
Shields Branch Big Black River near Seven Islands, ME	01010100	158	c,e,n	1981 (5)
Little Black River near Dickey, ME	01010480	264	c,e,n	1981 (5)
St. John River at Dickey, ME	01010500	2,680	c,e,n	1952-53 (2), 1975 (2), 1981 (5)
Allagash River near Allagash, ME	01011000	1,229	c,e,n	1952-53 (2), 1975 (2), 1981 (5)
St. John River at Lincoln School, ME	01011400	4,014	c,e,n	1981 (5)
Fish River near Fort Kent, ME	01013500	873	c,e,n	1954 (2)
St. John River below Fish River, at Ft. Kent, ME	01014000	5,665	c,e,n	1954-55 (4)
St. John River at Van Buren, ME	01015000	8,174	c,e,o,n,b,s	1979-94 (105)
Aroostook River at Washburn, ME	01017000	1,654	c,e,n	1952-53 (3)
Aroostook River at Caribou, ME	01017100	1,943	c,e,p,o,n,b,s	1975-85 (111)
Aroostook River at Fort Fairfield, ME	01017500	2,301	c,e,n,b,s	1971 (1) 1986 (4)
St. Croix River basin				
St. Croix River at Vanceboro, ME	01018500	413	c,e,n	1955 (2)
Grand Lake Stream at Grand Lake Stream, ME	01019000	227	c,e,n	1954 (2)
St. Croix River near Baileyville, ME	01020000	1,315	c,e,r,p,n,b	1952-53 (2), 1972-74 (9)
St. Croix River at Baring, ME	01021000	1,374	e	1971 (1)
St. Croix River at Milltown, ME	01021050	1,455	c,e,r,p,o,n,b,s	1969-91 (132)
Machias River basin				
Machias River at Whitneyville, ME	01021500	457	c,e,n	1952-53 (2)
East Machias River near East Machias, ME	01022000	[a]251	c,e,n	1955 (2)
Narraguagus River basin				
Narraguagus River at Cherryfield, ME	01022500	227	c,e,o,n,b,s	1954 (2), 1978-86 (69)
Union River basin				
West Branch Union River at Amherst, ME	01023000	148	c,e,n	1954 (2)

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

Discontinued surface-water quality sampling stations-Continued

Station Name	Station Number	Drainage Area (mi^2)	Type of Record	Period of Record and (number of samples)
Penobscot River basin				
East Branch Penobscot River at Grindstone, ME	01029500	1,086	c,e,n	1952-53 (2)
Penobscot River near Mattawamkeag, ME	01030000	3,356	c,e,n	1954 (2)
Mattawamkeag River near Mattawamkeag, ME	01030500	1,418	c,e,n	1954 (2)
Piscataquis River near Dover Foxcroft, ME	01031500	298	c,e,n	1955 (2)
Sebec River at Sebec, ME	01033000	326	c,e,n	1954 (2)
Pleasant River near Milo, ME	01033500	323	c,e,n	1955 (2)
Piscataquis River at Medford, ME	01034000	1,162	c,e,n	1952-53 (2)
Penobscot River at West Enfield, ME	01034500	6,671	c,e,r,o,n,b,s	1952 (1), 1955 (2), 1961 (3), 1966-78 (151)
Passadumkeag River at Lowell, ME	01035000	297	c,e,n	1955 (2)
Penobscot River at Passadumkeag, ME	01036000	[a]7,000	c,e,n	1954 (2)
Penobscot River at Orono, ME	--------	7,710	e	1971 (1)
Penobscot River at Eddington, ME	01036390	7,764	c,e,r,o,n,b,s	1979-94 (87)
Kenduskeag Stream near Kenduskeag, ME	01036500	176	c,e,n	1955 (2)
Sheepscot River basin				
Sheepscot River at North Whitefield, ME	01038000	145	c,e,n	1955 (2)
Kennebec River basin				
Moosehead Lake at East Outlet, ME	01040500	1,268	c,e,n	1958 (2)
Kennebec River at the Forks, ME	01042500	1,590	c,e,n	1952-53 (2)
Dead River near Dead River, ME	01043500	516	c,e,n	1954-55 (2)
Dead River at the Forks, ME	01045000	876	c,e,n	1952-53 (2)
Austin Stream at Bingham, ME	01046000	90.0	c,e,n	1958 (2)
Kennebec River at Bingham, ME	01046500	2,715	c,e,r,o,n,b,s	1952-54 (3), 1966-78 (148)
Carrabassett River near North Anson, ME	01047000	353	c,e,n,r	1953-54 (2), 1961 (3)
Sandy River near Mercer, ME	01048000	516	c,e,n	1954 (2)
Kennebec River at Waterville, ME	01048500	4,228	e	1971 (1)
Sebasticook River near Pittsfield, ME	01049000	572	c,e,n	1952-53 (2)
Cobbosseecontee Stream at Gardiner, ME	01049500	217	c,e,n	1954-56 (3)
Kennebec River at Bath, ME	01059550	----	c,e,n	1957 (1)
Androscoggin River basin				
Diamond River near Wentworth Location, NH	01052500	152	c,e,n	1954 (2)
Androscoggin River at Errol, NH	01053500	1,046	c,e,n	1955 (1), 1958 (2)
Androscoggin River at Gilead, ME	01054250	1,525	c,e,r,p,n,b	1969-73 (15)

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

Discontinued surface-water quality sampling stations-Continued

Station Name	Station Number	Drainage Area (mi^2)	Type of Record	Period of Record and (number of samples)
Androscoggin River basin--Continued				
Androscoggin River at Rumford, ME	01054500	2,068	c,e,n	1953 (2)
Swift River at Roxbury, ME	01055000	96.9	c,e,n	1956 (1)
Androscoggin River at Jay, ME	01055100	2,488	c,e,r,p,o,n,b	1973-74 (6)
Nezinscot River at Turner Center, ME	01055500	169	c,e,n,r	1955 (2), 1961 (3)
Little Androscoggin River near South Paris, ME	01057000	75.8	c,e,n	1958 (5)
Little Androscoggin River near Auburn, ME	01058500	328	c,e,n,s	1953 (2)
Androscoggin River near Auburn, ME	01059000	3,263	c,e,o,n,b,s	1952 (1), 1954 (2), 1956 (1), 1966-75 (117)
Androscoggin River at Brunswick, ME	01059400	3,434	c,e,o,n,b,s	1976-93 (130), 1995 (3)
Presumpscot River basin				
Presumpscot River at Outlet of Sebago Lake, ME	01064000	441	c,e,n	1953 (2), 1971 (1)
Presumpscot River near West Falmouth, ME	01064140	598	c,e,o,n,b,s	1973-74 (12), 1976-95 (99)
Presumpscot River at Martin Point Bridge, ME	01064150	647	c,e,r,p,o,n,b	1969-73 (15)
Portland Harbor near Fish Point, ME	01064160	---	c,e,r,p,o,n,b	1969-73 (15)
Portland Harbor at Four River Bridge, ME	01064170	---	c,e,r,p,o,n,b	1969-74 (18)
Saco River basin				
Ossipee River at Cornish, ME	01065500	452	c,e,n	1954 (2)
Little Ossipee River near South Limington, ME	01066500	168	c,e,n	1954-55 (2)
Saco River at Cornish, ME	01066000	1,293	c,e,o,n,b,s	1954 (2), 1975-95 (174)
Saco River at Salmon Falls, ME	01067500	1,593	c,e,n	1953-55 (5)
Mousam River basin				
Mousam River near West Kennebunk, ME	01069500	99.0	c,e,n	1953 (2)
Piscataqua River basin				
Salmon Falls River near South Lebanon, ME	01072500	140	c,e,n	1954-55 (2), 1958 (5)

[a] Site not included in last systematic recomputation of drainage areas in Maine. Drainage area may conflict with other published information.

DISCONTINUED GROUND-WATER OBSERVATION WELLS

The following continuous-record ground-water observation wells in Maine have been discontinued. Records were collected and published for the period of record shown for each well.

Well Number	Local Number	County	Locality	Aquifer	Period of Record
440227070124101	ANW 1	Androscoggin	Auburn	Marine deposits - clay	1959-1976
440438070261601	ANW 986	"	Poland	Ice-contact deposits	1976-1983
440730070035303	ANW 988B	"	Sabattus	Ice-contact deposits	1976-1983
440730070035304	ANW 988C	"	Sabattus	Outwash	1976-1989
464619068280401	ARW 1	Aroostook	Portage Lake	Glacial till	1943-1983
464807068284401	ARW 1A	"	Portage Lake	Bedrock	1976-1991
455611068194601	ARW 2	"	Sherman Mills	Glacial till-bedrock	1943-1970 1975-1978
460657067512201	ARW 3	"	Houlton	Bedrock	1958-1975
460728067513201	ARW 61	"	Houlton	Ice-contact deposits	1980-1983
460855067552201	ARW 887	"	Ludlow	Glacial till	1976-1981
463642069344601	ARW 891	"	Clayton Lake	Seboomook Formation	1978-2000
464234068010401	ARW 895	"	Presque Isle	Ice-contact deposits	1986-2000
464018068010101	ARW 904	"	Presque Isle	Bedrock	1986-1987
464239067574401	ARW 905	"	Presque Isle	Bedrock	1986-1990
464303067592201	ARW 907	"	Presque Isle	Glacial Till	1986-1991
435902070171301	CW 1382	Cumberland	New Gloucester	Glacial Till	1989-2000
435653070201801	CW 1383	"	New Gloucester	Glacial sand and gravel	1981-1982 1989-2000
451128070280301	FW 893	Franklin	Eustis	Glacial sand and gravel	1985-2000
443831070002601	FW 901	"	New Sharon	Glacial Till	1987-2000
450539070301301	FW 908	"	Stratton	Glacial Till	1990-2000
444950068220601	HW 1	Hancock	Amherst	Glacial Till	1943-1991
441440068182701	HW 137	"	Southwest Harbor	Bedrock	1981-2000
442023069553801	KW 88	Kennebec	East Winthrop	Bedrock	1967-1983
441533069452401	KW 881	"	Augusta	Glacial Till	1987-2000
442233069490701	KW 882	"	Augusta	Glacial sand and gravel	1989-2000
444637070552301	OW 400	Oxford	Middle Dam	Glacial till	1944-1992
441507070310201	OW 413	"	South Paris	Outwash	1976-1978
440642070583401	OW 615	"	Fryeburg	Outwash	1978-1991
440642070583402	OW 615A	"	Fryeburg	Outwash	1989-2000
442515070481001	OW 616	"	Bethel	Outwash	1978-1989
442515070481002	OW 616A	"	Bethel	Outwash	1989-2000
444720068523001	PEW 33	Penobscot	Hermon	Bedrock	1958-1960
444953068424701	PEW 401	"	Veazie	Ice-contact deposits	1963-1967
451047068512201	PEW 455	"	Lagrange	Glacial till	1975-1983
451955068344501	PEW 457	"	South Lincoln	Ice-contact deposits	1982-1989
452829069322101	PIW 2	"	Greenville Junction	Glacial Till	1988-2000

DISCONTINUED GROUND-WATER OBSERVATION WELLS--Continued

Well Number	Local Number	County	Locality	Aquifer	Period of Record
444219069545801	SMW 1	Somerset	Mercer	Eolian deposits	1943-1983
450234069525701	SMW 48	"	Bingham	Ice-contact deposits	1981-1983
454105070170201	SMW 49	"	Dennistown	Glacial till	1981-1983
454105070170202	SMW 49A	"	Dennistown	Glacial till	1981-1983
442858068593201	WOW 78	Waldo	Belfast	Ice-contact deposits	1981-1983
442858068593202	WOW 79	"	Belfast	Ice-contact deposits	1981-1983
443407069020901	WOW 82	"	Monroe	Glacial sand and gravel	1989-2000
442822069080901	WOW 84	"	Morrill	Glacial till	1989-1991
444240067283501	WW 1	Washington	Machias	Bedrock	1958-1983
444950067000501	WW 2	"	Lubec	Terminal moraine deposits	1958-1983
443754067384401	WW 901	"	Carr Hill	Ice-contact deposits - till	1985-1988
444500068011601	WW 921	"	Deblois	Glacial till	1988-1991
444526068013301	WW 922	"	Deblois	Glacial till	1987-1999
434822070482501	YW 1	York	Cornish	Outwash	1943-1983
432611070404601	YW 834	"	South Sanford	Glacial sand and gravel	1989-1991

DISCONTINUED PRECIPITATION STATIONS

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

Station Name	Station Number	Period of Record (water year)
Wild River Precipitation at Beans Purchase, NH	441852071033101	1990-1994
Crooked River Precipitation near Naples, ME	01063100	2000
Shirley Precipitation near Lower Shirley Corner, ME	452031069352101	1997-2000

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; water levels and water quality of ground-water wells; precipitation quantity; and snow quantity. This volume contains records for water discharge at 64 gaging stations, gage-height at 5 gaging stations, water quality data at 2 gaging stations, water levels at 19 observation wells, precipitation totals for 14 sites, and snow quantity for 79 sites. Locations of these sites are shown on figures 1, 2, 3, and 4. Additional water data were collected at various sites not involved in the systematic data-collection program, and are published as special study 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 l968 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 groundwater 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-03-1." These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

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

Data published in these water-data reports is also available at the USGS homepage:

http://me.water.usgs.gov

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:

Lake Auburn Watershed Protection Commission
N. Lamie, General Manager, Auburn Water District
R.Burnham, Supervisor, Lewiston Water Division
Maine Atlantic Salmon Commission
Patrick Keliher, Executive Director
Maine Department of Conservation,
R. Lovaglio, Commissioner
Maine Department of Defense, Veterans and Emergency Management,
J.E. Tinkham II, Commissioner
Maine Department of Environmental Protection
Martha Kirkpatrick, Commissioner
Maine Department of Transportation,
J.G. Melrose, Commissioner
Passamaquoddy Tribe
Richard Doyle, Tribal Officer
Piscataquis County
E. DeWitt, Chair, County Commissioners
Town of Jay,
R.Marden, Town Manager
Town of Windham,
A.Plante, Town Manager
Town of Yarmouth
N. Tupper, Town Manager
University of Maine,
P. Hoff, President

Assistance with funds or services was given by the U.S. Department of State in collecting records for 2 gaging stations and 1 water-quality station.

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

MeadWestvaco Corp.
Consolidated Hydro Maine
FPL Energy - Maine
Domtar Incorporated
Kennebec Water Power Company
Penobscot Hydro
SAPPI Fine Paper

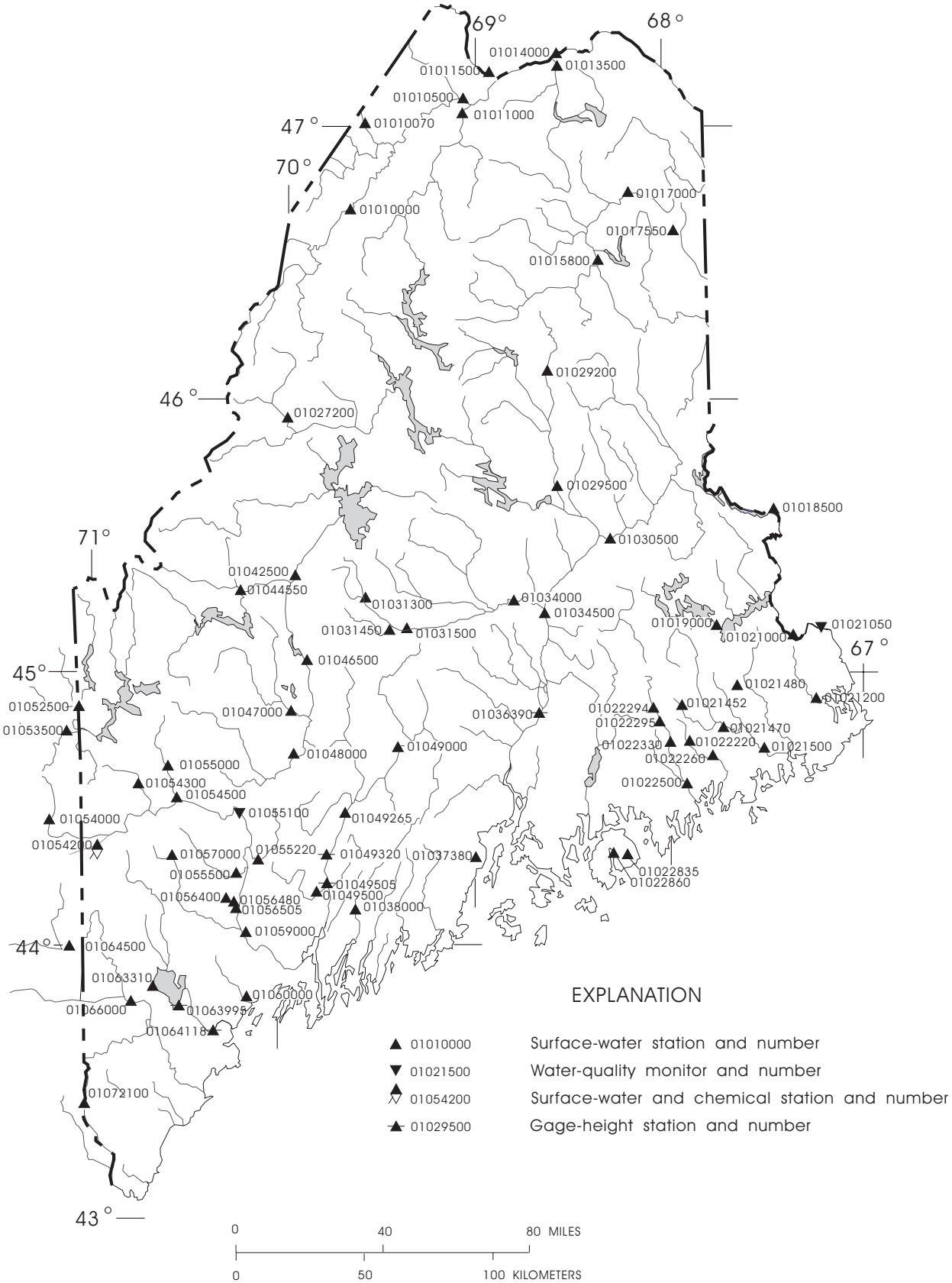


Figure 1. Location of active surface-water and water-quality gaging stations.

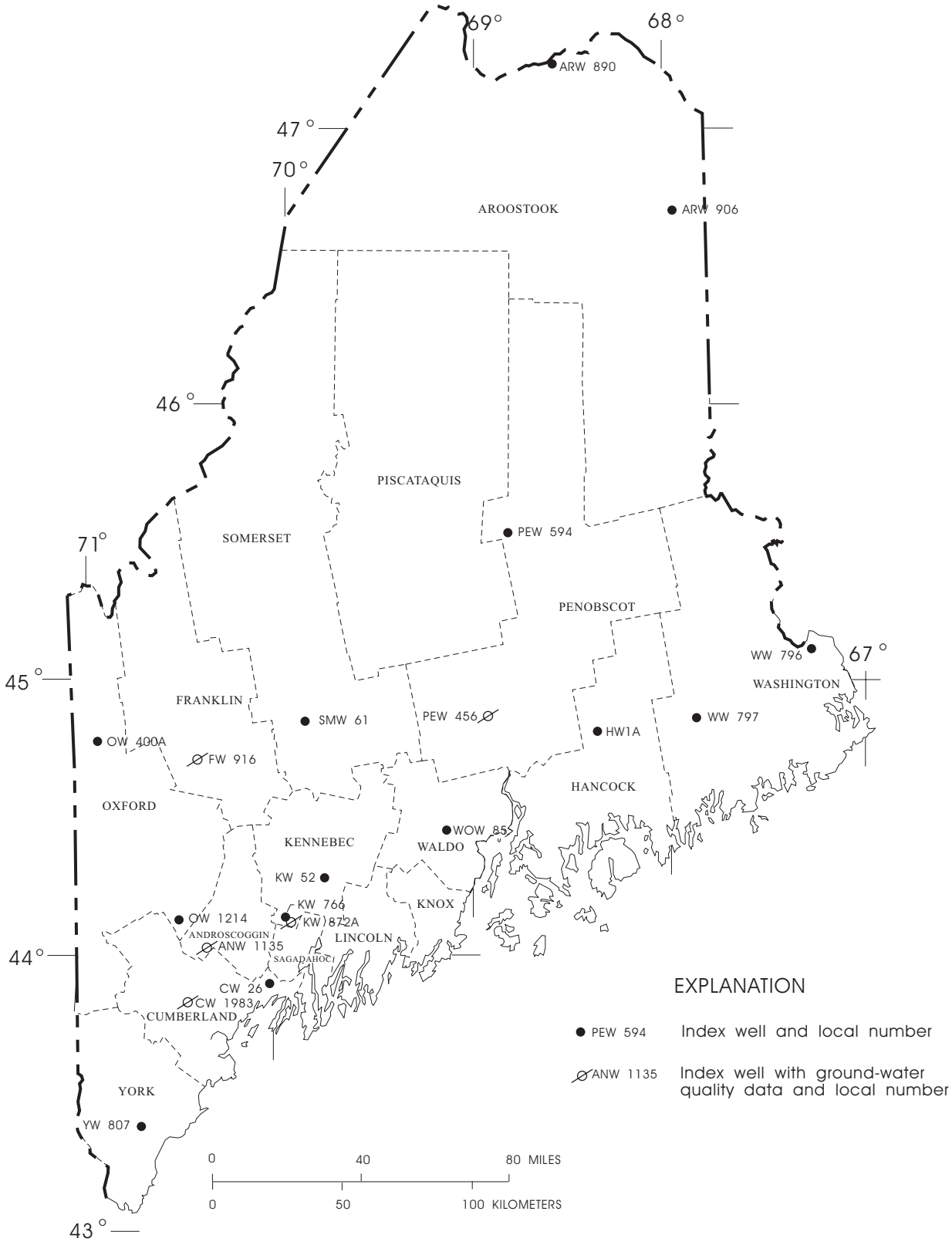


Figure 2. Location of active ground-water data collection stations.

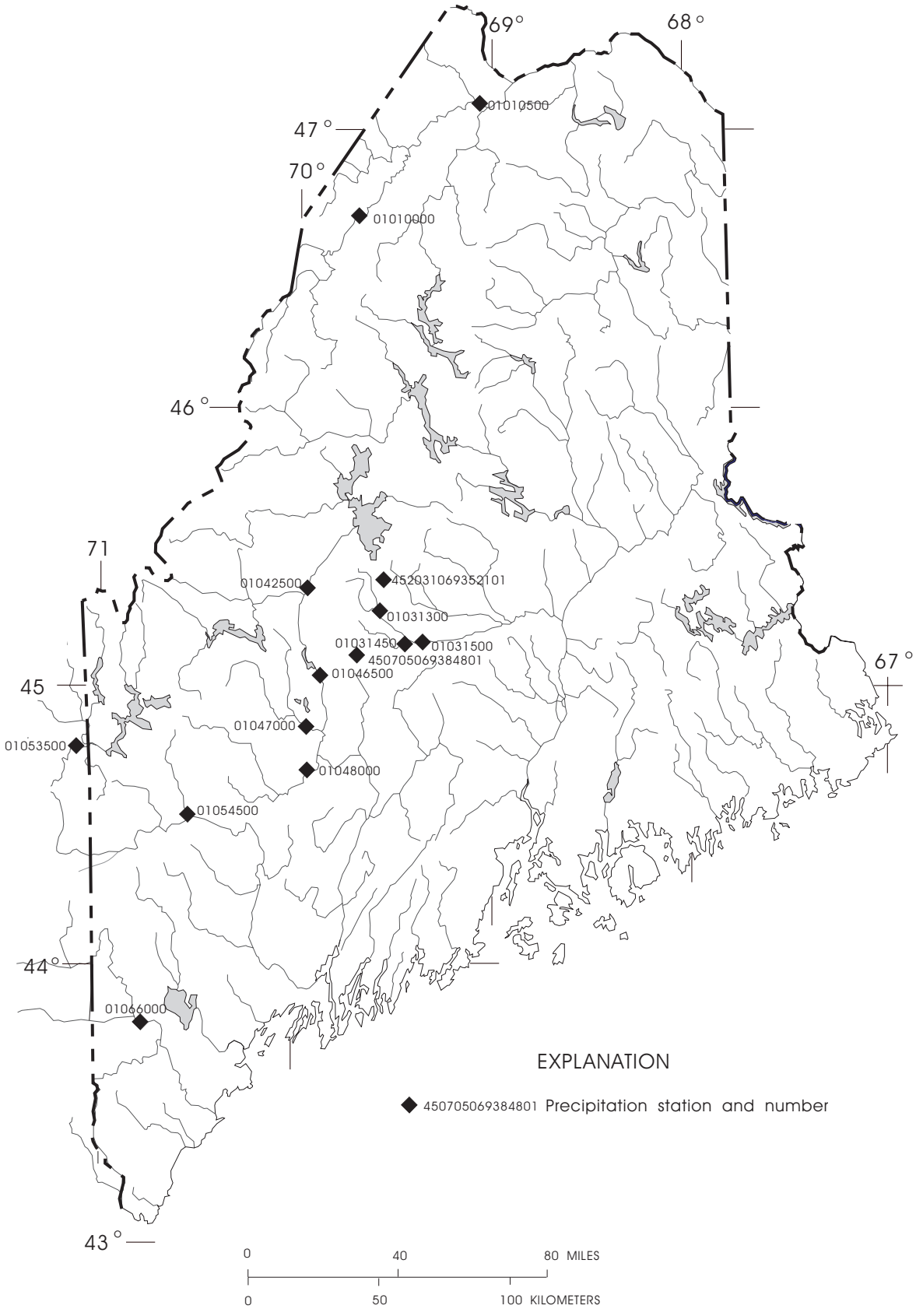


Figure 3. Location of active precipitation quantity stations.

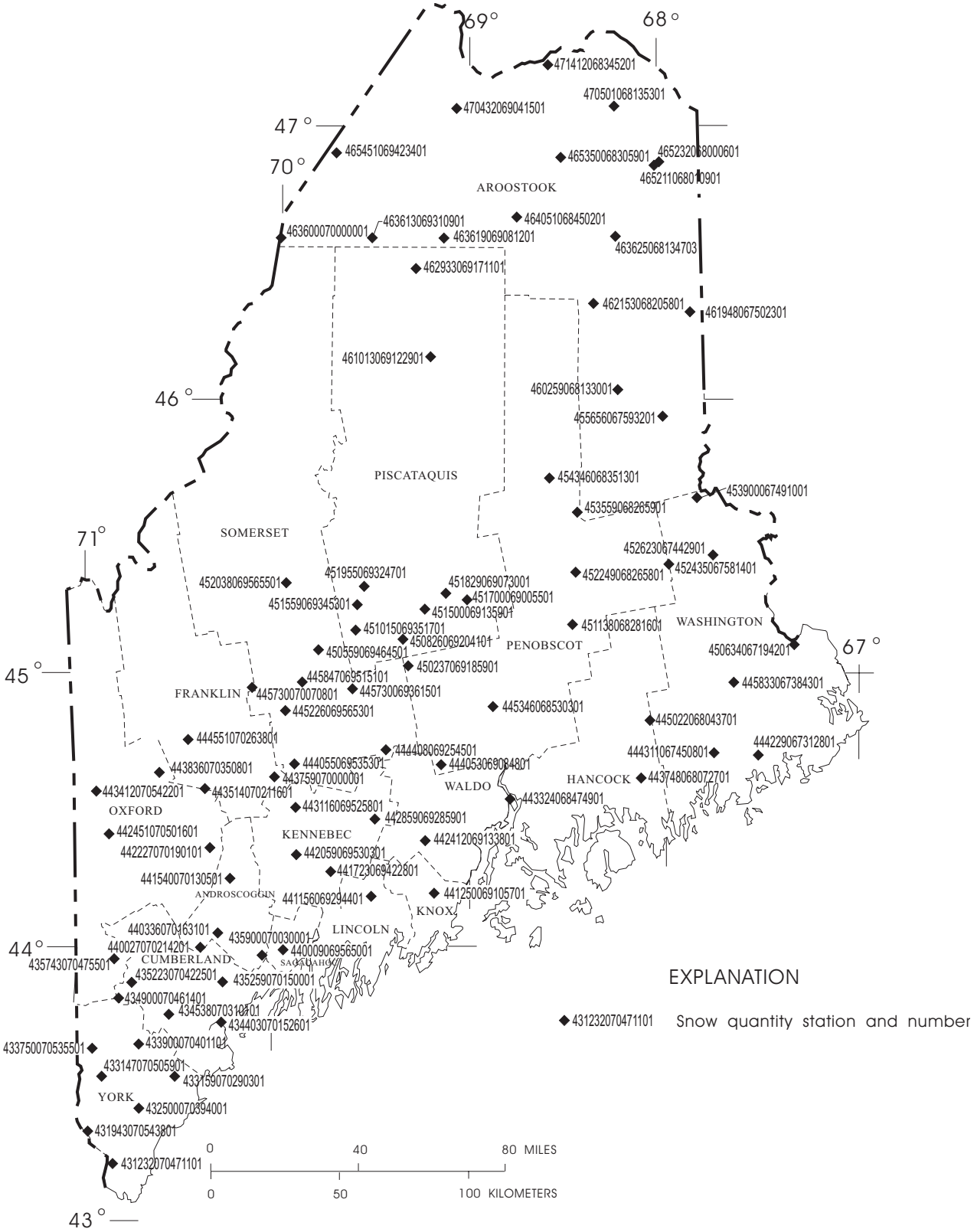


Figure 4.--Location of active snow quantity stations.

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

Streamflow

Runoff for the 2003 water year was characterized by flows in the below normal range to the normal range throughout Maine (above normal refers to the upper 25 percent of the record, below normal refers to the lower 25 percent of the record, and normal refers to the middle 50 percent of the record). Annual runoff was in the below normal range at 30 of 43 sites and normal range at 13 sites. Sites in the normal range were primarily in the eastern portion of the state with some in the northern portion of the state. The 2003 monthly and annual mean discharges and the median monthly and annual discharges for the 1971-2000 reference period are shown in figure 5 for three long-term index stations. Monthly runoff conditions for Maine are summarized in figure 6. These maps show the area of normal, above-normal, and below-normal runoff for each month and are based on records for many of the streamflow gaging stations contained in this report. Additional statistics for each gaging station are provided with the tables of daily mean discharge.

Floods and Droughts

Significant, wide-spread flooding did not occur during the 2003 water year in Maine. Annual peak flows had less than a 2-year recurrence interval at 36 sites, and a 2-year to 5-year recurrence interval at 5 sites. The greatest recurrence interval peak flows were in the St. John basin in the northern portion of the state and in the Dennys and Machias basins in the eastern portion of the state.

Minimum flows at most sites occurred in early to mid October 2002 or early to mid September 2003. Twenty one sites with more than 20 years of record, that are not affected by regulation, were analyzed for the low flow recurrence interval of the 1-day low flow. The 1-day low-flow recurrence interval is the average time interval between daily flows equal or less than a given flow. Minimum flows had a 1.25-year to 2-year recurrence interval at 1 site, a 2-year to 5-year recurrence interval at 16 sites, a 5-year to 10-year recurrence interval at 3 sites, and a 20-year to 50-year recurrence interval at 1 site. The greatest recurrence interval minimum flows were in the northwest portion of the state in the upper St. John River basin in October of 2002.

Reservoir Storage

Usable surface-water storage in five reservoir systems representing the St. Croix, Penobscot, Kennebec, Androscoggin, and Presumpscot River basins in Maine, as reported by river basin managers, totaled 97.794 billion cubic feet (ft3) at the beginning of the water year; this volume is 58 percent of capacity and is below the long-term average storage for the beginning of the water year (table 1). The minimum month-end storage during water year 2003 occurred at the end of February when storage was 54.882 billion ft3. The maximum month-end storage during water year 2003 occurred at the end of June, when storage was 143.573 billion ft3. Usable storage at the end of the water year was 99.315 billion ft3 (59 percent of capacity and below the long-term average).

Table 1. Total usable storage in five Maine reservoir systems for the 2003 water year, expressed as percent of total capacity of 168.075 billion cubic feet

Month	Storage at month end (percent)	Long-term average (percent)
September	58	61
October	48	56
November	48	59
December	45	59
January	41	52
February	33	43
March	34	40
April	67	72
May	83	89
June	85	87
July	78	79
August	68	69
September	59	65

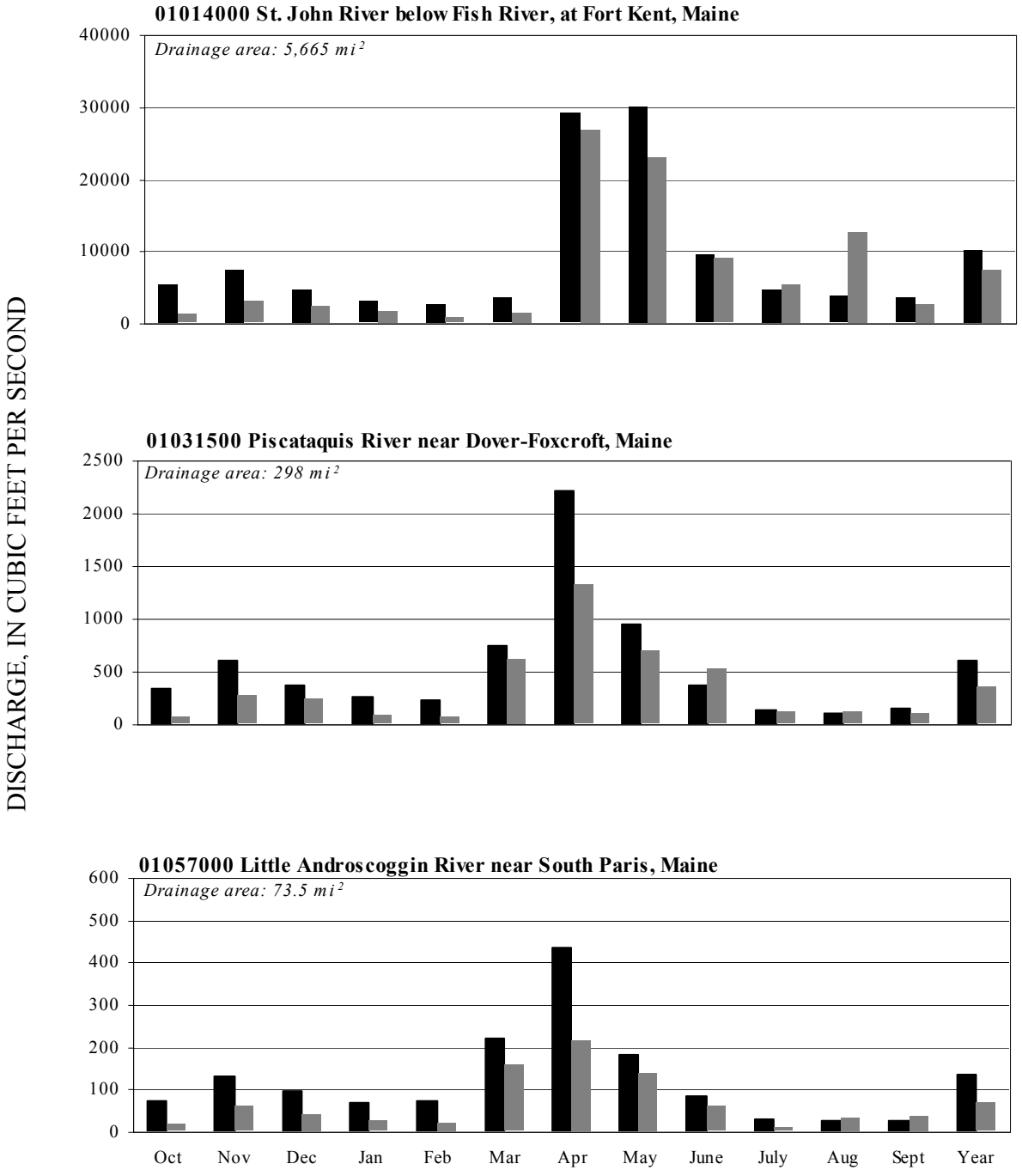


Figure 5.-- Comparison of mean discharge at three long-term gaging stations during 2003 water year with median discharge for period 1971-2000.

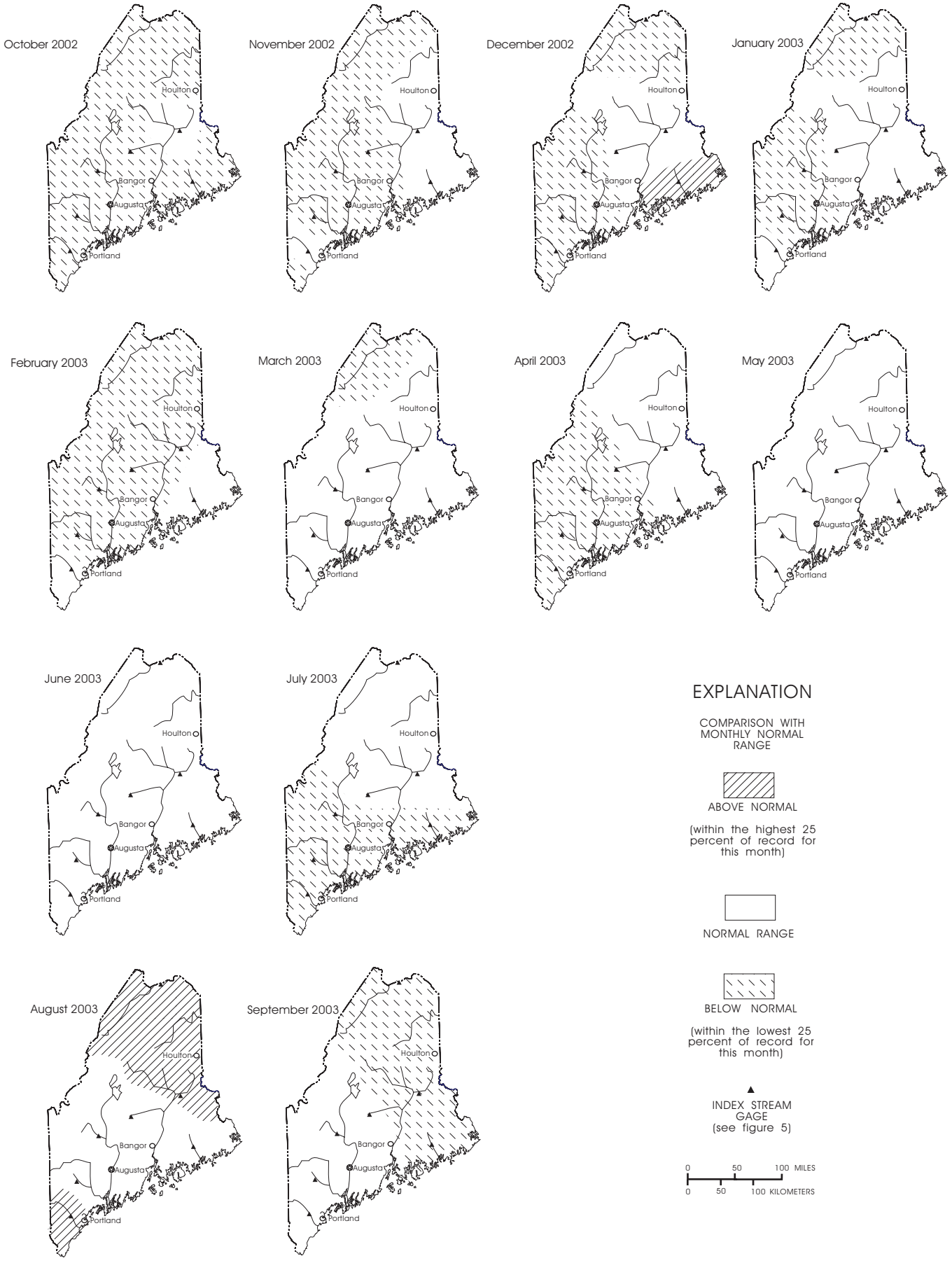


Figure 6.--Monthly surface-water conditions during the 2003 water year in Maine.

Water Quality

Two continuous recording monitoring stations for specific conductance, dissolved oxygen, water temperature and pH (at one monitor) were operated in water-year 2003. All readings were within the previous extreme values for the period of daily record at these two sites.

Water samples were collected at four bedrock wells in cooperation with the Maine Geological Survey. These wells are located in Kenduskeag, Litchfield, Poland, and Weld, Maine. Water samples were also collected from selected domestic bedrock and public-supply wells as part of the National Water-Quality Assessment (NAWQA) program. Water samples were collected at 20 wells in a sand and gravel aquifer as part of an ongoing cooperative monitoring program with the town of Windham.

Ground-Water Levels

The ground-water observation well network consisted of 19 wells during the 2003 water year. Month-end ground-water level conditions for Maine are summarized in figure 7.

A record low ground-water level was recorded during the water year at the well SMW 61 on November 12, 2002. All other levels were within the preious extremes for wells where continuous data have been collected for at least 10 years.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 50 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 human activities. The gaging station on the Wild River at Gilead (01054200) is in this network.

The Statewide Cooperative Snow Survey involves international, Federal and State agencies and private companies. Approximately 217 snow courses have been established in Maine and adjacent parts of New Brunswick, Quebec and New Hampshire. This report presents data from 79 of these sites collected by the U.S. Geological Survey and cooperative observers. Additional information, including state snow maps and data can be obtained from the USGS Augusta office.

The National Water-Quality Assesment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nations ground- and surface-water resources; provide an improved understanding of the primary natuaral and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

The New England Coastal Basins (NECB) NAWQA study uit encompasses 23,000 square miles in western and central Maine, eastern New Hampshire, eastern Massachusetts, most of Rhode Island, and a small part of eastern Connecticut.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2003 water year that began October 1, 2002, and ended September 30, 2003. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage data for streams, water-quality data for surface water and ground-water, ground-water level data, precipitation quantity, and snow quantity. The locations of the stations and wells where the data were collected are shown in figures 1, 2, 3, and 4. 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 stream site, well, precipitation station, or snow station 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 and co-located precipitation stations and the "latitude-longitude" system is used for wells, snow stations, and precipitation stations which are not located at surface-water stations.

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.

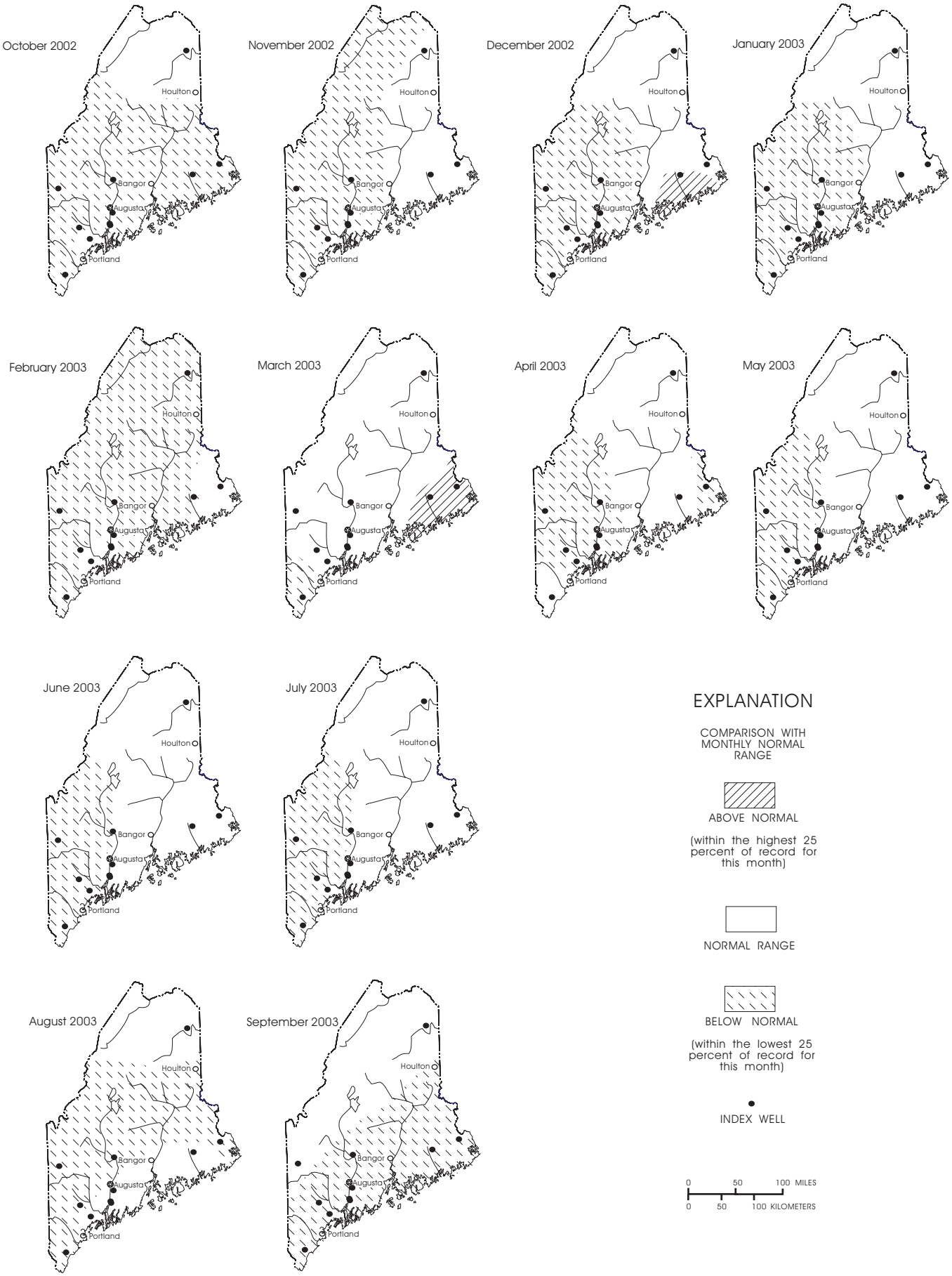


Figure 7.--Month-end ground-water conditions during the 2003 water year in Maine.

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, snow sampling, and precipitation stations which are not located at surface-water stations 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 8.)

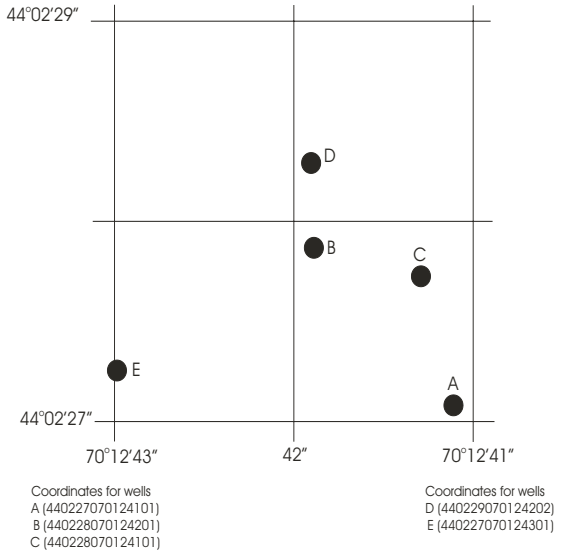


Figure 8.--System for numbering wells and special study sites (latitude and longitude).

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 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 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, Water-Supply Paper 2175, and U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

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 dis-

charge 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 many 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, discharge measurements, and records for other stations in the same or nearby basins for comparable periods.

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

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

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, “Data Presentation” (REMARKS paragraph) and “Identifying Estimated Daily Discharge.”

Data Presentation

The records published for each continuous-record surface-water discharge station (gaging station) consist of five 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; 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; and a hydrograph of the daily mean values of discharge for the current water year.

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.

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 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 date 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 EXTREMES FOR PERIOD OF RECORD or EXTREMES FOR CURRENT YEAR paragraphs of the manuscript. 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.

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 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 EXTREMES FOR PERIOD OF RECORD or EXTREMES FOR CURRENT YEAR paragraphs of the manuscript 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--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Hydrograph

The hydrograph gives a graphical presentation of the mean discharge for each day of the water year. Where possible, the same scale is used between gaging stations in order to facilitate visual comparison.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified by flagging individual daily values with the letter symbol “e” and printing a table footnote, “e Estimated.”

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 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value.

Discharges listed for partial-record stations and special study sites are given to the nearest hundredth of a cubic foot per second for values less than 10 ft^3/s and to 3 significant figures for more than 10 ft^3/s. Exceptions are made for discharge measurements made with volumetric techniques (see TWRI, Book 3, Chapter A8) and flume techniques (see TWRI, Book 3, Chapter A14) which are given to the nearest thousandth of a cubic foot per second for values less than 0.10 ft^3/s. Measurements made using volumetric techniques are footnoted in the table of special study measurements.

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.

Special Study Records

Data collected at special study sites are presented in a table following the information for continuous sites. This table summarizes discharge measurements made at sites other than continuous-record sites.

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 District Office. 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 **special study 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 recorded at short intervals. 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. In this report, continuing-record stations where data are collected on a continuous basis are referred to as **continuous-recording stations**. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 1.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding 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 continuing-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 special study 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, NWIS, 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 special study sampling sites are published in separate tables following the table of discharge measurements at special study 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.

Table 2. Rating continuous water-quality records.

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit; Table from: Wagner, R. J. , Mattraw H. C., Ritz G. F., and Smith B. A., 2000, *Guidelines and Standard Procedures for Continuous Water-Quality Monitors: Site Selction, Field Operation, Calibration, Record Computation, and Reporting,* U. S. Geological Survey, Water-Resources Investigation Report 00-4252, page 23.]

Measured physical property	Ratings			
	Excellent	Good	Fair	Poor
Water temperature	≤ ± 0.2 °C	> ± 0.2 to 0.5 °C	> ± 0.5 to 0.8 °C	> ± 0.8 °C
Specific conductance	≤ ± 3%	> ± 3 to 10%	> ± 10 to 15%	> ± 15%
Dissolved oxygen	≤ ± 0.3 mg/L	> ± 0.3 to 0.5 mg/L	> ± 0.5 to 0.8 mg/L	> ± 0.8 mg/L
pH	≤ ± 0.2 unit	> ± 0.2 to 0.5 unit	> ± 0.5 to 0.8 unit	> ± 0.8 unit

Accuracy of the Records

The accuracy attributed to the records is indicated under "REMARKS." The values for rating each physical property are listed in table 2.

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.*

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 or electric tape 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. It is also used to identify wells measured by local (non-Survey) observers.

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.

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. Direct measurements obtained with a 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 hyrographs, 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

Water samples were collected at four observation bedrock wells, three domestic bedrock wells, one public supply well, and twenty observation wells in a sand and gravel aquifer. Samples were analyzed at the Geological Survey laboratory in Lakewood, Colorado.

Classification of records

Classification of ground-water quality records are arranged as described in "Records of Surface-Water Quality", located in this report.

Arrangement of Records

Water-quality records collected at a ground-water daily record station are published immediately following that record, except for one site, CW 1983, which is included with 19 other sites in the 'Ground-Water Quality Analyses at Special Study Stations' section in this report. Station number and name are the same for both records.

Laboratory Measurements

Samples were analyzed in the U. S. Geological Survey laboratory in Lakewood, Colorado. Methods used by the U.S. Geological Survey laboratory are given in Fishman, M.J., 1993, Methods of analysis by the U. S. Geological Survey National Water Quality Laboratory--Determination of inorganic and organic constituents in water and fluvial sediments: U.S. Geological Survey Open-File Report 93-125.

Data Presentation

The ground-water-quality records for special study sampling sites are published in separate tables following the continuous ground water records.

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.*
M	*Presence verified, not quantified*

Records of Precipitation Quantity

Only precipitation data which is collected as part of long-term monitoring projects are given in this report. These data are intended or used in flood forecasting or other streamflow modeling applications. Locations of the precipitation quantity stations included in this report are shown in figure 3.

Data Collection and Computation

Precipitation data in this report is collected using one of two methods. A weighing bucket collector measures precipitation by recording the weight of accumulated precipitation in a container. The precipitation total for each day is simply the difference in recorded values from the 11:00 pm the previous day to 11:00 pm the published day. During winter months the collector is charged with an antifreeze solution to melt incoming snow or ice. Precipitation data from weighing bucket gages is reported to the nearest 0.1 in. Alternately, a tipping-bucket collector measures precipitation through the use of two equal-sized chambers which alternately fill and

drain. As each chamber fills, it tips, simultaneously draining it, bringing the second bucket under the collector and recording a known amount of precipitation, usually 0.01 in. The precipitation total for each day is computed by summing the number of tips during the day. During winter months a heater or adaptor is used to melt incoming snow or ice. Precipitation data from tipping- bucket gages is reported to the nearest 0.01 in.

Several factors can affect the precipitation recorded at a site, including the elevation of the collector above the land surface, the presence of vegetation, buildings or other barriers near the collector, or the use of a wind shield around the collector.

Data Presentation

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

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.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the station. It reports the month and year of the start of publication by the U.S. Geological Survey and the words “to current year” if the records are to be continued into the following year.

INSTRUMENTATION.--This paragraph provides information on the type of instrumentation used at the station, including its height above land surface and elevation above National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision dependent on the method of determination.

REMARKS.--This entry describes any ancillary information about the station, including any real-time data telemetry capability.

A table of precipitation totals follows the station description for each station. Precipitation totals for each day are reported in inches of water. The total precipitation for each month is shown on a line below the daily-sum table. Missing records are indicated by dashes in place of the precipitation total.

Records of Snow Quantity

Only snow data which is collected as part of long-term monitoring projects are given in this report. These data are intended or used in flood forecasting or other streamflow modeling applications. Locations of the snow sampling stations included in this report are shown in figure 4.

Data Collection and Computation

Snow data were collected with snow tubes with graduations on the outside to measure the total depth of the snowpack. The inside diameter of the tube is such that one ounce of core in the tube equals one inch of water equivalent. At each sample point, the snow tube is used to record the total depth, and a core sample is removed and weighed to determine the water content.

At each snow course the reported values are the average of ten readings of snow depth and ten readings of water equivalent. Methods used are described in the Snow Survey Sampling Guide, Agriculture Handbook number 169, published by the U.S. Department of Agriculture.

Data Presentation

Snow depth and water content records for snow sampling sites are published in inches for each sample date, in separate tables following the precipitation quantity records.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations on the internet. These data may be accessed at

http://me.water.usgs.gov

Some water-quality and ground-water data also are available through the internet. In addition, data can be provided in various machine-readable formats on CD or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Disipline District Offices. (See address on the back of the title page.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound units to International System (SI) units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. 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.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that purposely is placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas 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.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each

station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton"and "Periphyton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3\ \pi r^3 \quad \text{cone } 1/3\ \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

pi (π) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (μm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

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.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, 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 saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms *(Bacillariophyta)* are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter ($\mu m^3/mL$). The abundance of diatoms in per-

iphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved solids concentration in water is the quantity of dissolved material in a sample of water. It 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, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic

insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli *(E. coli)* are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are 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. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that 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. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

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

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae *(Chlorophyta)* are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating "moss" in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

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

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA Web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term 'non-detection value' (NDV).

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

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-

sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA Web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

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

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

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

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass

(micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

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

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations**,** it does not necessarily represent local mean sea level at any particular place. *See NOAA Web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian**,** Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May

be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) 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, as 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	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, 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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** 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, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria,

fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They usually are microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also "Plankton")

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete disso-

lution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment 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 affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil

per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 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.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

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

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.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and, thus, the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

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 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to

compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata,* is the following:

Kingdom:	Animal
Phylum:	Arthropeda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) 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 at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution.

This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. 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 in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution because of the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to USEPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS 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 and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

Watershed (See "Drainage basin")

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.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The USGS publishes a series of manuals, the Techniques of Water-Resources Investigations, 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.

Reports in the Techniques of Water-Resources Investigations series, which are listed below, are online at *http://water.usgs.gov/pubs/twri/*. Printed copies are for sale by the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office), telephone 1-888-ASK-USGS. Please telephone 1-888-ASK-USGS for current prices, and refer to the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations." Products can then be ordered by telephone, or online at http://www.usgs.gov/sales.html, or by FAX to (303)236-469 of an order form available online at *http://mac.usgs.gov/isb/pubs/forms/*. Prepayment by major credit card or by a check or money order payable to the "U.S. Geological Survey" is required.

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

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, chap. D1. 1975. 65 p.

1–D2.*Guidelines for collection and field analysis of groundwater samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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, chap. D1. 1974. 116 p.

2–D2.*Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2–E1.*Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.

2–E2.*Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2–F1.*Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3–A1.*General field and office procedures for indirect discharge measurements,* by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.

3–A2.*Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.

3–A3.*Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

3–A4.*Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.

3–A5.*Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI book 3, chap. A5. 1967. 29 p.

3–A6.*General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

3–A7.*Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.

3–A8.*Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.

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, chap. A9. 1989. 27 p.

3–Al0.*Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.

3–A11.*Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.

3–A12.*Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.

3–A13.*Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.
3–A14.*Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.
3–A15.*Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.
3–A16.*Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.
3–A17.*Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.
3–A18.*Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.
3–A19.*Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.
3–A20.*Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.
3–A21*Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3–B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.
3–B2.*Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.
3–B3.*Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.
3–B4.*Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.
3–B4.*Supplement 1. Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.
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, chap. B5. 1987. 15 p.
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, chap. B6. 1987. 28 p.
3–B7.*Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.
3–B8.*System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3–C1.*Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.
3–C2.*Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
3–C3.*Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4–A1.*Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.
4–A2.*Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.
4–A3.*Statistical methods in water resources*, by D.R. Helsel and R.M. Hirsch: USGS–TWRI book 4, chap. A3. 1991. Available only online at http://water.usgs.gov/pubs/twri/twri4a3/. (Accessed August 30, 2002.)

Section B. Surface Water

4–B1.*Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.
4–B2.*Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.
4–B3.*Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4–D1.*Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5–A1.*Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.

5–A2.*Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.
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, chap. A3. 1987. 80 p.
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, chap. A4. 1989. 363 p.
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, chap. A5. 1977. 95 p.
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, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5–C1.*Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

6–A1.*A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.
6–A2.*Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.
6–A3.*A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.
6–A4.*A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.
6–A5.*A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5. 1993. 243 p.
6–A6.*A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A6. 1996. 125 p.
6–A7.*User's guide to SEAWAT: A computer program for simulation of three-dimensional variable-density ground-water flow*, by Weixing Guo and Christian D. Langevin: USGS–TWRI book 6, chap. A7. 2002.
77 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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, chap. C1. 1976. 116 p.
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, chap. C2. 1978. 90 p.
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, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8–A1.*Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.
8–A2.*Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8–B2.*Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9–A1.*National field manual for the collection of water-quality data: Preparations for water sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9–A2.*National field manual for the collection of water-quality data: Selection of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.
F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.
9–A4.*National field manual for the collection of water-quality data: Collection of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.
9–A5.*National field manual for the collection of water-quality data: Processing of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.
9–A6.*National field manual for the collection of water-quality data: Field measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.
9–A7.*National field manual for the collection of water-quality data: Biological indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
9–A8.*National field manual for the collection of water-quality data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.
9–A9.*National field manual for the collection of water-quality data: Safety in field activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remarks Codes

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

9–A3.*National field manual for the collection of water-quality data: Cleaning of equipment for water sampling*, edited by

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.

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

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

DRAINAGE AREA.--1,341 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1950 to current year.
CHEMICAL ANALYSES: Water years 1976, 1981.
SPECIFIC CONDUCTANCE: October 1975 to September 1980.
WATER TEMPERATURE: October 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.--Records good, except for period of ice effect, Oct. 30 to Apr. 18, which is fair. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft^3/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, 32 ft^3/s, Sept. 10, 2002; gage height, 0.19 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,200 ft^3/s, Apr. 24, gage height, 7.62 ft; maximum gage height, 7.71 ft, Apr. 1 (backwater from ice); minimum discharge, 115 ft^3/s, Oct. 16, gage height, 0.60 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	e472	e570	e795	e223	e133	e5,190	9,070	1,830	329	1,110	409
2	277	e362	e514	e824	e218	e132	e6,240	9,870	2,110	368	840	360
3	273	e285	e459	e895	e208	e130	e6,490	10,700	2,450	547	673	325
4	240	e350	e417	e824	e198	e129	e6,040	9,120	2,020	1,000	579	293
5	204	e360	e385	e755	e189	e128	e5,110	7,250	1,590	1,150	2,460	265
6	181	e315	e363	e697	e184	e127	e4,250	5,970	5,220	1,300	5,130	252
7	167	e273	e341	e648	e179	e126	e3,580	8,490	7,090	1,210	8,270	237
8	158	e235	e322	e608	e175	e125	e3,120	9,080	5,110	889	9,320	213
9	146	e228	e304	e561	e174	e124	e2,810	6,910	3,790	688	9,700	194
10	139	e233	e292	e525	e170	e123	e2,610	5,290	3,440	564	6,620	177
11	137	e369	e281	e492	e168	e122	e2,640	4,350	3,160	466	5,720	164
12	130	e1,110	e270	e458	e167	e121	e3,090	4,720	3,200	404	5,430	153
13	130	e1,730	e261	e427	e166	e120	e4,150	9,300	2,960	386	3,970	144
14	132	e1,920	e253	e404	e163	e119	e5,620	10,600	2,550	379	2,590	136
15	125	e1,760	e247	e380	e160	e118	e6,390	8,380	4,270	339	1,770	131
16	121	e1,390	e241	e358	e156	e117	e9,350	6,120	5,120	304	1,440	136
17	161	e1,030	e235	e338	e154	e116	e10,400	4,550	4,280	270	3,660	146
18	307	e753	e233	e317	e152	e119	e10,200	3,560	3,150	245	3,560	151
19	565	e608	e229	e300	e149	e131	9,150	2,880	2,330	220	2,380	152
20	772	e583	e228	e285	e145	e157	8,260	2,380	1,830	202	1,610	148
21	1,130	e565	e280	e272	e152	e229	10,000	1,990	1,490	200	1,170	144
22	1,150	e553	e525	e260	e148	e311	14,300	1,730	1,200	804	914	141
23	912	e1,120	e1,020	e249	e146	e378	16,200	1,510	969	3,090	741	141
24	741	e2,440	e1,550	e241	e144	e417	17,000	1,330	810	4,230	630	155
25	642	e2,330	e1,500	e234	e142	e463	16,000	1,250	682	7,290	603	226
26	601	e1,810	e1,330	e226	e139	e503	13,100	1,350	576	5,930	531	250
27	641	e1,210	e1,170	e219	e138	e612	12,200	1,400	485	4,140	500	242
28	763	e891	e1,050	e214	e135	e1,040	12,700	1,370	406	3,850	505	264
29	892	e630	e969	e209	---	e1,670	12,500	1,250	349	2,960	488	317
30	e776	e677	e900	e206	---	e2,110	11,200	1,150	327	2,030	465	325
31	e611	---	e835	e210	---	e3,400	---	1,400	---	1,460	459	---
TOTAL	13,548	26,592	17,574	13,431	4,642	13,650	249,890	154,320	74,794	47,244	83,838	6,391
MEAN	437	886	567	433	166	440	8,330	4,978	2,493	1,524	2,704	213
MAX	1,150	2,440	1,550	895	223	3,400	17,000	10,700	7,090	7,290	9,700	409
MIN	121	228	228	206	135	116	2,610	1,150	327	200	459	131
CFSM	0.33	0.66	0.42	0.32	0.12	0.33	6.21	3.71	1.86	1.14	2.02	0.16
IN.	0.38	0.74	0.49	0.37	0.13	0.38	6.93	4.28	2.07	1.31	2.33	0.18

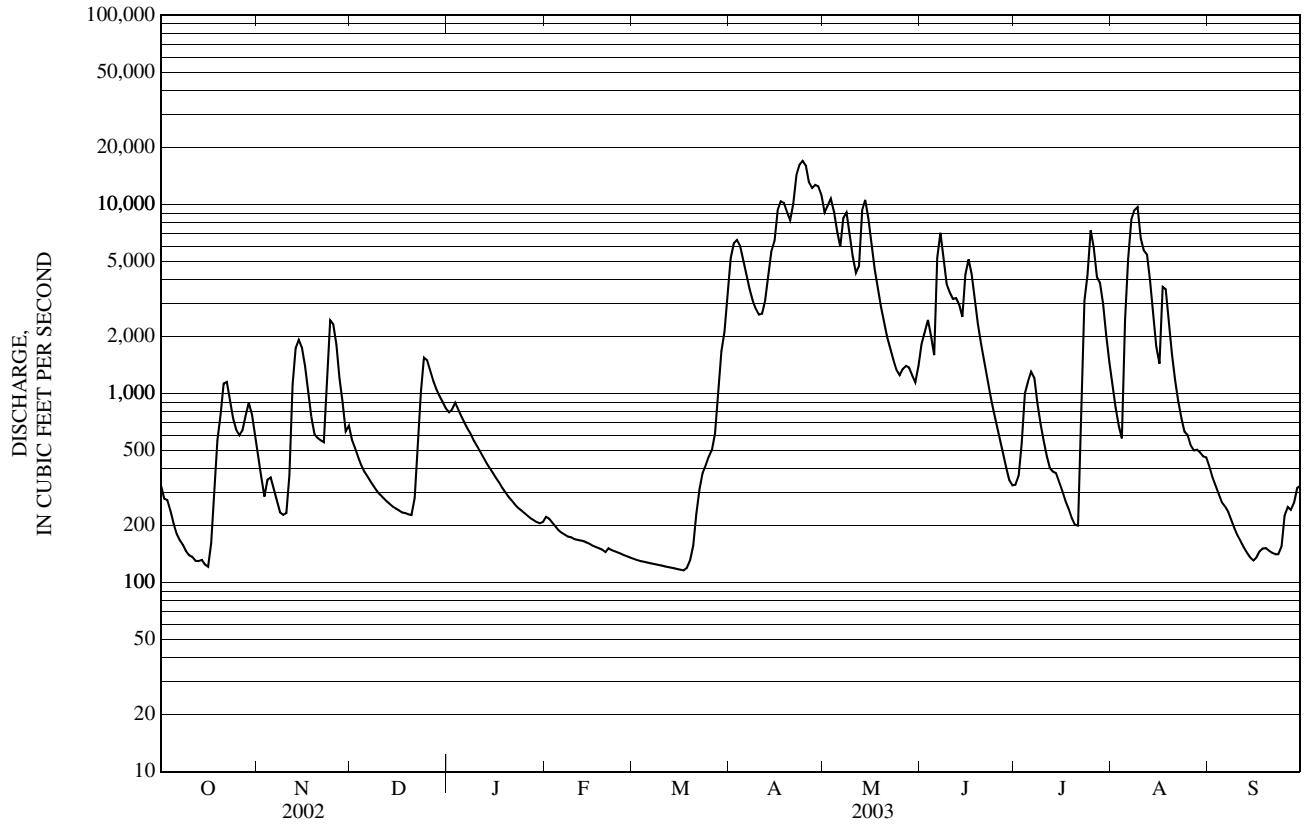
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2003, BY WATER YEAR (WY)

MEAN	1,882	2,203	1,315	709	614	1,014	7,448	6,958	2,073	1,469	1,284	1,283
MAX	6,102	5,717	4,899	2,580	2,981	4,296	13,420	16,550	4,705	6,845	5,985	3,930
(WY)	(1991)	(1964)	(1951)	(1995)	(1996)	(1979)	(1976)	(1961)	(1954)	(1984)	(1981)	(1954)
MIN	347	540	311	207	143	180	1,918	1,474	453	174	113	102
(WY)	(1956)	(1957)	(1956)	(1957)	(1961)	(1956)	(1967)	(1987)	(1988)	(1952)	(1953)	(1952)

e Estimated

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1951 - 2003	
ANNUAL TOTAL	688,367		705,914			
ANNUAL MEAN	1,886		1,934		2,358	
HIGHEST ANNUAL MEAN					3,548	1984
LOWEST ANNUAL MEAN					1,336	1957
HIGHEST DAILY MEAN	27,100	Apr 19	17,000	Apr 24	38,600	May 1, 1974
LOWEST DAILY MEAN	34	Sep 10	116	Mar 17	34	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	42	Sep 5	119	Mar 12	42	Sep 5, 2002
MAXIMUM PEAK FLOW			17,200	Apr 24	44,400	May 1, 1974
MAXIMUM PEAK STAGE			7.71	Apr 1	23.00	Apr 11, 1991
INSTANTANEOUS LOW FLOW			115	Oct 16	32	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.41		1.44		1.76	
ANNUAL RUNOFF (INCHES)	19.10		19.58		23.89	
10 PERCENT EXCEEDS	4,310		6,070		5,950	
50 PERCENT EXCEEDS	608		564		960	
90 PERCENT EXCEEDS	134		144		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 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 885 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for periods of ice effect, Oct. 29 to Nov. 12, Nov. 16 to Apr. 21, and period of doubtful stage-discharge relation, Aug. 7-14, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,680 ft^3/s Apr. 1, 1987; gage height, 15.62 ft; minimum daily discharge, 7.4 ft^3/s, Sept. 24, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 23	2030	2,560	8.85	Aug 11	0645	*4,640	*11.44
Aug 8	1515	3,230	9.73				

Minimum discharge, 12 ft^3/s, Oct. 8, gage height, 2.98 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	e48	e121	e94	e24	e18	e924	1,390	288	43	105	77
2	18	e41	e106	e100	e25	e18	e1,370	1,410	606	52	79	69
3	16	e42	e95	e83	e24	e18	e1,660	1,320	535	277	63	61
4	15	e38	e86	e70	e23	e17	e1,590	1,070	340	507	58	54
5	15	e35	e78	e61	e22	e17	e1,360	898	232	397	415	51
6	14	e33	e71	e56	e22	e17	e1,140	833	632	230	1,060	50
7	13	e31	e66	e51	e22	e17	e957	1,260	687	133	2,480	49
8	13	e30	e61	e48	e22	e16	e847	1,260	435	87	2,920	45
9	13	e30	e57	e46	e21	e16	e768	921	314	76	2,040	41
10	14	e42	e54	e44	e21	e16	e726	684	417	71	1,650	37
11	15	e73	e51	e42	e21	e16	e752	565	382	55	3,860	35
12	15	e281	e48	e40	e21	e16	e869	902	563	49	2,730	33
13	15	350	e46	e38	e20	e16	e1,180	1,600	468	46	1,280	32
14	15	278	e44	e37	e20	e16	e1,660	1,510	376	43	628	31
15	14	212	e43	e35	e20	e15	e1,780	1,090	584	38	380	30
16	15	e164	e41	e34	e20	e15	e1,620	728	646	33	344	32
17	30	e128	e41	e33	e20	e15	e1,230	522	440	31	667	34
18	61	e114	e40	e32	e20	e16	e1,030	405	278	29	535	35
19	85	e105	e40	e31	e20	e17	e889	329	185	28	336	33
20	81	e99	e42	e30	e21	e20	e804	269	139	27	220	32
21	66	e95	e77	e30	e21	e26	e1,290	227	111	34	172	34
22	55	e92	e151	e29	e20	e37	2,120	208	90	81	146	32
23	49	e190	e242	e28	e20	e54	2,470	185	76	401	126	32
24	46	e333	e263	e28	e20	e69	2,480	163	64	633	134	37
25	46	e268	e207	e27	e19	e79	2,260	174	55	892	140	48
26	51	e195	e171	e26	e19	e87	1,770	238	48	586	119	50
27	74	e156	e143	e26	e18	e95	1,860	230	41	456	105	49
28	101	e143	e122	e25	e18	e107	2,050	188	36	546	105	47
29	e95	e157	e108	e25	---	e147	1,900	163	31	390	97	58
30	e75	e138	e96	e24	---	e358	1,710	155	35	231	92	54
31	e59	---	e86	e24	---	e513	---	192	---	151	91	---
TOTAL	1,215	3,941	2,897	1,297	584	1,904	43,066	21,089	9,134	6,653	23,177	1,302
MEAN	39.2	131	93.5	41.8	20.9	61.4	1,436	680	304	215	748	43.4
MAX	101	350	263	100	25	513	2,480	1,600	687	892	3,860	77
MIN	13	30	40	24	18	15	726	155	31	27	58	30
CFSM	0.23	0.77	0.55	0.24	0.12	0.36	8.39	3.98	1.78	1.26	4.37	0.25
IN.	0.26	0.86	0.63	0.28	0.13	0.41	9.37	4.59	1.99	1.45	5.04	0.28

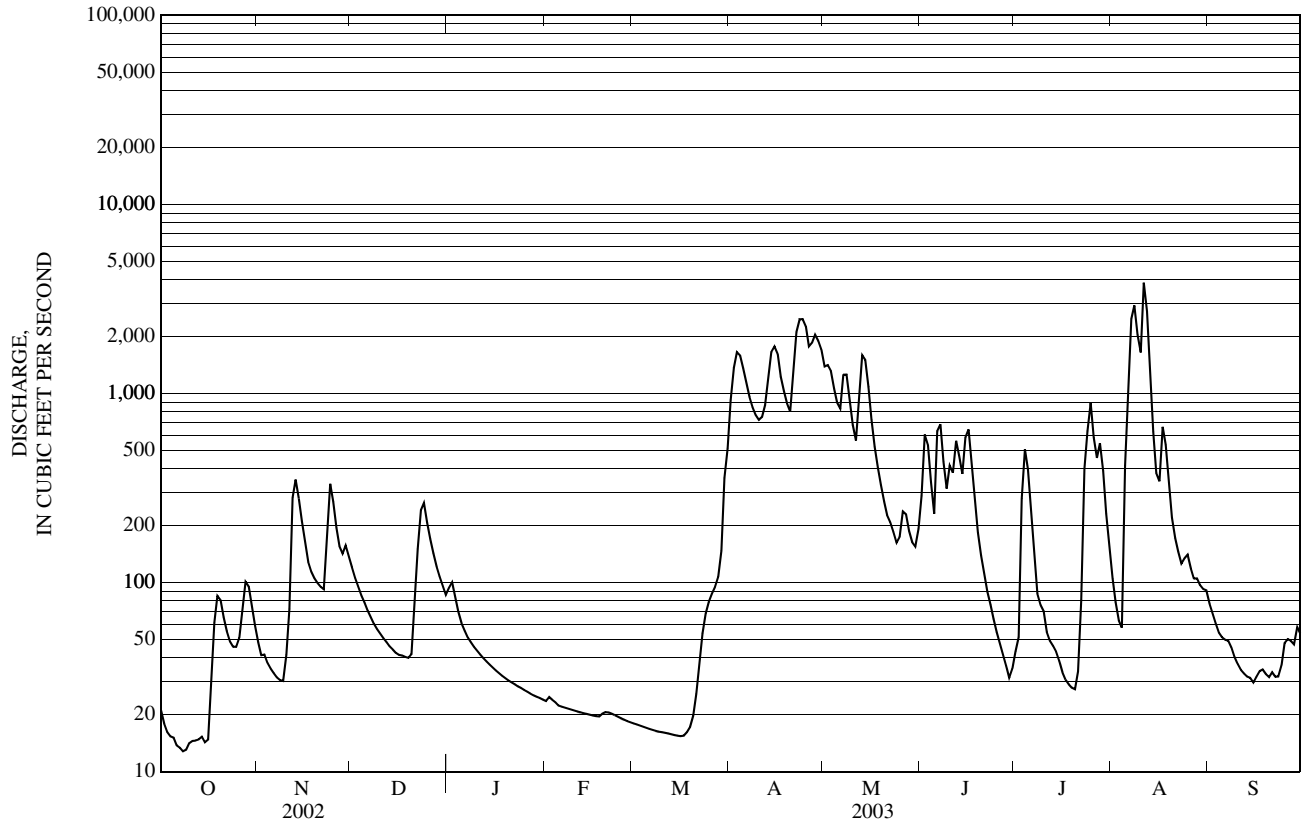
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2003, BY WATER YEAR (WY)

MEAN	242	308	182	97.4	84.8	208	1,272	712	241	201	146	111
MAX	710	612	708	265	393	852	1,807	1,766	762	691	748	364
(WY)	(1991)	(1989)	(1991)	(1991)	(1996)	(1990)	(1991)	(1997)	(1994)	(1984)	(2003)	(1986)
MIN	39.2	113	41.8	27.5	13.6	25.9	678	152	57.2	38.5	17.6	17.1
(WY)	(2003)	(2002)	(1998)	(1985)	(1985)	(1993)	(1985)	(1987)	(1998)	(1997)	(2001)	(2002)

e Estimated

01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1984 - 2003	
ANNUAL TOTAL	89,620.5		116,259			
ANNUAL MEAN	246		319		317	
HIGHEST ANNUAL MEAN					438	1984
LOWEST ANNUAL MEAN					157	1985
HIGHEST DAILY MEAN	5,300	Apr 18	3,860	Aug 11	6,790	Apr 1, 1987
LOWEST DAILY MEAN	8.6	Sep 6	13	Oct 7	7.4	Sep 24, 1985
ANNUAL SEVEN-DAY MINIMUM	8.9	Sep 4	14	Oct 4	8.0	Sep 20, 1985
MAXIMUM PEAK FLOW			4,640	Aug 11	8,680	Apr 1, 1987
MAXIMUM PEAK STAGE			11.44	Aug 11	15.62	Apr 1, 1987
INSTANTANEOUS LOW FLOW			12	Oct 8		
ANNUAL RUNOFF (CFSM)	1.44		1.86		1.85	
ANNUAL RUNOFF (INCHES)	19.50		25.29		25.19	
10 PERCENT EXCEEDS	573		1,060		821	
50 PERCENT EXCEEDS	61		73		112	
90 PERCENT EXCEEDS	15		19		30	



01010500 ST. JOHN RIVER AT DICKEY, ME

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, Hydrologic Unit 01010001, on right bank at downstream side of State Route 161 highway bridge at Dickey, 0.4 mi downstream from Little Black River, and 2.8 mi upstream from Allagash River.

DRAINAGE AREA.--2,680 mi^2.

PERIOD OF RECORD.--
DISCHARGE : July to November 1910 and April to November 1911 (published as "near Dickey"), September 1946 to current year.
CHEMICAL ANALYSES: Water years 1952, 1975, 1981.
SPECIFIC CONDUCTANCE: April 1975 to September 1980.
WATER TEMPERATURE: April 1975 to September 1980.
SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

REVISED RECORDS.--WDR ME-82-1: Drainage area. WDR ME-95-1: 1993, 1994. WDR ME-97-1: 1991(M) 1992(M) 1994(P)

GAGE.--Water-stage recorder. Datum of gage is 590.38 ft above National Geodetic Vertical Datum of 1929. 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. April 1962 to August 1993, water-stage recorder at current site and datum. August 1993 to July 1998, water-stage recorder at site 500 ft downstream at same datum.

REMARKS.--Records good, except for the periods of ice effect, Oct. 31 to Nov. 11 and Nov. 17 to Apr. 17, which are fair. Satellite gage-height telemeter at station. Gage operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91,700 ft^3/s, Apr. 29, 1979, gage height, 19.13 ft; maximum gage height, 37.89 ft, from flood marks, Apr. 9, 1991 (backwater from ice); minimum discharge, 106 ft^3/s, Sept. 10, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 27,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	1545	Ice Jam	*30.20	Apr 24	2345	*34,200	12.21

Minimum daily discharge, 238 ft^3/s, Mar. 17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	e944	e975	e1,520	e343	e260	e7,560	19,300	3,470	806	3,130	1,040
2	405	e743	e904	e1,430	e365	e258	e10,300	18,100	4,030	841	2,440	988
3	457	e580	e827	e1,350	e359	e254	e11,700	19,500	4,790	1,040	1,920	892
4	402	e467	e769	e1,340	e348	e252	e11,000	17,600	4,570	2,310	1,650	816
5	403	e546	e700	e1,400	e340	e252	e9,550	14,900	3,700	3,530	2,620	759
6	364	e788	e666	e1,300	e331	e248	e8,080	12,900	3,810	3,130	9,260	713
7	328	e640	e629	e1,190	e325	e246	e6,870	14,200	10,100	2,640	13,400	661
8	290	e525	e600	e1,100	e320	e246	e6,070	18,500	8,840	2,170	20,400	628
9	266	e500	e576	e1,030	e313	e244	e5,520	15,300	6,640	1,690	18,400	590
10	263	e538	e558	e945	e312	e244	e5,050	12,100	5,730	1,410	14,700	543
11	260	e875	e540	e866	e309	e242	e4,790	10,100	5,660	1,180	13,900	506
12	256	1,310	e527	e812	e304	e242	e5,640	9,340	5,670	999	15,900	471
13	251	2,930	e515	e768	e302	e240	e6,860	13,800	6,050	891	12,200	446
14	263	3,610	e502	e720	e298	e240	e8,180	18,800	5,160	829	7,950	422
15	255	3,420	e490	e680	e293	e240	e10,200	16,500	5,540	790	5,490	403
16	257	3,000	e479	e637	e289	e239	e12,200	12,700	8,300	724	4,240	396
17	324	e2,390	e467	e592	e286	e238	e15,900	9,780	7,880	657	4,640	421
18	546	e1,900	e456	e557	e282	e240	18,300	7,920	6,100	606	7,220	429
19	715	e1,400	e449	e525	e279	e261	16,400	6,610	4,700	546	5,700	424
20	982	e1,150	e440	e497	e278	e309	13,700	5,670	3,770	502	4,210	419
21	1,190	e1,330	e540	e472	e275	e425	14,900	4,950	3,140	513	3,250	410
22	1,450	e1,670	e676	e450	e271	e570	22,500	4,370	2,640	627	2,640	403
23	1,540	e2,070	e1,000	e431	e280	e690	29,600	3,910	2,170	2,020	2,170	393
24	1,300	e2,950	e1,650	e415	e277	e769	33,200	3,530	1,820	6,240	1,870	421
25	1,140	e4,250	e2,550	e400	e270	e808	32,400	3,270	1,540	9,780	1,680	465
26	1,070	e3,520	e2,650	e386	e264	e830	27,300	3,220	1,310	10,900	1,570	493
27	1,140	e2,350	e2,500	e374	e261	e883	23,800	3,310	1,140	8,130	1,430	562
28	1,280	e1,480	e2,190	e361	e261	e1,000	25,100	3,190	966	7,190	1,280	638
29	1,440	e1,070	e1,950	e351	---	e1,330	24,000	3,060	840	6,400	1,190	2,070
30	1,500	e925	e1,760	e341	---	e2,570	22,500	3,000	800	4,790	1,170	2,620
31	e1,230	---	e1,640	e337	---	e4,650	---	3,060	---	3,770	1,120	---
TOTAL	21,861	49,871	31,175	23,577	8,435	19,520	449,170	312,490	130,876	87,651	188,740	20,442
MEAN	705	1,662	1,006	761	301	630	14,970	10,080	4,363	2,827	6,088	681
MAX	1,540	4,250	2,650	1,520	365	4,650	33,200	19,500	10,100	10,900	20,400	2,620
MIN	251	467	440	337	261	238	4,790	3,000	800	502	1,120	393
CFSM	0.26	0.62	0.38	0.28	0.11	0.23	5.59	3.76	1.63	1.06	2.27	0.25
IN.	0.30	0.69	0.43	0.33	0.12	0.27	6.23	4.34	1.82	1.22	2.62	0.28

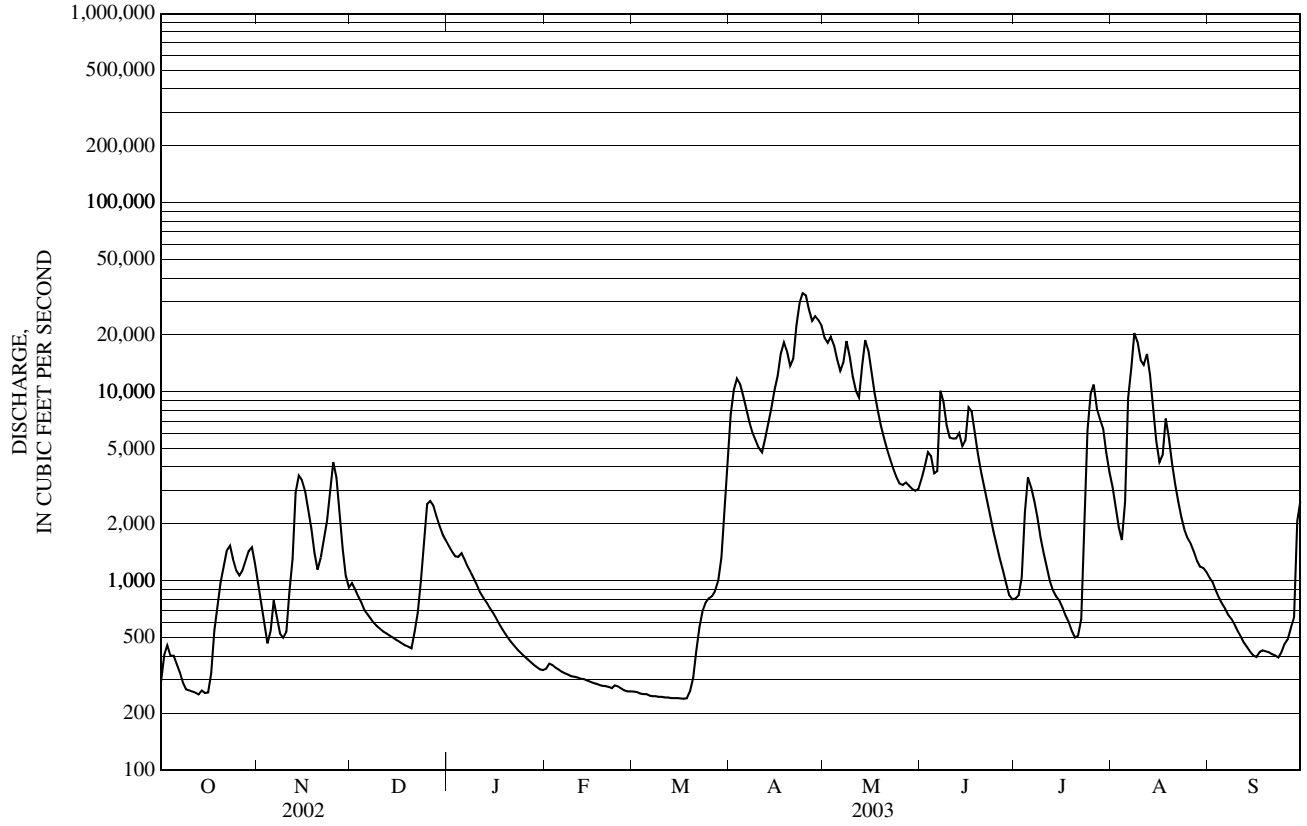
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2003, BY WATER YEAR (WY)

MEAN	3,414	4,085	2,584	1,392	1,180	1,857	14,630	15,280	4,390	2,859	2,480	2,350
MAX	11,280	10,180	9,781	4,461	6,456	9,249	27,790	35,100	10,840	10,320	11,740	7,655
(WY)	(1978)	(1964)	(1951)	(1995)	(1996)	(1979)	(1976)	(1961)	(1947)	(1984)	(1981)	(1954)
MIN	690	605	624	341	201	378	3,999	2,681	1,152	796	265	265
(WY)	(1954)	(1948)	(1956)	(1948)	(1948)	(1956)	(1965)	(1987)	(1968)	(1991)	(1953)	(2002)

e Estimated

01010500 ST. JOHN RIVER AT DICKEY, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1910 - 2003	
ANNUAL TOTAL	1,276,425		1,343,808			
ANNUAL MEAN	3,497		3,682		4,732	
HIGHEST ANNUAL MEAN					7,193	1976
LOWEST ANNUAL MEAN					2,844	1965
HIGHEST DAILY MEAN	52,600	Apr 19	33,200	Apr 24	86,800	Apr 29, 1979
LOWEST DAILY MEAN	110	Sep 10	238	Mar 17	110	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	119	Sep 4	240	Mar 12	119	Sep 4, 2002
MAXIMUM PEAK FLOW			34,200	Apr 24	91,700	Apr 29, 1979
MAXIMUM PEAK STAGE			30.20	Apr 2	37.89	Apr 9, 1991
INSTANTANEOUS LOW FLOW					106	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.30		1.37		1.77	
ANNUAL RUNOFF (INCHES)	17.72		18.65		23.99	
10 PERCENT EXCEEDS	8,620		11,900		11,800	
50 PERCENT EXCEEDS	1,070		1,120		1,980	
90 PERCENT EXCEEDS	300		280		550	



01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, Hydrologic Unit 01010002, on left bank 3.0 mi upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,229 mi^2, not including 249 mi^2 drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--
DISCHARGE: July 1910 to November 1910, May to November 1911, September 1931 to current year. Monthly discharges only for some periods prior to November 1911, published in WSP 1301.
CHEMICAL ANALYSES: Water years 1952-53, 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.--WSP 1231: 1911. WDR ME-82-1: Drainage area.

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

REMARKS.--Records good, except for periods of ice effect, Oct. 31 to Nov. 11 and Nov. 16 to Apr. 20, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft^3, 58 mi upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,900 ft^3/s, Apr. 18, 1983, gage height, 13.68 ft; maximum gage height, 19.78 ft, Apr. 10, 1991 (backwater from ice); minimum discharge, 87 ft^3/s, Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,700 ft^3/s, Apr. 24, gage height, 7.97 ft; maximum gage hieght, 9.29 ft, Apr. 15 (backwater from ice); minimum discharge, 133 ft^3/s, Oct. 13, gage height, 1.66 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	e445	e696	e507	e313	e242	e2,210	8,730	1,940	940	1,510	773
2	261	e369	e616	e498	e316	e240	e2,840	9,000	1,890	999	1,210	725
3	247	e300	e569	e480	e305	e238	e3,050	8,940	1,890	1,390	1,030	657
4	232	e310	e540	e465	e293	e237	e3,140	8,250	1,700	2,130	993	604
5	225	e316	e516	e452	e286	e235	e3,130	7,470	1,510	1,960	1,260	575
6	219	e267	e496	e439	e279	e234	e3,050	6,460	2,200	1,570	1,750	537
7	203	e255	e478	e429	e273	e233	e2,900	6,890	3,480	1,300	1,750	505
8	179	e266	e461	e419	e268	e233	e2,730	6,920	3,160	1,160	1,670	480
9	160	e258	e448	e409	e263	e232	e2,580	5,890	2,970	1,200	2,030	447
10	156	e254	e436	e399	e259	e231	e2,470	5,150	2,950	1,110	2,000	429
11	148	e254	e424	e391	e255	e230	e2,470	4,690	2,670	999	3,530	423
12	143	392	e417	e383	e251	e229	e2,550	4,490	2,600	939	3,820	411
13	139	514	e409	e374	e247	e228	e2,710	4,980	2,440	904	2,990	405
14	147	544	e401	e367	e244	e227	e2,820	5,350	2,300	830	2,330	399
15	142	535	e396	e359	e241	e226	e2,970	5,140	2,650	728	1,920	390
16	141	e484	e391	e351	e238	e225	e3,170	4,650	2,890	640	1,780	404
17	159	e365	e386	e344	e236	e225	e4,030	4,200	2,820	592	2,020	487
18	227	e314	e379	e337	e234	e224	e4,360	3,800	2,560	551	1,930	513
19	261	e289	e373	e330	e232	e226	e4,320	3,500	2,290	502	1,700	474
20	264	e299	e370	e322	e231	e269	e4,280	3,210	2,080	468	1,520	449
21	332	e293	e400	e317	e243	e339	5,360	2,920	1,880	471	1,390	447
22	329	e276	e646	e310	e251	e461	7,870	2,650	1,740	757	1,280	437
23	303	e410	e625	e303	e253	e568	10,200	2,430	1,570	1,480	1,180	422
24	302	e875	e566	e297	e252	e700	11,400	2,280	1,410	1,810	1,140	449
25	305	e1,050	e527	e293	e250	e781	11,300	2,170	1,280	2,380	1,090	484
26	347	e988	e504	e287	e248	e837	10,400	2,050	1,170	2,130	1,030	481
27	442	e897	e485	e283	e245	e862	10,400	1,840	1,080	2,040	995	465
28	548	e775	e471	e279	e243	e918	10,400	1,630	996	2,390	943	495
29	584	e659	e457	e275	---	e1,020	10,000	1,550	915	1,910	889	2,340
30	558	e631	e448	e274	---	e1,220	9,580	1,580	909	1,540	862	2,690
31	e506	---	e456	e283	---	e1,650	---	1,810	---	1,700	812	---
TOTAL	8,471	13,884	14,787	11,256	7,249	14,020	158,690	140,620	61,940	39,520	50,354	18,797
MEAN	273	463	477	363	259	452	5,290	4,536	2,065	1,275	1,624	627
MAX	584	1,050	696	507	316	1,650	11,400	9,000	3,480	2,390	3,820	2,690
MIN	139	254	370	274	231	224	2,210	1,550	909	468	812	390
CFSM	0.22	0.38	0.39	0.30	0.21	0.37	4.30	3.69	1.68	1.04	1.32	0.51
IN.	0.26	0.42	0.45	0.34	0.22	0.42	4.80	4.26	1.87	1.20	1.52	0.57

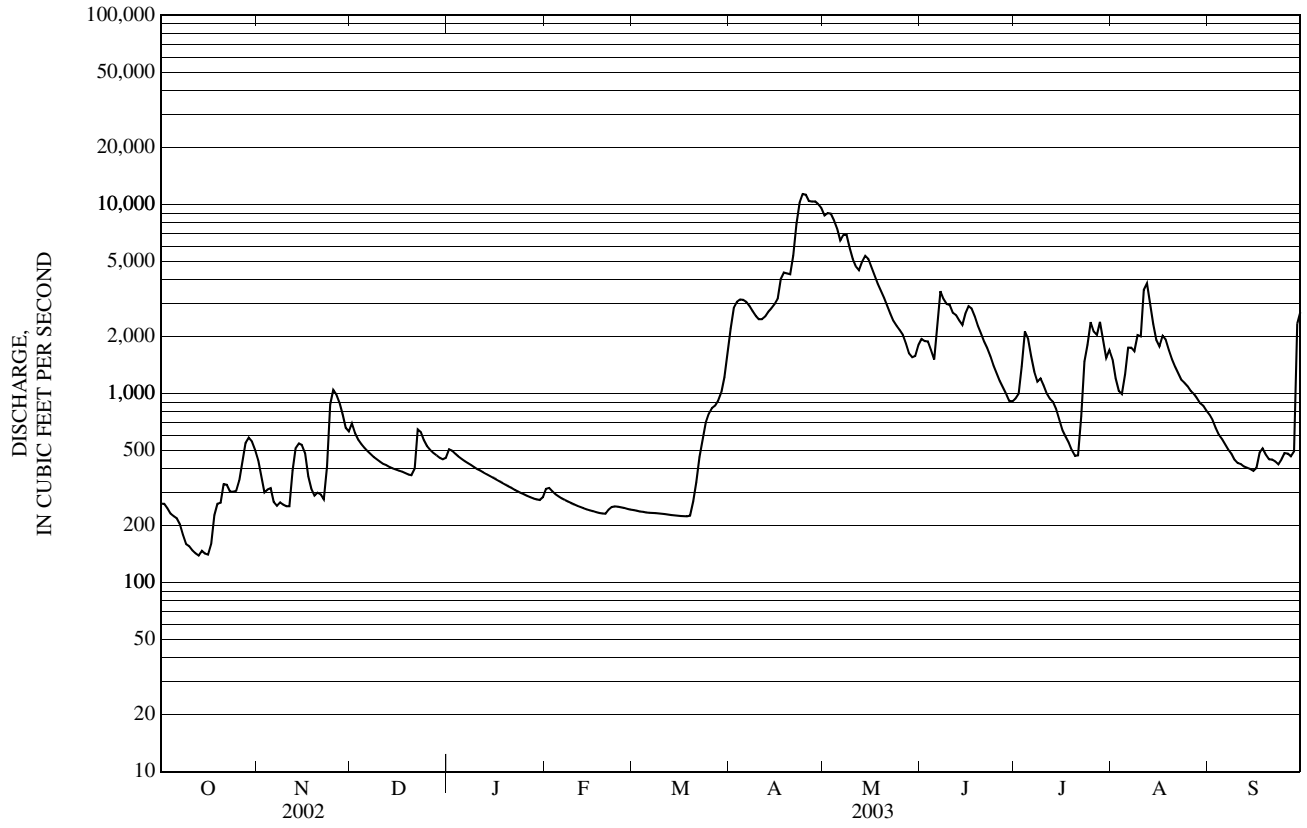
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2003, BY WATER YEAR (WY)

MEAN	1,241	1,548	1,171	716	591	781	4,792	6,392	2,217	1,407	1,082	1,044
MAX	5,068	4,628	4,549	1,865	2,400	3,610	10,100	13,550	4,544	4,053	5,292	3,419
(WY)	(1991)	(1964)	(1951)	(1958)	(1996)	(1979)	(1976)	(1961)	(1947)	(1954)	(1976)	(1999)
MIN	149	235	252	192	119	181	623	1,269	611	365	165	122
(WY)	(1969)	(1969)	(1969)	(1948)	(1948)	(1956)	(1944)	(1987)	(1998)	(1965)	(1968)	(1968)

e Estimated

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1910 - 2003	
ANNUAL TOTAL	518,019		539,588			
ANNUAL MEAN	1,419		1,478		1,928	
HIGHEST ANNUAL MEAN					2,899	1976
LOWEST ANNUAL MEAN					989	1957
HIGHEST DAILY MEAN	16,600	Apr 19	11,400	Apr 24	32,100	Apr 18, 1983
LOWEST DAILY MEAN	139	Oct 13	139	Oct 13	91	Mar 9, 1948
ANNUAL SEVEN-DAY MINIMUM	145	Oct 10	145	Oct 10	91	Mar 9, 1948
MAXIMUM PEAK FLOW			11,700	Apr 24	36,900	Apr 18, 1983
MAXIMUM PEAK STAGE			9.29	Apr 15	19.78	Apr 10, 1991
INSTANTANEOUS LOW FLOW			133	Oct 13	87	Sep 11, 1960
ANNUAL RUNOFF (CFSM)	1.15		1.20		1.57	
ANNUAL RUNOFF (INCHES)	15.68		16.33		21.32	
10 PERCENT EXCEEDS	3,560		3,320		4,650	
50 PERCENT EXCEEDS	461		544		964	
90 PERCENT EXCEEDS	233		238		313	



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 mi^2.

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

REVISED RECORDS.--WDR ME-82-1: Drainage area. WDR ME-97-1: 1992(M). WDR ME-00-1: 1999.

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

REMARKS.--Records good, including period of ice effect, Jan. 27 to Mar. 21. Satellite gage-height telemeter at station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft^3/s, Apr. 30, 1979, gage height, 15.39 ft; minimum daily discharge, 60 ft^3/s, Oct. 11, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,080 ft^3/s, Apr. 26, gage height, 8.74 ft; minimum daily discharge, 81 ft^3/s, Oct. 13 and 16.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	197	381	236	e109	e101	367	4,700	847	343	352	327
2	113	204	371	233	e120	e100	459	4,520	865	331	344	312
3	109	200	360	226	e133	e100	547	4,340	862	323	335	298
4	100	192	343	220	e131	e99	625	4,100	844	332	333	286
5	102	189	327	214	e135	e98	671	3,780	812	333	410	279
6	98	188	312	209	e129	e97	699	3,490	809	326	618	269
7	93	193	298	205	e123	e97	692	3,350	777	306	1,170	257
8	91	179	295	201	e120	e96	674	3,310	749	292	1,810	245
9	85	175	286	198	e117	e95	653	3,350	720	290	2,020	232
10	84	170	277	193	e114	e95	629	3,270	724	274	2,010	222
11	84	172	268	189	e113	e94	614	3,080	710	266	1,910	213
12	82	183	262	184	e111	e93	636	2,920	727	260	1,710	204
13	81	202	258	179	e109	e93	710	2,810	738	257	1,490	196
14	90	242	256	177	e106	e92	840	2,750	763	252	1,290	189
15	83	286	263	173	e104	e92	1,000	2,720	773	246	1,110	184
16	81	316	257	169	e103	e91	1,180	2,630	763	235	982	181
17	90	337	250	165	e102	e91	1,300	2,460	752	230	893	182
18	97	371	243	160	e102	e91	1,390	2,260	724	221	819	173
19	103	357	236	155	e101	e91	1,450	2,060	696	210	763	165
20	119	341	231	151	e99	e90	1,510	1,880	660	201	703	161
21	127	334	242	149	e99	e95	1,670	1,710	611	198	650	160
22	136	335	244	144	e98	102	2,080	1,550	569	209	600	155
23	142	360	245	139	e103	103	2,870	1,420	530	223	554	150
24	150	371	250	136	e113	104	3,920	1,290	491	264	519	156
25	157	385	253	132	e106	106	4,730	1,190	459	291	480	151
26	161	403	258	129	e103	115	5,050	1,100	434	297	452	152
27	177	413	256	e126	e102	127	5,010	1,020	410	315	434	148
28	188	413	254	e121	e100	137	4,870	943	381	341	406	160
29	190	396	252	e118	---	155	4,870	893	349	344	378	318
30	191	381	247	e114	---	207	4,800	851	334	353	364	434
31	193	---	240	e112	---	278	---	840	---	357	343	---
TOTAL	3,706	8,485	8,515	5,257	3,105	3,425	56,516	76,587	19,883	8,720	26,252	6,559
MEAN	120	283	275	170	111	110	1,884	2,471	663	281	847	219
MAX	193	413	381	236	135	278	5,050	4,700	865	357	2,020	434
MIN	81	170	231	112	98	90	367	840	334	198	333	148
CFSM	0.23	0.54	0.52	0.32	0.21	0.21	3.60	4.71	1.26	0.54	1.62	0.42
IN.	0.26	0.60	0.60	0.37	0.22	0.24	4.01	5.44	1.41	0.62	1.86	0.47

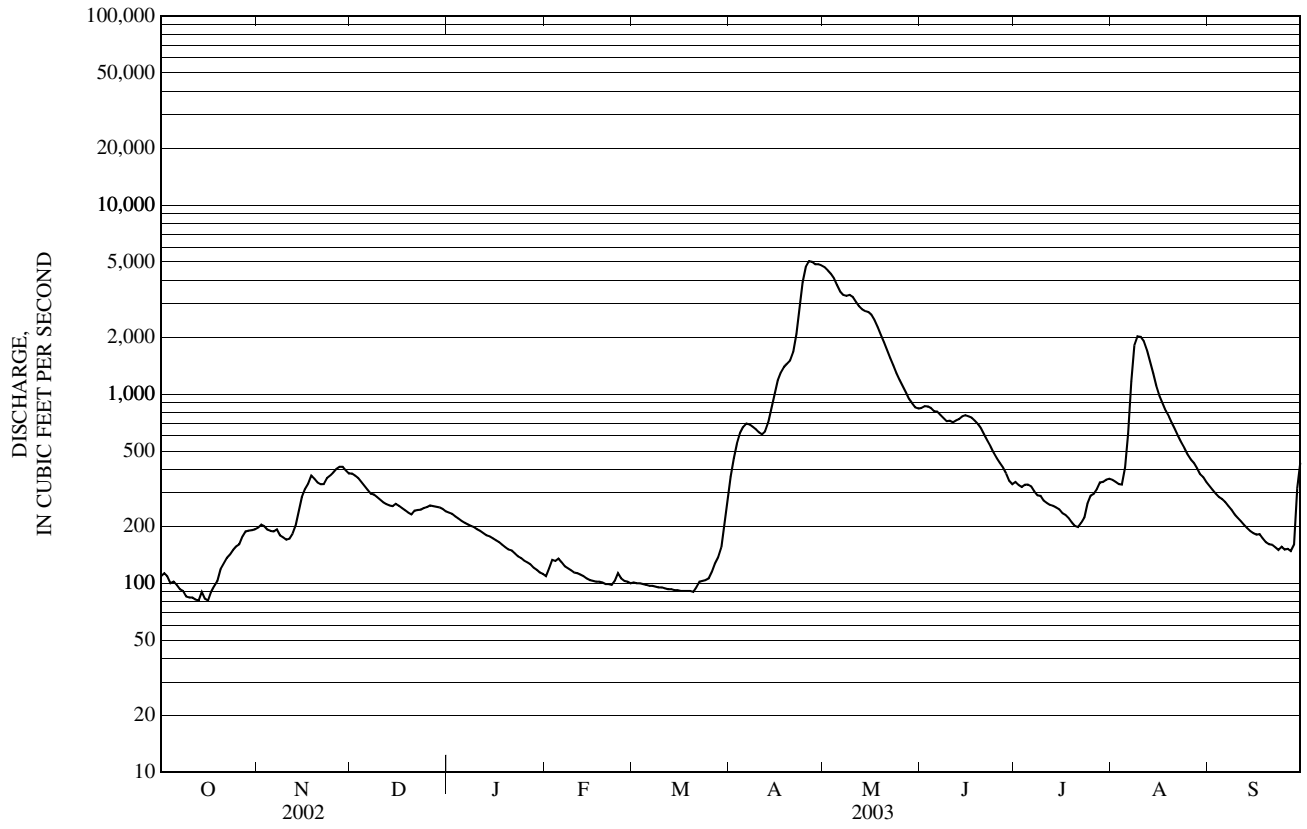
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2003, BY WATER YEAR (WY)

MEAN	517	695	535	323	274	320	2,192	3,296	950	511	438	371
MAX	1,650	1,889	1,393	839	1,072	1,116	4,554	6,360	1,954	1,730	2,055	1,222
(WY)	(1955)	(1964)	(1958)	(1958)	(1981)	(1981)	(1983)	(1974)	(1994)	(1992)	(1981)	(1971)
MIN	84.3	97.4	102	115	111	107	558	606	438	206	101	83.4
(WY)	(1969)	(1979)	(1979)	(1990)	(2003)	(1962)	(1967)	(1987)	(1998)	(1991)	(1978)	(1978)

e Estimated

01011500 ST. FRANCIS RIVER AT OUTLET OF GLASIER LAKE, NEAR—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1952 - 2003	
ANNUAL TOTAL	218,979		227,010			
ANNUAL MEAN	600		622		871	
HIGHEST ANNUAL MEAN					1,285	1958
LOWEST ANNUAL MEAN					485	1965
HIGHEST DAILY MEAN	7,060	Apr 20	5,050	Apr 26	14,500	Apr 30, 1979
LOWEST DAILY MEAN	79	Sep 7	81	Oct 13	60	Oct 11, 1978
ANNUAL SEVEN-DAY MINIMUM	84	Sep 4	84	Oct 10	64	Oct 3, 2000
MAXIMUM PEAK FLOW			5,080	Apr 26	15,000	Apr 30, 1979
MAXIMUM PEAK STAGE			8.74	Apr 26	15.39	Apr 30, 1979
ANNUAL RUNOFF (CFSM)	1.14		1.19		1.66	
ANNUAL RUNOFF (INCHES)	15.55		16.12		22.58	
10 PERCENT EXCEEDS	1,660		1,600		2,080	
50 PERCENT EXCEEDS	248		257		418	
90 PERCENT EXCEEDS	115		100		148	



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 mi^2.

PERIOD OF RECORD.--
DISCHARGE: 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.--WSP 2101: 1969(M). 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.--Records good, except for periods of ice effect, Dec. 4-5, 9-10, and Dec. 16 to Apr. 12, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s, Apr. 30, 1973, gage height, 12.43 ft; minimum discharge, 34 ft^3/s, Aug. 29, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,810 ft^3/s, Apr. 27, gage height, 8.10 ft; minimum discharge, 82 ft^3/s, Oct. 14-16, gage height, 2.11 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	258	948	e612	e266	e269	e692	7,480	2,010	809	1,530	1,350
2	121	255	944	e621	e291	e264	e826	7,440	2,010	812	1,600	1,260
3	112	250	926	e597	e329	e269	e921	7,260	1,970	860	1,570	1,170
4	110	249	e914	e572	e358	e261	e996	7,010	1,900	912	1,560	1,110
5	118	252	e882	e560	e375	e264	e1,050	6,770	1,830	919	2,180	1,040
6	101	259	847	e543	e372	e264	e1,060	6,530	1,920	895	2,920	969
7	101	258	825	e526	e365	e261	e1,060	6,800	1,970	862	3,500	906
8	93	255	801	e504	e351	e266	e1,020	6,680	1,960	846	3,820	846
9	85	258	e770	e491	e337	e264	e977	6,450	1,960	802	4,520	797
10	89	256	e747	e478	e323	e266	e930	6,230	1,920	746	4,960	748
11	90	278	718	e463	e310	e271	e1,020	6,040	1,890	726	6,070	710
12	87	316	692	e454	e301	e266	e1,180	5,820	1,860	716	6,300	673
13	89	336	672	e439	e293	e261	1,360	5,610	1,800	724	6,160	645
14	93	358	658	e424	e286	e261	1,470	5,410	1,770	683	5,750	614
15	85	377	682	e417	e279	e269	1,640	5,170	1,760	656	5,300	590
16	84	377	e687	e408	e273	e266	1,880	4,870	1,720	634	4,880	579
17	138	385	e663	e400	e277	e266	2,000	4,570	1,670	609	4,510	583
18	176	426	e655	e391	e274	e264	2,160	4,260	1,610	574	4,060	556
19	162	460	e643	e379	e269	e261	2,330	3,980	1,550	545	3,700	530
20	176	478	e640	e367	e275	e273	2,560	3,740	1,470	518	3,380	520
21	184	481	e667	e360	e271	e290	2,920	3,480	1,390	507	3,130	508
22	186	501	e666	e350	e266	e295	3,670	3,250	1,310	581	2,870	488
23	191	698	e659	e334	e281	e284	5,030	3,050	1,240	651	2,610	481
24	200	778	e655	e324	e297	e273	6,380	2,840	1,180	795	2,410	479
25	209	846	e651	e314	e293	e266	7,070	2,670	1,110	1,020	2,230	465
26	219	895	e645	e304	e288	e261	7,360	2,490	1,050	1,060	2,070	433
27	247	926	e637	e293	e281	e271	7,690	2,340	983	1,200	1,950	422
28	267	924	e631	e296	e275	e315	7,730	2,210	916	1,260	1,790	557
29	258	930	e625	e298	---	e376	7,670	2,130	861	1,280	1,670	2,060
30	254	943	e619	e288	---	e457	7,610	2,060	846	1,350	1,570	1,810
31	257	---	e616	e278	---	e557	---	2,060	---	1,510	1,460	---
TOTAL	4,706	14,263	22,385	13,085	8,456	8,951	90,262	146,700	47,436	26,062	102,030	23,899
MEAN	152	475	722	422	302	289	3,009	4,732	1,581	841	3,291	797
MAX	267	943	948	621	375	557	7,730	7,480	2,010	1,510	6,300	2,060
MIN	84	249	616	278	266	261	692	2,060	846	507	1,460	422
CFSM	0.17	0.54	0.83	0.48	0.35	0.33	3.45	5.42	1.81	0.96	3.77	0.91
IN.	0.20	0.61	0.95	0.56	0.36	0.38	3.85	6.25	2.02	1.11	4.35	1.02

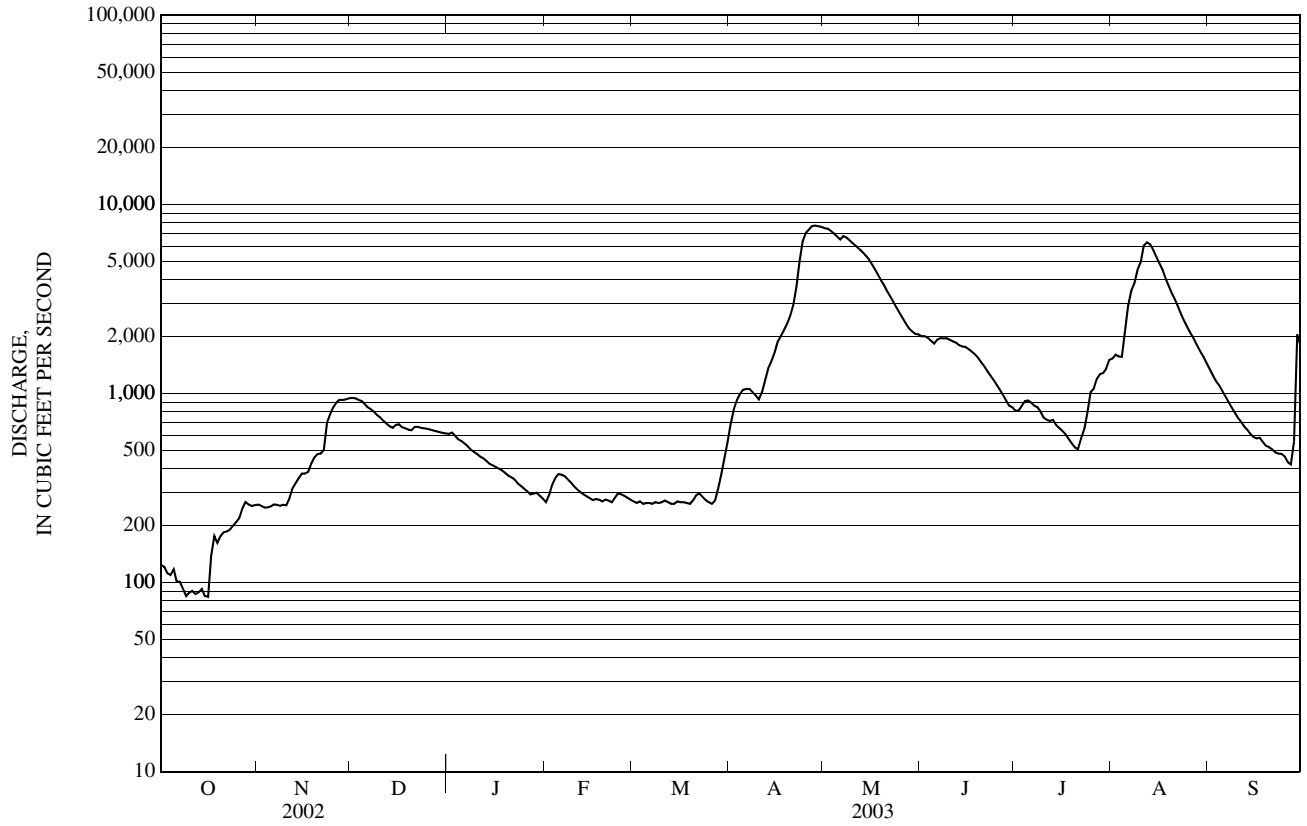
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2003, BY WATER YEAR (WY)

MEAN	744	1,166	1,055	620	494	574	3,135	5,082	1,774	948	701	569
MAX	2,776	4,116	4,688	1,891	1,750	3,104	7,495	8,951	3,696	3,075	3,571	2,492
(WY)	(1991)	(1964)	(1951)	(1958)	(1996)	(1936)	(1953)	(1969)	(1961)	(1954)	(1954)	(1963)
MIN	63.1	98.2	103	149	116	107	390	1,327	652	294	112	51.7
(WY)	(1906)	(1906)	(1956)	(1904)	(1904)	(1944)	(1944)	(1987)	(1988)	(1965)	(1968)	(1968)

e Estimated

01013500 FISH RIVER NEAR FORT KENT, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1903 - 2003	
ANNUAL TOTAL	362,411		508,235			
ANNUAL MEAN	993		1,392		1,413	
HIGHEST ANNUAL MEAN					2,175	1973
LOWEST ANNUAL MEAN					773	1965
HIGHEST DAILY MEAN	7,230	Apr 20	7,730	Apr 28	15,600	Apr 30, 1973
LOWEST DAILY MEAN	84	Sep 10	84	Oct 16	42	Oct 4, 1995
ANNUAL SEVEN-DAY MINIMUM	88	Oct 10	88	Oct 10	44	Oct 1, 1995
MAXIMUM PEAK FLOW			7,810	Apr 27	15,800	Apr 30, 1973
MAXIMUM PEAK STAGE			8.10	Apr 27	12.43	Apr 30, 1973
INSTANTANEOUS LOW FLOW			82	Oct 14	34	Aug 29, 1968
ANNUAL RUNOFF (CFSM)	1.14		1.59		1.62	
ANNUAL RUNOFF (INCHES)	15.44		21.66		21.99	
10 PERCENT EXCEEDS	2,850		4,010		3,580	
50 PERCENT EXCEEDS	403		666		720	
90 PERCENT EXCEEDS	132		258		225	



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 miles downstream from Fish River.

DRAINAGE AREA.--5,665 mi^2, not including 249 mi^2 drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--
DISCHARGE: 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 October 10, 1933, nonrecording gage, and August 23, 2001 to November 4, 2002, water-stage recorder on left bank at Clair, New Brunswick, Canada at same datum.

REMARKS.--Records good, including periods of no gage-height record, Oct. 3, 6, and periods of doubtful gage-height record, June 3-4, June 30 to July 2, July 16-21, Aug. 6-7, and Sept. 18, except for periods of ice effect, Nov. 2-5, 7-8, and Nov. 18 to Apr. 18, which are fair. Telephone and satellite gage-height telemeters at station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151,000 ft^3/s, Apr. 30, 1979, gage height, 27.31 ft; minimum daily discharge, 510 ft^3/s, Mar. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 45,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 25	0515	*62,100	*17.28

Date	Time	Discharge (ft^3/s)	Gage height (ft)
No other peak greater than base discharge.			

Minimum discharge, 633 ft^3/s, Oct. 13, 16, gage height, 0.74 ft.

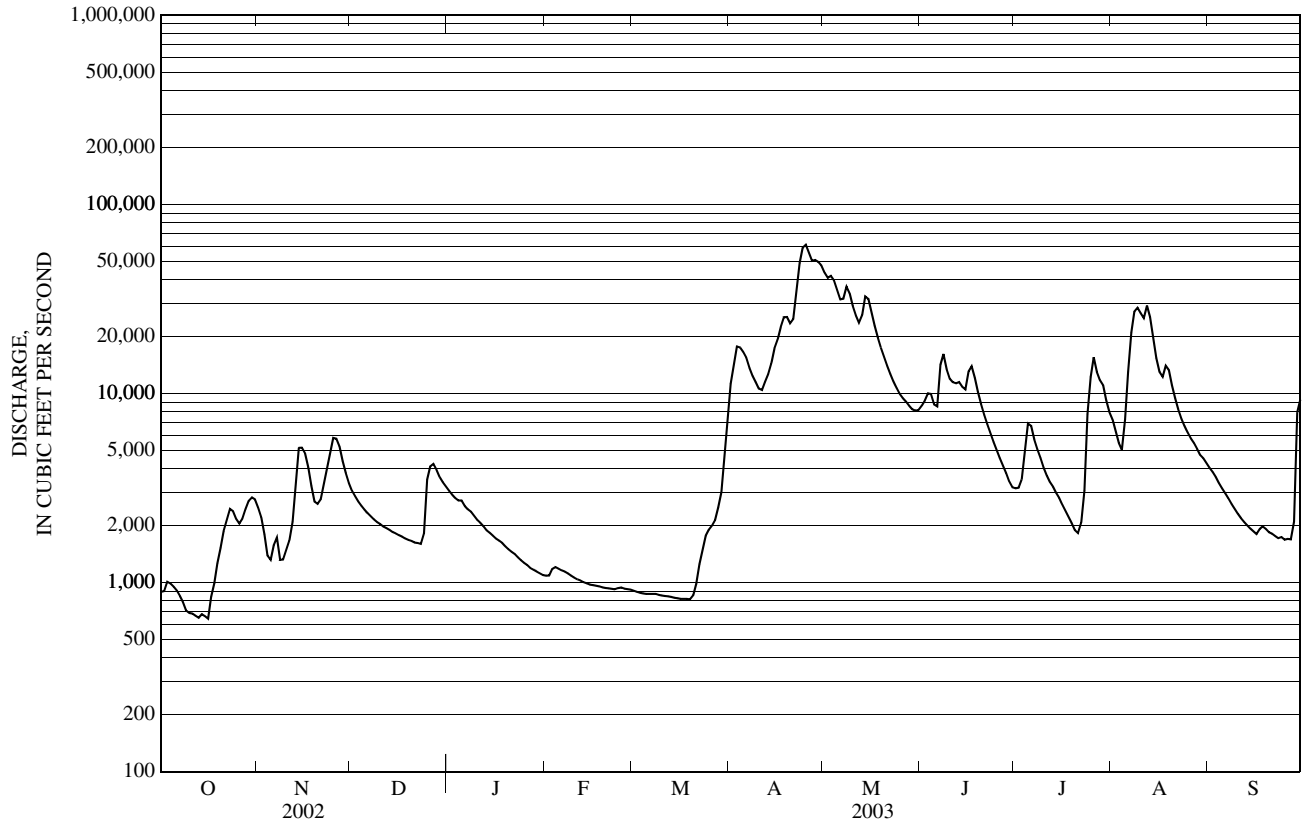
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	894	2,490	e3,060	e3,060	e1,090	e906	e11,300	43,600	8,590	e3,150	7,290	4,050
2	902	e2,220	e2,860	e2,920	e1,090	e894	e14,200	41,000	9,150	e3,180	6,340	3,850
3	e1,010	e1,800	e2,680	e2,800	e1,180	e883	e17,700	42,000	e10,000	3,510	5,480	3,620
4	990	e1,390	e2,550	e2,720	e1,210	e877	e17,500	39,600	e9,940	5,050	5,050	3,360
5	950	e1,320	e2,430	e2,720	e1,180	e872	e16,600	35,300	8,750	6,940	7,300	3,160
6	e910	1,570	e2,330	e2,550	e1,160	e872	e15,500	31,500	8,550	6,740	e13,000	2,970
7	850	e1,730	e2,240	e2,440	e1,140	e872	e13,700	31,700	14,200	5,700	e21,000	2,790
8	788	e1,320	e2,160	e2,370	e1,120	e872	e12,400	36,800	16,200	5,080	27,100	2,610
9	712	1,320	e2,090	e2,260	e1,090	e861	e11,500	33,900	13,400	4,550	28,400	2,460
10	691	1,490	e2,040	e2,150	e1,060	e855	e10,600	29,100	12,000	4,060	26,600	2,320
11	686	1,670	e1,980	e2,070	e1,040	e850	e10,400	25,900	11,500	3,680	25,100	2,190
12	669	2,090	e1,940	e1,990	e1,030	e845	e11,500	23,700	11,300	3,410	29,200	2,100
13	652	3,130	e1,900	e1,890	e1,000	e840	e12,700	26,000	11,500	3,210	25,400	2,010
14	681	5,170	e1,850	e1,840	e990	e832	e14,400	32,600	10,800	2,980	19,600	1,930
15	665	5,170	e1,820	e1,770	e976	e826	e17,300	31,600	10,500	2,800	15,400	1,870
16	644	4,820	e1,780	e1,710	e969	e821	e19,300	27,000	13,100	e2,570	13,000	1,810
17	841	4,070	e1,750	e1,670	e962	e821	e22,400	22,800	14,000	e2,400	12,300	1,920
18	996	e3,260	e1,710	e1,620	e956	e821	e25,300	19,800	12,100	e2,220	14,000	e1,980
19	1,270	e2,680	e1,680	e1,560	e943	e816	25,400	17,500	10,200	e2,060	13,300	1,920
20	1,530	e2,610	e1,660	e1,500	e937	e855	23,500	15,700	8,810	e1,890	11,100	1,840
21	1,870	e2,760	e1,630	e1,460	e933	e987	24,700	14,100	7,710	e1,830	9,440	1,810
22	2,140	e3,360	e1,620	e1,410	e927	e1,250	34,700	12,700	6,890	2,070	8,280	1,760
23	2,450	e4,080	e1,600	e1,360	e921	e1,480	49,000	11,600	6,190	3,070	7,370	1,720
24	2,380	e4,880	e1,810	e1,310	e936	e1,770	59,000	10,700	5,560	7,790	6,750	1,740
25	2,170	e5,830	e3,510	e1,270	e942	e1,900	61,300	9,970	5,030	12,200	6,220	1,690
26	2,050	e5,770	e4,110	e1,240	e930	e2,000	55,800	9,450	4,570	15,600	5,800	1,700
27	2,190	e5,260	e4,240	e1,190	e924	e2,130	50,300	9,070	4,170	13,000	5,480	1,690
28	2,450	e4,390	e3,950	e1,170	e918	e2,490	50,900	8,630	3,790	11,800	5,100	2,100
29	2,710	e3,820	e3,620	e1,140	---	e3,010	49,700	8,260	3,430	11,100	4,740	7,950
30	2,820	e3,360	e3,400	e1,120	---	e4,800	47,600	8,110	e3,190	9,230	4,550	9,290
31	2,760	---	e3,230	e1,100	---	e7,700	---	8,180	---	7,980	4,300	---
TOTAL	43,321	94,830	75,230	57,380	28,554	46,608	806,200	717,870	275,120	170,850	393,990	82,210
MEAN	1,397	3,161	2,427	1,851	1,020	1,503	26,870	23,160	9,171	5,511	12,710	2,740
MAX	2,820	5,830	4,240	3,060	1,210	7,700	61,300	43,600	16,200	15,600	29,200	9,290
MIN	644	1,320	1,600	1,100	918	816	10,400	8,110	3,190	1,830	4,300	1,690
CFSM	0.25	0.56	0.43	0.33	0.18	0.27	4.74	4.09	1.62	0.97	2.24	0.48
IN.	0.28	0.62	0.49	0.38	0.19	0.31	5.29	4.71	1.81	1.12	2.59	0.54
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2003, BY WATER YEAR (WY)												
MEAN	6,501	8,432	5,695	3,260	2,540	3,595	25,310	33,300	10,520	6,365	5,123	4,685
MAX	19,840	24,220	22,900	8,093	12,010	23,590	49,210	68,160	21,800	17,250	24,640	14,700
(WY)	(1991)	(1928)	(1951)	(1995)	(1996)	(1936)	(1983)	(1974)	(1947)	(1984)	(1981)	(1954)
MIN	1,116	1,367	1,232	871	562	669	3,298	6,464	3,374	2,077	910	893
(WY)	(1969)	(1948)	(1956)	(1948)	(1948)	(1944)	(1944)	(1987)	(1998)	(1991)	(1968)	(2002)

e Estimated

01014000 ST. JOHN RIVER BELOW FISH RIVER, AT FORT KENT, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1927 - 2003	
ANNUAL TOTAL	2,505,069		2,792,163			
ANNUAL MEAN	6,863		7,650		9,635	
HIGHEST ANNUAL MEAN					14,100	1928
LOWEST ANNUAL MEAN					5,667	1965
HIGHEST DAILY MEAN	85,300	Apr 19	61,300	Apr 25	146,000	Apr 30, 1979
LOWEST DAILY MEAN	547	Sep 8	644	Oct 16	510	Mar 13, 1948
ANNUAL SEVEN-DAY MINIMUM	588	Sep 4	670	Oct 10	513	Mar 9, 1948
MAXIMUM PEAK FLOW			62,100	Apr 25	151,000	Apr 30, 1979
MAXIMUM PEAK STAGE			17.28	Apr 25	27.31	Apr 30, 1979
INSTANTANEOUS LOW FLOW			633	Oct 13		
ANNUAL RUNOFF (CFSM)	1.21		1.35		1.70	
ANNUAL RUNOFF (INCHES)	16.45		18.34		23.11	
10 PERCENT EXCEEDS	17,900		22,600		22,900	
50 PERCENT EXCEEDS	2,490		2,820		4,570	
90 PERCENT EXCEEDS	955		923		1,490	



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 highway bridge, and 1.8 mi downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--892 mi^2.

PERIOD OF RECORD.--
DISCHARGE: 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.--Records good, except for periods of ice effect, Nov. 7-9 and Nov. 28 to Apr. 21, and periods of no gage-height record, Oct. 9, 16, and Oct. 19 to Nov. 4, which are fair. Slight regulation by Millinocket Lake, capacity 1.11 billion ft^3, used for power. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,100 ft^3/s, Apr. 19, 1983, gage height, 17.70 ft; maximum gage height, 18.00 ft, Apr. 18, 1994 (backwater from ice); minimum discharge, 41 ft^3/s, Sept. 26-27, 1968, gage height, 1.89 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,500 ft^3/s, Apr. 25, gage height, 13.61 ft; minimum discharge, 122 ft^3/s, Sept. 23-24, gage height, 2.70 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	e435	e735	e1,090	e291	e181	e1,940	7,090	1,240	481	441	260
2	220	e381	e665	e1,090	e314	e174	e2,240	6,790	1,530	492	400	237
3	202	e357	e607	e978	e342	e170	e2,380	6,910	1,780	496	373	220
4	190	e349	e563	e897	e360	e165	e2,500	6,350	1,550	534	396	207
5	182	350	e525	e830	e347	e162	e2,470	5,460	1,240	678	1,020	200
6	178	318	e493	e783	e330	e159	e2,410	4,750	1,730	797	1,660	192
7	168	e269	e471	e734	e313	e156	e2,270	4,580	3,260	670	1,760	183
8	159	e292	e451	e683	e301	e153	e2,110	4,660	3,110	539	1,690	175
9	e147	e328	e433	e643	e291	e152	e1,990	4,160	2,520	460	1,380	166
10	148	328	e420	e602	e279	e150	e1,890	3,600	2,150	410	1,140	158
11	151	318	e408	e576	e267	e148	e1,960	3,230	1,880	362	1,320	151
12	147	439	e395	e550	e257	e146	e2,260	3,030	1,770	352	1,520	146
13	144	712	e382	e527	e248	e144	e2,660	3,270	1,610	355	1,320	140
14	150	1,040	e372	e506	e241	e143	e3,110	3,320	1,500	340	1,040	137
15	162	1,120	e362	e493	e232	e142	e3,730	3,070	1,930	315	803	133
16	e159	1,000	e354	e472	e226	e141	e4,650	2,700	2,110	288	665	133
17	191	790	e350	e460	e220	e140	e5,650	2,360	1,930	264	747	137
18	313	562	e345	e441	e214	e139	e6,900	2,090	1,630	245	766	144
19	e450	758	e342	e430	e207	e138	e6,480	1,870	1,360	228	656	135
20	e652	807	e340	e412	e206	e144	e4,910	1,670	1,180	210	557	131
21	e812	754	e689	e401	e202	e164	e4,750	1,490	1,020	203	480	133
22	e788	735	e1,420	e388	e199	e191	6,780	1,350	879	219	432	129
23	e674	1,260	e2,310	e372	e205	e238	9,530	1,240	771	318	385	125
24	e591	2,060	e2,420	e360	e213	e308	11,700	1,160	699	393	350	127
25	e527	2,340	e2,200	e347	e214	e400	12,200	1,100	631	558	320	132
26	e485	2,070	e1,970	e336	e208	e522	10,800	1,060	562	810	290	134
27	e456	1,580	e1,730	e329	e200	e655	9,290	1,000	512	770	305	131
28	e454	e1,210	e1,510	e321	e189	e848	8,750	926	539	698	352	149
29	e485	e994	e1,340	e309	---	e1,050	8,370	867	547	615	345	898
30	e485	e833	e1,220	e302	---	e1,390	7,970	861	480	508	314	2,150
31	e462	---	e1,120	e295	---	e1,680	---	1,010	---	467	282	---
TOTAL	10,569	24,789	26,942	16,957	7,116	10,493	154,650	93,024	43,650	14,075	23,509	7,493
MEAN	341	826	869	547	254	338	5,155	3,001	1,455	454	758	250
MAX	812	2,340	2,420	1,090	360	1,680	12,200	7,090	3,260	810	1,760	2,150
MIN	144	269	340	295	189	138	1,890	861	480	203	282	125
CFSM	0.38	0.93	0.97	0.61	0.28	0.38	5.78	3.36	1.63	0.51	0.85	0.28
IN.	0.44	1.03	1.12	0.71	0.30	0.44	6.45	3.88	1.82	0.59	0.98	0.31

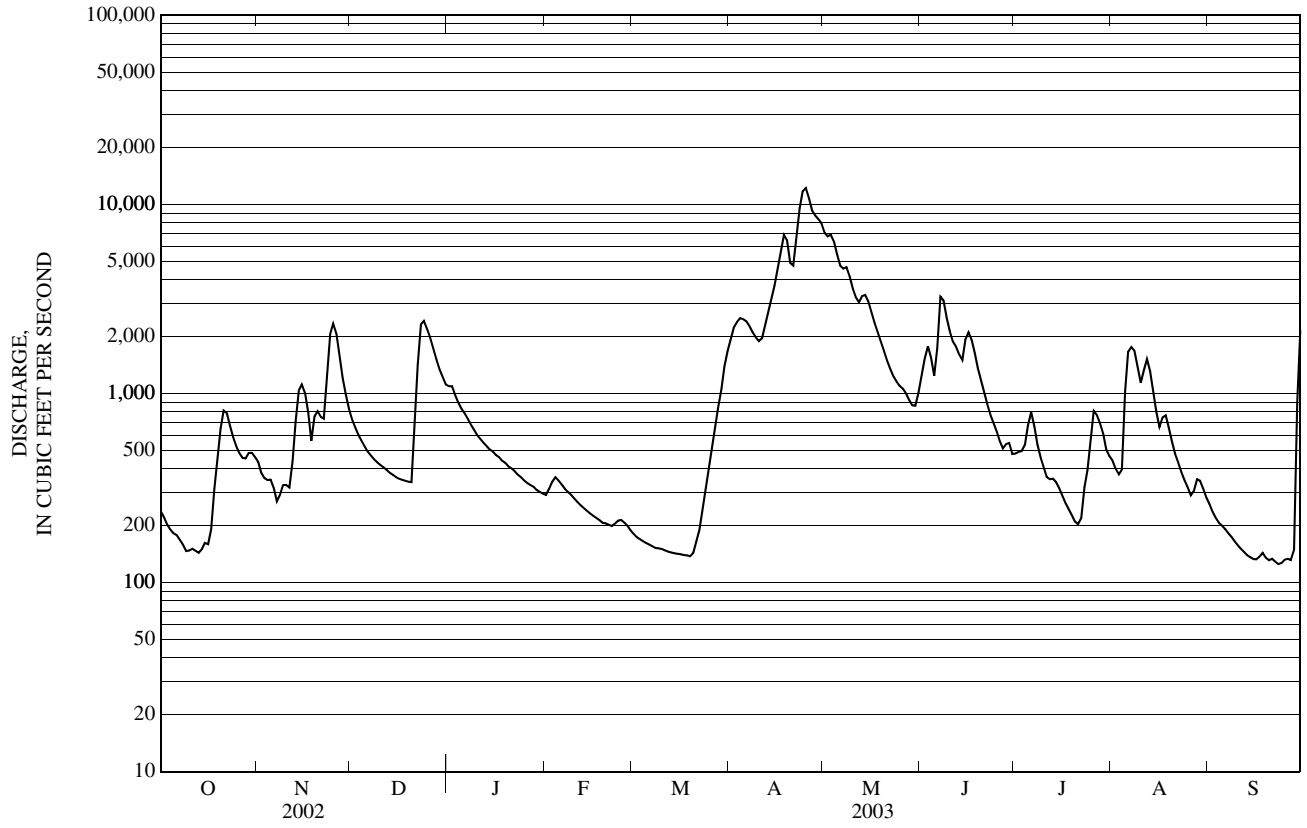
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2003, BY WATER YEAR (WY)

MEAN	995	1,384	1,032	606	596	809	4,580	4,331	1,290	691	596	648
MAX	4,451	5,212	2,823	1,576	2,085	3,749	10,380	11,250	3,591	2,089	2,380	2,939
(WY)	(1982)	(1964)	(1958)	(1996)	(1996)	(1979)	(1976)	(1961)	(1984)	(1962)	(1981)	(1999)
MIN	201	292	242	257	181	198	1,055	1,061	301	77.5	79.5	61.5
(WY)	(1969)	(2002)	(1998)	(1982)	(2002)	(1993)	(1967)	(1987)	(1988)	(1991)	(1968)	(1995)

e Estimated

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1957 - 2003	
ANNUAL TOTAL	421,816		433,267			
ANNUAL MEAN	1,156		1,187		1,464	
HIGHEST ANNUAL MEAN					2,133	1976
LOWEST ANNUAL MEAN					818	1985
HIGHEST DAILY MEAN	12,800	Apr 19	12,200	Apr 25	22,100	Apr 19, 1983
LOWEST DAILY MEAN	84	Sep 3	125	Sep 23	42	Sep 27, 1968
ANNUAL SEVEN-DAY MINIMUM	93	Aug 28	130	Sep 20	44	Sep 26, 1968
MAXIMUM PEAK FLOW			12,500	Apr 25	23,100	Apr 19, 1983
MAXIMUM PEAK STAGE			13.61	Apr 25	18.00	Apr 18, 1994
INSTANTANEOUS LOW FLOW			122	Sep 23	41	Sep 26, 1968
ANNUAL RUNOFF (CFSM)	1.30		1.33		1.64	
ANNUAL RUNOFF (INCHES)	17.59		18.07		22.30	
10 PERCENT EXCEEDS	2,670		2,580		3,640	
50 PERCENT EXCEEDS	485		492		645	
90 PERCENT EXCEEDS	165		153		215	



01017000 AROOSTOOK RIVER AT WASHBURN, ME

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, Hydrologic Unit 01010004, on right bank at 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 mi^2.

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. WDR ME-97-1: 1991(M).

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.--Records good, except for periods of ice effect, Nov. 1-12 and Nov. 17 to Apr. 22, which are fair. Considerable regulation by Squa Pan Lake, capacity 2.893 billion ft^3, used for power. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,400 ft^3/s, Apr. 19, 1983, gage height, 13.73 ft; maximum gage height, 20.91 ft, Dec. 24, 1973 (backwater from ice); minimum daily discharge, 75 ft^3/s, Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,400 ft^3/s, Apr. 25, gage height, 9.91 ft; maximum gage height, 14.06 ft, Apr. 19 (backwater from ice); minimum daily discharge, 222 ft^3/s, Oct. 9-10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	e642	e1,160	e1,940	e783	e457	e3,880	13,700	2,060	939	1,380	533
2	331	e556	e1,040	e1,920	e629	e442	e4,310	13,000	2,610	938	1,200	491
3	299	e486	e953	e2,140	e733	e325	e4,570	12,900	3,100	1,140	1,050	447
4	281	e472	e889	e2,050	e845	e318	e4,710	12,000	2,790	1,470	944	416
5	276	e468	e846	e1,940	e845	e314	e4,850	10,500	2,280	1,640	1,910	402
6	252	e433	e800	e1,840	e800	e311	e4,640	9,180	2,900	1,680	4,940	395
7	249	e368	e756	e1,740	e783	e307	e4,330	9,040	5,600	1,460	5,990	377
8	236	e390	e733	e1,650	e757	e301	e3,990	9,500	5,710	1,180	5,650	356
9	222	e421	e703	e1,580	e733	e297	e3,650	8,530	4,770	1,110	5,840	339
10	222	e421	e686	e1,420	e709	e294	e3,440	7,420	4,060	952	6,720	308
11	226	e409	e668	e1,260	e686	e288	e3,390	6,700	3,980	792	7,100	273
12	226	e680	e656	e1,140	e663	e282	e4,120	6,190	3,230	723	6,050	262
13	223	1,050	e639	e1,060	e656	e279	e5,080	6,510	2,950	698	4,640	252
14	231	1,530	e632	e978	e635	e275	e5,980	6,630	2,690	684	3,560	242
15	234	1,800	e620	e926	e621	e272	e7,490	6,250	3,240	642	2,710	236
16	248	1,710	e608	e896	e607	e269	e9,100	5,510	3,680	577	2,190	232
17	330	e1,410	e597	e1,190	e581	e267	e10,700	4,790	3,480	524	2,380	240
18	535	e1,000	e590	e1,140	e569	e261	e12,300	4,180	2,950	472	2,190	263
19	746	e1,040	e579	e1,120	e550	e258	e11,700	3,710	2,450	430	1,840	259
20	1,030	e1,220	e568	e1,100	e531	e255	e8,920	3,280	2,080	402	1,510	249
21	1,350	e1,110	e1,110	e1,060	e521	e278	e8,320	2,890	1,800	375	1,290	250
22	1,350	e1,020	e2,270	e1,030	e504	e331	e12,600	2,600	1,550	456	1,120	244
23	1,180	e1,810	e4,120	e1,010	e510	e411	18,500	2,360	1,340	1,010	970	240
24	1,010	e3,160	e4,350	e974	e538	e507	22,400	2,190	1,190	1,370	886	241
25	866	e3,480	e3,980	e943	e563	e668	22,800	2,050	1,070	2,240	805	241
26	769	e3,120	e3,500	e922	e544	e881	20,600	1,960	948	2,600	724	242
27	720	e2,510	e3,100	e902	e521	e1,220	18,300	1,830	865	2,660	698	239
28	732	e1,920	e2,690	e873	e442	e1,650	16,800	1,700	894	2,470	696	279
29	770	e1,500	e2,410	e854	---	e2,160	15,800	1,590	1,060	2,040	698	1,790
30	768	e1,280	e2,190	e827	---	e2,750	15,200	1,570	976	1,640	647	5,220
31	719	---	e2,010	e809	---	e3,330	---	1,690	---	1,550	582	---
TOTAL	16,980	37,416	46,453	39,234	17,859	20,258	292,470	181,950	78,303	36,864	78,910	15,558
MEAN	548	1,247	1,498	1,266	638	653	9,749	5,869	2,610	1,189	2,545	519
MAX	1,350	3,480	4,350	2,140	845	3,330	22,800	13,700	5,710	2,660	7,100	5,220
MIN	222	368	568	809	442	255	3,390	1,570	865	375	582	232

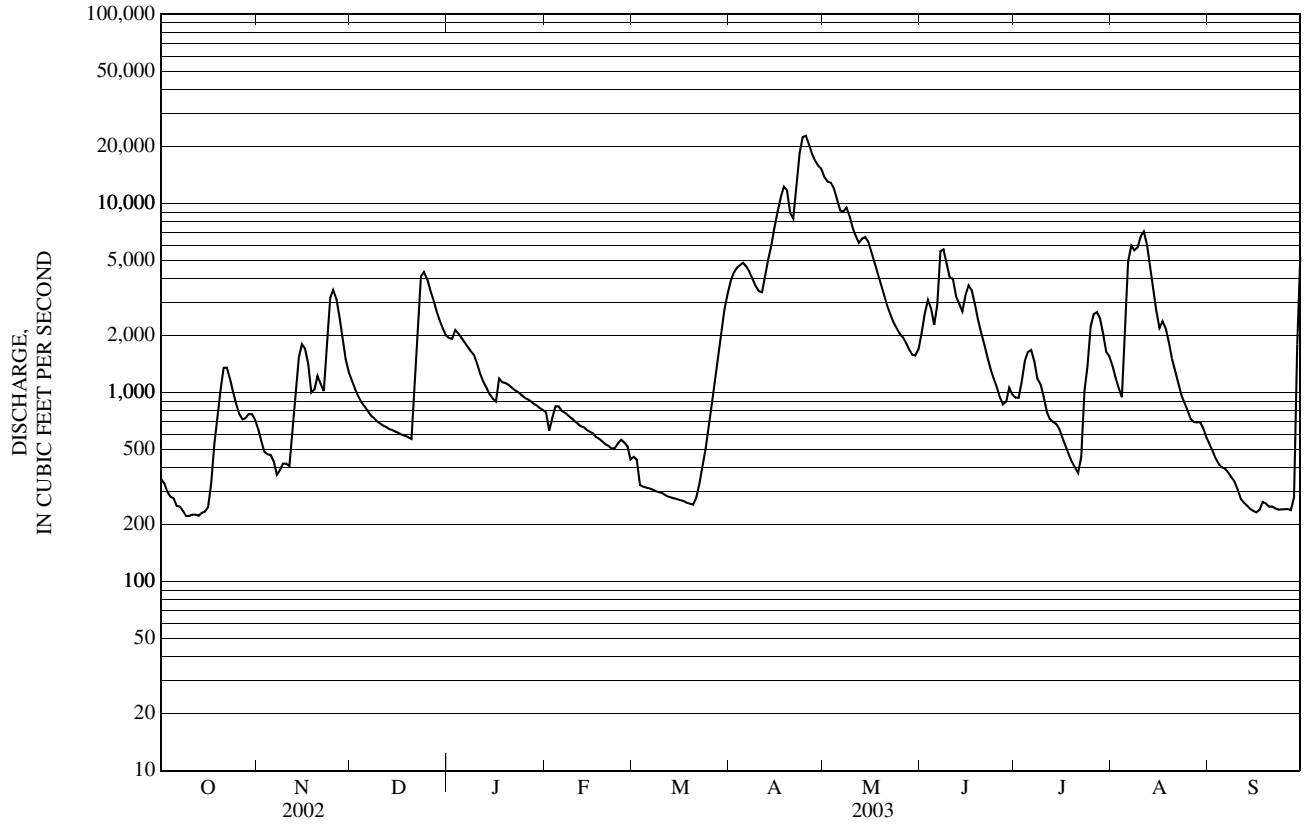
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2003, BY WATER YEAR (WY)

MEAN	1,706	2,468	1,849	1,085	1,043	1,490	8,264	7,806	2,456	1,372	1,027	1,103
MAX	8,098	9,767	7,975	2,893	3,864	10,440	16,990	20,350	6,928	5,882	5,728	5,321
(WY)	(1982)	(1964)	(1951)	(1996)	(1996)	(1936)	(1976)	(1961)	(1984)	(1954)	(1981)	(1999)
MIN	265	218	175	167	101	324	1,468	1,775	634	189	152	106
(WY)	(1956)	(1956)	(1956)	(1948)	(1948)	(1948)	(1944)	(1987)	(1988)	(1991)	(1968)	(1995)

e Estimated

01017000 AROOSTOOK RIVER AT WASHBURN, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1930 - 2003	
ANNUAL TOTAL	741,479		862,255			
ANNUAL MEAN	2,031		2,362		2,642	
HIGHEST ANNUAL MEAN					4,145	1954
LOWEST ANNUAL MEAN					1,409	1957
HIGHEST DAILY MEAN	22,200	Apr 19	22,800	Apr 25	42,500	Apr 19, 1983
LOWEST DAILY MEAN	133	Sep 3	222	Oct 9	75	Feb 13, 1948
ANNUAL SEVEN-DAY MINIMUM	145	Aug 28	226	Oct 9	78	Feb 9, 1948
MAXIMUM PEAK FLOW			23,400	Apr 25	43,400	Apr 19, 1983
MAXIMUM PEAK STAGE			14.06	Apr 19	20.91	Dec 24, 1973
10 PERCENT EXCEEDS	4,990		5,900		6,790	
50 PERCENT EXCEEDS	794		1,020		1,160	
90 PERCENT EXCEEDS	251		277		388	



01017550 WILLIAMS BROOK AT PHAIR, ME

LOCATION.--Lat 46°37'37", long 67°57'12" North American Datum of 1983, Aroostook County, Hydrologic Unit 01010005, on right bank at upstream side of Bangor and Aroostook Railroad bridge, 0.1 mi upstream from Phair, and 2.5 mi upstream from Prestile Stream.

DRAINAGE AREA.--3.82 mi^2.

PERIOD OF RECORD.--
DISCHARGE: November 1999 to current year.

GAGE.--Water-stage recorder and concrete weir. Elevation of gage is 580 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for period of ice effect, Dec. 25 to Mar. 22, which is fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135 ft^3/s, Apr. 23, 2001, gage height, 4.22 ft; minimum discharge, 0.19 ft^3/s, Aug. 16 and 25, 2001, gage height, 1.10 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 23	0000	*82	*3.43

Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peaks greater than base discharge.			

Minimum discharge, 0.48 ft^3/s, Sept. 19, gage height, 1.20 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.84	0.96	2.8	e2.8	e0.92	e0.87	24	23	6.2	4.5	2.4	1.2
2	0.86	0.96	2.7	e2.4	e1.0	e0.87	28	30	12	4.3	1.8	1.4
3	0.73	0.85	2.5	e2.1	e1.3	e0.90	21	24	6.5	5.8	1.9	1.2
4	0.65	0.76	2.4	e2.0	e1.2	e0.89	15	18	4.3	5.6	2.0	1.3
5	0.70	0.84	2.3	e1.9	e1.3	e0.86	12	17	3.7	4.0	9.3	1.3
6	0.70	0.88	2.5	e1.9	e1.2	e0.85	9.8	13	16	2.5	8.1	1.2
7	0.66	0.96	2.5	e1.8	e1.1	e0.82	8.2	25	9.8	1.7	4.4	1.0
8	0.66	0.83	2.5	e1.8	e1.1	e0.80	7.3	19	5.0	1.5	3.1	0.92
9	0.67	0.85	2.2	e1.7	e1.1	e0.79	6.8	13	4.5	2.2	2.3	0.84
10	0.77	1.1	2.2	e1.6	e1.1	e0.78	6.7	13	4.4	1.6	5.2	0.92
11	0.94	2.8	2.2	e1.6	e1.1	e0.76	7.8	12	4.3	1.3	5.7	1.4
12	0.83	3.1	2.2	e1.5	e1.1	e0.76	13	14	5.7	2.2	3.2	0.93
13	0.80	4.4	2.2	e1.5	e1.0	e0.75	23	13	4.0	1.8	2.1	0.78
14	1.2	3.6	2.4	e1.5	e1.0	e0.74	25	11	5.1	1.4	1.8	0.76
15	0.96	2.5	3.9	e1.5	e1.0	e0.72	26	9.6	5.5	1.2	1.6	0.76
16	0.79	2.1	3.2	e1.4	e1.0	e0.70	31	8.3	4.4	1.1	6.1	0.84
17	2.5	1.5	2.7	e1.3	e0.98	e0.72	28	7.6	3.2	1.0	4.4	0.75
18	2.1	1.9	2.4	e1.2	e0.97	e0.71	21	6.9	2.6	0.95	2.5	0.68
19	1.9	1.8	2.4	e1.2	e0.95	e0.70	21	6.8	2.4	0.90	2.0	0.88
20	4.6	1.7	2.6	e1.1	e0.94	e0.70	31	5.8	2.2	0.86	1.9	2.6
21	2.3	1.8	14	e1.1	e0.92	e1.3	43	5.8	2.0	0.96	1.8	2.8
22	1.6	3.4	8.3	e1.1	e0.94	e2.5	68	5.2	1.9	1.7	1.8	1.5
23	1.3	9.3	5.5	e1.0	e0.96	3.2	66	5.7	2.0	1.5	1.5	1.8
24	1.3	6.2	4.5	e1.0	e0.94	3.4	48	5.0	4.2	2.4	1.5	2.6
25	1.2	4.3	e3.7	e1.0	e0.92	3.3	36	4.7	3.9	2.2	1.5	1.9
26	1.1	3.4	e3.1	e0.98	e0.90	3.5	29	4.5	3.6	2.2	1.4	0.93
27	1.5	3.0	e2.7	e0.96	e0.91	4.8	33	4.4	3.6	4.7	2.4	0.82
28	1.8	2.6	e2.5	e0.93	e0.91	6.1	30	3.9	4.0	2.9	1.8	2.2
29	1.4	2.3	e2.4	e0.91	---	8.5	32	4.6	3.6	1.6	1.6	4.0
30	1.1	2.5	e2.3	e0.91	---	14	27	4.7	4.2	3.2	1.4	3.7
31	0.97	---	e2.4	e0.89	---	19	---	6.7	---	4.7	1.3	---
TOTAL	39.43	73.19	102.2	44.58	28.76	85.29	777.6	345.2	144.8	74.47	89.8	43.91
MEAN	1.27	2.44	3.30	1.44	1.03	2.75	25.9	11.1	4.83	2.40	2.90	1.46
MAX	4.6	9.3	14	2.8	1.3	19	68	30	16	5.8	9.3	4.0
MIN	0.65	0.76	2.2	0.89	0.90	0.70	6.7	3.9	1.9	0.86	1.3	0.68
CFSM	0.33	0.64	0.86	0.38	0.27	0.72	6.79	2.92	1.26	0.63	0.76	0.38
IN.	0.38	0.71	1.00	0.43	0.28	0.83	7.57	3.36	1.41	0.73	0.87	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	1.17	3.50	4.17	1.36	1.00	6.10	24.6	9.01	3.32	2.62	1.38	1.08
MAX	1.27	8.16	8.19	2.33	1.62	16.2	28.3	12.4	4.83	4.57	2.90	1.46
(WY)	(2003)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2003)	(2002)	(2003)	(2003)
MIN	1.08	0.96	1.26	0.41	0.39	0.75	20.3	5.74	2.60	1.46	0.40	0.63
(WY)	(2001)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2002)	(2001)	(2001)	(2000)

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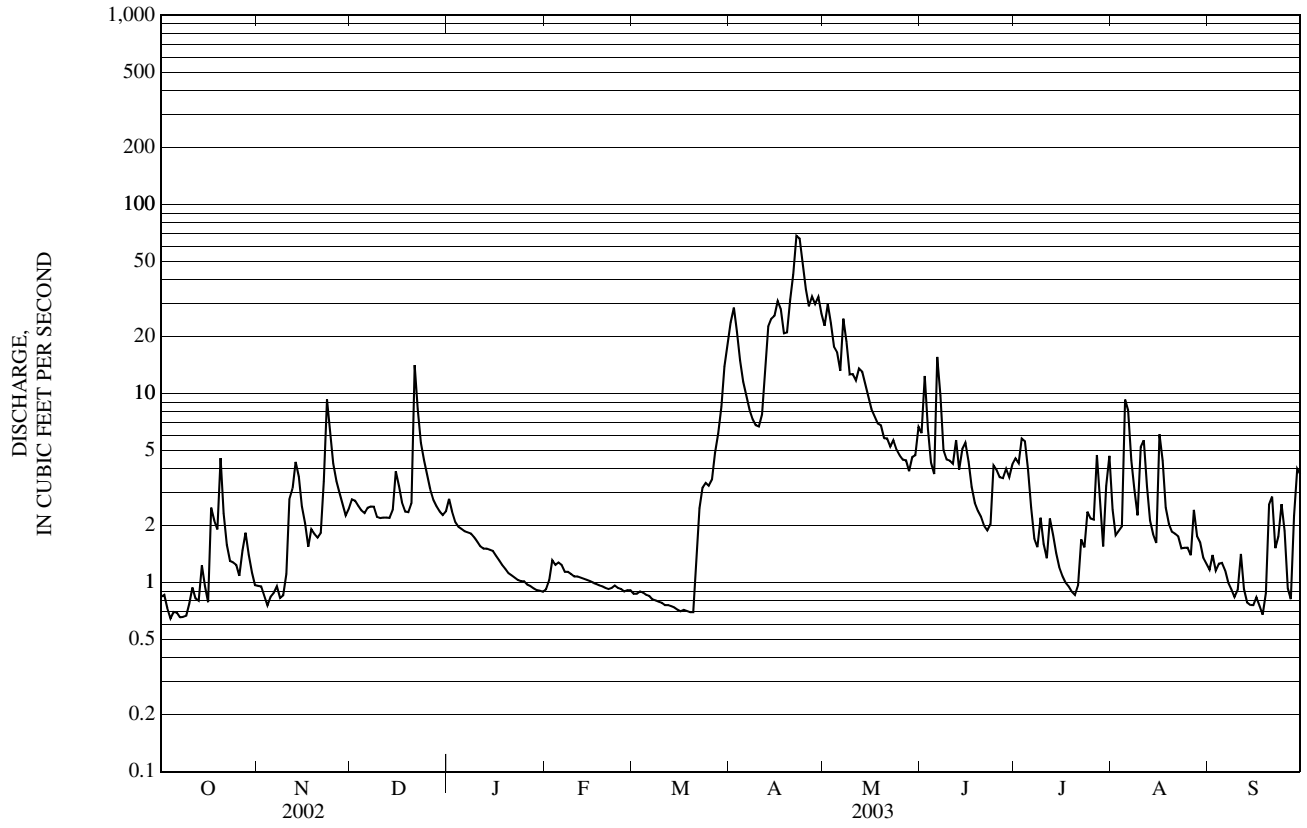
01017550 WILLIAMS BROOK AT PHAIR, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	1,601.94		1,849.23			
ANNUAL MEAN	4.39		5.07		4.23	
HIGHEST ANNUAL MEAN					5.07	2003
LOWEST ANNUAL MEAN					3.53	2001
HIGHEST DAILY MEAN	65	Apr 10	68	Apr 22	117	Apr 23, 2001
LOWEST DAILY MEAN	0.32	Jan 9	0.65	Oct 4	0.24	Aug 25, 2001
ANNUAL SEVEN-DAY MINIMUM	0.35	Jan 5	0.68	Oct 3	0.27	Sep 14, 2001
MAXIMUM PEAK FLOW			82	Apr 23	135	Apr 23, 2001
MAXIMUM PEAK STAGE			3.43	Apr 23	4.22	Apr 23, 2001
INSTANTANEOUS LOW FLOW			0.48	Sep 19	0.19	Aug 16, 2001
ANNUAL RUNOFF (CFSM)	1.15		1.33		1.11	
ANNUAL RUNOFF (INCHES)	15.60		18.01		15.04	
10 PERCENT EXCEEDS	8.9		13		8.9	
50 PERCENT EXCEEDS	2.0		2.1		1.4	
90 PERCENT EXCEEDS	0.39		0.84		0.51	



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 200 ft downstream from international highway bridge in Vanceboro and 500 ft downstream from outlet of Spednik Lake.

DRAINAGE AREA.--413 mi^2.

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. Prior to Mar. 29, 1999 water stage recorder at site 200 ft upstream at international highway bridge at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Chiputneticook Lakes, combined usable capacity about 13.20 billion ft^3. Final regulation is at Spednik Lake Dam, 500 ft (corrected) upstream. Telephone and satellite gage-height telemeters at station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,730 ft^3/s, June 3, 1984, gage height, 11.28 ft; minimum daily discharge, 1.9 ft^3/s, Oct. 12, 22 and Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,860 ft^3/s, May 3, gage height, 8.20 ft; minimum daily discharge, 222 ft^3/s, Apr. 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

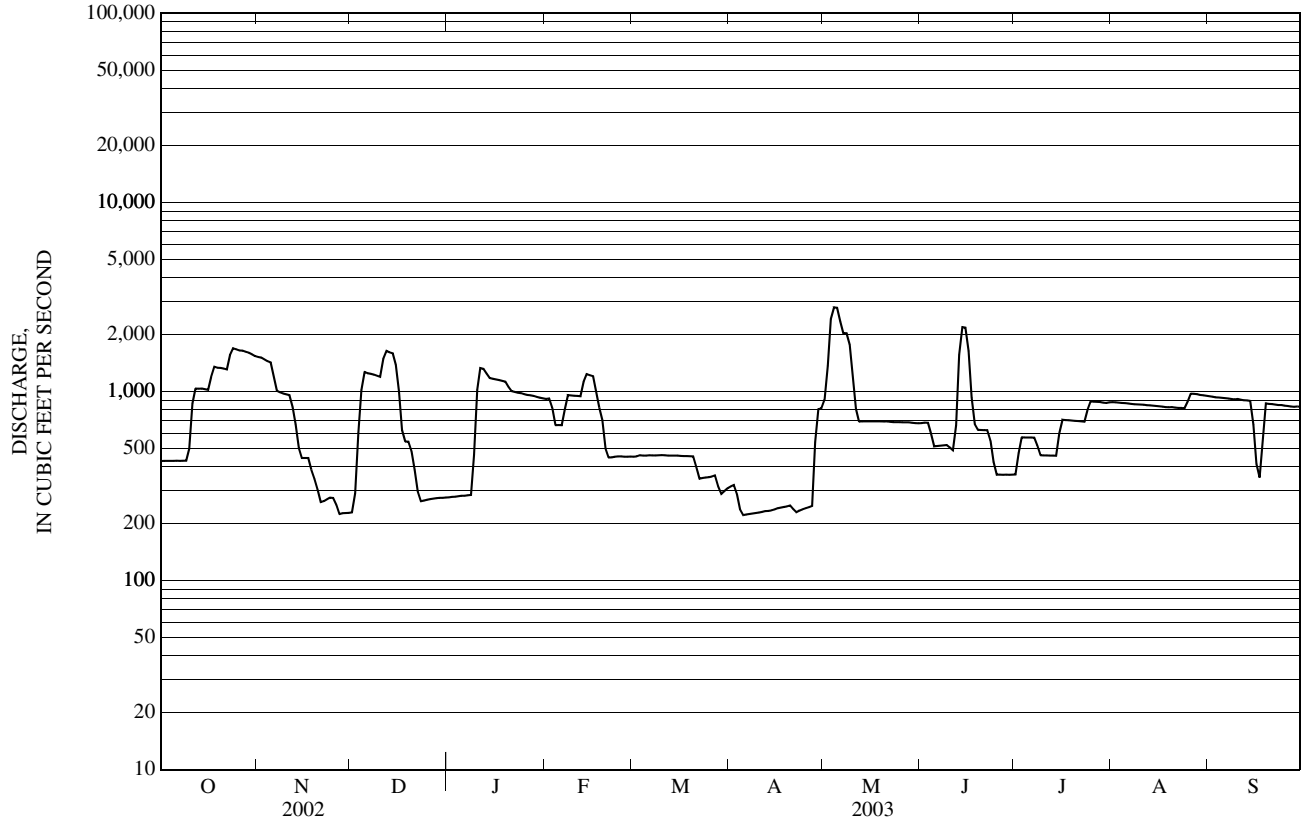
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	1,520	229	276	914	452	314	906	681	364	879	944
2	430	1,510	289	277	918	454	320	1,370	685	473	876	938
3	430	1,480	604	278	821	460	287	2,420	683	572	873	932
4	430	1,450	1,020	279	664	458	237	2,790	600	572	870	930
5	430	1,420	1,270	281	665	458	222	2,770	513	572	868	927
6	431	1,210	1,250	281	664	460	224	2,350	515	572	866	923
7	430	1,010	1,240	283	810	459	225	2,040	517	570	860	920
8	431	989	1,230	284	956	459	226	2,030	519	519	857	914
9	431	976	1,210	462	954	461	228	1,770	521	461	855	909
10	498	967	1,200	1,020	950	461	229	1,190	506	459	853	913
11	865	957	1,490	1,330	948	460	231	810	488	459	851	905
12	1,040	829	1,640	1,320	944	459	233	695	662	459	847	900
13	1,030	670	1,610	1,240	1,130	458	234	696	1,570	458	846	897
14	1,040	503	1,590	1,180	1,230	459	235	696	2,190	458	842	892
15	1,030	445	1,390	1,170	1,220	458	238	696	2,180	602	838	667
16	1,020	445	999	1,160	1,200	457	242	696	1,640	709	835	414
17	1,190	445	625	1,150	995	456	243	695	930	706	832	351
18	1,350	386	545	1,140	821	456	245	696	671	704	827	564
19	1,340	345	543	1,130	707	455	247	695	627	703	826	865
20	1,330	304	485	1,060	499	454	250	694	626	700	827	861
21	1,320	260	385	1,000	448	400	239	695	625	698	823	858
22	1,310	263	297	996	448	346	230	692	624	695	820	853
23	1,560	269	263	986	452	349	234	689	550	693	820	848
24	1,690	275	265	980	454	351	238	688	425	798	813	848
25	1,670	273	268	969	454	353	241	688	364	887	883	841
26	1,650	251	270	960	452	355	244	687	363	883	975	838
27	1,640	225	271	955	452	360	248	687	363	883	972	834
28	1,620	227	273	948	453	315	540	687	363	881	968	831
29	1,600	228	274	937	---	288	807	683	363	874	959	834
30	1,570	228	274	928	---	298	814	681	363	870	956	830
31	1,540	---	275	920	---	308	---	680	---	876	950	---
TOTAL	32,775	20,360	23,574	26,180	21,623	12,877	8,745	34,262	21,727	20,130	26,967	24,981
MEAN	1,057	679	760	845	772	415	292	1,105	724	649	870	833
MAX	1,690	1,520	1,640	1,330	1,230	461	814	2,790	2,190	887	975	944
MIN	429	225	229	276	448	288	222	680	363	364	813	351

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	565	467	524	742	836	693	678	976	870	809	764	675
MAX	1,410	1,427	2,572	1,646	3,034	1,879	2,566	2,801	1,746	1,680	1,646	1,530
(WY)	(1974)	(1982)	(1960)	(1955)	(1978)	(1996)	(1976)	(1945)	(1952)	(1984)	(1984)	(1989)
MIN	121	112	152	234	222	192	75.4	193	219	228	301	216
(WY)	(1945)	(1937)	(1936)	(1999)	(1948)	(1948)	(1938)	(1943)	(1985)	(1966)	(1965)	(1966)

01018500 ST. CROIX RIVER AT VANCEBORO, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	186,034		274,201			
ANNUAL MEAN	510		751		716	
HIGHEST ANNUAL MEAN					1,203	1960
LOWEST ANNUAL MEAN					335	1985
HIGHEST DAILY MEAN	1,690	Oct 24	2,790	May 4	6,210	Jun 3, 1984
LOWEST DAILY MEAN	168	Apr 11	222	Apr 5	1.9	Oct 12, 1936
ANNUAL SEVEN-DAY MINIMUM	213	Apr 7	226	Apr 5	2.0	Oct 11, 1936
MAXIMUM PEAK FLOW			2,860	May 3	6,730	Jun 3, 1984
MAXIMUM PEAK STAGE			8.20	May 3	11.28	Jun 3, 1984
10 PERCENT EXCEEDS	1,020		1,320		1,360	
50 PERCENT EXCEEDS	425		695		592	
90 PERCENT EXCEEDS	223		270		225	



01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

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

DRAINAGE AREA.--227 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1928 to current year. Monthly discharge only for October 1928 published in WSP 1301.
CHEMICAL ANALYSES: Water year 1954.

REVISED RECORDS.--WDR ME-82-1: Drainage area. WDR ME-01-1: 1952, 1954, 1955(M), 1958(M), 1960, 1983(M), 1984(M), 1989(M).

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

REMARKS.--Records good, including periods of ice effect, Dec. 4-5, 7, 9, 26, 30-31, Jan. 2-3, 21-22, and periods of no gage-height record, Nov. 3-5 and Feb. 14-17. Flow completely regulated by Grand Lake, 0.8 mi upstream, and other lakes, combined usable capacity about 8.25 billion ft^3. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft^3/s, Apr. 25, 1983, gage height, 6.69 ft; minimum daily discharge, 5 ft^3/s, Dec. 3-6, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 938 ft^3/s, Feb. 13, gage height, 3.73 ft; maximum gage height, 3.88 ft, Dec. 30 (backwater from ice); minimum daily discharge, 124 ft^3/s, Nov. 21.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	678	150	130	153	407	761	189	148	464	480	342	400
2	673	151	131	e153	409	751	189	153	488	478	342	424
3	669	e150	131	e153	411	756	192	171	604	475	342	440
4	727	e150	e131	162	461	746	194	166	674	474	342	445
5	755	e150	e129	158	521	742	196	165	673	473	342	446
6	748	150	127	156	518	740	197	166	588	473	338	441
7	735	153	e127	157	576	727	199	482	495	470	412	435
8	734	150	126	184	667	720	200	650	495	468	529	432
9	724	150	e129	272	663	708	200	648	495	467	529	392
10	712	150	130	350	659	698	202	523	496	399	526	376
11	701	151	129	384	656	691	203	302	493	353	523	372
12	691	151	129	384	688	683	207	265	492	354	520	335
13	681	154	129	383	816	675	207	266	489	353	516	288
14	684	155	136	382	e927	662	208	266	493	353	458	286
15	669	155	143	382	e913	658	192	266	495	352	384	297
16	572	154	139	382	e894	653	151	266	494	351	381	448
17	437	156	137	381	e881	642	135	265	491	351	381	536
18	334	161	137	381	870	637	135	264	490	351	379	537
19	299	159	137	380	860	630	137	264	490	350	377	511
20	249	144	142	380	842	624	138	266	490	349	375	514
21	201	124	152	e380	829	582	139	267	489	348	374	512
22	165	127	147	e379	819	484	141	266	487	346	372	506
23	158	130	147	378	821	491	144	266	487	347	373	490
24	157	130	147	375	818	473	145	267	486	347	370	495
25	156	130	148	373	806	387	145	269	485	348	405	478
26	156	130	e150	372	791	313	145	260	483	347	423	482
27	157	130	150	372	782	249	148	312	482	346	421	476
28	156	130	151	371	771	179	150	351	482	346	419	476
29	155	130	152	370	---	172	149	352	478	344	410	486
30	153	130	e152	382	---	184	148	403	479	342	409	485
31	150	---	e152	399	---	190	---	462	---	342	404	---
TOTAL	14,236	4,335	4,297	9,868	20,076	17,608	5,125	9,437	15,227	11,977	12,718	13,241
MEAN	459	144	139	318	717	568	171	304	508	386	410	441
MAX	755	161	152	399	927	761	208	650	674	480	529	537
MIN	150	124	126	153	407	172	135	148	464	342	338	286

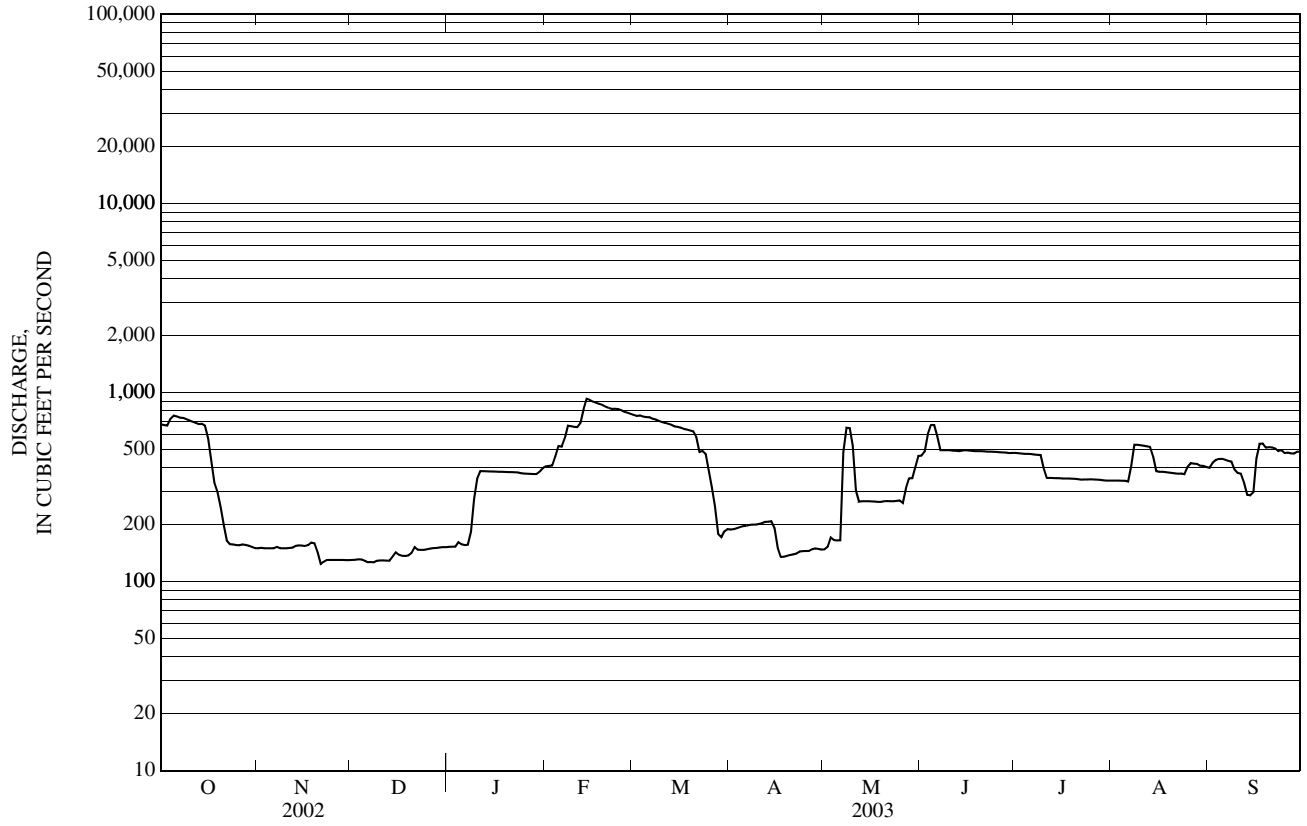
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	341	210	241	359	476	457	335	401	446	421	470	453
MAX	890	666	1,261	1,096	1,330	1,117	1,248	1,127	1,159	843	1,173	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)

e Estimated

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	75,955		138,145			
ANNUAL MEAN	208		378		385	
HIGHEST ANNUAL MEAN					697	1960
LOWEST ANNUAL MEAN					178	1931
HIGHEST DAILY MEAN	755	Oct 5	927	Feb 14	2,580	Apr 26, 1983
LOWEST DAILY MEAN	105	Jan 9	124	Nov 21	5.0	Dec 3, 1945
ANNUAL SEVEN-DAY MINIMUM	105	Jan 7	128	Dec 5	6.4	Dec 1, 1945
MAXIMUM PEAK FLOW			938	Feb 13	2,870	Apr 25, 1983
MAXIMUM PEAK STAGE			3.88	Dec 30	6.69	Apr 25, 1983
10 PERCENT EXCEEDS	407		689		806	
50 PERCENT EXCEEDS	152		372		288	
90 PERCENT EXCEEDS	111		144		120	



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 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1959 to current year. Records for October 1998 to September 1999, published as St.Croix River at Woodland. Records prior to water year 1974 have not been published, but are available in the files of the U.S. Geological Survey.
CHEMICAL ANALYSES: Water year 1971.
WATER TEMPERATURE: 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. July 28, 1999 to Apr. 30, 2000, at site 5.0 mi upstream at different datum.

REMARKS.--Records good, except for periods of ice effect, Jan. 3, 12-20, 22-26, 28-30, Feb. 6-18, 26-28, Mar. 4, 7, 10-11, and period of no gage-height record, Feb. 17-18, which are fair. Flow regulated by Chiputneticook Lakes, Grand Lake, and other lakes, combined capacity 25 billion ft^3. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft^3/s, May 29, 1961, gage height, 12.76 ft; minimum daily discharge, 262 ft^3/s, Oct. 20, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 1, 1923 has been estimated as 24,100 ft^3/s at Baring, based on flows for the St. Croix River near Baileyville (station 01020000); gage height unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,720 ft^3/s, Apr. 1, gage height, 9.46 ft; minimum daily discharge, 919 ft^3/s, July 16.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,630	1,650	2,920	1,880	1,890	2,000	7,870	5,530	2,670	1,000	1,490	1,430
2	1,600	1,500	2,760	1,730	2,340	2,050	8,530	5,300	3,270	1,110	1,560	1,340
3	1,610	1,420	2,430	e1,640	2,220	2,240	8,250	4,870	2,970	989	1,510	1,300
4	1,510	1,490	2,220	1,560	2,240	e2,070	7,450	5,040	2,770	949	1,600	1,560
5	1,480	1,580	3,070	1,790	2,400	2,290	5,990	5,670	2,750	921	1,640	1,810
6	1,450	1,750	2,700	1,760	e2,220	2,240	5,140	5,410	2,770	938	1,820	1,810
7	1,470	1,450	2,200	1,920	e2,260	e2,140	4,970	6,060	2,750	1,090	1,710	1,690
8	1,570	1,740	1,960	1,890	e2,310	2,260	4,150	5,990	2,690	986	1,970	1,440
9	1,540	1,680	2,170	2,400	e2,270	2,340	3,350	5,890	2,360	970	1,780	1,420
10	2,230	1,710	2,020	1,940	e2,220	e2,240	3,260	5,380	2,230	949	1,940	1,390
11	1,850	1,680	2,070	1,660	e2,130	e2,210	3,380	4,340	2,260	949	1,790	1,300
12	1,590	1,660	1,970	e1,800	e2,970	2,030	3,520	3,610	2,360	936	1,930	1,300
13	1,090	1,560	1,970	e1,910	e3,050	1,810	3,760	3,580	2,450	963	1,610	1,460
14	1,080	2,210	2,280	e1,830	e3,210	2,020	4,150	3,250	2,680	980	1,640	1,480
15	1,520	2,580	3,480	e1,820	e1,990	2,040	4,630	3,340	2,790	952	1,660	1,470
16	1,460	2,700	3,360	e1,860	e2,080	2,020	4,850	2,980	2,540	919	1,630	1,270
17	1,140	3,090	3,320	e1,960	e2,130	2,030	5,400	2,920	2,550	969	1,630	1,540
18	1,030	3,550	3,130	e1,930	e2,280	2,310	5,220	2,820	2,780	937	1,540	1,400
19	1,530	3,310	2,880	e1,920	2,160	1,890	5,070	2,640	2,480	935	1,320	1,330
20	2,470	3,140	3,180	e1,760	2,190	1,470	4,890	3,000	2,400	1,110	1,320	1,290
21	2,330	3,280	5,110	1,800	2,080	2,380	4,570	2,570	1,990	938	1,290	1,350
22	2,450	3,360	6,690	e2,010	2,100	2,500	4,490	2,410	1,530	1,150	1,390	1,360
23	2,530	3,620	6,950	e2,020	2,260	3,000	5,670	2,120	1,600	1,500	1,490	1,360
24	2,280	3,630	5,710	e1,780	2,400	2,850	6,740	1,950	1,800	1,490	1,470	1,510
25	2,340	3,730	4,750	e1,670	2,330	2,760	7,090	2,200	1,620	1,500	1,340	1,650
26	2,530	3,330	4,210	e1,690	e2,300	2,990	6,690	2,300	1,290	1,480	1,330	1,600
27	2,550	3,390	3,110	2,040	e2,270	3,410	6,010	2,380	1,100	1,480	1,300	1,580
28	2,240	3,150	2,920	e1,910	e2,100	3,810	5,620	2,340	1,050	1,540	1,300	1,770
29	1,980	2,830	2,850	e1,930	---	3,710	5,690	2,300	1,010	1,490	1,300	1,740
30	1,720	3,080	2,400	e1,930	---	5,190	5,620	2,350	1,010	1,490	1,310	1,670
31	1,730	---	2,050	1,860	---	7,390	---	2,330	---	1,490	1,410	---
TOTAL	55,530	74,850	98,840	57,600	64,400	81,690	162,020	112,870	66,520	35,100	48,020	44,620
MEAN	1,791	2,495	3,188	1,858	2,300	2,635	5,401	3,641	2,217	1,132	1,549	1,487
MAX	2,550	3,730	6,950	2,400	3,210	7,390	8,530	6,060	3,270	1,540	1,970	1,810
MIN	1,030	1,420	1,960	1,560	1,890	1,470	3,260	1,950	1,010	919	1,290	1,270

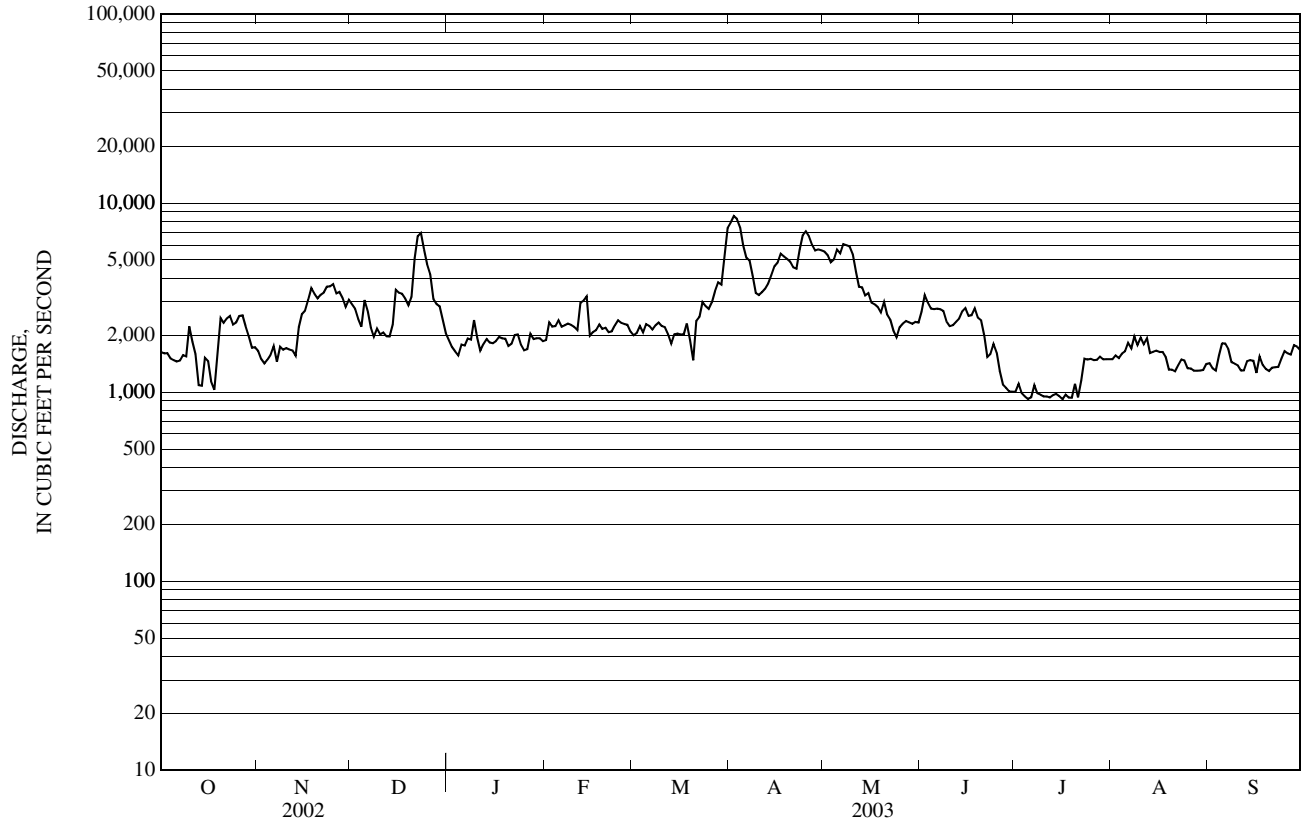
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2003, BY WATER YEAR (WY)

MEAN	1,794	2,254	2,650	2,297	2,635	3,081	5,236	3,678	2,309	1,701	1,590	1,652
MAX	3,865	5,679	8,397	5,303	6,031	8,009	9,438	7,403	6,054	5,042	2,987	3,269
(WY)	(1982)	(1964)	(1960)	(1978)	(1978)	(1998)	(1976)	(1989)	(1977)	(1996)	(1981)	(1981)
MIN	555	381	818	642	756	1,236	2,024	1,076	888	652	636	855
(WY)	(1965)	(1965)	(2002)	(2002)	(2002)	(1993)	(1985)	(1987)	(2002)	(1966)	(1966)	(1978)

e Estimated

01021000 ST. CROIX RIVER AT BARING, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1960 - 2003	
ANNUAL TOTAL	711,307		902,060			
ANNUAL MEAN	1,949		2,471		2,569	
HIGHEST ANNUAL MEAN					3,863	1960
LOWEST ANNUAL MEAN					1,280	1985
HIGHEST DAILY MEAN	8,690	Apr 5	8,530	Apr 2	23,200	May 29, 1961
LOWEST DAILY MEAN	543	Feb 7	919	Jul 16	262	Oct 20, 1964
ANNUAL SEVEN-DAY MINIMUM	547	Feb 6	950	Jul 10	327	Nov 6, 1964
MAXIMUM PEAK FLOW			8,720	Apr 1	23,500	May 29, 1961
MAXIMUM PEAK STAGE			9.46	Apr 1	12.76	May 29, 1961
10 PERCENT EXCEEDS	3,460		4,790		4,790	
50 PERCENT EXCEEDS	1,560		2,050		2,100	
90 PERCENT EXCEEDS	611		1,300		951	



01021050 ST. CROIX RIVER AT MILLTOWN, ME

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.--1,455 mi^2.

PERIOD OF RECORD.--Water years 1969 to 1994, June 1996 to current year.
CHEMICAL ANALYSES: Water years 1969 to August 1994 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1972 to September 1994. Seasonal records (June to September) water years 1996 to current year.
pH: July 1972 to September 1994. Seasonal records (June to September) water years 1996 to current year.
WATER TEMPERATURE: September 1969 to September 1994. Seasonal records (June to September) water years 1996 to current year.
DISSOLVED OXYGEN: September 1969 to September 1994. Seasonal records (June to September) water years 1996 to current year.

REVISED RECORDS.--WDR ME-96-1: Drainage area.

INSTRUMENTATION.--In-situ monitor located 70 ft streamward from right bank, and 1.5 ft above river bed.

REMARKS.--Monitor not operated during period October to May. Records good, except for the periods Aug. 23-25 and Sept. 8-13, which are fair, and Aug. 26-28, Sept. 12-16, and Sept. 25-30, which are poor, for dissolved oxygen. Satellite telemeter at station.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 375 microsiemens/cm, Mar. 6, 1989; minimum, 23 microsiemens/cm, May 2-4, 6, 1979.
pH: Maximum, 11.6 units, Sept. 28, 1974; minimum, 5.3 units, Oct. 18, 1973.
WATER TEMPERATURE: Maximum, 28.4°C, July 4, 2002; 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, 126 microsiemens/cm, July 20; minimum, 52 microsiemens/cm, June 3, 4, and 19-21.
pH: Maximum, 7.3 units, Sept. 17; minimum, 6.4 units, June 25, 26.
WATER TEMPERATURE: Maximum, 27.1°C, July 6; minimum, 14.7°C, June 3.
DISSOLVED OXYGEN: Maximum, 9.2 mg/L, June 3, 4; minimum, 5.6 mg/L, July 18.

SPECIFIC CONDUCTANCE, WATER, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	60	57	58	99	90	96	94	89	92	85	78	81
2	62	57	59	98	91	95	99	90	93	84	80	82
3	58	52	55	96	85	91	97	88	89	87	79	84
4	57	52	55	93	78	88	88	84	86	89	85	87
5	59	55	57	78	67	71	84	79	81	86	77	82
6	60	57	59	67	62	64	86	81	83	79	76	78
7	60	57	58	63	57	62	83	75	78	80	76	78
8	61	58	59	65	54	57	83	69	76	83	76	81
9	61	57	59	82	59	71	72	69	71	93	83	90
10	61	58	59	93	82	89	74	71	72	95	88	92
11	60	58	59	104	87	94	73	70	71	98	91	95
12	62	59	60	99	93	95	78	72	74	103	93	98
13	62	61	62	94	89	91	76	73	75	100	90	96
14	61	59	60	90	85	88	83	74	81	96	87	91
15	63	57	60	92	82	87	82	77	80	96	87	92
16	58	56	57	103	91	97	84	78	81	101	89	93
17	56	55	55	112	102	108	94	83	88	113	101	105
18	56	53	55	115	107	110	96	82	88	102	84	91
19	55	52	53	119	110	115	90	80	87	103	91	98
20	56	52	54	126	116	122	99	89	95	114	103	109
21	59	52	55	122	98	108	97	91	94	114	106	110
22	68	59	63	123	104	117	99	91	96	110	102	105
23	73	64	69	122	100	111	112	84	94	109	103	106
24	70	61	67	100	92	94	94	82	85	114	109	112
25	64	60	62	95	89	93	89	78	82	117	95	103
26	66	56	59	93	84	88	97	82	86	99	92	96
27	80	66	73	92	84	87	89	85	86	99	95	97
28	91	80	87	93	88	91	90	85	87	99	94	96
29	92	88	90	88	83	85	90	84	86	98	89	92
30	95	89	93	94	83	89	92	86	88	90	87	89
31	---	---	---	98	88	93	95	79	87	---	---	---
MONTH	95	52	62	126	54	92	112	69	84	117	76	94
PERIOD	126	52	83									

01021050 ST. CROIX RIVER AT MILLTOWN, ME—Continued

PH, WATER, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.7	6.6	6.6	6.8	6.6	6.7	7.0	7.0	7.0	7.1	6.9	7.0
2	6.7	6.6	6.6	6.8	6.7	6.7	7.0	6.9	6.9	7.1	7.0	7.0
3	6.7	6.5	6.6	6.8	6.7	6.7	7.0	6.9	6.9	7.1	6.9	7.0
4	6.7	6.6	6.6	6.8	6.6	6.7	7.0	6.9	6.9	7.2	6.8	6.9
5	6.6	6.6	6.6	6.7	6.6	6.6	7.0	6.9	6.9	7.0	6.8	6.9
6	6.7	6.6	6.6	6.7	6.6	6.6	7.0	6.9	6.9	7.1	6.8	6.9
7	6.6	6.6	6.6	6.7	6.6	6.6	7.0	6.8	6.8	7.0	6.8	6.9
8	6.6	6.6	6.6	6.6	6.5	6.6	6.9	6.8	6.8	7.0	6.8	6.9
9	6.7	6.6	6.6	6.7	6.5	6.6	6.9	6.8	6.8	6.9	6.7	6.8
10	6.7	6.6	6.6	6.8	6.6	6.7	6.9	6.7	6.8	6.9	6.6	6.7
11	6.7	6.6	6.7	6.9	6.6	6.8	6.9	6.8	6.8	6.8	6.6	6.7
12	6.8	6.6	6.7	7.0	6.9	7.0	6.9	6.7	6.8	7.0	6.8	6.9
13	6.8	6.6	6.7	7.1	7.0	7.0	6.9	6.7	6.8	7.0	6.8	6.9
14	6.8	6.6	6.7	7.1	6.9	7.0	7.0	6.8	6.9	7.0	6.8	6.9
15	6.7	6.6	6.6	7.1	6.9	7.0	7.0	6.8	6.9	7.2	6.9	7.0
16	6.6	6.5	6.6	7.1	6.9	7.0	7.0	6.8	6.9	7.2	7.0	7.1
17	6.7	6.5	6.6	7.0	6.9	7.0	7.0	6.9	7.0	7.3	7.1	7.2
18	6.6	6.5	6.6	7.0	6.8	6.9	7.1	6.9	7.0	7.2	7.0	7.0
19	6.6	6.5	6.6	7.0	6.8	6.8	7.1	7.0	7.0	7.1	7.0	7.1
20	6.6	6.6	6.6	7.0	6.8	6.9	7.1	7.0	7.0	7.1	6.9	7.0
21	6.6	6.5	6.6	7.0	6.8	6.9	7.1	7.0	7.0	7.1	7.0	7.0
22	6.6	6.5	6.6	6.9	6.9	6.9	7.1	7.0	7.0	7.1	7.0	7.1
23	6.6	6.5	6.5	6.9	6.8	6.8	7.2	6.9	7.1	7.1	6.9	7.0
24	6.5	6.5	6.5	6.9	6.8	6.8	7.2	7.0	7.1	7.1	7.0	7.0
25	6.5	6.4	6.5	6.9	6.8	6.8	7.1	7.0	7.0	7.1	6.8	7.0
26	6.6	6.4	6.5	6.9	6.8	6.9	7.1	7.0	7.0	7.0	6.8	6.9
27	6.7	6.6	6.6	7.0	6.8	6.9	7.1	7.0	7.0	7.0	6.8	6.9
28	6.7	6.6	6.7	7.1	6.9	7.0	7.2	6.9	7.0	7.0	6.9	6.9
29	6.7	6.6	6.7	7.1	7.0	7.0	7.2	7.0	7.0	7.0	6.9	6.9
30	6.7	6.6	6.7	7.0	6.9	6.9	7.2	6.9	7.0	7.0	6.9	6.9
31	---	---	---	7.0	6.9	7.0	7.1	6.9	7.0	---	---	---
MONTH	6.8	6.4	6.6	7.1	6.5	6.8	7.2	6.7	6.9	7.3	6.6	6.9
PERIOD	7.3	6.4	6.8									

01021050 ST. CROIX RIVER AT MILLTOWN, ME—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.6	15.3	15.6	25.6	24.3	24.8	23.9	23.1	23.4	21.1	20.2	20.6
2	16.4	14.8	15.5	25.8	24.9	25.2	23.1	22.0	22.4	20.5	20.1	20.3
3	16.9	14.7	15.7	25.6	24.7	25.0	23.2	22.0	22.5	20.4	19.8	20.0
4	17.9	15.0	16.4	26.4	24.9	25.4	23.2	22.4	22.7	20.0	18.6	19.3
5	17.6	15.9	16.5	26.3	25.2	25.6	22.4	21.8	22.1	20.8	18.8	19.7
6	18.3	16.1	17.0	27.1	25.4	26.2	23.0	21.6	22.1	21.0	19.5	20.3
7	18.4	16.7	17.6	26.5	25.4	25.8	23.0	22.3	22.6	21.0	19.5	20.2
8	18.6	17.0	17.7	25.5	23.0	24.6	22.6	22.0	22.3	20.5	19.4	19.8
9	18.5	17.6	17.9	23.9	22.7	23.3	23.6	22.2	22.7	19.8	19.1	19.4
10	19.1	17.0	18.0	24.1	23.2	23.6	23.6	22.7	23.3	19.5	18.8	19.2
11	19.2	17.6	18.5	23.6	21.3	22.9	24.6	22.7	23.5	19.7	19.4	19.6
12	20.5	18.0	19.2	21.8	20.6	21.2	24.7	23.7	24.3	19.7	19.4	19.5
13	20.8	18.3	19.6	24.0	21.8	23.0	24.9	23.7	24.3	20.1	19.4	19.7
14	20.5	17.5	18.5	24.4	23.4	23.9	24.9	24.4	24.6	20.7	19.6	20.0
15	17.9	17.1	17.5	24.2	23.3	23.7	25.2	23.9	24.6	21.8	20.7	21.2
16	19.8	16.7	18.1	23.9	22.8	23.3	25.2	24.0	24.7	21.8	20.1	20.9
17	20.3	17.4	18.9	23.4	22.1	22.7	25.2	23.9	24.5	20.9	19.9	20.4
18	20.3	17.8	19.2	24.8	23.2	24.0	24.7	23.8	24.3	20.8	19.8	20.2
19	19.7	18.2	18.8	24.6	23.5	24.0	25.0	24.0	24.4	20.7	20.1	20.4
20	21.4	18.6	19.8	25.2	24.1	24.6	25.4	25.0	25.1	20.2	19.4	19.8
21	22.0	19.6	20.9	24.7	22.9	23.8	26.0	25.4	25.7	20.9	19.5	20.1
22	22.0	20.3	20.9	22.9	22.2	22.6	26.0	25.5	25.7	20.9	20.4	20.5
23	22.4	20.4	21.2	23.0	22.2	22.6	25.9	23.7	25.0	20.6	19.6	20.1
24	23.2	21.5	22.3	23.1	22.6	22.9	23.7	21.3	22.0	20.3	19.2	19.8
25	23.5	22.1	22.8	24.0	22.4	23.0	22.2	21.1	21.5	20.2	19.0	19.5
26	24.7	22.4	23.2	24.4	23.5	23.9	22.5	22.2	22.4	19.6	18.7	19.1
27	25.1	24.6	24.8	24.5	23.1	23.7	22.7	22.0	22.4	19.9	18.8	19.2
28	25.3	24.4	24.9	23.1	22.2	22.6	22.6	21.8	22.0	19.9	19.1	19.4
29	26.0	24.7	25.4	24.0	21.8	22.7	21.8	21.3	21.5	19.6	19.2	19.4
30	25.8	24.4	25.3	24.1	23.3	23.7	21.8	21.3	21.5	19.4	18.3	18.8
31	---	---	---	24.1	23.2	23.7	21.3	20.4	20.8	---	---	---
MONTH	26.0	14.7	19.6	27.1	20.6	23.8	26.0	20.4	23.3	21.8	18.3	19.9
PERIOD	27.1	14.7	21.7									

01021050 ST. CROIX RIVER AT MILLTOWN, ME—Continued

DISSOLVED OXYGEN, WATER, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.9	8.6	8.8	6.8	6.4	6.6	7.8	7.2	7.4	8.7	7.7	8.1
2	9.1	8.8	8.9	6.8	6.5	6.7	7.6	7.2	7.3	8.6	7.7	8.1
3	9.2	8.6	8.9	7.0	6.4	6.7	7.5	7.1	7.2	8.7	7.9	8.2
4	9.2	8.7	8.9	6.9	6.3	6.7	7.5	7.0	7.2	8.7	7.6	7.9
5	8.9	8.6	8.8	6.8	6.3	6.6	7.3	7.0	7.1	8.0	7.3	7.6
6	8.9	8.5	8.7	6.9	6.4	6.6	7.7	7.2	7.4	8.2	7.3	7.7
7	8.8	8.5	8.6	6.9	6.6	6.7	7.6	7.1	7.3	8.0	7.2	7.6
8	8.7	8.3	8.5	6.9	6.1	6.5	7.6	7.1	7.4	8.0	7.2	7.6
9	8.6	8.2	8.4	7.1	6.2	6.7	7.8	7.2	7.4	8.0	7.2	7.5
10	8.7	8.3	8.5	6.8	6.1	6.4	7.8	7.1	7.5	8.1	7.4	7.7
11	8.6	8.2	8.4	6.5	6.1	6.3	7.8	7.1	7.5	8.1	7.3	7.6
12	8.6	8.2	8.4	6.7	6.1	6.4	7.8	7.1	7.5	8.1	7.4	7.7
13	8.5	8.1	8.3	7.0	6.2	6.6	7.8	7.1	7.4	8.1	7.2	7.6
14	8.4	8.1	8.3	6.9	6.3	6.6	7.9	7.2	7.5	8.0	7.1	7.5
15	8.5	8.1	8.3	7.2	6.5	6.8	7.8	7.1	7.4	7.9	7.0	7.4
16	8.7	8.2	8.4	6.9	6.3	6.6	7.8	7.0	7.3	7.8	6.8	7.4
17	8.6	8.1	8.4	6.7	6.1	6.4	7.6	6.9	7.2	8.3	7.5	7.8
18	8.5	8.1	8.3	6.7	5.6	6.2	7.7	6.8	7.3	8.2	7.4	7.7
19	8.4	8.0	8.2	6.2	5.7	6.0	7.9	7.2	7.4	8.1	7.5	7.7
20	8.5	8.0	8.2	7.0	6.1	6.6	7.7	7.0	7.3	8.1	6.9	7.4
21	8.3	7.8	8.0	7.0	6.2	6.5	7.9	6.8	7.2	7.7	7.1	7.3
22	7.9	7.4	7.6	6.8	6.3	6.6	8.0	7.1	7.5	7.7	7.2	7.4
23	7.8	7.4	7.5	6.6	6.3	6.4	8.2	7.1	7.6	7.9	7.1	7.4
24	7.6	7.1	7.3	6.6	6.2	6.4	8.4	7.7	8.1	8.1	7.4	7.5
25	7.6	7.1	7.3	7.5	6.6	6.9	8.8	8.1	8.4	8.2	7.6	7.8
26	7.5	7.0	7.2	7.6	7.0	7.3	8.9	8.1	8.3	8.2	7.4	7.7
27	7.2	6.7	6.9	7.6	6.7	7.0	8.8	8.0	8.3	8.0	7.6	7.8
28	6.9	6.3	6.6	7.8	6.9	7.3	8.6	7.7	8.0	8.0	7.7	7.9
29	6.8	6.2	6.5	7.8	7.2	7.6	8.4	7.6	7.9	8.0	7.7	7.8
30	6.6	6.2	6.4	7.9	7.2	7.5	8.4	7.4	7.8	8.3	7.8	8.0
31	---	---	---	7.9	7.3	7.6	8.7	7.5	8.0	---	---	---
MONTH	9.2	6.2	8.1	7.9	5.6	6.7	8.9	6.8	7.6	8.7	6.8	7.7
PERIOD	9.2	5.6	7.5									

01021200 DENNYS RIVER AT DENNYSVILLE, 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 Dennysville.

DRAINAGE AREA.--92.9 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1955 to September 1998, May 2001 to current year.
WATER TEMPERATURE: 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.--Records good, except for periods of ice effect, Nov. 28 to Dec. 15, Dec. 21, Dec. 25 to Feb. 5, and Feb. 13 to Mar. 30, periods of doubtful stage-discharge relation, Oct. 23 to Nov. 6 and Sept. 7-10, and periods of no gage-height record, Jan. 9-16, and Jan. 26 to Feb. 5, which are fair. Flow regulated by dam at outlet of Meddybemps Lake, 14 mi upstream, usable capacity about 1.507 billion ft^3. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,930 ft^3/s, Apr. 29, 1973, gage height, 9.35 ft (from rating curve extended above 1,600 ft^3/s); minimum daily discharge, 8.6 ft^3/s, Sept. 30, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,630 ft^3/s, Mar. 31, gage height, 5.79 ft; minimum daily discharge, 55 ft^3/s, Oct. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	e81	e91	e146	e89	e141	1,340	246	200	81	71	62
2	68	e81	e81	e152	e90	e141	1,250	243	534	78	81	61
3	64	e78	e73	e136	e136	e299	1,120	261	560	77	83	60
4	60	e74	e67	e126	e142	e374	1,010	241	444	76	80	72
5	61	e76	e63	e121	e134	e367	933	213	348	75	83	79
6	64	e98	e61	e130	290	e367	885	193	323	74	89	70
7	60	222	e60	e123	278	e317	833	453	308	72	90	e65
8	58	188	e58	e119	253	e275	706	527	287	72	89	e62
9	57	153	e58	e115	225	e238	585	370	272	86	87	e60
10	56	158	e57	e111	199	e211	547	291	259	103	83	e58
11	56	250	e57	e109	180	e191	358	253	245	106	82	58
12	55	247	e57	e106	169	e175	352	247	236	107	83	57
13	56	282	e56	e104	e160	e162	544	356	151	97	82	57
14	64	426	e115	e102	e154	e151	484	374	135	89	79	58
15	65	335	e618	e101	e148	e142	396	279	224	87	76	59
16	59	229	532	e99	e143	e133	378	213	199	82	73	59
17	72	182	330	e98	e139	e127	345	195	159	81	73	62
18	81	460	214	e98	e136	e122	288	183	133	79	72	60
19	77	518	162	e97	e133	e118	251	171	123	79	71	58
20	85	337	155	e96	e130	e116	247	163	120	80	70	65
21	80	249	e753	e95	e129	e164	260	133	109	81	69	80
22	80	248	828	e95	e127	e307	275	118	102	83	68	80
23	e71	463	545	e95	e137	e423	346	115	98	86	67	80
24	e68	457	314	e94	e178	e550	424	118	95	86	65	83
25	e67	315	e206	e93	e197	e526	364	193	91	84	64	82
26	e65	224	e162	e93	e172	e492	301	271	87	87	64	80
27	e97	176	e140	e92	e155	e548	321	251	85	83	64	80
28	e113	e140	e128	e91	e147	e687	346	251	84	81	63	90
29	e106	e120	e120	e90	---	e741	326	265	82	76	62	95
30	e94	e104	e113	e90	---	e1,100	287	248	81	71	66	88
31	e86	---	e110	e89	---	1,530	---	212	---	70	64	---
TOTAL	2,217	6,971	6,384	3,306	4,570	11,235	16,102	7,647	6,174	2,569	2,313	2,080
MEAN	71.5	232	206	107	163	362	537	247	206	82.9	74.6	69.3
MAX	113	518	828	152	290	1,530	1,340	527	560	107	90	95
MIN	55	74	56	89	89	116	247	115	81	70	62	57

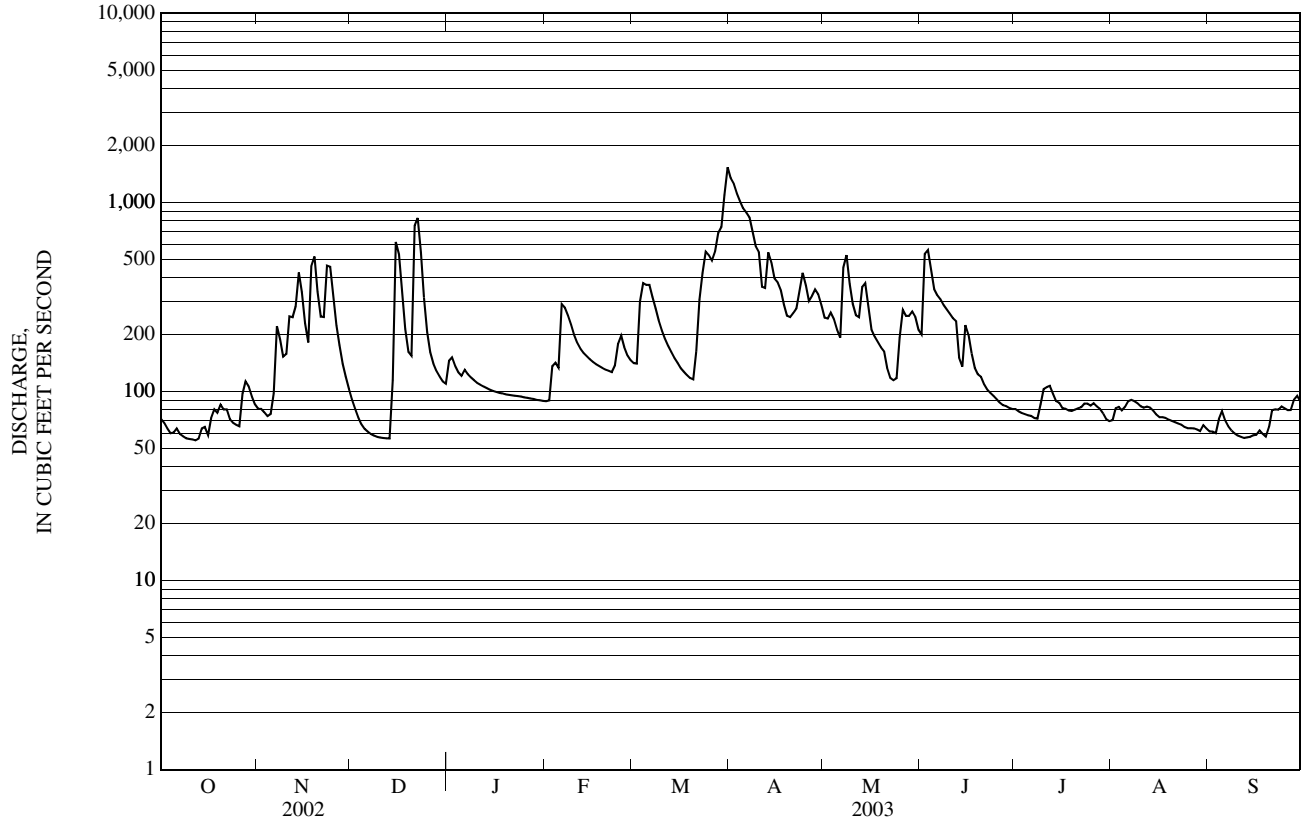
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2003, BY WATER YEAR (WY)

MEAN	110	193	212	188	190	264	440	274	167	101	73.7	78.2
MAX	317	505	508	457	548	666	737	732	382	354	205	201
(WY)	(1978)	(1964)	(1974)	(1958)	(1976)	(1998)	(1969)	(1972)	(1977)	(1996)	(1991)	(1981)
MIN	11.7	33.0	48.5	42.3	79.6	128	134	96.4	35.4	25.3	15.7	11.4
(WY)	(1958)	(2002)	(1956)	(1985)	(1995)	(1971)	(1985)	(1957)	(1965)	(1965)	(1956)	(1957)

e Estimated

01021200 DENNYS RIVER AT DENNYSVILLE, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1956 - 2003	
ANNUAL TOTAL	56,295		71,568			
ANNUAL MEAN	154		196		191	
HIGHEST ANNUAL MEAN					292	1973
LOWEST ANNUAL MEAN					96.0	1985
HIGHEST DAILY MEAN	1,580	Feb 28	1,530	Mar 31	3,350	Apr 29, 1973
LOWEST DAILY MEAN	37	Jan 5	55	Oct 12	8.6	Sep 30, 1957
ANNUAL SEVEN-DAY MINIMUM	40	Jan 5	57	Oct 7	9.5	Sep 25, 1957
MAXIMUM PEAK FLOW			1,630	Mar 31	3,930	Apr 29, 1973
MAXIMUM PEAK STAGE			5.79	Mar 31	9.35	Apr 29, 1973
10 PERCENT EXCEEDS	337		423		415	
50 PERCENT EXCEEDS	89		116		130	
90 PERCENT EXCEEDS	45		64		44	



01021452 MOPANG STREAM NEAR BEDDINGTON, ME

LOCATION.--Lat 44°52'16", long 67°56'27", Washington County, Hydrologic Unit 01050002, on left bank, at downstream side of Route 9 bridge, 6 miles east of Beddington.

DRAINAGE AREA.--18.8 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 310 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for flows below 2.0 ft^3/s, and periods of ice effect, Nov. 27 to Dec. 20 and Dec. 26 to Mar. 27, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 208 ft^3/s, Dec. 21, 2002, gage height, 3.76 ft; maximum gage height 4.25, Feb. 12, 2002 (backwater from ice); minimum discharge 0.71 ft^3/s, Oct. 4-6 and 12, 2001, gage height, 1.45 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	1215	*208	3.76	Mar 31	0915	203	3.72
Mar 3	1030	Ice Jam	*4.07				

Minimum discharge, 1.1 ft^3/s, Aug. 26-27 and Sept. 3-4, gage height, 1.52 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.9	e23	e47	e15	e20	164	71	49	17	6.0	1.5
2	2.0	3.2	e21	e43	e21	e24	139	72	73	16	11	1.4
3	2.0	2.8	e19	e40	e30	e49	125	73	66	15	12	1.3
4	1.7	2.8	e18	e39	e34	e44	115	66	55	15	10	4.2
5	2.2	3.2	e17	e41	e42	e40	108	61	51	17	10	6.3
6	2.2	8.3	e16	e38	e39	e50	106	59	54	18	12	3.8
7	1.8	22	e16	e35	e35	e45	97	108	51	16	11	2.8
8	1.8	12	e16	e33	e32	e39	90	96	48	14	11	2.3
9	1.5	9.5	e15	e31	e29	e34	85	79	45	13	11	1.9
10	1.5	11	e15	e29	e27	e30	82	69	43	12	10	1.8
11	1.4	19	e15	e28	e25	e27	83	63	40	12	13	1.6
12	1.4	20	e15	e26	e23	e25	100	64	38	14	23	1.5
13	1.4	28	e15	e25	e21	e23	109	64	35	12	17	1.4
14	2.0	37	e48	e24	e20	e21	101	60	50	11	13	1.4
15	1.8	28	e149	e23	e19	e20	95	56	62	10	10	1.4
16	1.9	21	e104	e22	e18	e19	99	52	52	10	9.0	1.5
17	5.9	25	e77	e22	e17	e20	95	49	45	10	8.4	1.6
18	5.9	41	e60	e21	e16	e23	87	46	40	9.9	7.8	1.4
19	5.3	34	e50	e20	e16	e23	81	44	38	9.8	7.2	1.3
20	5.9	29	e45	e20	e15	e24	80	42	36	8.4	6.3	1.5
21	4.5	27	186	e19	e15	e32	80	39	32	8.0	4.8	1.7
22	4.0	33	150	e19	e15	e43	81	38	30	9.2	3.8	1.5
23	4.3	48	115	e18	e26	e57	95	38	29	11	2.8	1.5
24	2.9	46	99	e18	e40	e66	97	40	28	12	1.8	2.7
25	2.5	39	89	e18	e31	e64	92	48	26	12	1.3	2.1
26	2.7	33	e81	e17	e26	e62	85	48	24	11	1.2	1.9
27	6.6	e30	e77	e17	e22	e82	92	55	22	9.7	1.4	2.0
28	5.5	e27	e71	e16	e20	99	91	52	21	9.1	1.6	5.4
29	4.3	e25	e58	e16	---	99	84	50	19	7.8	1.4	11
30	3.6	e24	e49	e16	---	148	76	48	18	7.1	2.2	7.5
31	2.9	---	e45	e15	---	195	---	46	---	6.6	1.9	---
TOTAL	95.6	691.7	1,774	796	689	1,547	2,914	1,796	1,220	363.6	242.9	79.2
MEAN	3.08	23.1	57.2	25.7	24.6	49.9	97.1	57.9	40.7	11.7	7.84	2.64
MAX	6.6	48	186	47	42	195	164	108	73	18	23	11
MIN	1.4	2.8	15	15	15	19	76	38	18	6.6	1.2	1.3
CFSM	0.16	1.23	3.04	1.37	1.31	2.65	5.17	3.08	2.16	0.62	0.42	0.14
IN.	0.19	1.37	3.51	1.58	1.36	3.06	5.77	3.55	2.41	0.72	0.48	0.16

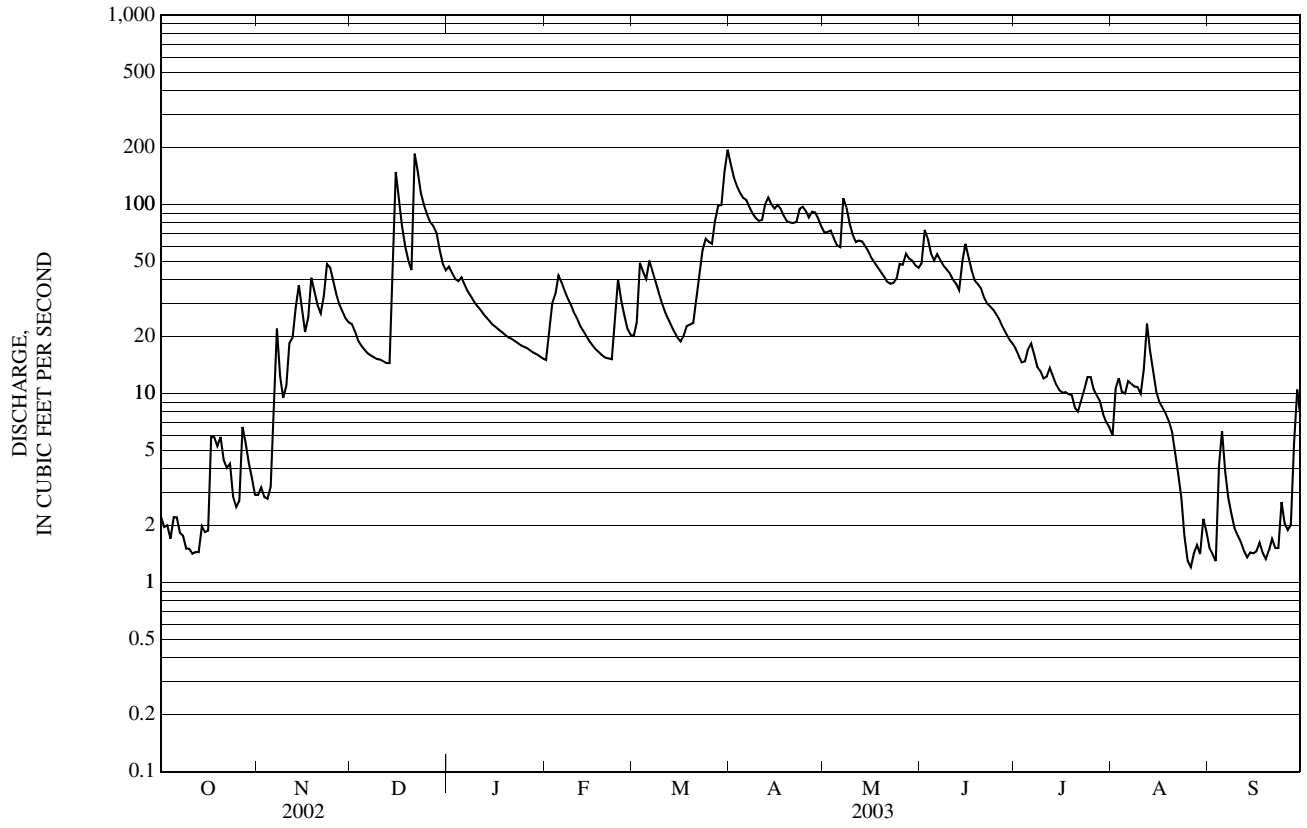
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	2.23	12.9	32.1	17.0	26.8	64.3	101	54.2	31.2	12.1	5.37	2.22
MAX	3.08	23.1	57.2	25.7	29.1	78.6	106	57.9	40.7	12.4	7.84	2.64
(WY)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2003)	(2003)	(2002)	(2003)	(2003)
MIN	1.37	2.69	6.88	8.29	24.6	49.9	97.1	50.5	21.8	11.7	2.91	1.81
(WY)	(2002)	(2002)	(2002)	(2002)	(2003)	(2003)	(2003)	(2002)	(2002)	(2003)	(2002)	(2002)

e Estimated

01021452 MOPANG STREAM NEAR BEDDINGTON, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	11,984.22		12,209.0			
ANNUAL MEAN	32.8		33.4		30.1	
HIGHEST ANNUAL MEAN					33.4	2003
LOWEST ANNUAL MEAN					26.7	2002
HIGHEST DAILY MEAN	186	Dec 21	195	Mar 31	195	Mar 31, 2003
LOWEST DAILY MEAN	0.92	Sep 10	1.2	Aug 26	0.74	Oct 5, 2001
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 5	1.4	Sep 13	0.84	Oct 4, 2001
MAXIMUM PEAK FLOW			208	Dec 21	208	Dec 21, 2002
MAXIMUM PEAK STAGE			4.07	Mar 3	4.25	Feb 12, 2002
INSTANTANEOUS LOW FLOW			1.1	Aug 26	0.71	Oct 4, 2001
ANNUAL RUNOFF (CFSM)	1.75		1.78		1.60	
ANNUAL RUNOFF (INCHES)	23.71		24.16		21.75	
10 PERCENT EXCEEDS	89		83		82	
50 PERCENT EXCEEDS	18		22		17	
90 PERCENT EXCEEDS	1.8		2.0		1.7	



01021470 LIBBY BROOK NEAR NORTHFIELD, ME

LOCATION.--Lat 44°48'03", long 67°43'31", Washington County, Hydrologic Unit 01050002, on left bank, 0.9 mi southwest of the confluence with Machias River.

DRAINAGE AREA.--7.79 mi^2.

PERIOD OF RECORD.--
DISCHARGE: July 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 133.16 ft above North American Vertical Datum of 1988.

REMARKS.--Records good, except for periods of ice effect, Nov. 29 to Dec. 20 and Dec. 25 to Mar. 21, period of doubtful stage-discharge relation, Oct. 29 to Nov. 6, and period of no gage-height record, Dec. 18-19, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190 ft^3/s, Mar. 1, 2002, gage height, 3.48 ft; maximum gage height, 5.68 ft, Mar. 4, 2003 (backwater from ice); minimum discharge, 2.2 ft^3/s, July 26, 2002, gage height, 1.48 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	1600	*127	3.44	Mar 31	0600	118	3.36
Mar 4	0830	Ice Jam	*5.68				

Minimum discharge, 3.4 ft^3/s, Aug. 24, gage height, 1.53 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	e6.3	e7.4	e11	e5.4	e7.2	63	15	14	5.6	4.1	4.7
2	4.5	e7.0	e7.0	e10	e7.9	e7.7	36	15	40	5.3	5.1	4.5
3	4.9	e6.2	e6.7	e9.7	e8.9	e18	27	17	33	5.2	4.8	4.4
4	5.1	e5.9	e6.3	e9.3	e8.6	e22	22	15	22	5.2	4.9	7.3
5	6.1	e6.8	e6.1	e11	e14	e20	19	13	16	5.4	5.4	7.9
6	5.9	e13	e5.9	e9.7	e16	e24	17	13	18	5.2	6.1	5.4
7	5.0	27	e5.7	e8.9	e15	e21	15	34	14	4.4	5.5	4.9
8	5.0	20	e5.6	e8.4	e13	e17	14	33	13	4.5	5.2	4.8
9	4.4	17	e5.4	e8.0	e12	e15	14	24	11	4.7	5.4	4.6
10	4.4	17	e5.3	e7.7	e10	e14	14	18	10	4.5	5.5	4.6
11	4.7	25	e5.2	e7.4	e9.3	e12	16	14	9.0	4.3	5.5	4.7
12	4.7	24	e5.1	e7.2	e8.6	e11	32	17	9.2	5.1	5.4	4.6
13	4.8	28	e5.0	e7.0	e7.9	e10	42	17	7.9	5.1	5.1	6.2
14	7.1	34	e35	e6.9	e7.4	e9.1	35	15	16	4.7	4.7	5.0
15	6.6	27	e73	e6.8	e6.9	e8.4	28	14	23	4.6	4.1	5.1
16	5.9	18	e53	e6.6	e6.6	e7.8	28	12	19	4.4	4.2	5.1
17	12	15	e32	e6.5	e6.3	e7.8	24	11	14	4.6	4.3	5.8
18	11	32	e21	e6.4	e6.2	e8.9	20	10	11	4.5	4.4	5.1
19	9.7	30	e15	e6.3	e6.0	e9.5	17	9.1	10	4.6	4.4	4.7
20	9.9	23	e17	e6.2	e5.9	e9.4	16	8.7	9.2	4.6	4.4	5.0
21	8.3	18	98	e6.1	e5.8	e23	15	7.7	7.9	4.9	4.5	5.5
22	7.3	18	71	e6.0	e5.9	34	16	7.9	7.5	5.2	4.9	5.2
23	6.6	30	37	e5.9	e7.5	50	26	8.8	7.3	5.7	4.5	5.2
24	6.6	29	23	e5.8	e11	61	28	9.6	7.2	6.0	3.6	6.2
25	7.0	22	e17	e5.8	e9.5	54	24	19	6.9	5.9	4.0	5.3
26	7.0	16	e16	e5.7	e8.7	43	20	20	6.5	5.4	4.2	5.1
27	13	13	e13	e5.6	e8.0	49	23	23	6.0	5.4	4.4	5.5
28	11	10	e12	e5.6	e7.6	61	22	20	5.5	5.3	4.3	6.3
29	e8.9	e8.7	e11	e5.5	---	52	19	19	5.4	5.0	4.3	7.5
30	e7.6	e7.9	e9.8	e5.5	---	69	17	16	5.3	4.8	4.8	6.3
31	e6.6	---	e9.1	e5.4	---	101	---	13	---	4.1	4.9	---
TOTAL	216.8	554.8	639.6	223.9	245.9	856.8	709	488.8	384.8	154.2	146.9	162.5
MEAN	6.99	18.5	20.6	7.22	8.78	27.6	23.6	15.8	12.8	4.97	4.74	5.42
MAX	13	34	98	11	16	101	63	34	40	6.0	6.1	7.9
MIN	4.4	5.9	5.0	5.4	5.4	7.2	14	7.7	5.3	4.1	3.6	4.4
CFSM	0.90	2.37	2.65	0.93	1.13	3.55	3.03	2.02	1.65	0.64	0.61	0.70
IN.	1.04	2.65	3.05	1.07	1.17	4.09	3.39	2.33	1.84	0.74	0.70	0.78

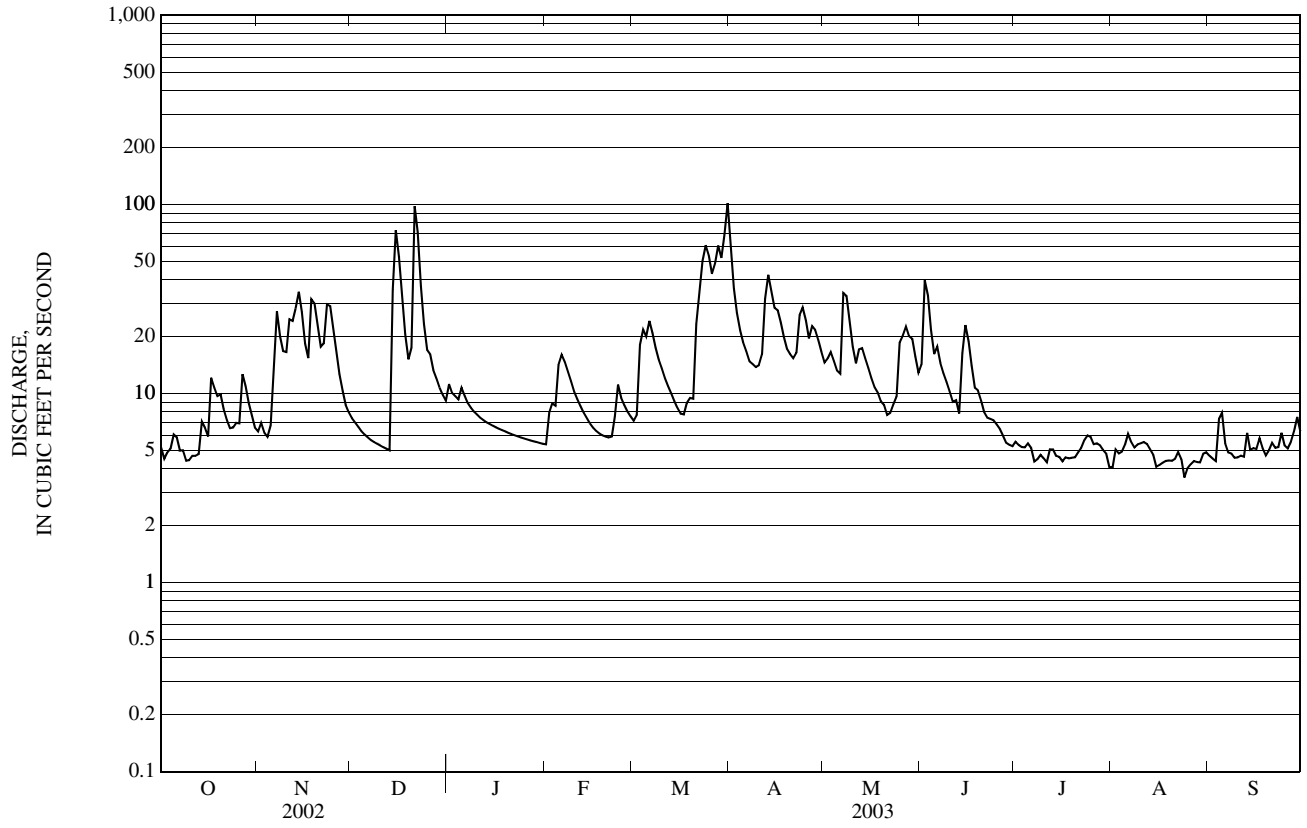
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	6.37	11.0	12.7	6.07	10.6	22.4	26.2	12.9	9.78	5.17	4.40	4.99
MAX	7.72	18.5	20.6	7.22	15.8	30.8	29.4	15.8	12.8	6.46	5.21	5.53
(WY)	(2001)	(2003)	(2003)	(2003)	(2002)	(2002)	(2001)	(2003)	(2003)	(2000)	(2000)	(2000)
MIN	4.39	4.50	5.55	4.98	7.14	8.71	23.6	8.64	8.20	4.43	3.77	4.23
(WY)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(2003)	(2001)	(2001)	(2001)	(2002)	(2001)

e Estimated

01021470 LIBBY BROOK NEAR NORTHFIELD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	4,822.9		4,784.0			
ANNUAL MEAN	13.2		13.1		10.9	
HIGHEST ANNUAL MEAN					13.1	2003
LOWEST ANNUAL MEAN					9.16	2001
HIGHEST DAILY MEAN	113	Feb 28	101	Mar 31	113	Feb 28, 2002
LOWEST DAILY MEAN	2.7	Jul 26	3.6	Aug 24	2.7	Jul 26, 2002
ANNUAL SEVEN-DAY MINIMUM	3.4	Jul 31	4.2	Aug 23	3.4	Jul 31, 2002
MAXIMUM PEAK FLOW			127	Dec 21	190	Mar 1, 2002
MAXIMUM PEAK STAGE			5.68	Mar 4	5.68	Mar 4, 2003
INSTANTANEOUS LOW FLOW			3.4	Aug 24	2.2	Jul 26, 2002
ANNUAL RUNOFF (CFSM)	1.70		1.68		1.40	
ANNUAL RUNOFF (INCHES)	23.03		22.85		19.09	
10 PERCENT EXCEEDS	28		27		22	
50 PERCENT EXCEEDS	7.5		7.9		6.5	
90 PERCENT EXCEEDS	3.7		4.7		3.9	



01021480 OLD STREAM NEAR WESLEY, ME

LOCATION.--Lat 44°56'09", long 67°44'08", Washington County, Hydrologic Unit 01050002, on left bank at upstream side of Route 9 bridge, 0.6 mi upstream from Chain Lakes Stream, and 3.6 mi west of Wesley.

DRAINAGE AREA.--29.1 mi^2.

PERIOD OF RECORD.--
DISCHARGE: July 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 170 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REVISED RECORDS.--WDR ME-00-1: 1999(M).

REMARKS.--Records good, except for periods of ice effect, Nov. 29 to Dec. 20 and Dec. 25 to Mar. 4, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.-- Maximum discharge, 526 ft^3/s, Mar. 29, 2000, gage height 6.45 ft; maximum gage height, 6.76 ft, Dec. 23, 1998 (backwater from ice); minimum discharge, 1.5 ft^3/s, Sept. 7 and 14, 2001, gage height 3.37 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 260 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 22	0000	430	6.19	Mar 31	0645	*527	*6.52

Minimum discharge, 2.4 ft^3/s, Oct. 13-14 and Sept. 16, 19-20, gage height, 3.44 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	6.9	e35	e64	e21	e29	431	100	70	11	5.7	3.0
2	3.3	7.1	e31	e59	e25	e28	314	94	177	9.9	11	3.0
3	3.3	6.5	e28	e55	e29	e60	233	98	170	9.0	9.4	2.8
4	2.8	5.4	e26	e54	e30	e69	186	86	130	8.3	8.2	7.1
5	3.1	5.6	e24	e56	e48	67	154	76	95	8.0	9.7	5.4
6	3.1	11	e23	e51	e52	70	138	69	87	8.0	12	4.3
7	3.0	24	e22	e48	e47	64	119	145	73	7.7	11	3.8
8	2.9	21	e21	e45	e44	56	106	142	63	7.5	11	3.4
9	3.0	20	e20	e42	e40	48	96	121	57	7.3	10	3.1
10	2.9	22	e19	e40	e37	44	94	99	52	7.1	9.3	3.0
11	2.7	34	e19	e38	e35	40	100	81	45	7.9	8.4	3.0
12	2.6	36	e18	e36	e32	36	146	79	42	8.7	8.9	2.7
13	2.5	49	e18	e34	e30	34	190	81	37	7.9	8.2	2.7
14	3.0	76	e47	e33	e28	31	187	76	55	6.9	7.4	2.7
15	2.9	68	e213	e32	e26	29	173	69	82	6.7	6.9	2.6
16	3.0	58	e238	e31	e25	27	175	62	79	6.2	6.4	2.7
17	5.8	53	e204	e30	e24	28	164	56	65	6.4	6.4	3.0
18	5.1	80	e156	e29	e23	31	141	50	50	6.5	5.8	2.7
19	4.8	79	e113	e28	e23	32	124	44	42	6.2	5.0	2.5
20	6.7	68	e97	e27	e22	31	118	40	37	5.9	4.6	2.9
21	7.1	59	377	e27	e22	53	120	37	31	5.7	4.3	3.1
22	12	67	392	e26	e22	84	127	35	28	7.1	3.9	2.9
23	5.2	106	278	e25	e26	117	165	35	25	9.3	3.7	3.0
24	5.2	117	196	e25	e39	152	192	36	23	9.9	3.5	4.7
25	4.6	99	e142	e24	e39	166	178	51	20	9.2	3.4	3.3
26	4.4	78	e118	e24	e36	175	151	57	18	8.2	3.2	3.1
27	9.0	62	e111	e23	e33	220	149	74	16	7.9	3.3	2.9
28	8.8	52	e99	e23	e30	248	146	78	14	7.3	3.2	4.2
29	8.2	e44	e78	e22	---	257	136	78	13	6.6	3.1	6.9
30	7.5	e39	e66	e22	---	373	119	70	11	5.8	3.9	5.8
31	7.6	---	e61	e21	---	511	---	66	---	5.4	3.3	---
TOTAL	149.7	1,453.5	3,290	1,094	888	3,210	4,872	2,285	1,707	235.5	204.1	106.3
MEAN	4.83	48.5	106	35.3	31.7	104	162	73.7	56.9	7.60	6.58	3.54
MAX	12	117	392	64	52	511	431	145	177	11	12	7.1
MIN	2.5	5.4	18	21	21	27	94	35	11	5.4	3.1	2.5
CFSM	0.17	1.66	3.65	1.21	1.09	3.56	5.58	2.53	1.96	0.26	0.23	0.12
IN.	0.19	1.86	4.21	1.40	1.14	4.10	6.23	2.92	2.18	0.30	0.26	0.14

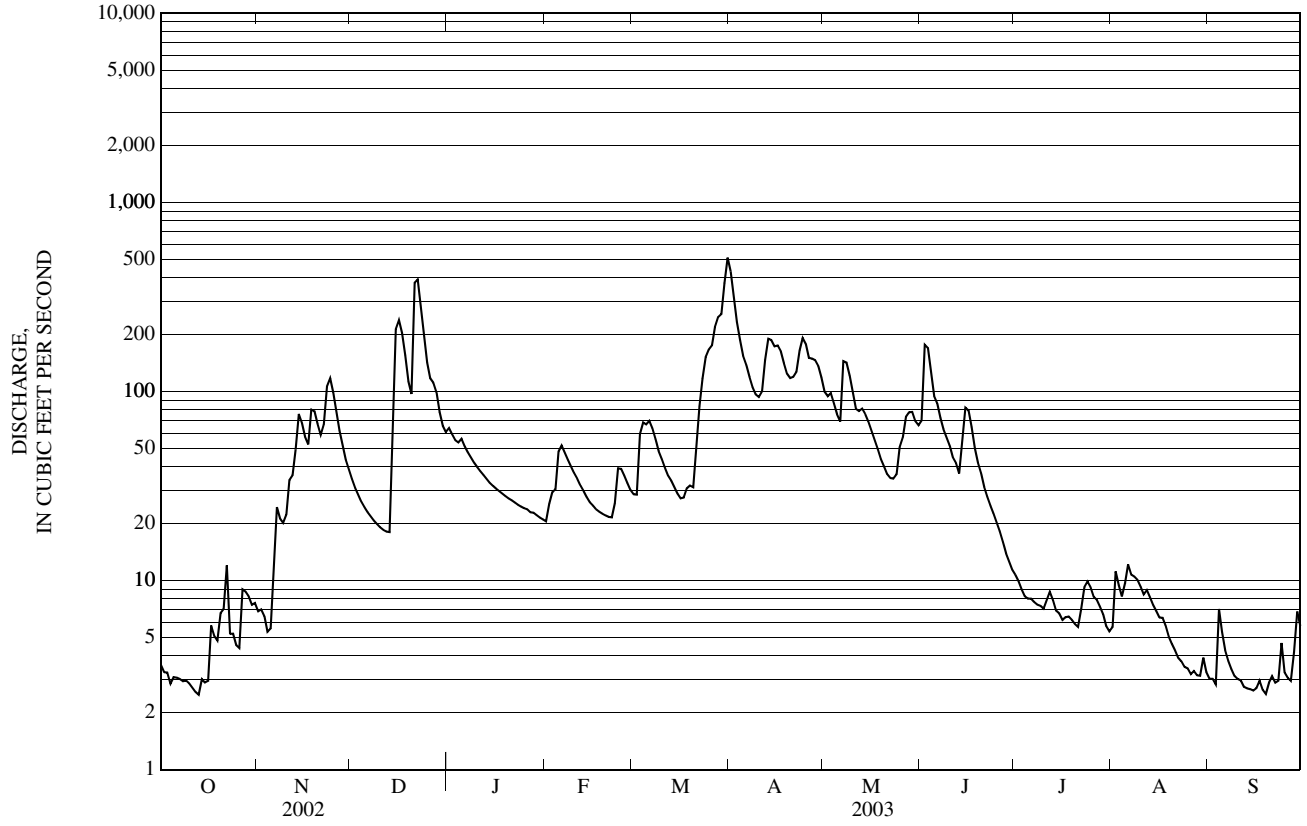
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

MEAN	17.4	38.9	60.2	47.5	44.6	121	143	60.0	28.7	10.2	5.79	9.98
MAX	35.5	70.9	112	121	81.6	174	167	75.0	56.9	17.8	8.73	40.3
(WY)	(2000)	(2000)	(2000)	(1999)	(1999)	(1999)	(2000)	(2000)	(2003)	(2000)	(2000)	(1999)
MIN	3.62	5.14	9.95	9.25	16.3	20.5	81.9	43.3	16.4	7.34	2.15	2.61
(WY)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(1999)	(1999)	(1999)	(2001)	(2001)	(2001)

e Estimated

01021480 OLD STREAM NEAR WESLEY, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1998 - 2003	
ANNUAL TOTAL	18,541.5		19,495.1			
ANNUAL MEAN	50.8		53.4		49.0	
HIGHEST ANNUAL MEAN					66.5	2000
LOWEST ANNUAL MEAN					29.1	2001
HIGHEST DAILY MEAN	392	Dec 22	511	Mar 31	511	Mar 31, 2003
LOWEST DAILY MEAN	2.5	Oct 13	2.5	Oct 13	1.6	Sep 12, 2001
ANNUAL SEVEN-DAY MINIMUM	2.8	Oct 7	2.7	Sep 13	1.6	Sep 9, 2001
MAXIMUM PEAK FLOW			527	Mar 31	527	Mar 31, 2003
MAXIMUM PEAK STAGE			6.52	Mar 31	6.76	Dec 23, 1998
INSTANTANEOUS LOW FLOW			2.4	Oct 13	1.5	Sep 7, 2001
ANNUAL RUNOFF (CFSM)	1.75		1.84		1.68	
ANNUAL RUNOFF (INCHES)	23.70		24.92		22.88	
10 PERCENT EXCEEDS	138		143		127	
50 PERCENT EXCEEDS	20		29		24	
90 PERCENT EXCEEDS	3.7		3.3		3.9	



01021500 MACHIAS RIVER AT WHITNEYVILLE, ME

LOCATION.--Lat 44°43'23", long 67°31'15", Washington County, Hydrologic Unit 01050002, on right bank 800 ft downstream from U.S. Route 1A highway bridge at Whitneyville.

DRAINAGE AREA.--458 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1905 to September 1921, September 1929 to September 1977. May 2001 to current year. Monthly discharge only for some periods published in WSP 1301. Records for October 1903 to September 1905, published in WSP 97, 124, 165, and 241, are unreliable and should not be used.

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

GAGE.--Water-stage recorder. Datum of gage is 37.22 ft above National Geodetic Vertical Datum of 1929. October 1, 1905, to Sept. 30, 1921, nonrecording gage on highway bridge at different datum.

REMARKS.--Records good, except for periods of ice effect, Nov. 28 to Dec. 20 and Dec. 25 to Mar. 22, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s, May 29, 1961, gage height, 16.92 ft; minimum daily discharge, 3.5 ft^3/s, Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 22	1030	5,500	9.57	Apr 1	0515	*6,940	*10.88

Minimum discharge, 57 ft^3/s, Sept. 16, gage height, 2.79 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	146	e596	e954	e413	e621	6,780	1,820	1,000	296	127	69
2	135	140	e529	e904	e518	e625	5,810	1,720	2,280	280	137	69
3	114	131	e479	e818	e667	e1,200	4,290	1,810	2,630	268	168	64
4	98	123	e445	e727	e763	e1,540	3,240	1,780	1,900	255	190	81
5	93	126	e417	e653	e970	e1,510	2,770	1,590	1,400	242	194	125
6	88	173	e393	e768	e1,200	e1,480	2,490	1,450	1,240	243	213	160
7	84	558	e375	e721	e1,180	e1,440	2,350	2,170	1,220	235	230	144
8	81	640	e360	e683	e1,100	e1,310	2,070	2,750	1,070	219	224	121
9	74	523	e349	e647	e991	e1,160	1,880	2,280	971	210	208	102
10	68	459	e339	e618	e885	e1,030	1,770	1,840	884	202	193	89
11	66	806	e333	e596	e791	e892	1,820	1,560	792	198	181	78
12	65	971	e331	e575	e721	e786	2,230	1,450	711	199	174	71
13	62	996	e331	e555	e672	e702	2,960	1,530	644	210	169	66
14	70	1,570	e495	e544	e635	e636	2,840	1,470	699	202	164	63
15	72	1,420	e2,640	e525	e600	e576	2,530	1,340	1,370	184	153	62
16	77	1,040	e3,500	e516	e567	e533	2,430	1,210	1,380	171	137	61
17	104	874	e2,910	e498	e548	e500	2,370	1,090	1,110	166	126	67
18	158	1,470	e2,100	e491	e532	e479	2,130	1,000	884	160	115	64
19	188	1,730	e1,500	e481	e521	e460	1,900	922	745	157	108	62
20	197	1,300	e1,280	e474	e514	e447	1,780	835	673	162	103	62
21	196	1,080	4,140	e466	e507	e855	1,790	764	607	181	97	62
22	193	1,040	5,400	e462	e514	e1,950	1,830	694	545	179	93	61
23	162	1,740	4,660	e456	e613	2,720	2,150	666	491	185	92	61
24	148	2,010	3,240	e450	e811	3,460	2,610	677	456	193	82	68
25	126	1,660	e2,290	e440	e961	3,500	2,490	895	429	202	76	68
26	116	1,310	e1,730	e437	e921	3,190	2,240	1,240	401	201	72	74
27	150	1,080	e1,310	e431	e789	3,140	2,140	1,230	384	190	70	73
28	228	e893	e1,070	e431	e690	3,830	2,310	1,340	368	176	67	76
29	229	e767	e920	e422	---	4,070	2,180	1,310	336	160	62	89
30	191	e676	e833	e422	---	4,620	2,000	1,210	314	146	66	136
31	164	---	e818	e416	---	6,460	---	1,070	---	136	67	---
TOTAL	3,967	27,452	46,113	17,581	20,594	55,722	78,180	42,713	27,934	6,208	4,158	2,448
MEAN	128	915	1,488	567	736	1,797	2,606	1,378	931	200	134	81.6
MAX	229	2,010	5,400	954	1,200	6,460	6,780	2,750	2,630	296	230	160
MIN	62	123	331	416	413	447	1,770	666	314	136	62	61
CFSM	0.28	2.00	3.25	1.24	1.61	3.92	5.69	3.01	2.03	0.44	0.29	0.18
IN.	0.32	2.23	3.75	1.43	1.67	4.53	6.35	3.47	2.27	0.50	0.34	0.20

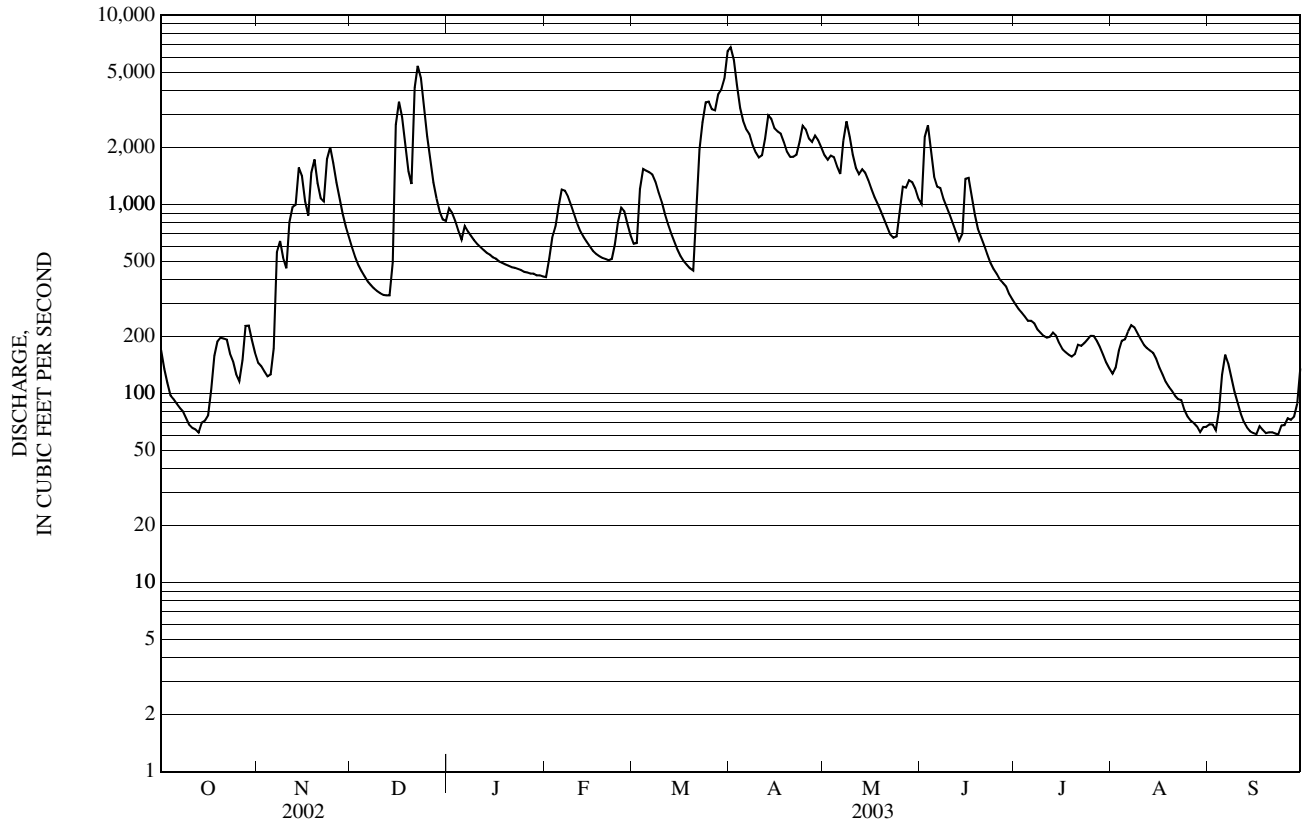
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2003, BY WATER YEAR (WY)

MEAN	528	900	997	789	701	1,210	2,404	1,708	853	456	304	332
MAX	1,867	2,225	2,972	2,059	2,799	3,633	5,836	3,163	3,206	1,189	993	1,624
(WY)	(1919)	(1944)	(1951)	(1958)	(1976)	(1936)	(1920)	(1963)	(1917)	(1947)	(1943)	(1954)
MIN	62.1	76.4	144	146	195	242	1,008	549	228	127	50.0	50.5
(WY)	(2002)	(2002)	(1956)	(1948)	(1940)	(1967)	(1915)	(1966)	(1941)	(1949)	(2001)	(2001)

e Estimated

01021500 MACHIAS RIVER AT WHITNEYVILLE, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1906 - 2003	
ANNUAL TOTAL	300,606		333,070			
ANNUAL MEAN	824		913		930	
HIGHEST ANNUAL MEAN					1,498	1973
LOWEST ANNUAL MEAN					542	1966
HIGHEST DAILY MEAN	5,400	Dec 22	6,780	Apr 1	13,900	May 29, 1961
LOWEST DAILY MEAN	45	Sep 11	61	Sep 16	3.5	Oct 12, 1939
ANNUAL SEVEN-DAY MINIMUM	50	Sep 7	63	Sep 16	27	Sep 15, 2001
MAXIMUM PEAK FLOW			6,940	Apr 1	14,800	May 29, 1961
MAXIMUM PEAK STAGE			10.88	Apr 1	16.92	May 29, 1961
INSTANTANEOUS LOW FLOW			57	Sep 16		
ANNUAL RUNOFF (CFSM)	1.80		1.99		2.03	
ANNUAL RUNOFF (INCHES)	24.42		27.05		27.60	
10 PERCENT EXCEEDS	2,160		2,260		2,230	
50 PERCENT EXCEEDS	365		545		553	
90 PERCENT EXCEEDS	73		80		170	



01022220 PLEASANT RIVER NEAR CREBO FLAT, ME

LOCATION.--Lat 44°46'08", long 67°55'23", Washington County, Hydrologic Unit 01050002, on right bank in T18 MDBPP, 7 mi downstream from Pleasant River Lake, 4 mi upstream from Crebo Brook, and 4.5 mi east of Deblois.

DRAINAGE AREA.--25.5 mi^2

PERIOD OF RECORD.--
DISCHARGE: Occasional low-flow measurements, water years 2000-2002. August 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for periods of ice effect, Dec. 18-20, Jan. 27 to Feb. 2, and periods of no gage-height record, Nov. 1-4 and Apr. 29 to May 6, which are fair. Satellite gage-height telemeter at station. Records for water year 2002 have not been previously published and are given below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 325 ft^3/s, Mar. 31, 2003, gage height, 5.38 ft; minimum discharge, 3.3 ft^3/s, Sept. 11, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 225 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	2200	323	5.37	Mar 31	0445	*325	*5.38

Minimum discharge, 4.1 ft^3/s, Sept. 19-20, 23, gage height, 2.88 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	e11	43	77	e22	28	283	e87	67	15	9.3	5.8
2	6.7	e11	38	70	e28	32	233	e80	111	14	12	5.4
3	6.3	e11	35	63	34	58	194	e83	94	13	13	5.3
4	6.0	e9.4	35	60	36	60	163	e77	80	13	14	8.3
5	6.6	9.6	32	70	48	57	142	e69	72	12	15	8.7
6	6.6	16	32	65	48	64	133	e64	73	12	17	7.7
7	6.1	30	30	60	43	60	117	133	68	11	17	7.0
8	6.1	31	29	56	41	52	105	129	61	11	17	6.4
9	5.8	30	26	51	38	47	95	116	56	11	18	5.8
10	5.3	32	25	49	35	44	91	104	51	10	17	5.4
11	5.2	42	25	45	33	41	91	92	47	11	16	5.3
12	4.9	44	24	43	32	38	124	90	43	11	16	4.9
13	5.1	56	24	41	30	35	134	87	39	11	16	4.6
14	5.8	72	25	39	28	33	126	80	52	10	15	4.5
15	5.8	64	131	36	26	32	121	73	71	10	14	4.5
16	5.6	56	142	34	25	30	123	67	64	9.9	13	4.6
17	9.9	57	128	34	24	31	117	61	56	9.8	12	4.6
18	9.6	81	e104	33	24	32	107	55	50	9.6	11	4.5
19	11	74	e89	32	26	32	99	51	46	9.5	10	4.3
20	13	64	e82	32	26	31	93	46	42	8.9	9.6	4.7
21	12	58	155	31	25	59	90	41	39	8.7	8.9	4.7
22	12	64	277	29	25	79	90	39	35	11	8.4	4.4
23	11	87	218	28	31	104	110	39	32	12	7.8	4.5
24	11	88	177	27	43	120	114	41	29	13	7.0	5.7
25	9.9	77	145	26	38	118	109	54	27	13	6.6	5.0
26	9.7	67	124	25	35	115	102	57	24	13	6.7	4.7
27	14	60	120	e25	32	159	111	67	22	12	6.7	4.6
28	14	52	104	e24	30	171	109	68	20	12	6.5	6.5
29	14	47	92	e23	---	170	e104	70	18	11	6.1	9.3
30	13	44	79	e23	---	244	e96	67	17	10	6.6	7.7
31	12	---	73	e22	---	318	---	63	---	10	6.2	---
TOTAL	272.0	1,445.0	2,663	1,273	906	2,494	3,726	2,250	1,506	348.4	359.4	169.4
MEAN	8.77	48.2	85.9	41.1	32.4	80.5	124	72.6	50.2	11.2	11.6	5.65
MAX	14	88	277	77	48	318	283	133	111	15	18	9.3
MIN	4.9	9.4	24	22	22	28	90	39	17	8.7	6.1	4.3

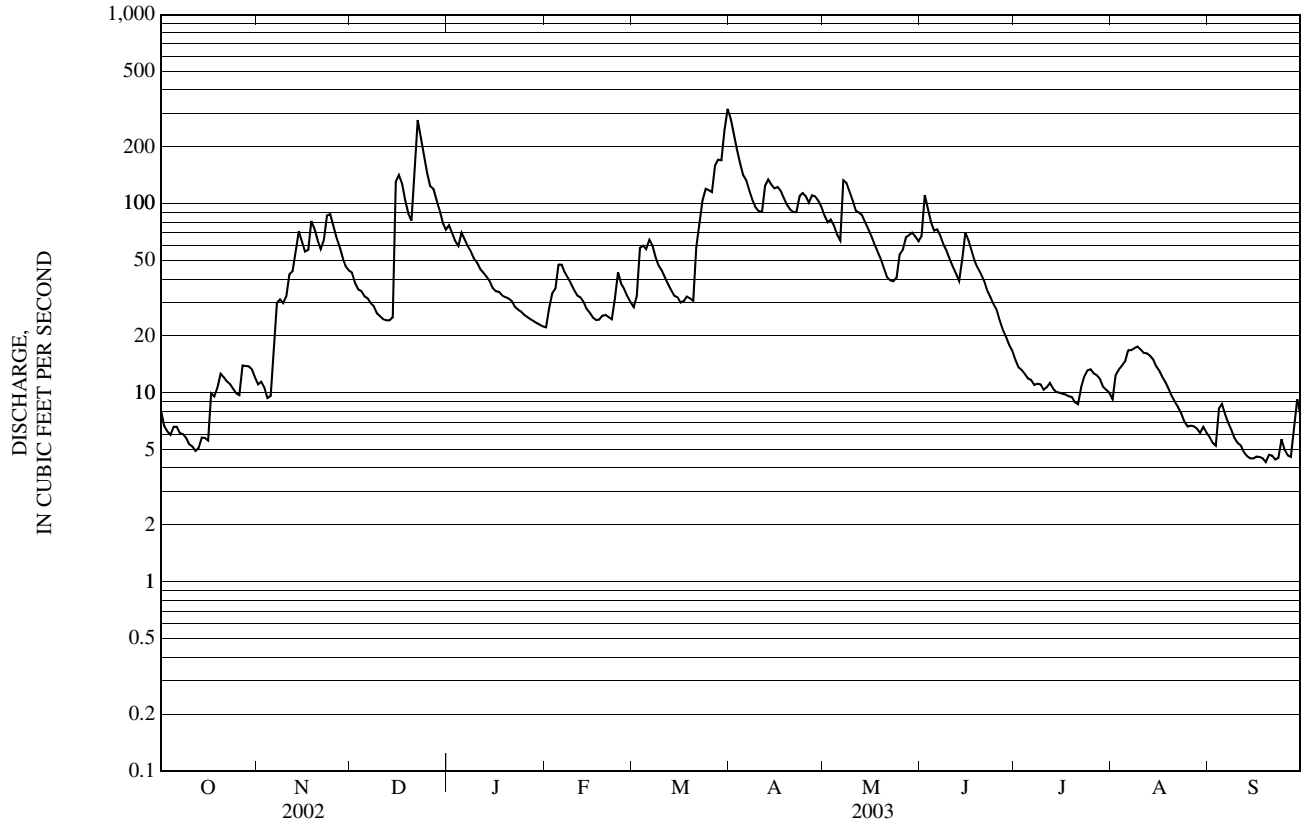
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)

MEAN	8.77	48.2	85.9	41.1	32.4	80.5	124	72.6	50.2	11.2	11.6	5.35
MAX	8.77	48.2	85.9	41.1	32.4	80.5	124	72.6	50.2	11.2	11.6	5.65
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	8.77	48.2	85.9	41.1	32.4	80.5	124	72.6	50.2	11.2	11.6	5.06
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)

e Estimated

01022220 PLEASANT RIVER NEAR CREBO FLAT, ME—Continued

SUMMARY STATISTICS	FOR 2003 WATER YEAR		WATER YEARS 2002 - 2003	
ANNUAL TOTAL	12.2			
ANNUAL MEAN	47.7		47.7	
HIGHEST ANNUAL MEAN			47.7	2003
LOWEST ANNUAL MEAN			47.7	2003
HIGHEST DAILY MEAN	18 Mar 31		318	Mar 31, 2003
LOWEST DAILY MEAN	4.3	Sep 19	3.7	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	4.5	Sep 13	4.0	Sep 8, 2002
MAXIMUM PEAK FLOW	25 Mar 31		325	Mar 31, 2003
MAXIMUM PEAK STAGE	5.38	Mar 31	5.38	Mar 31, 2003
INSTANTANEOUS LOW FLOW	4.1	Sep 19	3.3	Sep 11, 2002
10 PERCENT EXCEEDS	11		111	
50 PERCENT EXCEEDS	32		32	
90 PERCENT EXCEEDS	6.4		6.4	



01022220 PLEASANT RIVER NEAR CREBO FLAT, ME—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	4.3
2	---	---	---	---	---	---	---	---	---	---	---	4.1
3	---	---	---	---	---	---	---	---	---	---	---	4.3
4	---	---	---	---	---	---	---	---	---	---	---	4.6
5	---	---	---	---	---	---	---	---	---	---	---	4.5
6	---	---	---	---	---	---	---	---	---	---	---	4.3
7	---	---	---	---	---	---	---	---	---	---	---	4.1
8	---	---	---	---	---	---	---	---	---	---	---	3.9
9	---	---	---	---	---	---	---	---	---	---	---	3.9
10	---	---	---	---	---	---	---	---	---	---	---	3.8
11	---	---	---	---	---	---	---	---	---	---	---	3.7
12	---	---	---	---	---	---	---	---	---	---	---	4.7
13	---	---	---	---	---	---	---	---	---	---	---	4.1
14	---	---	---	---	---	---	---	---	---	---	---	4.0
15	---	---	---	---	---	---	---	---	---	---	---	4.2
16	---	---	---	---	---	---	---	---	---	---	---	5.8
17	---	---	---	---	---	---	---	---	---	---	---	6.4
18	---	---	---	---	---	---	---	---	---	---	---	5.6
19	---	---	---	---	---	---	---	---	---	---	---	4.9
20	---	---	---	---	---	---	---	---	---	---	---	4.4
21	---	---	---	---	---	---	---	---	---	---	---	4.1
22	---	---	---	---	---	---	---	---	---	---	---	4.0
23	---	---	---	---	---	---	---	---	---	---	---	5.1
24	---	---	---	---	---	---	---	---	---	---	---	5.5
25	---	---	---	---	---	---	---	---	---	---	---	4.9
26	---	---	---	---	---	---	---	---	---	---	---	4.4
27	---	---	---	---	---	---	---	---	---	---	---	4.3
28	---	---	---	---	---	---	---	---	---	---	---	11
29	---	---	---	---	---	---	---	---	---	---	4.5	9.7
30	---	---	---	---	---	---	---	---	---	---	4.8	9.1
31	---	---	---	---	---	---	---	---	---	---	4.5	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	151.7
MEAN	---	---	---	---	---	---	---	---	---	---	---	5.06
MAX	---	---	---	---	---	---	---	---	---	---	---	11
MIN	---	---	---	---	---	---	---	---	---	---	---	3.7

Wading discharge measurement

Bond Brook in Augusta

August 2003

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 mi^2.

PERIOD OF RECORD.--
DISCHARGE: July 1980 to September 1991. October 2000 to current year.

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

REMARKS.--Records good, except for periods of ice effect, Dec. 3-11, 13, 17-19, and Dec. 25 to Mar. 23, and periods of doubtful gage-height record, Dec. 30 to Jan. 1 and Mar. 23, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft^3/s, May 13, 1989, gage height, 10.77 ft; minimum discharge, 10 ft^3/s, Dec. 2, 2002, gage height, 4.72 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 440 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	0130	709	8.98	Mar 31	2230	*771	9.20
Mar 4	0615	Ice Jam	*9.31				

Minimum discharge, 10 ft^3/s, Dec. 2, gage height, 4.72 ft, result of freezup.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	39	115	e171	e55	e77	699	207	148	37	22	18
2	36	39	96	e159	e70	e90	635	191	202	34	27	17
3	32	37	e87	e147	e76	e161	502	189	243	32	41	16
4	29	35	e82	e139	e89	e220	420	190	267	30	40	22
5	28	36	e77	e144	e118	e156	366	180	240	29	38	48
6	29	56	e72	e135	e117	e160	321	167	204	28	45	49
7	28	136	e70	e124	e106	e145	289	205	183	27	50	35
8	26	152	e66	e116	e98	e129	266	256	166	26	46	25
9	23	134	e62	e110	e91	e113	241	300	145	27	44	22
10	22	128	e59	e104	e85	e102	222	287	131	27	42	20
11	21	157	e54	e98	e80	e94	211	246	116	26	39	19
12	21	177	55	e93	e75	e87	232	219	106	29	36	18
13	21	193	e56	e89	e71	e82	273	211	96	31	35	17
14	24	217	85	e85	e67	e77	318	208	111	29	33	16
15	27	226	214	e82	e62	e74	322	196	170	27	31	16
16	27	221	255	e78	e59	e72	299	176	190	25	29	17
17	44	197	e306	e76	e57	e71	276	158	172	26	27	18
18	69	211	e332	e73	e55	e77	257	141	136	26	26	18
19	60	228	e286	e71	e55	e84	236	128	115	26	25	17
20	56	235	261	e69	e56	e76	216	117	107	26	23	18
21	53	221	323	e67	e57	e128	201	107	95	24	23	21
22	46	201	506	e65	e58	e212	192	99	87	23	22	21
23	41	215	667	e64	e65	e309	206	99	79	27	22	20
24	38	233	507	e62	e83	397	233	107	74	33	21	22
25	36	243	e375	e61	e98	484	255	137	69	36	19	26
26	33	231	e296	e59	e113	475	250	168	61	34	19	23
27	51	199	e271	e58	e97	430	243	181	54	31	19	22
28	68	156	e249	e57	e86	452	242	187	49	30	20	24
29	57	134	e221	e57	---	542	242	185	44	28	19	37
30	48	126	e187	e56	---	538	228	174	40	24	18	44
31	42	---	e170	e56	---	671	---	158	---	23	19	---
TOTAL	1,181	4,813	6,462	2,825	2,199	6,785	8,893	5,574	3,900	881	920	706
MEAN	38.1	160	208	91.1	78.5	219	296	180	130	28.4	29.7	23.5
MAX	69	243	667	171	118	671	699	300	267	37	50	49
MIN	21	35	54	56	55	71	192	99	40	23	18	16
CFSM	0.63	2.65	3.44	1.50	1.30	3.61	4.89	2.97	2.15	0.47	0.49	0.39
IN.	0.72	2.95	3.97	1.73	1.35	4.17	5.46	3.42	2.39	0.54	0.56	0.43

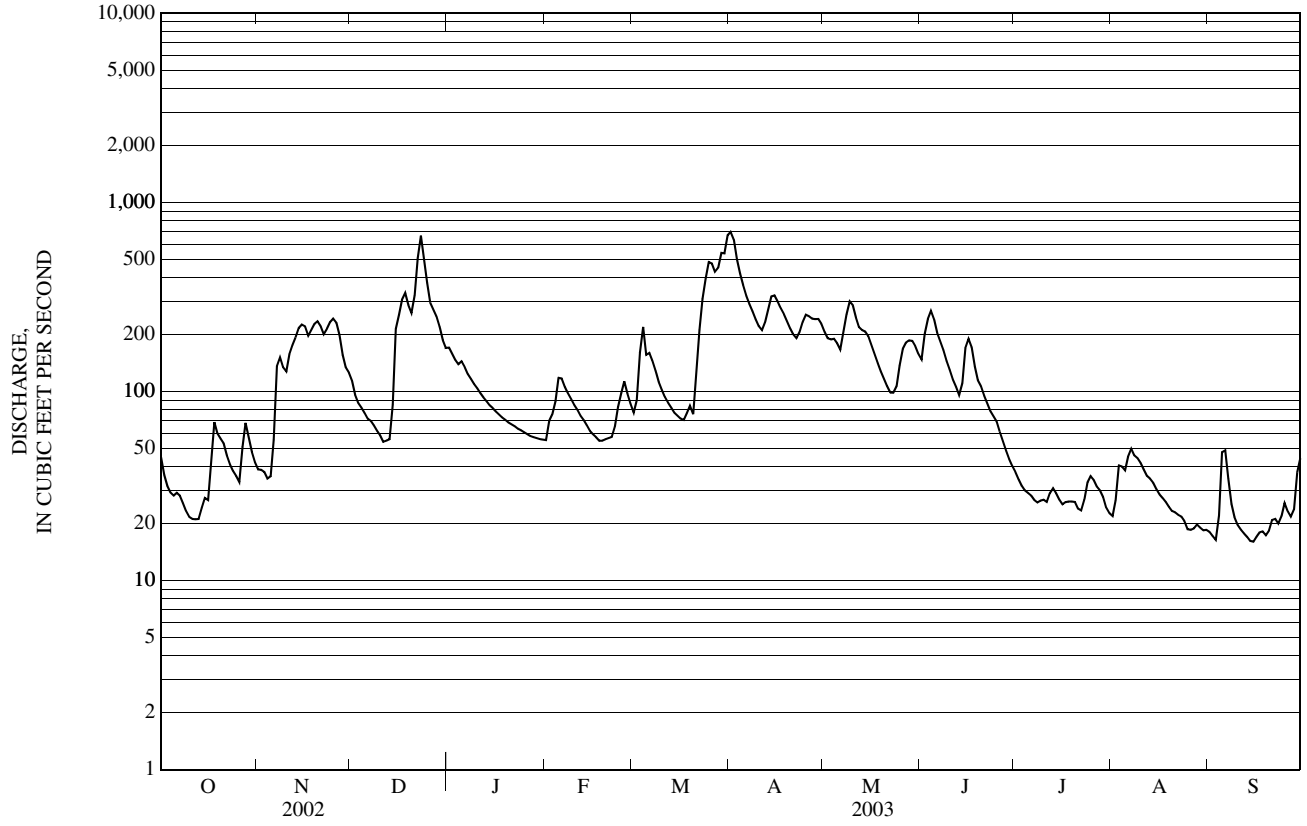
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2003, BY WATER YEAR (WY)

MEAN	74.4	142	162	96.1	148	200	308	182	113	62.2	58.5	55.9
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	18.6	22.9	41.9	42.0	70.3	104	129	116	49.1	24.5	14.9	17.8
(WY)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(1985)	(2001)	(1988)	(2001)	(2001)	(2001)

e Estimated

01022260 PLEASANT RIVER NEAR EPPING, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1980 - 2003	
ANNUAL TOTAL	47,460		45,139			
ANNUAL MEAN	130		124		133	
HIGHEST ANNUAL MEAN					194	1984
LOWEST ANNUAL MEAN					83.9	2001
HIGHEST DAILY MEAN	667	Dec 23	699	Apr 1	1,210	May 13, 1989
LOWEST DAILY MEAN	15	Aug 22	16	Sep 3	12	Sep 14, 2001
ANNUAL SEVEN-DAY MINIMUM	16	Aug 18	17	Sep 13	12	Sep 14, 2001
MAXIMUM PEAK FLOW			771	Mar 31	1,240	May 13, 1989
MAXIMUM PEAK STAGE			9.31	Mar 4	10.77	May 13, 1989
INSTANTANEOUS LOW FLOW			10	Dec 2	10	Dec 2, 2002
ANNUAL RUNOFF (CFSM)	2.15		2.04		2.20	
ANNUAL RUNOFF (INCHES)	29.13		27.71		29.91	
10 PERCENT EXCEEDS	305		259		295	
50 PERCENT EXCEEDS	70		78		90	
90 PERCENT EXCEEDS	21		23		32	



01022294 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 mi^2. Furnished by U.S. Environmental Protection Agency.

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

REVISED RECORDS.--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.--Records good, except for flows between 0.14 ft^3/s and 0.050 ft^3/s, which are fair, and for flows below 0.050 ft^3/s, periods of ice effect, Dec. 25-27, Jan. 4 to Mar. 2, Mar. 8-16, periods of doubtful stage-discharge relation, Oct. 19-20, Oct. 28 to Nov. 4, Nov. 6, Dec. 14-15, Mar. 21-22, May 12-25, Sept. 28-29, and periods of no gage-height record, Nov. 7, 9,18-20, 22-24, May 27, and June 24, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18.6 ft^3/s, Mar. 9, 1998, gage height, 6.91 ft; no flow for many days in 1988-2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2.20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 20	2320	*6.33	*6.16	Mar 29	2315	3.74	5.94

No flow for many days in October, July, August, and September.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.000	e0.004	0.061	0.13	e0.013	e0.029	0.32	0.11	0.31	0.001	0.000	0.000
2	0.000	e0.004	0.051	0.087	e0.013	e0.051	0.21	0.12	0.70	0.000	0.001	0.000
3	0.000	e0.003	0.042	0.069	e0.013	0.12	0.17	0.13	0.23	0.000	0.000	0.000
4	0.000	e0.003	0.032	e0.062	e0.072	0.061	0.14	0.11	0.14	0.000	0.000	0.000
5	0.000	0.003	0.029	e0.055	e0.14	0.079	0.12	0.094	0.12	0.004	0.001	0.000
6	0.000	e0.041	0.028	e0.051	e0.059	0.10	0.10	0.14	0.16	0.006	0.008	0.000
7	0.000	e0.049	0.026	e0.046	e0.045	0.065	0.089	0.49	0.10	0.001	0.008	0.000
8	0.000	0.030	0.026	e0.043	e0.038	e0.055	0.084	0.24	0.087	0.000	0.020	0.000
9	0.000	e0.098	0.023	e0.040	e0.033	e0.049	0.081	0.17	0.080	0.000	0.024	0.000
10	0.000	0.26	0.022	e0.037	e0.030	e0.043	0.11	0.13	0.069	0.000	0.012	0.000
11	0.000	0.32	0.022	e0.034	e0.029	e0.038	0.16	0.11	0.053	0.000	0.008	0.000
12	0.000	0.29	0.023	e0.031	e0.028	e0.035	0.46	e0.16	0.045	0.000	0.008	0.000
13	0.000	0.46	0.023	e0.029	e0.027	e0.032	0.45	e0.15	0.034	0.000	0.008	0.000
14	0.000	0.41	e0.68	e0.028	e0.027	e0.029	0.37	e0.12	0.18	0.000	0.004	0.000
15	0.000	0.19	e0.76	e0.027	e0.026	e0.028	0.39	e0.10	0.17	0.000	0.002	0.000
16	0.000	0.12	0.24	e0.025	e0.025	e0.029	0.52	e0.091	0.12	0.000	0.001	0.000
17	0.001	0.11	0.14	e0.024	e0.024	0.062	0.28	e0.082	0.081	0.000	0.000	0.000
18	0.001	e0.11	0.10	e0.023	e0.023	0.076	0.20	e0.074	0.060	0.000	0.000	0.000
19	e0.004	e0.074	0.088	e0.022	e0.022	0.062	0.18	e0.066	0.062	0.000	0.000	0.000
20	e0.009	e0.13	0.69	e0.021	e0.022	0.059	0.20	e0.059	0.047	0.000	0.000	0.000
21	0.002	0.17	1.78	e0.020	e0.026	e0.40	0.18	e0.051	0.036	0.000	0.000	0.000
22	0.000	e0.85	0.39	e0.019	e0.026	e0.42	0.18	e0.045	0.032	0.000	0.000	0.000
23	0.000	e0.96	0.23	e0.018	e0.065	0.66	0.29	e0.046	0.027	0.000	0.000	0.000
24	0.000	e0.29	0.18	e0.018	e0.064	0.41	0.27	e0.070	e0.019	0.000	0.000	0.000
25	0.000	0.17	e0.12	e0.017	e0.039	0.28	0.25	e0.11	0.017	0.000	0.000	0.000
26	0.000	0.13	e0.096	e0.016	e0.033	0.24	0.19	0.097	0.012	0.000	0.000	0.000
27	0.004	0.10	e0.081	e0.015	e0.031	0.65	0.32	e0.19	0.008	0.000	0.000	0.000
28	e0.008	0.082	0.071	e0.015	e0.030	0.55	0.25	0.15	0.005	0.000	0.000	e0.012
29	e0.005	0.068	0.066	e0.014	---	1.11	0.18	0.16	0.004	0.000	0.000	e0.052
30	e0.004	0.065	0.059	e0.014	---	2.16	0.13	0.13	0.002	0.000	0.000	0.016
31	e0.004	---	0.058	e0.013	---	0.82	---	0.13	---	0.000	0.000	---
TOTAL	0.042	5.594	6.237	1.063	1.023	8.802	6.874	3.925	3.010	0.012	0.105	0.080
MEAN	0.001	0.19	0.20	0.034	0.037	0.28	0.23	0.13	0.10	0.000	0.003	0.003
MAX	0.009	0.96	1.78	0.13	0.14	2.16	0.52	0.49	0.70	0.006	0.024	0.052
MIN	0.000	0.003	0.022	0.013	0.013	0.028	0.081	0.045	0.002	0.000	0.000	0.000

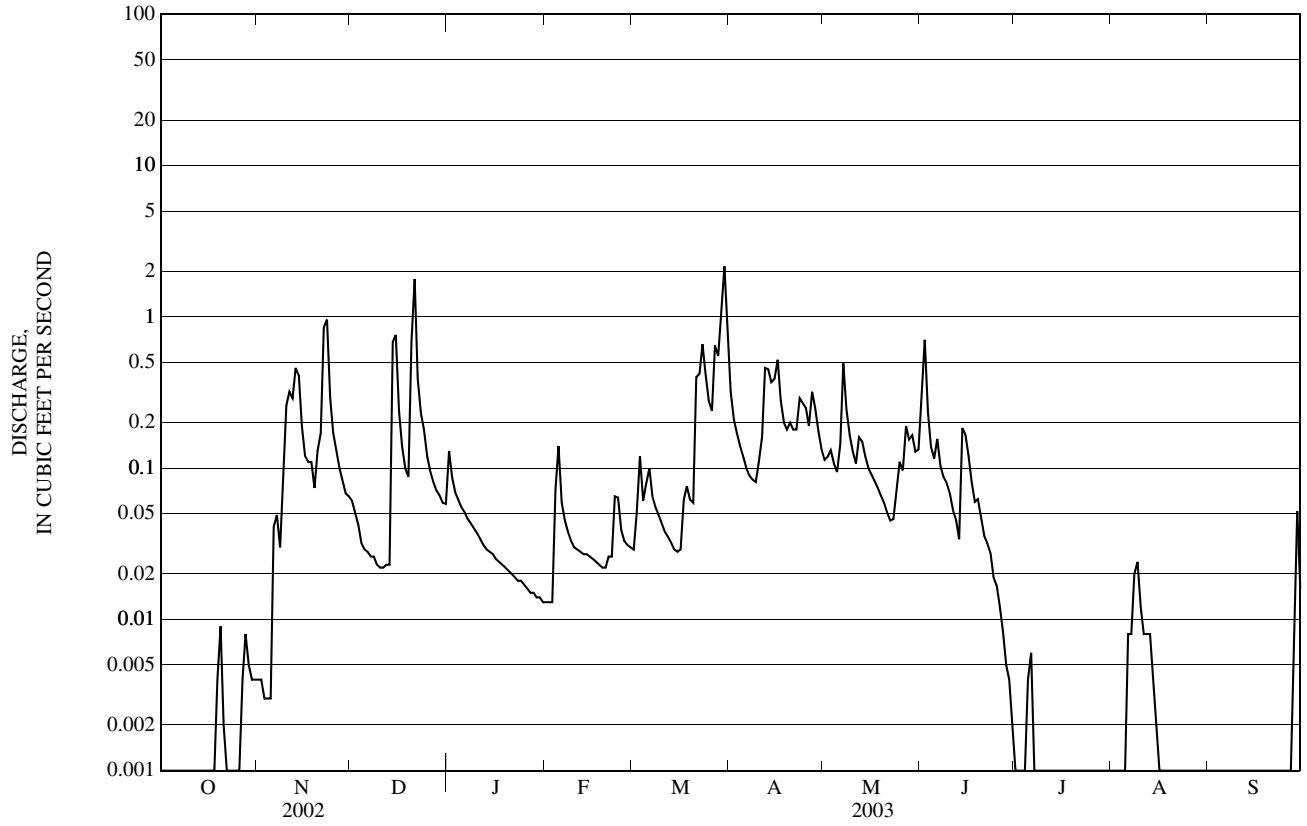
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

MEAN	0.065	0.16	0.14	0.13	0.089	0.22	0.25	0.15	0.058	0.023	0.004	0.014
MAX	0.16	0.34	0.39	0.37	0.22	0.49	0.45	0.49	0.18	0.25	0.018	0.071
(WY)	(1992)	(1996)	(1997)	(1996)	(2002)	(1998)	(1993)	(1989)	(1998)	(1996)	(1992)	(1999)
MIN	0.000	0.001	0.032	0.016	0.021	0.022	0.10	0.035	0.009	0.000	0.000	0.000
(WY)	(2002)	(2002)	(1990)	(2001)	(2001)	(2001)	(1999)	(2001)	(1991)	(1991)	(1993)	(1993)

e Estimated

01022294 EAST BRANCH BEAR BROOK NEAR BEDDINGTON, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1988 - 2003	
ANNUAL TOTAL	40.940		36.750			
ANNUAL MEAN	0.11		0.10		0.11	
HIGHEST ANNUAL MEAN					0.17	1996
LOWEST ANNUAL MEAN					0.060	2001
HIGHEST DAILY MEAN	2.31	Feb 27	2.16	Mar 30	5.00	Mar 27, 1988
LOWEST DAILY MEAN	0.000	Jun 30	0.000	Oct 1	0.000	Jun 14, 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 21	0.00	Oct 1	0.00	Jun 14, 1988
MAXIMUM PEAK FLOW			6.3	Dec 20	19	Mar 9, 1998
MAXIMUM PEAK STAGE			6.16	Dec 20	6.91	Mar 9, 1998
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jun 20, 1988
10 PERCENT EXCEEDS	0.28		0.25		0.25	
50 PERCENT EXCEEDS	0.029		0.030		0.042	
90 PERCENT EXCEEDS	0.000		0.000		0.000	



01022295 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 mi^2. Furnished by U.S. Environmental Protection Agency.

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

REVISED RECORDS.--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.--Records good, except for flows between 0.14 ft^3/s and 0.050 ft^3/s, which are fair, and flows below 0.050 ft^3/s, periods of ice effect, Dec. 25-31, Jan. 3 to Mar. 2, Mar. 8-16, periods of doubtful stage-discharge relation, Oct. 1 to Nov. 4, July 5, Sept. 28, and periods of no gage-height record, Nov. 6-7, 9, 18-20, 22-24, Dec. 25, and May 27, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16.4 ft^3/s, Mar. 9, 1998, gage height, 6.75 ft; no flow, Aug. 1 and 2, 1991 Aug. 27 to Sept. 1, 1993, and Aug. 23-27, Aug. 29 to Sept. 10, and Sept. 12-14, 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2.20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	0100	*5.20	*6.07	Mar 29	2345	3.12	5.88

Minimum discharge, 0.001 ft^3/s, Sept. 19, 5.03 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.007	e0.012	0.064	0.12	e0.016	e0.027	0.32	0.11	0.28	0.009	0.005	0.002
2	e0.006	e0.011	0.054	0.085	e0.016	e0.043	0.21	0.11	0.73	0.008	0.017	0.002
3	e0.007	e0.010	0.051	e0.071	e0.016	0.094	0.17	0.12	0.23	0.008	0.009	0.002
4	e0.006	e0.009	0.045	e0.066	e0.060	0.053	0.14	0.11	0.14	0.007	0.008	0.017
5	e0.011	0.008	0.041	e0.061	e0.11	0.071	0.12	0.094	0.12	e0.013	0.010	0.006
6	e0.009	e0.040	0.037	e0.055	e0.051	0.10	0.11	0.13	0.16	0.017	0.022	0.004
7	e0.009	e0.037	0.034	e0.051	e0.039	0.070	0.096	0.43	0.11	0.009	0.015	0.003
8	e0.008	0.027	0.034	e0.046	e0.035	e0.059	0.093	0.22	0.095	0.009	0.024	0.002
9	e0.007	e0.058	0.029	e0.042	e0.033	e0.052	0.089	0.15	0.088	0.008	0.023	0.002
10	e0.006	0.21	0.028	e0.039	e0.031	e0.045	0.11	0.12	0.077	0.007	0.015	0.002
11	e0.005	0.25	0.027	e0.036	e0.030	e0.040	0.14	0.11	0.064	0.010	0.012	0.002
12	e0.005	0.28	0.028	e0.033	e0.029	e0.035	0.39	0.15	0.056	0.011	0.011	0.002
13	e0.005	0.41	0.029	e0.031	e0.028	e0.032	0.38	0.14	0.043	0.008	0.010	0.002
14	e0.010	0.39	0.57	e0.030	e0.028	e0.030	0.32	0.11	0.17	0.006	0.007	0.002
15	e0.008	0.18	0.68	e0.028	e0.027	e0.034	0.30	0.100	0.15	0.006	0.005	0.002
16	e0.011	0.11	0.23	e0.027	e0.027	e0.035	0.50	0.091	0.11	0.006	0.005	0.002
17	e0.027	0.093	0.14	e0.026	e0.026	0.054	0.27	0.084	0.079	0.007	0.004	0.002
18	e0.019	e0.091	0.10	e0.024	e0.025	0.062	0.19	0.078	0.063	0.006	0.004	0.002
19	e0.015	e0.066	0.088	e0.023	e0.025	0.051	0.18	0.071	0.064	0.006	0.003	0.001
20	e0.023	e0.11	0.53	e0.023	e0.025	0.050	0.20	0.065	0.052	0.004	0.003	0.002
21	e0.015	0.14	1.85	e0.022	e0.028	0.29	0.19	0.058	0.042	0.003	0.002	0.003
22	e0.012	e0.79	0.34	e0.021	e0.028	0.37	0.18	0.054	0.033	0.005	0.002	0.002
23	e0.011	e0.92	0.19	e0.020	e0.056	0.62	0.30	0.056	0.030	0.008	0.002	0.003
24	e0.010	e0.28	0.14	e0.019	e0.055	0.38	0.26	0.069	0.027	0.012	0.002	0.004
25	e0.010	0.16	e0.12	e0.019	e0.036	0.24	0.23	0.10	0.023	0.009	0.002	0.002
26	e0.012	0.12	e0.100	e0.018	e0.029	0.19	0.18	0.087	0.021	0.007	0.002	0.003
27	e0.032	0.097	e0.087	e0.018	e0.028	0.57	0.29	e0.17	0.017	0.009	0.002	0.003
28	e0.023	0.082	e0.080	e0.018	e0.027	0.48	0.22	0.12	0.014	0.008	0.002	e0.026
29	e0.018	0.071	e0.074	e0.017	---	0.83	0.17	0.13	0.012	0.006	0.002	0.071
30	e0.015	0.068	e0.069	e0.017	---	2.04	0.13	0.11	0.011	0.005	0.003	0.031
31	e0.013	---	e0.065	e0.017	---	0.83	---	0.12	---	0.005	0.002	---
TOTAL	0.375	5.130	5.954	1.123	0.964	7.877	6.478	3.667	3.111	0.242	0.235	0.209
MEAN	0.012	0.17	0.19	0.036	0.034	0.25	0.22	0.12	0.10	0.008	0.008	0.007
MAX	0.032	0.92	1.85	0.12	0.11	2.04	0.50	0.43	0.73	0.017	0.024	0.071
MIN	0.005	0.008	0.027	0.017	0.016	0.027	0.089	0.054	0.011	0.003	0.002	0.001

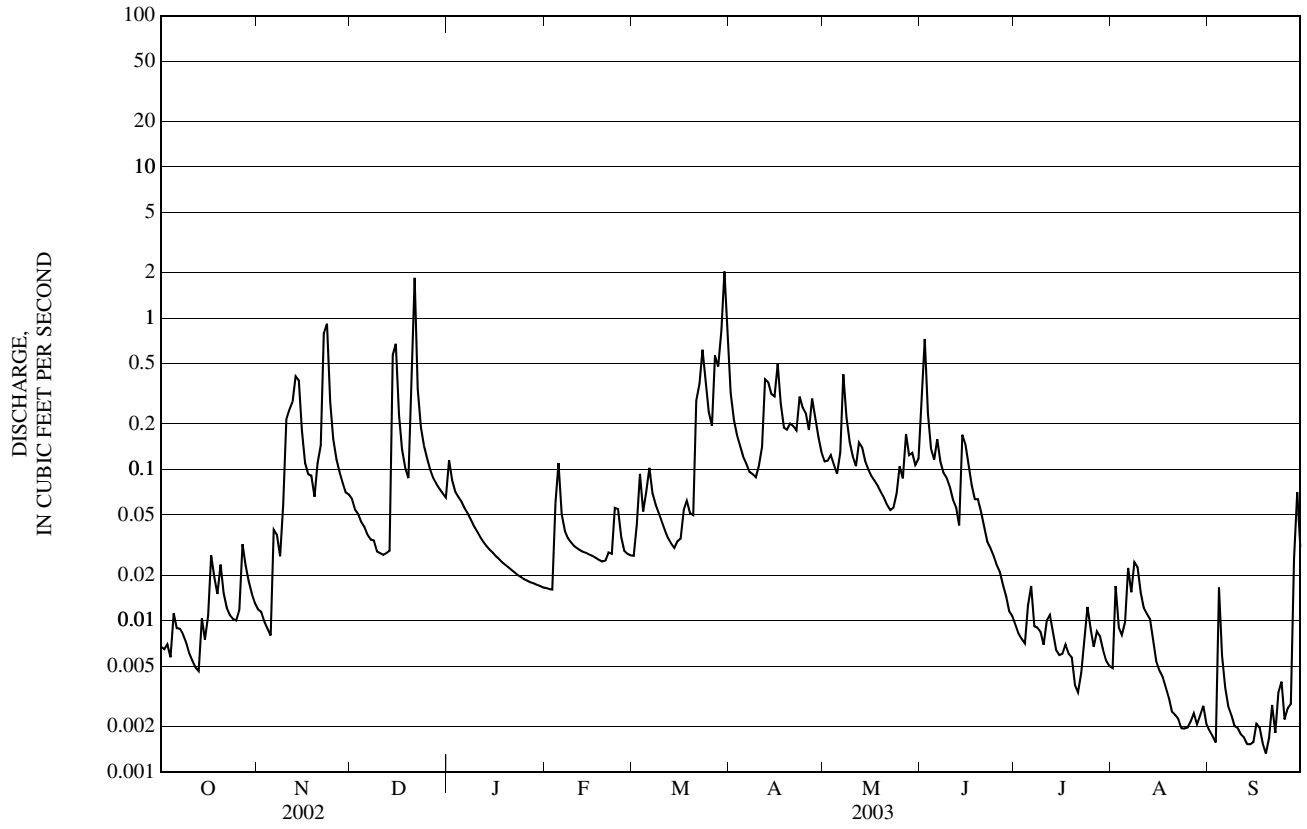
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

MEAN	0.065	0.15	0.13	0.12	0.086	0.20	0.25	0.15	0.060	0.031	0.009	0.019
MAX	0.15	0.32	0.38	0.32	0.23	0.51	0.47	0.51	0.14	0.22	0.025	0.082
(WY)	(1991)	(1996)	(1994)	(1996)	(1998)	(1998)	(1993)	(1989)	(1998)	(1996)	(1992)	(1999)
MIN	0.001	0.004	0.035	0.020	0.017	0.017	0.11	0.050	0.017	0.005	0.001	0.002
(WY)	(2002)	(2002)	(1990)	(1989)	(2001)	(2001)	(1999)	(2001)	(1988)	(1991)	(2001)	(2000)

e Estimated

01022295 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1988 - 2003	
ANNUAL TOTAL	39.200		35.400			
ANNUAL MEAN	0.11		0.097		0.11	
HIGHEST ANNUAL MEAN					0.15	1996
LOWEST ANNUAL MEAN					0.056	2001
HIGHEST DAILY MEAN	2.02	Feb 27	2.04	Mar 30	4.20	Mar 27, 1988
LOWEST DAILY MEAN	0.000	Aug 9	0.000	Oct 12	0.000	Jul 16, 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 9	0.00	Aug 16	0.00	Aug 2, 1990
MAXIMUM PEAK FLOW			5.2	Dec 21	16	Mar 9, 1998
MAXIMUM PEAK STAGE			6.07	Dec 21	6.75	Mar 9, 1998
INSTANTANEOUS LOW FLOW			0.00	Sep 19	0.00	Aug 1, 1991
10 PERCENT EXCEEDS	0.25		0.23		0.23	
50 PERCENT EXCEEDS	0.030		0.032		0.047	
90 PERCENT EXCEEDS	0.003		0.003		0.004	



01022330 NARRAGUAGUS RIVER AT DEBLOIS, ME

LOCATION.--Lat 44°46'26", long 68°00'48", Washington County, Hydrologic Unit 01050002, on left bank 30 ft upstream from State Route 193 highway bridge at Deblois.

DRAINAGE AREA.--96.5 mi^2.

PERIOD OF RECORD.--
DISCHARGE: September 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 18.34 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 29 to Dec. 20, Dec. 26 to Mar. 22, and period of doubtful stage-discharge relation, Aug. 19 to Sept. 30, which are fair. Satellite gage-height telemeter at station. Records for water year 2002 have not been previously published and are given below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft^3/s, Mar. 31, 2003, gage height, 5.31 ft; minimum discharge, 14 ft^3/s, Sept. 10-11, 2002, gage height, 1.37 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 22	0615	1,420	4.90	Mar 31	1545	*1,880	*5.31

Minimum daily discharge, 20 ft^3/s, Sept. 2-3, 13-16, and 18-19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	39	e137	e230	e70	e88	1,580	376	303	56	31	e21
2	38	40	e126	e212	e81	e104	1,160	349	440	52	44	e20
3	37	35	e116	e196	e104	e170	850	336	547	48	49	e20
4	31	32	e108	e183	e106	e171	665	314	453	48	46	e34
5	31	34	e102	e214	e170	e184	555	287	349	47	45	e52
6	31	45	e97	e198	e181	e201	482	269	306	53	50	e42
7	27	79	e93	e182	e210	e177	424	402	283	49	50	e36
8	26	77	e90	e169	e207	e159	378	461	251	46	51	e31
9	23	78	e87	e157	e167	e144	346	407	220	45	55	e27
10	22	78	e84	e146	e137	e132	327	341	194	41	53	e24
11	22	98	e82	e136	e115	e121	331	295	171	40	50	e22
12	22	123	e80	e127	e103	e113	407	288	155	43	47	e22
13	21	164	e79	e120	e96	e104	514	295	137	42	45	e20
14	24	210	e146	e114	e91	e97	542	293	160	40	43	e20
15	22	225	e454	e108	e87	e92	515	277	238	37	39	e20
16	22	201	e714	e103	e83	e88	515	250	270	36	36	e20
17	35	184	e608	e98	e80	e87	520	224	238	36	34	e21
18	36	198	e441	e95	e79	e93	468	202	196	35	32	e20
19	39	200	e342	e91	e77	e96	410	183	168	36	e30	e20
20	47	194	e291	e87	e76	e103	375	168	148	35	e31	e21
21	48	184	916	e85	e76	e150	368	153	130	35	e29	e23
22	50	191	1,360	e82	e76	e225	380	140	118	40	e27	e22
23	48	280	1,040	e79	e93	351	430	140	108	43	e26	e21
24	44	379	728	e77	e132	487	481	145	100	47	e23	e26
25	40	376	525	e76	e159	562	492	173	91	48	e22	e27
26	39	314	e412	e75	e163	573	469	189	85	44	e21	e25
27	48	257	e345	e74	e132	626	466	222	79	42	e23	e24
28	46	209	e299	e73	e104	740	495	254	73	41	e23	e34
29	45	e175	e265	e72	---	815	490	265	64	36	e21	e84
30	43	e153	e237	e71	---	1,060	431	253	60	33	e22	e104
31	40	---	e221	e71	---	1,720	---	252	---	32	e21	---
TOTAL	1,087	4,852	10,625	3,801	3,255	9,833	15,866	8,203	6,135	1,306	1,119	903
MEAN	35.1	162	343	123	116	317	529	265	204	42.1	36.1	30.1
MAX	50	379	1,360	230	210	1,720	1,580	461	547	56	55	104
MIN	21	32	79	71	70	87	327	140	60	32	21	20
CFSM	0.36	1.68	3.55	1.27	1.20	3.29	5.48	2.74	2.12	0.44	0.37	0.31
IN.	0.42	1.87	4.10	1.47	1.25	3.79	6.12	3.16	2.36	0.50	0.43	0.35

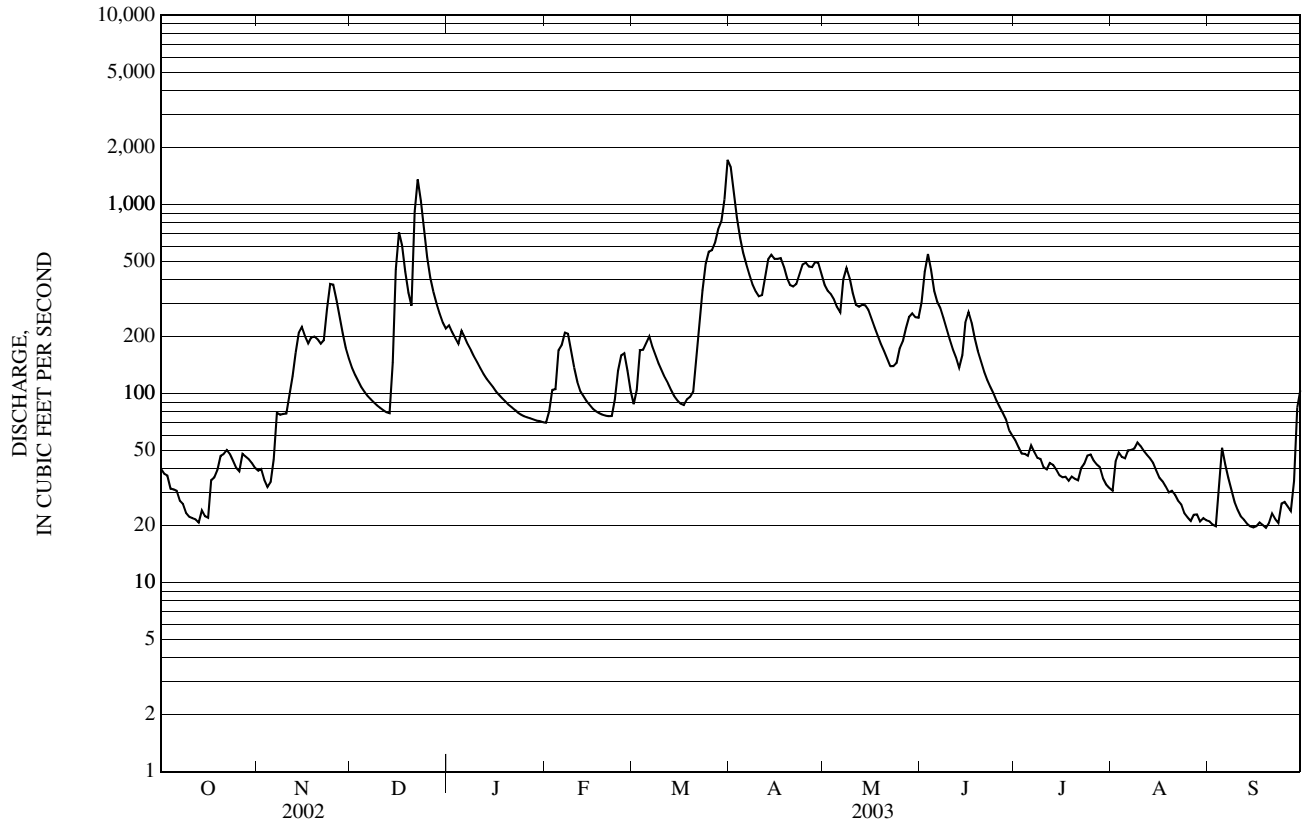
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)

MEAN	35.1	162	343	123	116	317	529	265	204	42.1	36.1	26.0
MAX	35.1	162	343	123	116	317	529	265	204	42.1	36.1	30.1
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	35.1	162	343	123	116	317	529	265	204	42.1	36.1	21.9
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)

e Estimated

01022330 NARRAGUAGUS RIVER AT DEBLOIS, ME—Continued

SUMMARY STATISTICS	FOR 2003 WATER YEAR		WATER YEARS 2002 - 2003	
ANNUAL TOTAL	85			
ANNUAL MEAN	84		184	
HIGHEST ANNUAL MEAN			184	2003
LOWEST ANNUAL MEAN			184	2003
HIGHEST DAILY MEAN	20	Mar 31	1,720	Mar 31, 2003
LOWEST DAILY MEAN	20	Sep 2	15	Sep 8, 2002
ANNUAL SEVEN-DAY MINIMUM	20	Sep 13	16	Sep 7, 2002
MAXIMUM PEAK FLOW	80	Mar 31	1,880	Mar 31, 2003
MAXIMUM PEAK STAGE	5.31	Mar 31	5.31	Mar 31, 2003
INSTANTANEOUS LOW FLOW			14	Sep 9, 2002
ANNUAL RUNOFF (CFSM)	1.90		1.90	
ANNUAL RUNOFF (INCHES)	25.82		25.84	
10 PERCENT EXCEEDS	53		453	
50 PERCENT EXCEEDS	00		100	
90 PERCENT EXCEEDS	26		26	



01022330 NARRAGUAGUS RIVER AT DEBLOIS, ME—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	16
2	---	---	---	---	---	---	---	---	---	---	---	16
3	---	---	---	---	---	---	---	---	---	---	---	17
4	---	---	---	---	---	---	---	---	---	---	---	19
5	---	---	---	---	---	---	---	---	---	---	---	19
6	---	---	---	---	---	---	---	---	---	---	---	18
7	---	---	---	---	---	---	---	---	---	---	---	16
8	---	---	---	---	---	---	---	---	---	---	---	15
9	---	---	---	---	---	---	---	---	---	---	---	15
10	---	---	---	---	---	---	---	---	---	---	---	15
11	---	---	---	---	---	---	---	---	---	---	---	15
12	---	---	---	---	---	---	---	---	---	---	---	19
13	---	---	---	---	---	---	---	---	---	---	---	16
14	---	---	---	---	---	---	---	---	---	---	---	16
15	---	---	---	---	---	---	---	---	---	---	---	16
16	---	---	---	---	---	---	---	---	---	---	---	24
17	---	---	---	---	---	---	---	---	---	---	---	25
18	---	---	---	---	---	---	---	---	---	---	---	23
19	---	---	---	---	---	---	---	---	---	---	---	22
20	---	---	---	---	---	---	---	---	---	---	---	21
21	---	---	---	---	---	---	---	---	---	---	---	20
22	---	---	---	---	---	---	---	---	---	---	---	20
23	---	---	---	---	---	---	---	---	---	---	---	24
24	---	---	---	---	---	---	---	---	---	---	---	28
25	---	---	---	---	---	---	---	---	---	---	---	25
26	---	---	---	---	---	---	---	---	---	---	---	24
27	---	---	---	---	---	---	---	---	---	---	---	24
28	---	---	---	---	---	---	---	---	---	---	---	45
29	---	---	---	---	---	---	---	---	---	---	---	43
30	---	---	---	---	---	---	---	---	---	---	---	41
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	657
MEAN	---	---	---	---	---	---	---	---	---	---	---	21.9
MAX	---	---	---	---	---	---	---	---	---	---	---	45
MIN	---	---	---	---	---	---	---	---	---	---	---	15
CFSM	---	---	---	---	---	---	---	---	---	---	---	0.23
IN.	---	---	---	---	---	---	---	---	---	---	---	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2002, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	---	21.9
MAX	---	---	---	---	---	---	---	---	---	---	---	21.9
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2002)
MIN	---	---	---	---	---	---	---	---	---	---	---	21.9
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2002)

Ground Water Quality Sampling
Acadia National Park
December 2003

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 mi^2.

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 TEMPERATURE: 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.--Records good, except for periods of ice effect, Nov. 29 to Dec. 14 and Dec. 25 to Mar. 23, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s, May 28, 1961, gage height, 17.40 ft; minimum discharge, 3.0 ft^3/s, Sept. 2, 4-5, 1978, gage height, 6.41 ft, caused by construction of ice retention dam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	1845	3,300	12.89	Mar 31	1945	*3,570	*13.13

Minimum discharge, 33 ft^3/s, Sept. 16, 19, gage height, 7.06 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	97	e292	e547	e179	e230	3,230	748	518	99	52	37
2	78	98	e258	e524	e200	e251	2,520	697	904	92	73	36
3	73	89	e235	e468	e234	e611	1,850	727	957	86	95	35
4	67	81	e218	e421	e237	e698	1,450	676	852	83	90	61
5	64	89	e204	e378	e371	e606	1,190	602	672	87	85	97
6	64	159	e194	e448	e415	e620	1,030	545	634	83	91	75
7	60	440	e187	e417	e395	e551	903	1,080	585	83	98	64
8	55	393	e180	e393	e359	e486	828	1,230	512	77	94	55
9	50	328	e174	e364	e324	e416	763	1,020	451	75	93	48
10	47	343	e170	e341	e289	e360	727	804	401	75	95	43
11	45	477	e167	e317	e259	e312	762	661	349	77	88	40
12	44	482	e165	e299	e237	e272	1,150	639	320	75	85	38
13	43	613	e166	e282	e220	e243	1,400	697	287	79	87	36
14	49	901	e352	e268	e208	e219	1,260	656	360	73	80	35
15	51	754	1,500	e256	e198	e204	1,130	605	623	68	71	35
16	51	592	1,640	e247	e192	e190	1,060	541	602	66	64	35
17	109	557	1,530	e236	e186	e190	1,040	480	508	66	59	37
18	132	912	1,120	e228	e181	e200	945	432	410	65	56	36
19	119	829	811	e218	e178	e211	836	391	354	63	52	34
20	118	659	768	e212	e177	e205	743	355	317	62	53	37
21	115	582	2,710	e206	e176	e635	700	326	286	60	54	41
22	107	613	2,910	e201	e174	e1,160	696	300	249	63	49	38
23	102	1,000	2,380	e197	e220	e1,490	870	297	221	78	46	37
24	94	1,060	1,690	e194	e359	1,810	1,020	330	200	87	42	47
25	88	929	e1,140	e191	e390	1,790	1,010	488	180	90	39	47
26	85	755	e757	e188	e343	1,680	942	547	161	84	38	45
27	126	610	e632	e186	e300	1,870	997	590	145	75	41	42
28	143	491	e555	e184	e259	2,240	1,070	635	131	71	41	61
29	125	e407	e505	e182	---	2,140	990	631	117	65	37	150
30	111	e342	e470	e180	---	2,470	868	568	106	58	39	184
31	102	---	e466	e179	---	3,430	---	506	---	54	38	---
TOTAL	2,606	15,682	24,546	8,952	7,260	27,790	33,980	18,804	12,412	2,319	2,025	1,606
MEAN	84.1	523	792	289	259	896	1,133	607	414	74.8	65.3	53.5
MAX	143	1,060	2,910	547	415	3,430	3,230	1,230	957	99	98	184
MIN	43	81	165	179	174	190	696	297	106	54	37	34
CFSM	0.37	2.30	3.49	1.27	1.14	3.95	4.99	2.67	1.82	0.33	0.29	0.24
IN.	0.43	2.57	4.02	1.47	1.19	4.55	5.57	3.08	2.03	0.38	0.33	0.26

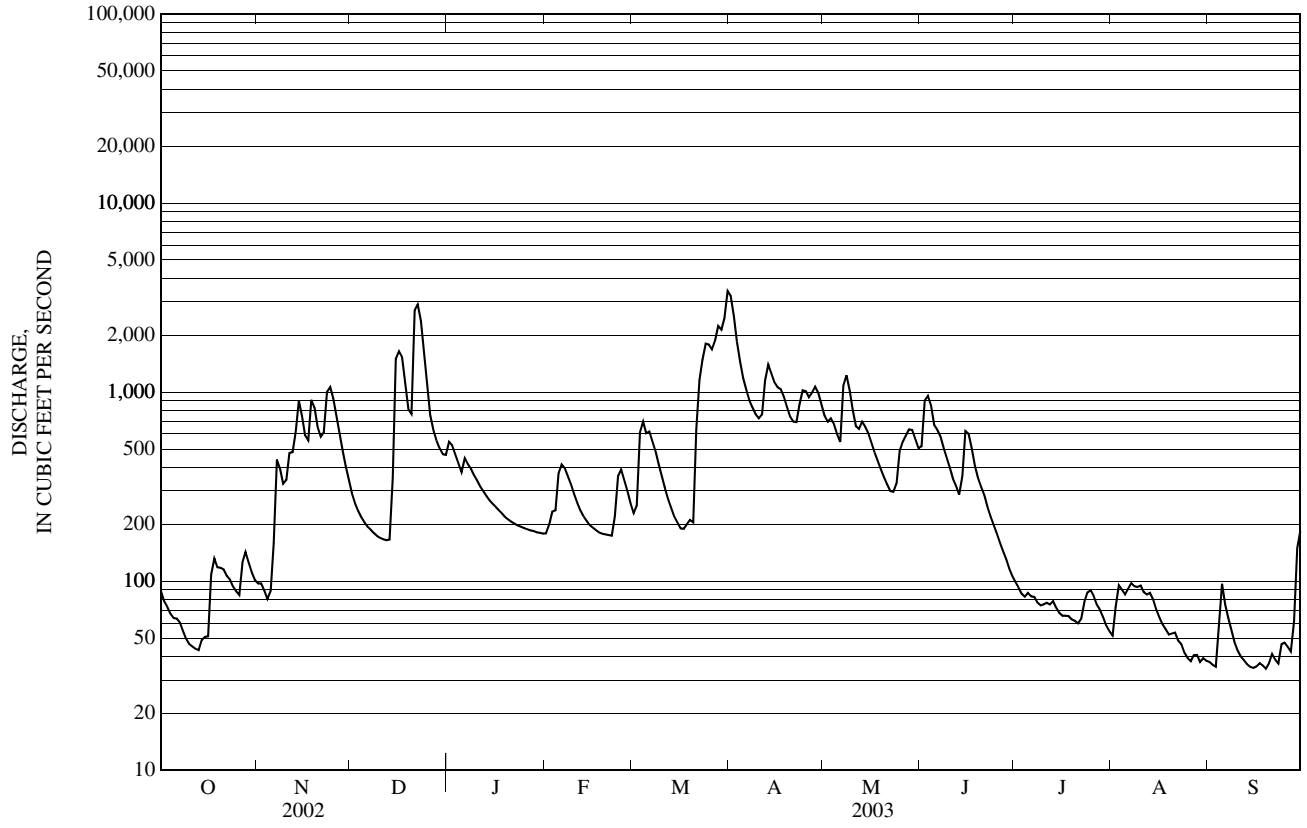
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2003, BY WATER YEAR (WY)

MEAN	258	562	633	503	473	738	1,203	670	338	188	127	159
MAX	1,074	1,317	1,533	1,118	1,125	1,738	1,945	1,962	877	859	526	947
(WY)	(1978)	(1960)	(1970)	(1958)	(1976)	(1998)	(1982)	(1989)	(1984)	(1996)	(1986)	(1954)
MIN	34.3	55.3	87.7	112	121	153	473	299	119	47.2	28.8	32.3
(WY)	(1958)	(2002)	(1956)	(2002)	(1980)	(1967)	(1985)	(1999)	(1964)	(1965)	(1965)	(1968)

e Estimated

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1948 - 2003	
ANNUAL TOTAL	163,570		157,982			
ANNUAL MEAN	448		433		487	
HIGHEST ANNUAL MEAN					761	1973
LOWEST ANNUAL MEAN					256	2001
HIGHEST DAILY MEAN	2,910	Dec 22	3,430	Mar 31	9,490	May 28, 1961
LOWEST DAILY MEAN	29	Aug 21	34	Sep 19	7.1	Sep 5, 1978
ANNUAL SEVEN-DAY MINIMUM	30	Aug 18	35	Sep 13	20	Sep 15, 2001
MAXIMUM PEAK FLOW			3,570	Mar 31	10,400	May 28, 1961
MAXIMUM PEAK STAGE			13.13	Mar 31	17.40	May 28, 1961
INSTANTANEOUS LOW FLOW			33	Sep 16	3.0	Sep 2, 1978
ANNUAL RUNOFF (CFSM)	1.97		1.91		2.15	
ANNUAL RUNOFF (INCHES)	26.81		25.89		29.16	
10 PERCENT EXCEEDS	1,170		1,020		1,140	
50 PERCENT EXCEEDS	204		234		297	
90 PERCENT EXCEEDS	41		49		70	



01022835 CADILLAC BROOK NEAR BAR HARBOR, ME

LOCATION.--Lat 44°20'41", long 68°13'01", Hancock County, Hydrologic Unit 01050002, on right bank 500 ft upstream from confluence with Otter Creek, and 0.5 mi southeast of Cadillac Mountain.

DRAINAGE AREA.--0.123 mi^2. Furnished by University of Maine

PERIOD OF RECORD.--
DISCHARGE: May 1999 to current year.

REVISED RECORDS.--WDR ME-01-1: Gage datum.

GAGE.--Water-stage recorder. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor, including periods of ice effect, Jan. 4, Jan. 15 to Feb. 4, Feb. 11-22, Feb. 26 to Mar. 1, Mar. 4-5, 9-20, and periods of no gage-height record, Nov. 21-24, Jan. 22-25, Feb. 14-16, 26-28, June 17-18, 20-27, and June 29 to July 2. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32 ft^3/s, Dec. 20, 2002, from rating curve extened above 8.6 ft^3/s, gage height, 1.99 ft; no flow for many days in 1999-2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 14	1700	31[a]	1.98	Apr 12	0550	12[a]	1.73
Dec 20	2245	*32[a]	*1.99	Jun 14	1120	12[a]	1.74
Mar 2	2140	20[a]	1.83	Sep 28	2015	19[a]	1.82
Mar 21	1000	14[a]	1.76				

No flow July 20-21 and Aug. 28 to Sept. 4.

[a] From rating curve extended above 8.6 ft^3/s

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	0.08	0.10	0.41	e0.005	e0.05	0.40	0.10	1.1	e0.009	0.003	0.001
2	0.05	0.09	0.08	0.24	e0.004	3.1	0.28	0.10	1.5	e0.008	0.005	0.001
3	0.07	0.08	0.06	0.10	e0.004	2.8	0.25	0.15	0.27	0.007	0.005	0.000
4	0.07	0.06	0.05	e0.07	e0.06	e0.46	0.19	0.12	0.12	0.006	0.004	0.11
5	0.12	0.19	0.04	0.06	1.1	e0.42	0.12	0.09	0.20	0.005	0.006	0.09
6	0.14	2.2	0.03	0.06	0.23	1.3	0.10	0.32	0.52	0.005	0.05	0.02
7	0.08	0.91	0.03	0.05	0.11	0.29	0.10	2.5	0.20	0.004	0.11	0.010
8	0.06	0.34	0.03	0.05	0.08	0.16	0.11	0.37	0.12	0.004	0.11	0.006
9	0.04	0.98	0.02	0.05	0.07	e0.14	0.11	0.19	0.11	0.003	0.10	0.004
10	0.03	0.40	0.02	0.04	0.06	e0.12	0.14	0.12	0.10	0.002	0.07	0.004
11	0.03	0.55	0.02	0.04	e0.05	e0.09	0.23	0.09	0.07	0.003	0.05	0.003
12	0.03	0.46	0.02	0.03	e0.04	e0.08	3.6	0.45	0.06	0.003	0.04	0.003
13	0.03	1.9	0.02	0.03	e0.04	e0.06	0.82	0.51	0.05	0.003	0.03	0.003
14	0.15	1.2	7.3	0.03	e0.03	e0.05	0.36	0.25	3.0	0.003	0.02	0.003
15	0.13	0.34	1.5	e0.03	e0.03	e0.05	0.28	0.16	0.78	0.003	0.01	0.003
16	0.51	0.19	0.31	e0.03	e0.03	e0.04	0.43	0.11	0.37	0.002	0.009	0.003
17	3.0	2.3	0.13	e0.02	e0.02	e0.09	0.21	0.09	e0.14	0.002	0.007	0.003
18	0.40	2.1	0.08	e0.02	e0.02	e0.42	0.12	0.08	e0.09	0.002	0.006	0.003
19	0.25	0.41	0.06	e0.02	e0.02	e0.27	0.10	0.07	0.40	0.002	0.005	0.003
20	0.24	0.55	3.4	e0.01	e0.02	e0.22	0.08	0.06	e0.18	0.001	0.004	0.006
21	0.15	e0.51	3.1	e0.01	e0.02	5.9	0.08	0.05	e0.11	0.001	0.003	0.005
22	0.10	e2.1	0.35	e0.01	e0.02	2.6	0.09	0.04	e0.08	0.001	0.003	0.006
23	0.08	e0.89	0.18	e0.010	0.58	2.7	0.81	0.05	e0.06	0.07	0.003	0.009
24	0.07	e0.34	0.11	e0.009	0.84	1.1	0.44	0.33	e0.04	0.11	0.003	0.006
25	0.06	0.19	0.08	e0.008	0.23	0.66	0.31	1.7	e0.04	0.11	0.002	0.005
26	0.58	0.13	0.10	e0.007	e0.15	0.80	0.20	0.48	e0.03	0.05	0.002	0.006
27	1.6	0.10	0.05	e0.007	e0.11	2.5	3.0	0.75	e0.02	0.02	0.002	0.007
28	0.30	0.07	0.05	e0.007	e0.08	1.0	0.50	0.31	0.02	0.01	0.002	2.0
29	0.16	0.06	0.05	e0.006	---	1.5	0.24	0.17	e0.02	0.006	0.001	1.7
30	0.12	0.05	0.04	e0.005	---	5.0	0.14	0.11	e0.01	0.004	0.001	0.28
31	0.09	---	0.04	e0.005	---	1.3	---	0.08	---	0.003	0.001	---
TOTAL	8.81	19.77	17.45	1.474	4.053	35.27	13.84	10.00	9.81	0.462	0.667	4.303
MEAN	0.28	0.66	0.56	0.048	0.14	1.14	0.46	0.32	0.33	0.015	0.022	0.14
MAX	3.0	2.3	7.3	0.41	1.1	5.9	3.6	2.5	3.0	0.11	0.11	2.0
MIN	0.03	0.05	0.02	0.005	0.004	0.04	0.08	0.04	0.01	0.001	0.001	0.000

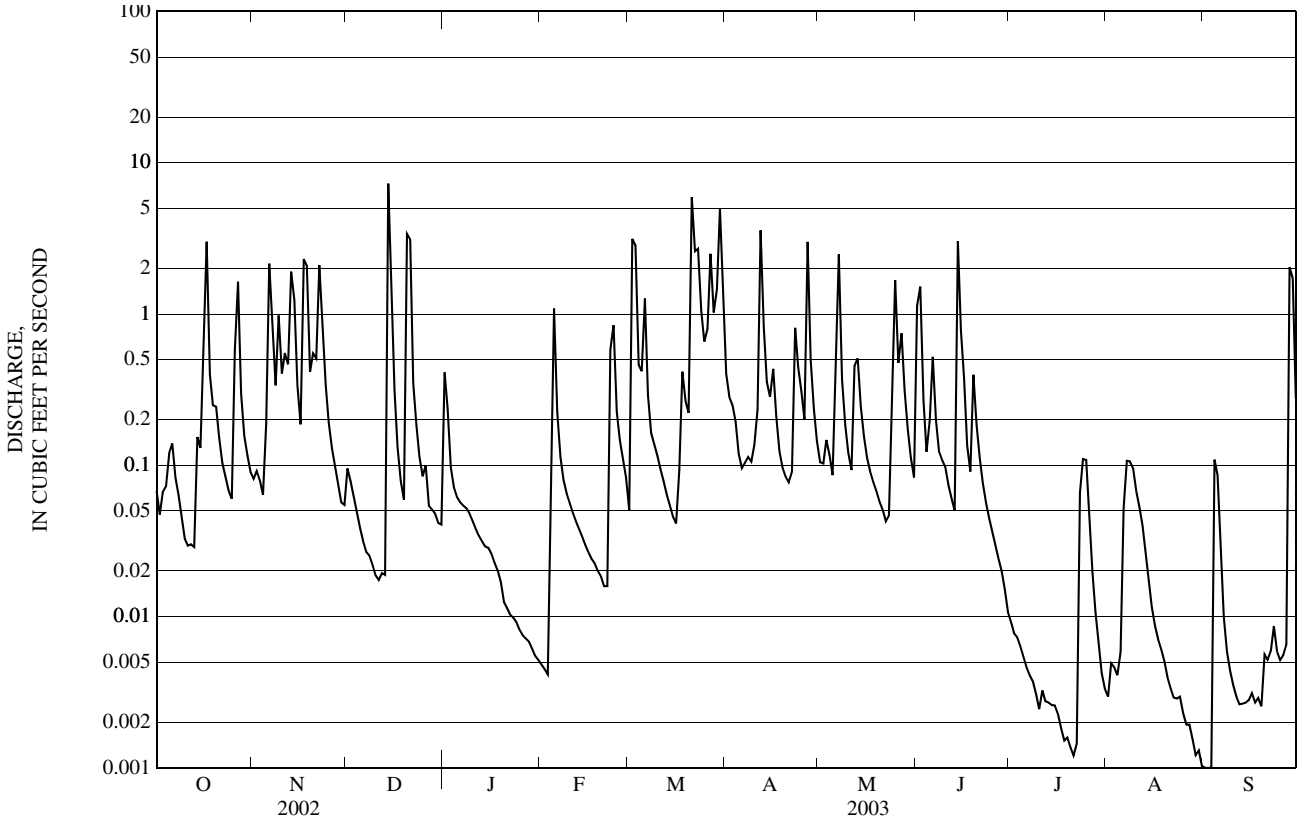
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	0.30	0.45	0.43	0.13	0.38	0.68	0.65	0.26	0.15	0.028	0.006	0.18
MAX	0.51	0.66	0.56	0.21	0.56	1.14	0.95	0.40	0.33	0.11	0.021	0.56
(WY)	(2000)	(2003)	(2003)	(2002)	(2002)	(2003)	(2001)	(2002)	(2003)	(2000)	(2003)	(1999)
MIN	0.065	0.21	0.33	0.048	0.14	0.39	0.46	0.071	0.017	0.000	0.000	0.006
(WY)	(2002)	(2002)	(2002)	(2003)	(2003)	(2001)	(2003)	(2001)	(1999)	(1999)	(2001)	(2001)

e Estimated

01022835 CADILLAC BROOK NEAR BAR HARBOR, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	127.010		125.860			
ANNUAL MEAN	0.35		0.34		0.30	
HIGHEST ANNUAL MEAN					0.34	2003
LOWEST ANNUAL MEAN					0.27	2002
HIGHEST DAILY MEAN	7.6	Mar 27	7.3	Dec 14	7.9	Sep 22, 1999
LOWEST DAILY MEAN	0.000	Jul 11	0.000	Feb 1	0.000	Jul 1, 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 11	0.00	Jul 6	0.00	Jul 3, 1999
MAXIMUM PEAK FLOW			32	Dec 20	32	Dec 20, 2002
MAXIMUM PEAK STAGE			1.99	Dec 20	1.99	Dec 20, 2002
INSTANTANEOUS LOW FLOW			0.00	Jul 20	0.00	Jul 7, 1999
10 PERCENT EXCEEDS	0.94		0.90		0.75	
50 PERCENT EXCEEDS	0.09		0.08		0.08	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



01022860 HADLOCK BROOK NEAR CEDAR SWAMP MOUNTAIN NEAR NORTHEAST HARBOR, ME

LOCATION.--Lat 44°19'54", long 68°16'47", Hancock County, Hydrologic Unit 01050002, on right bank 300 ft upstream from carriage road in Acadia National Park, and 0.3 mi northwest of Cedar Swamp Mountain.

DRAINAGE AREA.--0.182 mi^2. Furnished by the University of Maine.

PERIOD OF RECORD.--
DISCHARGE: April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 570 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor, including periods of ice effect, Nov. 27 to Dec. 14, Dec. 27 to Mar. 20, periods of doubtful stage-discharge relation, Nov. 6-12, Dec. 25-26, Aug. 11-15, and period of no gage-height record, Jan. 23-31. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft^3/s, Dec. 20, 2002, from rating curve extended above 9.8 ft^3/s, gage height, 4.80 ft; maximum gage-height, 4.89 ft, Nov. 6, 2002 (backwater from debris); no flow for many days in 1999, 2001-2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 6	1900	- -[a]	*4.89	Mar 21	0750	54[b]	4.67
Dec 20	2250	*78[b]	4.80				

Minimum discharge, 0.004 ft^3/s, July 19-21, gage height, 3.65 ft.

[a] Backwater from debris
[b] From rating curve extended above 9.8 ft^3/s

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.14	0.18	e0.17	e0.70	e0.04	e0.13	0.77	0.26	1.5	0.03	0.03	0.008
2	0.11	0.16	e0.15	e0.41	e0.04	e5.8	0.51	0.24	2.2	0.03	0.05	0.008
3	0.13	0.15	e0.13	e0.28	e0.04	e7.6	0.40	0.25	0.53	0.03	0.04	0.008
4	0.09	0.13	e0.12	e0.20	e1.3	e2.5	0.31	0.19	0.30	0.02	0.04	0.89
5	0.15	0.20	e0.11	e0.17	e3.6	e1.7	0.27	0.16	0.34	0.02	0.07	0.27
6	0.14	e3.6	e0.10	e0.15	e0.41	e2.9	0.23	0.41	0.53	0.02	0.52	0.11
7	0.11	e1.8	e0.08	e0.14	e0.19	e0.49	0.18	2.7	0.32	0.01	0.42	0.06
8	0.09	e0.83	e0.08	e0.13	e0.12	e0.34	0.18	0.65	0.25	0.01	0.34	0.04
9	0.08	e1.9	e0.07	e0.13	e0.09	e0.30	0.17	0.38	0.21	0.01	0.29	0.04
10	0.07	e1.2	e0.06	e0.12	e0.08	e0.25	0.17	0.28	0.17	0.008	0.22	0.03
11	0.07	e1.1	e0.05	e0.11	e0.07	e0.20	0.25	0.21	0.14	0.02	e0.18	0.02
12	0.06	e0.63	e0.05	e0.11	e0.06	e0.17	5.0	0.42	0.13	0.02	e0.14	0.02
13	0.06	2.9	e0.07	e0.11	e0.06	e0.14	1.7	0.45	0.10	0.02	e0.12	0.02
14	0.13	2.1	e11	e0.10	e0.05	e0.12	0.80	0.35	1.5	0.009	e0.09	0.02
15	0.10	0.66	2.7	e0.10	e0.05	e0.10	0.82	0.27	1.0	0.008	e0.07	0.02
16	0.59	0.40	0.66	e0.10	e0.05	e0.10	1.2	0.21	0.49	0.01	0.06	0.02
17	4.0	2.2	0.35	e0.09	e0.05	e0.25	0.56	0.18	0.30	0.02	0.05	0.02
18	0.64	3.5	0.28	e0.09	e0.04	e0.50	0.35	0.15	0.23	0.009	0.04	0.01
19	0.42	0.85	0.22	e0.08	e0.04	e0.35	0.28	0.13	0.50	0.007	0.03	0.009
20	0.33	0.81	7.6	e0.08	e0.04	e0.23	0.26	0.11	0.32	0.006	0.03	0.03
21	0.23	1.0	6.3	e0.08	e0.04	11	0.23	0.10	0.20	0.006	0.03	0.03
22	0.19	3.1	0.73	e0.07	e0.04	3.3	0.27	0.08	0.16	0.007	0.03	0.02
23	0.16	1.6	0.42	e0.07	e2.2	3.9	1.2	0.10	0.14	1.4	0.02	0.02
24	0.13	0.62	0.30	e0.06	e1.7	1.6	0.81	0.17	0.12	0.89	0.02	0.05
25	0.12	0.40	e0.25	e0.06	e0.35	1.0	0.68	0.86	0.11	0.57	0.02	0.03
26	0.77	0.30	e0.40	e0.06	e0.22	1.0	0.48	0.47	0.08	0.24	0.02	0.03
27	2.2	e0.23	e0.18	e0.05	e0.17	3.9	3.2	0.81	0.06	0.13	0.02	0.03
28	0.51	e0.18	e0.15	e0.05	e0.15	1.9	0.92	0.44	0.05	0.10	0.01	0.53
29	0.31	e0.16	e0.14	e0.05	---	2.6	0.49	0.30	0.04	0.05	0.01	1.2
30	0.24	e0.15	e0.13	e0.05	---	7.4	0.35	0.22	0.03	0.04	0.01	0.35
31	0.21	---	e0.12	e0.04	---	2.8	---	0.16	---	0.03	0.01	---
TOTAL	12.58	33.04	33.17	4.04	11.29	64.57	23.04	11.71	12.05	3.780	3.03	3.943
MEAN	0.41	1.10	1.07	0.13	0.40	2.08	0.77	0.38	0.40	0.12	0.098	0.13
MAX	4.0	3.6	11	0.70	3.6	11	5.0	2.7	2.2	1.4	0.52	1.2
MIN	0.06	0.13	0.05	0.04	0.04	0.10	0.17	0.08	0.03	0.006	0.01	0.008

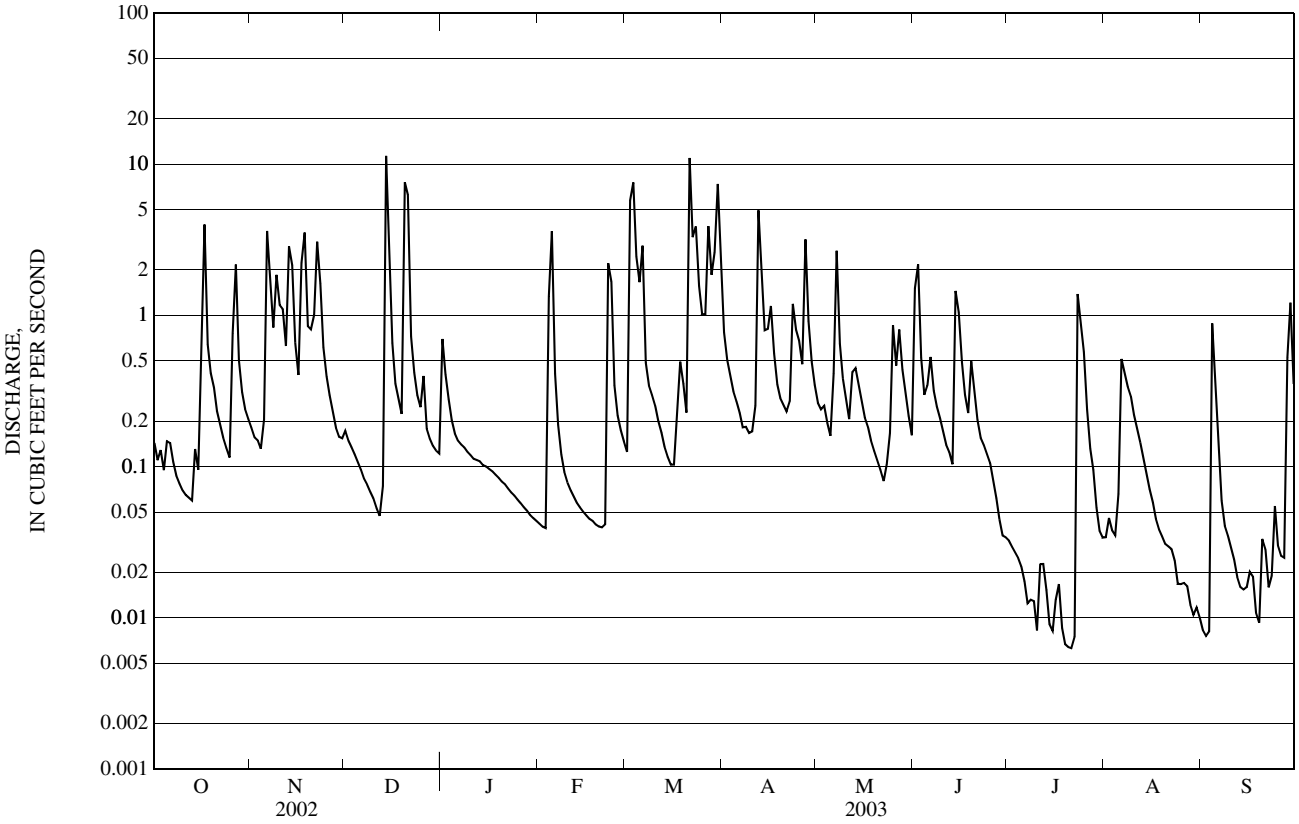
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	0.38	0.67	0.72	0.24	0.63	1.20	1.08	0.37	0.23	0.072	0.026	0.23
MAX	0.53	1.10	1.07	0.47	0.86	2.08	1.50	0.54	0.45	0.17	0.098	0.76
(WY)	(2001)	(2003)	(2003)	(2000)	(2000)	(2003)	(2001)	(2002)	(2001)	(2000)	(2003)	(1999)
MIN	0.075	0.20	0.49	0.068	0.40	0.41	0.77	0.19	0.039	0.010	0.003	0.018
(WY)	(2002)	(2002)	(2002)	(2001)	(2003)	(2001)	(2003)	(2001)	(1999)	(1999)	(1999)	(2001)

e Estimated

01022860 HADLOCK BROOK NEAR CEDAR SWAMP MOUNTAIN NEAR NORTHEAST HARBOR, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	200.820		216.270			
ANNUAL MEAN	0.55		0.59		0.48	
HIGHEST ANNUAL MEAN					0.59	2003
LOWEST ANNUAL MEAN					0.40	2002
HIGHEST DAILY MEAN	17	Mar 27	11	Dec 14	17	Mar 27, 2002
LOWEST DAILY MEAN	0.000	Aug 9	0.01	Jul 7	0.000	Jul 17, 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 9	0.01	Aug 28	0.00	Jul 28, 1999
MAXIMUM PEAK FLOW			78	Dec 20	78	Dec 20, 2002
MAXIMUM PEAK STAGE			4.89	Nov 6	4.89	Nov 6, 2002
INSTANTANEOUS LOW FLOW			0.00	Jul 19	0.00	Jul 28, 1999
10 PERCENT EXCEEDS	1.4		1.6		1.2	
50 PERCENT EXCEEDS	0.16		0.16		0.14	
90 PERCENT EXCEEDS	0.01		0.02		0.01	



01027200 NORTH BRANCH PENOBSCOT RIVER NEAR PITTSTON FARM, ME

LOCATION.--Lat 45°56'08", long 69°59'38", Somerset County, Hydrologic Unit 01020001, on left bank, and 500 ft upstream of Leadbetter Falls.

DRAINAGE AREA.--232 mi^2.

PERIOD OF RECORD.--
DISCHARGE: September 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,086.20 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 11-16, 2001, Nov. 29 to Dec. 1, 2001, Dec. 8, 2001 to Apr. 15, 2002, Oct. 30 to Nov. 10, 2002, and Nov. 16, 2002 to Apr. 14, 2003, and periods of no gage-height record, Sept. 1-5, 2001, Jan. 9 to Apr. 18, 2002, July 25-31, 2002, and May 2-3, 2003, which are fair. Satellite gage-height telemeter at station. Records for water years 2001 and 2002 have not been previously published and are given below.

EXTREMES FOR WATER YEAR 2002.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*) for water year 2002:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
[a]	Unknown	Ice Jam	*10.47[b]	Apr 18	Unknown	*6,740[c]	8.78[c]

Minimum discharge, 5.6 ft^3/s, Sept. 10-11, gage height, 3.29 ft.

[a] Sometime during period Apr. 11-18.
[b] From floodmarks
[c] Estimated

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	0945	Ice Jam	*8.82	Apr 16	0900	*5,020	8.12

Minimum discharge, 10 ft^3/s, Sept. 15-16, gage height, 3.44 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	e115	e181	e132	e49	e31	e1,230	952	274	109	76	34
2	61	e91	e165	e140	e47	e31	e987	e1,200	293	101	64	28
3	57	e66	e149	e143	e46	e30	e825	e1,900	270	139	56	25
4	49	e60	e139	e141	e46	e29	e695	1,120	229	176	51	22
5	44	e57	e130	e136	e45	e28	e591	848	216	169	48	21
6	40	e55	e123	e131	e43	e28	e514	681	603	146	48	19
7	35	e52	e118	e128	e42	e27	e468	703	619	115	85	17
8	32	e46	e112	e123	e41	e27	e437	682	526	91	470	16
9	28	e59	e109	e117	e39	e26	e414	585	416	87	348	15
10	26	e89	e105	e111	e39	e26	e440	506	526	77	491	13
11	25	181	e103	e106	e38	e25	e522	439	507	66	470	13
12	24	337	e102	e99	e37	e24	e681	890	575	82	337	12
13	23	385	e100	e93	e36	e24	e1,110	1,420	462	75	244	12
14	25	398	e99	e87	e35	e23	e1,200	1,250	660	61	178	11
15	25	342	e99	e83	e35	e23	1,710	963	1,040	51	133	11
16	26	e291	e98	e78	e34	e24	4,500	718	1,030	43	108	14
17	66	e244	e93	e75	e34	e24	3,140	560	775	39	106	25
18	183	e220	e85	e72	e33	e24	2,070	453	550	38	87	27
19	175	e211	e78	e70	e33	e25	1,500	377	403	34	69	22
20	332	e202	e81	e68	e33	e44	1,530	319	323	30	55	20
21	338	e190	e120	e66	e33	e119	2,260	280	264	29	47	19
22	261	e220	e253	e64	e32	e113	2,720	260	216	43	41	19
23	203	e530	e327	e62	e32	e124	2,770	231	183	89	36	19
24	166	e586	e265	e60	e32	e151	2,660	213	159	117	33	28
25	140	e549	e226	e59	e32	e247	2,220	211	131	145	30	37
26	125	e362	e194	e57	e32	e458	1,600	220	108	121	25	35
27	186	e294	e172	e56	e32	e1,010	1,480	226	90	143	48	33
28	245	e253	e157	e54	e32	e987	1,390	217	73	182	67	30
29	214	e223	e144	e53	---	e1,060	1,260	199	61	141	46	36
30	e165	e201	e134	e51	---	e1,730	1,100	198	80	110	45	40
31	e135	---	e126	e50	---	e1,590	---	296	---	94	43	---
TOTAL	3,520	6,909	4,387	2,765	1,042	8,132	44,024	19,117	11,662	2,943	3,985	673
MEAN	114	230	142	89.2	37.2	262	1,467	617	389	94.9	129	22.4
MAX	338	586	327	143	49	1,730	4,500	1,900	1,040	182	491	40
MIN	23	46	78	50	32	23	414	198	61	29	25	11
CFSM	0.49	0.99	0.61	0.38	0.16	1.13	6.33	2.66	1.68	0.41	0.55	0.10
IN.	0.56	1.11	0.70	0.44	0.17	1.30	7.06	3.07	1.87	0.47	0.64	0.11

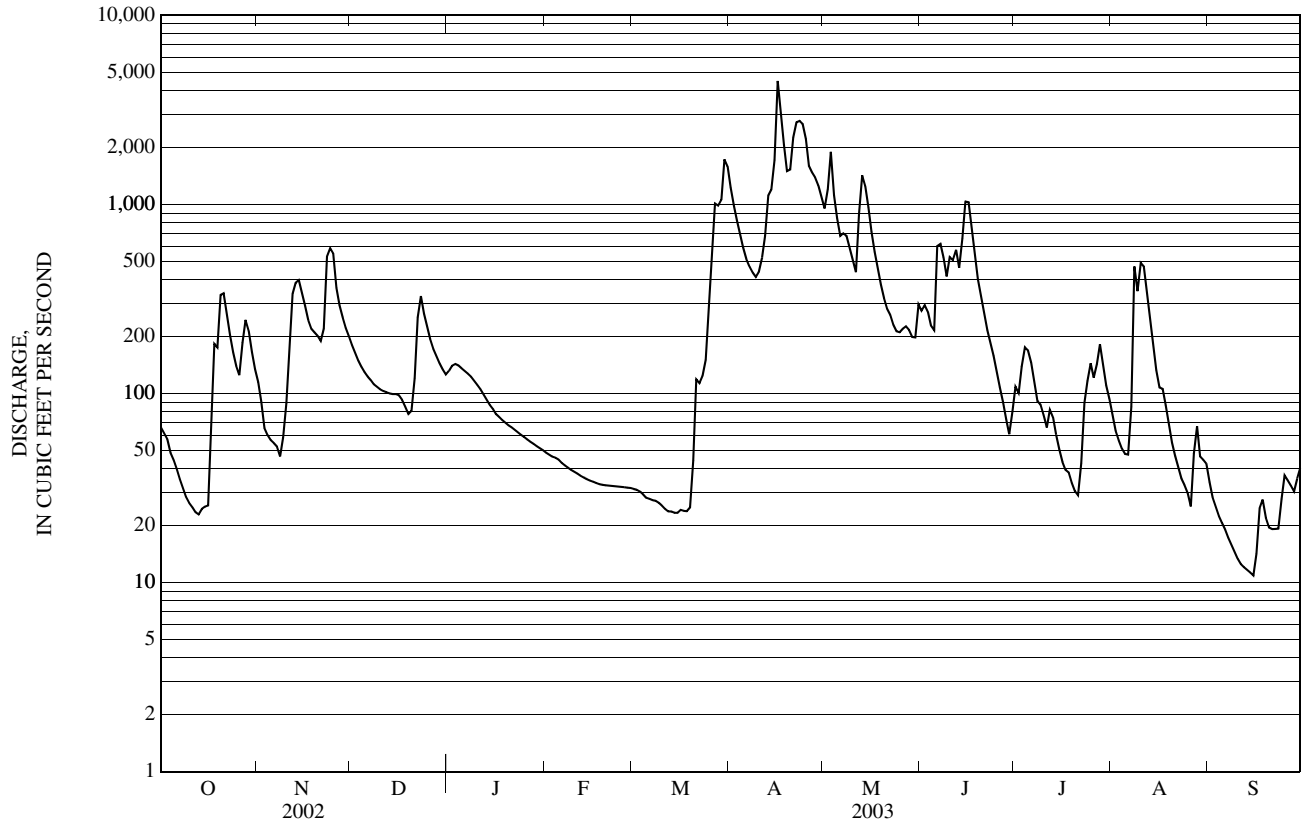
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	94.8	171	194	72.4	42.8	230	1,461	571	428	233	86.9	33.8
MAX	114	230	247	89.2	48.4	262	1,467	617	468	371	129	48.6
(WY)	(2003)	(2003)	(2002)	(2003)	(2002)	(2003)	(2003)	(2003)	(2002)	(2002)	(2003)	(2001)
MIN	76.0	112	142	55.6	37.2	198	1,454	525	389	94.9	45.3	22.4
(WY)	(2002)	(2002)	(2003)	(2002)	(2003)	(2002)	(2002)	(2002)	(2003)	(2003)	(2002)	(2003)

e Estimated

01027200 NORTH BRANCH PENOBSCOT RIVER NEAR PITTSTON FARM, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	111,742.7		109,159			
ANNUAL MEAN	306		299		301	
HIGHEST ANNUAL MEAN					302	2002
LOWEST ANNUAL MEAN					299	2003
HIGHEST DAILY MEAN	6,130	Apr 18	4,500	Apr 16	6,130	Apr 18, 2002
LOWEST DAILY MEAN	5.9	Sep 10	11	Sep 14	5.9	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	6.9	Sep 4	12	Sep 10	6.9	Sep 4, 2002
MAXIMUM PEAK FLOW			5,020	Apr 16	6,740	Apr 18, 2002
MAXIMUM PEAK STAGE			8.82	Mar 30	10.47	Apr 12, 2002
INSTANTANEOUS LOW FLOW			10	Sep 15	5.6	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.32		1.29		1.30	
ANNUAL RUNOFF (INCHES)	17.92		17.50		17.61	
10 PERCENT EXCEEDS	655		834		694	
50 PERCENT EXCEEDS	130		109		110	
90 PERCENT EXCEEDS	25		26		25	



01027200 NORTH BRANCH PENOBSCOT RIVER NEAR PITTSTON FARM, ME—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	e119
2	---	---	---	---	---	---	---	---	---	---	---	e149
3	---	---	---	---	---	---	---	---	---	---	---	e105
4	---	---	---	---	---	---	---	---	---	---	---	e79
5	---	---	---	---	---	---	---	---	---	---	---	e64
6	---	---	---	---	---	---	---	---	---	---	---	52
7	---	---	---	---	---	---	---	---	---	---	---	43
8	---	---	---	---	---	---	---	---	---	---	---	36
9	---	---	---	---	---	---	---	---	---	---	---	31
10	---	---	---	---	---	---	---	---	---	---	---	27
11	---	---	---	---	---	---	---	---	---	---	---	28
12	---	---	---	---	---	---	---	---	---	---	---	24
13	---	---	---	---	---	---	---	---	---	---	---	22
14	---	---	---	---	---	---	---	---	---	---	---	20
15	---	---	---	---	---	---	---	---	---	---	---	18
16	---	---	---	---	---	---	---	---	---	---	---	17
17	---	---	---	---	---	---	---	---	---	---	---	16
18	---	---	---	---	---	---	---	---	---	---	---	14
19	---	---	---	---	---	---	---	---	---	---	---	14
20	---	---	---	---	---	---	---	---	---	---	---	13
21	---	---	---	---	---	---	---	---	---	---	---	16
22	---	---	---	---	---	---	---	---	---	---	---	18
23	---	---	---	---	---	---	---	---	---	---	---	26
24	---	---	---	---	---	---	---	---	---	---	---	35
25	---	---	---	---	---	---	---	---	---	---	---	33
26	---	---	---	---	---	---	---	---	---	---	---	88
27	---	---	---	---	---	---	---	---	---	---	---	128
28	---	---	---	---	---	---	---	---	---	---	---	97
29	---	---	---	---	---	---	---	---	---	---	---	73
30	---	---	---	---	---	---	---	---	---	---	---	54
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	1,459
MEAN	---	---	---	---	---	---	---	---	---	---	---	48.6
MAX	---	---	---	---	---	---	---	---	---	---	---	149
MIN	---	---	---	---	---	---	---	---	---	---	---	13
CFSM	---	---	---	---	---	---	---	---	---	---	---	0.21
IN.	---	---	---	---	---	---	---	---	---	---	---	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	---	48.6
MAX	---	---	---	---	---	---	---	---	---	---	---	48.6
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2001)
MIN	---	---	---	---	---	---	---	---	---	---	---	48.6
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2001)

e Estimated

01027200 NORTH BRANCH PENOBSCOT RIVER NEAR PITTSTON FARM, ME—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	104	e265	e70	e49	e83	e342	642	1,270	917	221	9.1
2	34	99	760	e68	e51	e80	e439	721	1,330	1,430	154	8.6
3	29	104	811	e66	e49	e77	e563	1,110	997	1,070	125	8.3
4	26	111	669	e65	e48	e122	e611	1,210	704	675	104	8.3
5	23	102	612	e63	e47	e135	e539	952	524	482	88	7.6
6	23	95	602	e62	e46	e124	e479	744	453	662	77	6.9
7	26	87	523	e61	e46	e116	e432	636	380	613	68	6.7
8	32	78	e415	e61	e46	e112	e400	714	314	466	57	6.6
9	32	83	e311	e60	e45	e108	e378	639	273	632	49	6.2
10	28	112	e254	e59	e45	e125	e467	576	253	731	43	5.9
11	26	e108	e211	e58	e49	e190	e655	500	246	517	38	8.8
12	24	e93	e196	e57	e51	e467	e701	410	289	370	33	14
13	23	e71	e180	e56	e49	e410	e1,010	348	255	288	30	26
14	21	e66	e168	e56	e47	e351	e1,860	357	212	241	27	25
15	21	e64	e153	e56	e46	e312	e3,220	554	178	213	25	39
16	23	e141	e140	e54	e45	e278	e3,060	637	203	200	23	114
17	29	191	e129	e53	e44	e258	e4,540	710	254	172	22	79
18	54	163	e117	e51	e44	e242	e6,130	637	740	147	20	53
19	63	150	e110	e50	e43	e229	4,650	584	656	124	21	37
20	58	144	e102	e49	e43	e222	3,710	503	468	106	22	28
21	55	144	e96	e48	e43	e222	2,380	418	329	91	20	23
22	62	129	e90	e48	e43	e218	1,510	356	249	78	18	23
23	73	116	e87	e47	e44	e198	1,080	302	203	89	18	32
24	130	109	e86	e47	e53	e183	825	258	263	151	17	31
25	200	105	e86	e47	e51	e173	668	231	226	e104	16	25
26	291	117	e86	e56	e50	e165	626	212	175	e80	14	21
27	264	135	e85	e54	e61	e160	675	200	483	e67	13	19
28	215	132	e82	e53	e76	e160	593	176	972	e61	12	61
29	172	e96	e80	e51	---	e166	540	153	684	e68	11	103
30	140	e119	e76	e50	---	e191	529	225	444	e244	10	78
31	117	---	e73	e49	---	e261	---	548	---	e399	9.7	---
TOTAL	2,356	3,368	7,655	1,725	1,354	6,138	43,612	16,263	14,027	11,488	1,405.7	914.0
MEAN	76.0	112	247	55.6	48.4	198	1,454	525	468	371	45.3	30.5
MAX	291	191	811	70	76	467	6,130	1,210	1,330	1,430	221	114
MIN	21	64	73	47	43	77	342	153	175	61	9.7	5.9
CFSM	0.33	0.48	1.06	0.24	0.21	0.85	6.27	2.26	2.02	1.60	0.20	0.13
IN.	0.38	0.54	1.23	0.28	0.22	0.98	6.99	2.61	2.25	1.84	0.23	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

MEAN	76.0	112	247	55.6	48.4	198	1,454	525	468	371	45.3	39.6
MAX	76.0	112	247	55.6	48.4	198	1,454	525	468	371	45.3	48.6
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)
MIN	76.0	112	247	55.6	48.4	198	1,454	525	468	371	45.3	30.5
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

e Estimated

01029200 SEBOEIS RIVER NEAR SHIN POND, ME

LOCATION.--Lat 46°08'36", long 68°38'02", Aroostook County, Hydrologic Unit 01020002, on left bank at State Route 159 crossing in T6 R7, and 200 ft downstream from Sawtelle Brook.

DRAINAGE AREA.--173 mi^2.

PERIOD OF RECORD.--
DISCHARGE: April 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 512.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Oct. 30 to Nov. 8, Nov. 17-20, Nov. 24 to Apr. 19, and period of doubtful gage-height record, Mar. 18 to July 18, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft^3/s, Apr. 10, 2000, gage height, 10.58 ft; mimimum discharge, 4.3 ft^3/s, Sept. 3, 2002, gage height, 3.94 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,230 ft^3/s, Apr. 25, gage height, 9.14 ft; minimum discharge, 7.4 ft^3/s, Sept. 20, gage height, 4.04 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	e30	e119	e118	e48	e50	e590	1,490	276	93	63	28
2	13	e28	e133	e115	e51	e50	e559	1,410	335	92	55	26
3	12	e27	e139	e111	e70	e52	e535	1,370	324	87	50	24
4	11	e26	e126	e108	e98	e49	e513	1,230	262	81	81	23
5	10	e26	e116	e105	e107	e48	e491	1,080	227	90	165	24
6	11	e26	e104	e102	e96	e47	e465	955	403	87	185	23
7	10	e29	e95	e100	e84	e47	e440	927	517	75	156	21
8	12	e35	e86	e97	e75	e46	e413	887	443	66	126	19
9	11	34	e81	e93	e70	e45	e395	795	395	63	106	17
10	10	33	e76	e90	e65	e43	e375	724	384	55	106	15
11	9.9	42	e72	e86	e61	e42	e355	672	349	51	130	14
12	9.5	69	e68	e83	e59	e42	e342	653	335	53	114	13
13	8.8	102	e64	e81	e57	e41	e352	657	301	57	96	12
14	9.2	126	e67	e78	e57	e40	e429	615	328	54	83	11
15	8.9	108	e77	e77	e55	e39	e522	562	395	47	71	10
16	8.7	94	e72	e75	e53	e38	e612	510	382	43	64	10
17	23	e77	e68	e72	e53	e38	e734	465	345	40	61	11
18	49	e88	e65	e70	e52	e42	e807	424	305	39	56	11
19	45	e97	e63	e67	e51	e39	e864	386	271	35	51	9.5
20	61	e96	e61	e64	e50	e36	874	352	247	31	47	8.8
21	60	92	e142	e62	e50	e72	1,060	322	219	31	44	11
22	49	110	e205	e60	e50	e108	1,400	293	197	34	40	10
23	43	224	e186	e58	e52	e150	1,780	274	181	46	37	9.6
24	39	e273	e167	e57	e54	e181	2,040	256	166	54	36	11
25	35	e226	e150	e55	e52	e217	2,190	246	154	73	32	10
26	33	e200	e138	e53	e50	e253	2,050	233	138	70	30	10
27	39	e183	e130	e51	e49	e301	1,970	217	122	66	39	9.5
28	44	e161	e123	e49	e49	e362	1,980	200	126	65	42	31
29	45	e148	e117	e48	---	e445	1,830	195	110	56	35	352
30	e39	e133	e112	e47	---	e584	1,690	197	98	53	34	396
31	e33	---	e116	e47	---	e603	---	279	---	65	31	---
TOTAL	805.0	2,943	3,338	2,379	1,718	4,150	28,657	18,876	8,335	1,852	2,266	1,180.4
MEAN	26.0	98.1	108	76.7	61.4	134	955	609	278	59.7	73.1	39.3
MAX	61	273	205	118	107	603	2,190	1,490	517	93	185	396
MIN	8.7	26	61	47	48	36	342	195	98	31	30	8.8
CFSM	0.15	0.57	0.62	0.44	0.35	0.77	5.52	3.52	1.61	0.35	0.42	0.23
IN.	0.17	0.63	0.72	0.51	0.37	0.89	6.16	4.06	1.79	0.40	0.49	0.25

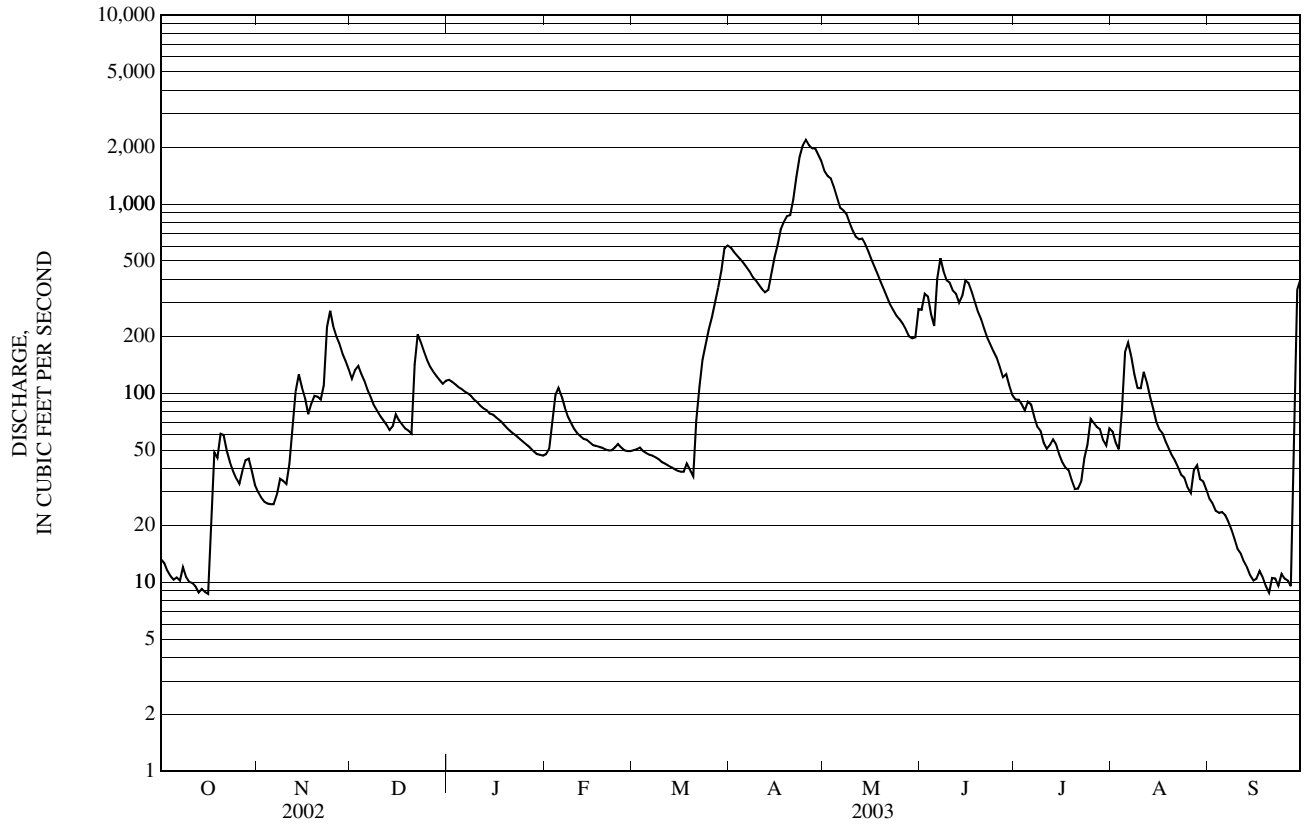
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

MEAN	118	164	189	117	92.7	253	1,126	485	178	103	81.9	119
MAX	404	363	370	183	182	572	1,670	706	278	239	233	535
(WY)	(2000)	(2000)	(2000)	(1999)	(1999)	(1999)	(2000)	(2000)	(2003)	(1998)	(1999)	(1999)
MIN	26.0	47.0	93.6	74.0	61.4	85.4	630	276	122	59.7	23.4	12.4
(WY)	(2003)	(2002)	(2002)	(2002)	(2003)	(2001)	(2001)	(1999)	(2002)	(2003)	(2002)	(2002)

e Estimated

01029200 SEBOEIS RIVER NEAR SHIN POND, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1998 - 2003	
ANNUAL TOTAL	64,742.8		76,499.4			
ANNUAL MEAN	177		210		244	
HIGHEST ANNUAL MEAN					359	2000
LOWEST ANNUAL MEAN					173	2002
HIGHEST DAILY MEAN	1,920	Apr 15	2,190	Apr 25	2,880	Apr 10, 2000
LOWEST DAILY MEAN	4.5	Sep 3	8.7	Oct 16	4.5	Sep 3, 2002
ANNUAL SEVEN-DAY MINIMUM	5.4	Aug 29	9.3	Oct 10	5.4	Aug 29, 2002
MAXIMUM PEAK FLOW			2,230	Apr 25	3,100	Apr 10, 2000
MAXIMUM PEAK STAGE			9.14	Apr 25	10.58	Apr 10, 2000
INSTANTANEOUS LOW FLOW			7.4	Sep 20	4.3	Sep 3, 2002
ANNUAL RUNOFF (CFSM)	1.03		1.21		1.41	
ANNUAL RUNOFF (INCHES)	13.92		16.45		19.17	
10 PERCENT EXCEEDS	461		519		596	
50 PERCENT EXCEEDS	77		73		109	
90 PERCENT EXCEEDS	11		20		28	



01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME

LOCATION.--Lat 45°43'49", long 68°35'22", Penobscot County, Hydrologic Unit 01020002, on left bank 500 ft downstream from Bangor and Aroostook Railroad bridge, 0.5 mi south of Grindstone, and 9.5 mi upstream from confluence with West Branch Penobscot River.

DRAINAGE AREA.--1,086 mi^2

PERIOD OF RECORD.--
DISCHARGE: October 1902 to September 1982 (monthly discharge only for some periods). October 1999 to current year.
GAGE HEIGHT: May 1998 to September 1999.

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

REMARKS.--Records good, except for periods of ice effect, Nov. 26 to Dec. 20 and Dec. 26 to Apr. 14, which are fair. Flow regulated by Chamberlain, Telos, Second, Grand Lakes, and Round Pond, combined usable capacity, about 6.835 billion ft^3. Final regualtion at Grand Lake Dam 35 mi upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,000 ft^3/s, Apr. 30, 1923, gage height 16.9 ft, site then in use; minimum daily discharge, 77 ft^3/s, Nov. 19, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,700 ft^3/s, Apr. 24, gage height, 9.54 ft; minimum daily discharge, 262 ft^3/s, Oct. 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	463	e759	e854	e484	e476	e2,770	6,560	1,700	872	589	450
2	423	443	e717	e849	e489	e479	e2,680	5,810	2,280	857	576	435
3	393	379	e683	e796	e497	e482	e2,440	5,790	2,480	817	560	424
4	364	368	e657	e768	e514	e481	e2,270	5,220	2,140	749	569	435
5	377	431	e635	e747	e547	e477	e2,130	4,640	1,720	735	942	437
6	428	431	e617	e732	e570	e474	e2,000	4,300	2,350	740	1,450	433
7	391	530	e602	e727	e572	e473	e1,910	4,800	3,030	682	1,390	422
8	368	440	e588	e717	e563	e472	e1,830	5,160	2,820	645	1,060	413
9	383	524	e578	e712	e547	e474	e1,770	4,950	2,710	632	899	404
10	471	533	e567	e703	e533	e478	e1,750	4,540	2,660	601	1,030	397
11	438	606	e558	e699	e521	e481	e1,850	4,300	2,740	589	1,750	394
12	287	926	e553	e707	e515	e480	e2,390	3,970	2,720	641	1,530	389
13	262	1,050	e548	e734	e509	e478	e3,100	3,990	2,130	650	1,110	389
14	281	1,290	e546	e709	e505	e476	e3,570	3,850	2,070	622	884	382
15	293	1,120	e640	e688	e501	e475	4,060	3,450	2,920	587	750	379
16	283	934	e837	e667	e498	e473	5,410	3,170	2,990	559	702	382
17	506	790	e819	e646	e495	e472	5,550	2,990	2,690	543	747	430
18	1,070	672	e695	e627	e492	e470	5,050	2,530	2,640	527	690	450
19	760	876	e674	e608	e490	e469	4,530	2,320	2,450	516	618	453
20	1,200	882	e731	e591	e487	e468	4,870	2,240	1,870	504	578	450
21	1,060	843	1,770	e575	e485	e472	5,940	2,160	1,630	495	546	473
22	765	842	2,870	e563	e483	e503	7,330	1,930	1,540	526	522	461
23	620	1,750	2,390	e550	e481	e641	8,630	1,620	1,490	718	499	452
24	541	2,260	1,850	e539	e479	e1,120	10,400	1,540	1,410	1,020	481	499
25	492	1,790	1,400	e528	e478	e1,290	10,400	1,530	1,180	1,060	473	514
26	465	e1,410	e1,160	e517	e476	e1,260	9,560	1,510	1,070	876	468	483
27	504	e1,130	e1,010	e508	e475	e1,200	8,890	1,540	1,020	737	498	471
28	589	e981	e899	e501	e474	e1,170	8,660	1,690	933	697	521	666
29	579	e879	e823	e496	---	e1,330	7,960	1,680	861	633	490	6,660
30	522	e813	e777	e490	---	e2,110	7,360	1,670	839	589	477	4,750
31	480	---	e742	e488	---	e2,610	---	1,800	---	597	461	---
TOTAL	16,044	26,386	28,695	20,036	14,160	23,214	147,060	103,250	61,083	21,016	23,860	23,777
MEAN	518	880	926	646	506	749	4,902	3,331	2,036	678	770	793
MAX	1,200	2,260	2,870	854	572	2,610	10,400	6,560	3,030	1,060	1,750	6,660
MIN	262	368	546	488	474	468	1,750	1,510	839	495	461	379
CFSM	0.48	0.81	0.85	0.60	0.47	0.69	4.51	3.07	1.87	0.62	0.71	0.73

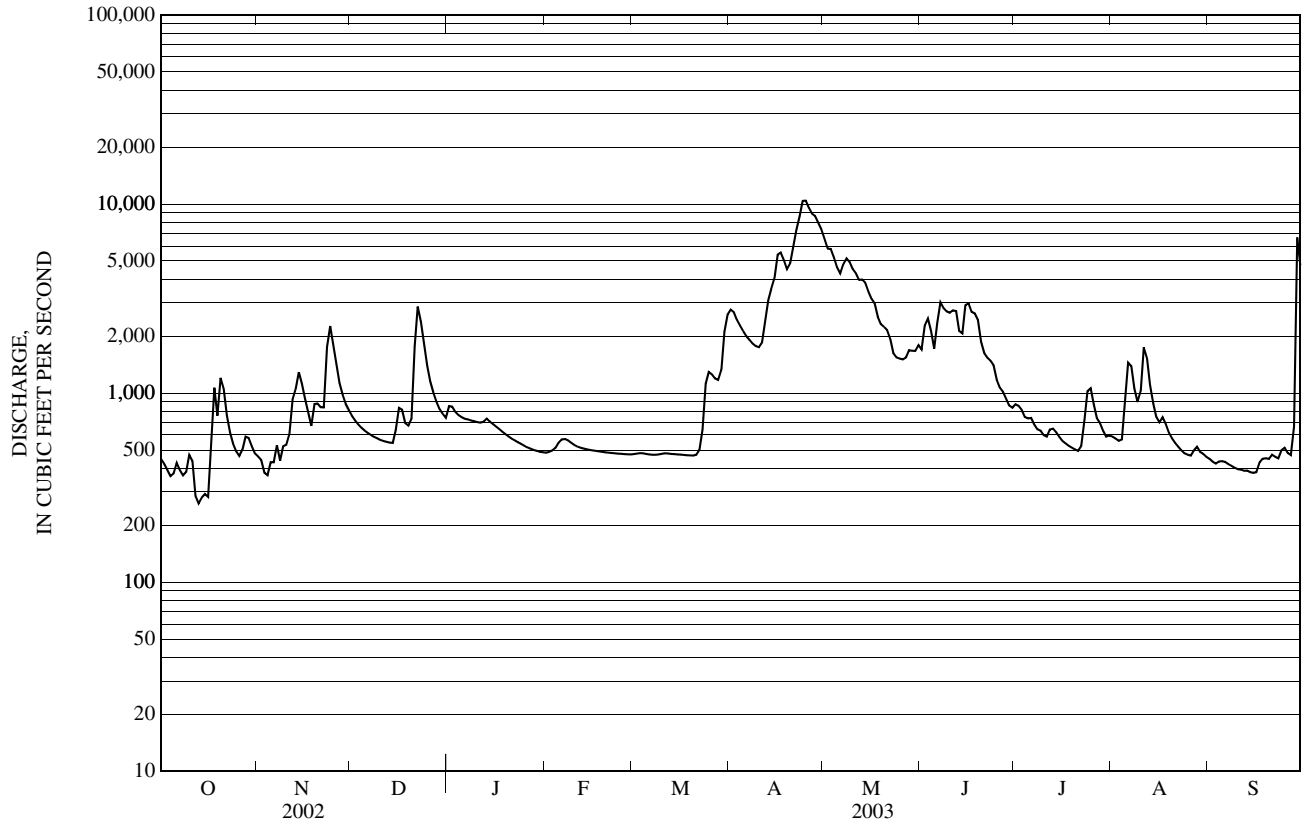
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2003, BY WATER YEAR (WY)

MEAN	1,221	1,727	1,513	1,073	1,023	1,543	4,805	4,831	2,270	1,329	893	953
MAX	5,537	6,564	6,015	3,552	3,680	7,851	9,941	10,890	6,292	4,697	2,807	4,200
(WY)	(1982)	(1964)	(1951)	(1958)	(1970)	(1936)	(2000)	(1961)	(1917)	(1918)	(1976)	(1954)
MIN	210	327	203	255	216	222	1,268	2,000	796	357	250	264
(WY)	(1911)	(1956)	(1909)	(1948)	(1948)	(1923)	(1926)	(1999)	(1921)	(1955)	(1941)	(1910)

e Estimated

01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1903 - 2003	
ANNUAL TOTAL	458,520		508,581			
ANNUAL MEAN	1,256		1,393		1,933	
HIGHEST ANNUAL MEAN					2,952	1958
LOWEST ANNUAL MEAN					1,028	1911
HIGHEST DAILY MEAN	11,000	Apr 15	10,400	Apr 24	33,700	Apr 30, 1923
LOWEST DAILY MEAN	262	Oct 13	262	Oct 13	77	Nov 19, 1924
ANNUAL SEVEN-DAY MINIMUM	331	Oct 10	331	Oct 10	117	Dec 25, 1914
MAXIMUM PEAK FLOW			10,700	Apr 24	37,000	Apr 30, 1923
MAXIMUM PEAK STAGE			9.54	Apr 24	16.90	Apr 30, 1923
ANNUAL RUNOFF (CFSM)	1.16		1.28		1.78	
ANNUAL RUNOFF (INCHES)	15.71		17.42		24.19	
10 PERCENT EXCEEDS	2,830		3,060		4,580	
50 PERCENT EXCEEDS	764		683		1,120	
90 PERCENT EXCEEDS	371		447		426	



01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'03", long 68°18'22", Penobscot County, Hydrologic Unit 01020003, on left bank 0.6 mi downstream of Gordon Falls, 0.6 mi upstream from Mattakeunk Stream, 3.6 mi upstream from Mattawamkeag, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--1,418 mi^2.

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 217 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 11, 1991, at site 0.5 mi upstream at datum 12.94 ft higher. Mar. 11, 1991 to May 29, 1996 at site 0.5 mi upstream at datum 10.94 ft higher.

REMARKS.--Records good, except for periods of ice effect, Nov. 30 to Dec. 15 and Jan. 1 to Mar. 31, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft^3/s, Mar. 23, 1936, gage height, 15.34 ft, former site and datum; minimum discharge, 30 ft^3/s, Sept. 7, 1995.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 1, 1923 has been estimated as 46,600 ft^3/s, based on flow for the Mattawamkeag River at Mattawamkeag (station 01031000); gage height unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,200 ft^3/s, Apr. 26, gage height, 13.25 ft; minimum discharge, 113 ft^3/s, Sept. 23, gage height, 3.83 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,050	698	e3,100	e2,680	e592	e501	8,490	13,100	1,670	537	579	354
2	865	651	e2,720	e2,540	e588	e491	8,850	12,200	2,070	532	539	328
3	716	610	e2,380	e2,300	e603	e495	8,710	11,900	2,860	499	505	299
4	577	552	e2,050	e2,030	e676	e517	8,400	11,500	3,000	479	484	294
5	482	526	e1,940	e1,790	e763	e546	7,870	10,800	2,590	476	728	293
6	431	530	e1,940	e1,600	e812	e558	7,210	9,650	2,460	444	2,840	288
7	389	580	e1,910	e1,450	e825	e542	6,650	8,630	2,810	449	4,110	277
8	354	612	e1,810	e1,320	e810	e505	5,960	8,090	3,160	446	4,270	261
9	318	669	e1,620	e1,220	e766	e476	5,350	7,800	3,150	424	3,720	242
10	288	713	e1,510	e1,140	e706	e459	4,900	7,240	2,870	391	3,080	221
11	262	742	e1,500	e1,070	e664	e443	4,780	6,470	2,530	371	3,130	206
12	244	852	e1,400	e1,010	e628	e431	5,060	5,730	2,230	380	3,710	189
13	228	1,220	e1,210	e962	e601	e421	5,890	5,260	1,980	382	3,990	177
14	237	2,200	e1,230	e914	e578	e416	6,850	4,970	1,900	369	3,640	166
15	257	3,030	e1,790	e872	e560	e410	7,780	4,660	2,230	346	2,950	157
16	263	3,190	2,910	e838	e546	e405	8,900	4,260	2,490	313	2,300	152
17	280	3,010	3,280	e806	e534	e400	9,720	3,810	2,450	293	1,910	148
18	338	2,890	3,100	e776	e524	e403	10,200	3,370	2,190	279	1,710	142
19	472	2,930	2,720	e753	e517	e411	10,200	2,970	1,900	246	1,480	137
20	678	2,850	2,400	e731	e511	e434	9,940	2,610	1,670	228	1,240	131
21	938	2,670	4,370	e711	e506	e474	10,100	2,300	1,460	214	1,050	125
22	1,080	2,700	7,410	e694	e507	e560	11,200	2,030	1,270	206	897	119
23	1,060	3,690	8,690	e678	e516	e745	12,700	1,820	1,110	208	773	116
24	975	5,440	8,300	e663	e536	e1,150	14,200	1,670	1,000	293	670	120
25	893	6,350	7,450	e650	e563	e1,810	15,500	1,620	905	896	582	118
26	829	6,130	6,370	e640	e577	e2,810	15,900	1,580	813	1,140	511	122
27	811	5,430	5,290	e629	e558	e3,840	15,900	1,540	725	1,060	465	125
28	834	4,410	4,410	e619	e524	e4,850	15,500	1,470	644	927	451	148
29	840	3,490	3,850	e611	---	e5,780	14,900	1,430	563	831	435	235
30	808	e3,180	3,220	e603	---	e6,860	14,000	1,410	528	719	414	553
31	755	---	2,790	e598	---	e7,680	---	1,510	---	645	385	---
TOTAL	18,552	72,545	104,670	33,898	17,091	45,823	291,610	163,400	57,228	15,023	53,548	6,243
MEAN	598	2,418	3,376	1,093	610	1,478	9,720	5,271	1,908	485	1,727	208
MAX	1,080	6,350	8,690	2,680	825	7,680	15,900	13,100	3,160	1,140	4,270	553
MIN	228	526	1,210	598	506	400	4,780	1,410	528	206	385	116
CFSM	0.42	1.71	2.38	0.77	0.43	1.04	6.85	3.72	1.35	0.34	1.22	0.15
IN.	0.49	1.90	2.75	0.89	0.45	1.20	7.65	4.29	1.50	0.39	1.40	0.16

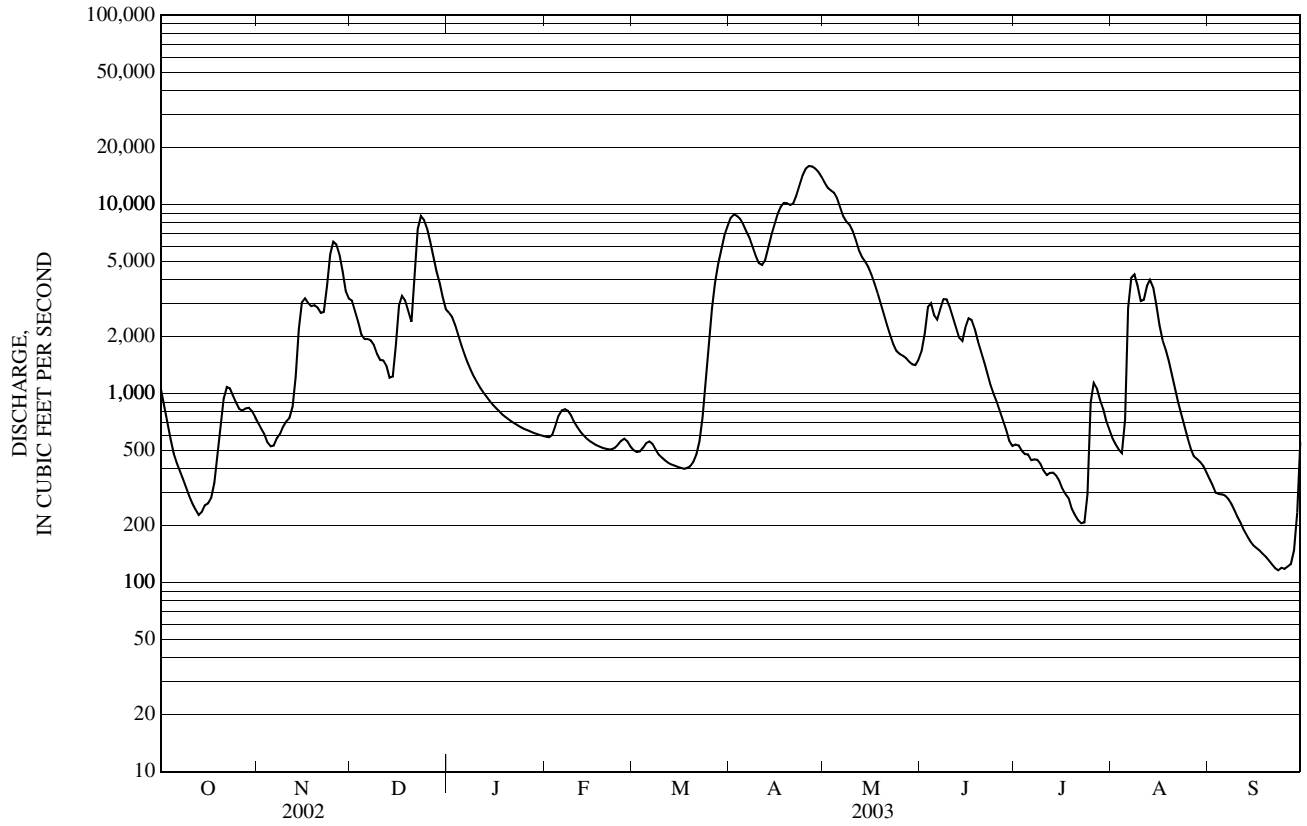
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2003, BY WATER YEAR (WY)

MEAN	1,367	2,672	2,579	1,402	1,254	2,237	8,512	5,456	1,968	1,014	729	794
MAX	6,901	8,428	9,871	3,938	4,685	11,330	13,950	12,760	7,262	5,658	2,565	5,106
(WY)	(1982)	(1964)	(1951)	(1978)	(1970)	(1936)	(1976)	(1961)	(1984)	(1996)	(1962)	(1954)
MIN	146	219	105	197	165	230	3,012	1,254	406	118	70.9	38.6
(WY)	(1947)	(1956)	(1956)	(1948)	(1944)	(1944)	(1944)	(1999)	(1988)	(1991)	(1995)	(1995)

e Estimated

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1935 - 2003	
ANNUAL TOTAL	807,714		879,631			
ANNUAL MEAN	2,213		2,410		2,497	
HIGHEST ANNUAL MEAN					4,015	1984
LOWEST ANNUAL MEAN					1,307	1985
HIGHEST DAILY MEAN	14,700	Apr 17	15,900	Apr 26	29,200	Mar 23, 1936
LOWEST DAILY MEAN	54	Sep 10	116	Sep 23	32	Sep 4, 1995
ANNUAL SEVEN-DAY MINIMUM	58	Sep 8	121	Sep 21	33	Sep 1, 1995
MAXIMUM PEAK FLOW			16,200	Apr 26	29,200	Mar 23, 1936
MAXIMUM PEAK STAGE			13.25	Apr 26	15.34	Mar 23, 1936
INSTANTANEOUS LOW FLOW			113	Sep 23	30	Sep 7, 1995
ANNUAL RUNOFF (CFSM)	1.56		1.70		1.76	
ANNUAL RUNOFF (INCHES)	21.19		23.08		23.93	
10 PERCENT EXCEEDS	6,130		7,220		6,480	
50 PERCENT EXCEEDS	829		896		1,190	
90 PERCENT EXCEEDS	180		285		258	



01031300 PISCATAQUIS RIVER AT BLANCHARD, ME

LOCATION.--Lat 45°16'02", long 69°35'03", Piscataquis County, Hydrologic Unit 01020004, on left bank at downstream side of bridge in the Town of Blanchard, and 1.0 mi downstream of the confluence of the East and West Branches of the Piscataquis River.

DRAINAGE AREA.--118 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1996 to current year.

REVISED RECORDS.--WDR ME-98-1: 1997(M).

GAGE.--Water-stage recorder. Datum of gage is 564.09 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 1-10, 17-21, and Nov. 26 to Apr. 11, which are fair. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,550 ft^3/s, Apr. 9, 2000, gage height 11.38; minimum discharge, 2.9 ft^3/s, Sept. 10-11, 2002, gage height 3.13 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 16	0545	*1,510	*7.20

Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peaks greater than base discharge.			

Minimum discharge, 6.7 ft^3/s, Oct. 13, gage height, 3.40 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	e32	e58	e66	e26	e21	e549	453	193	45	42	10
2	15	e28	e53	e72	e28	e21	e442	563	271	39	49	10
3	13	e25	e49	e67	e33	e23	e358	762	201	35	53	9.7
4	11	e25	e46	e63	e40	e22	e303	575	159	32	48	24
5	11	e24	e43	e62	e39	e21	e257	438	146	36	49	28
6	10	e24	e41	e60	e36	e21	e225	365	434	40	57	19
7	8.9	e27	e38	e57	e32	e20	e198	388	375	35	56	16
8	8.5	e27	e37	e55	e30	e20	e179	372	274	32	47	13
9	7.6	e27	e35	e52	e28	e20	e166	315	220	33	42	11
10	7.4	e29	e34	e50	e26	e19	e168	266	208	26	80	9.8
11	7.4	54	e33	e48	e25	e19	e218	230	172	28	214	9.2
12	7.3	76	e32	e46	e24	e19	346	269	166	49	117	8.9
13	7.1	148	e31	e44	e24	e18	604	342	151	46	93	8.5
14	9.7	173	e37	e43	e23	e18	634	357	247	36	77	8.2
15	9.7	141	e101	e41	e22	e18	801	308	400	31	60	8.1
16	9.5	106	e89	e40	e22	e18	1,430	252	505	27	50	13
17	57	e88	e68	e38	e22	e19	1,040	208	362	24	42	23
18	61	e78	e58	e37	e22	e24	749	180	247	21	37	18
19	45	e71	e52	e36	e22	e36	586	159	187	19	32	14
20	63	e66	e59	e34	e22	e32	603	140	154	17	28	18
21	53	e63	e290	e33	e22	e114	757	125	125	17	25	27
22	45	99	e357	e33	e23	e331	849	114	106	21	23	21
23	37	302	e259	e32	e24	e439	829	108	96	122	19	20
24	32	293	e182	e31	e25	e519	856	107	89	375	16	49
25	28	214	e131	e30	e24	e510	769	116	78	200	14	35
26	28	e154	e103	e29	e23	e442	667	118	69	122	14	27
27	57	e113	e83	e29	e23	e525	698	140	61	98	14	22
28	62	e88	e72	e28	e22	e538	712	133	70	90	13	76
29	52	e75	e65	e27	---	e646	638	147	55	72	12	407
30	44	e65	e59	e27	---	e848	533	178	49	58	12	210
31	37	---	e55	e26	---	e697	---	201	---	48	11	---
TOTAL	863.1	2,735	2,650	1,336	732	6,038	17,164	8,429	5,870	1,874	1,446	1,173.4
MEAN	27.8	91.2	85.5	43.1	26.1	195	572	272	196	60.5	46.6	39.1
MAX	63	302	357	72	40	848	1,430	762	505	375	214	407
MIN	7.1	24	31	26	22	18	166	107	49	17	11	8.1
CFSM	0.24	0.77	0.72	0.37	0.22	1.65	4.85	2.30	1.66	0.51	0.40	0.33
IN.	0.27	0.86	0.84	0.42	0.23	1.90	5.41	2.66	1.85	0.59	0.46	0.37

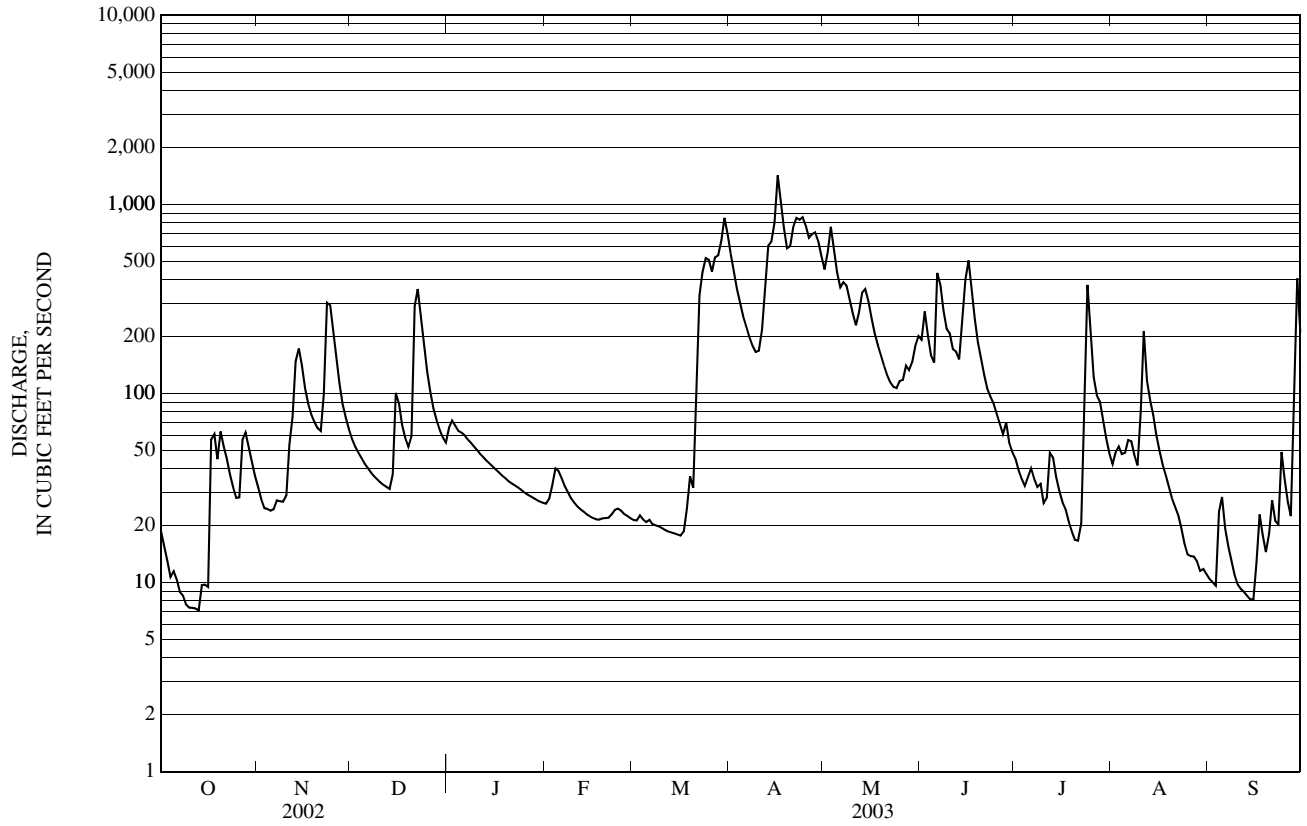
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

MEAN	112	188	190	98.9	88.5	307	809	332	190	69.3	21.6	75.1
MAX	380	368	507	300	208	585	1,252	689	543	199	46.6	383
(WY)	(2000)	(1998)	(1997)	(1999)	(1998)	(1998)	(2000)	(1997)	(1998)	(1998)	(2003)	(1999)
MIN	17.8	21.3	56.9	37.6	26.1	45.1	558	133	62.8	27.2	7.79	8.36
(WY)	(2002)	(2002)	(2002)	(2002)	(2003)	(2001)	(1999)	(1999)	(2000)	(2000)	(2001)	(2002)

e Estimated

01031300 PISCATAQUIS RIVER AT BLANCHARD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1997 - 2003	
ANNUAL TOTAL	51,406.3		50,310.5			
ANNUAL MEAN	141		138		206	
HIGHEST ANNUAL MEAN					286	1998
LOWEST ANNUAL MEAN					132	2002
HIGHEST DAILY MEAN	1,780	Apr 15	1,430	Apr 16	4,240	Apr 9, 2000
LOWEST DAILY MEAN	3.0	Sep 10	7.1	Oct 13	3.0	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 5	7.7	Oct 7	3.4	Sep 5, 2002
MAXIMUM PEAK FLOW			1,510	Apr 16	7,550	Apr 9, 2000
MAXIMUM PEAK STAGE			7.20	Apr 16	11.38	Apr 9, 2000
INSTANTANEOUS LOW FLOW			6.7	Oct 13	2.9	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.19		1.17		1.75	
ANNUAL RUNOFF (INCHES)	16.21		15.86		23.77	
10 PERCENT EXCEEDS	356		418		567	
50 PERCENT EXCEEDS	51		49		74	
90 PERCENT EXCEEDS	6.9		16		13	



01031450 KINGSBURY STREAM AT ABBOT VILLAGE, ME

LOCATION.--Lat 45°11'05", long 69°27'10", Piscataquis County, Hydrologic Unit 01020004, on left bank 200 ft upstream from State Route 15/16 highway bridge in Abbot Village, and 0.9 mi upstream from mouth.

DRAINAGE AREA.--95.4 mi^2.

PERIOD OF RECORD.--
DISCHARGE: July 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 423.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 2-10, 17-22, Nov. 28 to Apr. 12, and periods of no gage-height record, Dec. 5, 9, and Jan. 7-24, which are fair. Low flow may be regulated by operation of Kingsbury Pond Dam above station. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,290 ft^3/s, Apr. 9, 2000, gage height, 12.81 ft; minimum discharge, 1.1 ft^3/s, Aug. 20, 2001, gage height 4.48 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 27	0630	Ice Jam	*10.87	Apr 16	0715	*1,290	9.90

Minimum discharge, 3.8 ft^3/s, Sept. 15-16, gage height, 4.88 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	38	e75	e51	e19	e22	e581	240	150	32	16	6.3
2	13	e32	e67	e50	e22	e22	e443	478	308	28	18	5.7
3	12	e27	e61	e49	e25	e23	e343	804	198	25	22	5.2
4	9.4	e27	e57	e46	e29	e25	e286	465	132	24	21	9.3
5	9.4	e28	e52	e44	e33	e24	e246	330	131	22	25	25
6	10	e30	e48	e41	e32	e25	e216	273	567	21	30	18
7	11	e42	e45	e40	e30	e24	e196	310	320	18	34	12
8	9.1	e39	e43	e38	e28	e23	e176	267	219	19	29	9.3
9	8.0	e42	e41	e36	e26	e23	e163	218	178	29	25	7.6
10	7.7	e43	e39	e35	e25	e22	e152	187	190	26	49	6.5
11	7.3	74	e38	e33	e25	e22	e259	162	143	23	125	5.7
12	7.2	86	e38	e32	e24	e21	e446	205	118	40	98	5.2
13	7.4	147	e37	e31	e23	e21	795	275	95	36	70	4.9
14	13	176	e42	e30	e23	e21	716	307	343	29	51	4.5
15	26	123	e174	e29	e22	e20	760	253	526	23	38	4.2
16	20	93	e124	e28	e22	e20	1,190	193	491	19	29	5.1
17	90	e76	e92	e27	e21	e21	804	157	275	18	25	11
18	109	e66	e74	e26	e21	e24	547	137	182	16	21	15
19	69	e61	e62	e25	e21	e33	440	119	143	14	17	11
20	77	e59	e56	e24	e22	e56	452	104	119	12	13	12
21	62	e57	e355	e24	e23	e80	519	93	96	11	12	30
22	48	e105	e249	e23	e24	e288	515	87	81	12	11	26
23	40	565	e189	e23	e25	e668	529	79	75	27	9.2	21
24	35	407	e143	e22	e26	e1,120	542	77	69	64	7.9	41
25	31	234	e115	e22	e25	e961	455	105	60	66	7.6	42
26	30	169	e95	e21	e24	e717	370	108	52	46	6.9	32
27	64	131	e81	e21	e23	e878	410	131	46	35	6.9	27
28	73	e111	e71	e20	e23	e706	400	125	45	30	6.7	30
29	59	e94	e63	e20	---	e690	327	121	39	25	6.2	525
30	48	e84	e57	e20	---	e1,020	267	126	35	20	6.5	275
31	41	---	e53	e19	---	e795	---	179	---	17	6.6	---
TOTAL	1,063.5	3,266	2,736	950	686	8,415	13,545	6,715	5,426	827	843.5	1,232.5
MEAN	34.3	109	88.3	30.6	24.5	271	452	217	181	26.7	27.2	41.1
MAX	109	565	355	51	33	1,120	1,190	804	567	66	125	525
MIN	7.2	27	37	19	19	20	152	77	35	11	6.2	4.2
CFSM	0.36	1.14	0.93	0.32	0.26	2.85	4.73	2.27	1.90	0.28	0.29	0.43
IN.	0.41	1.27	1.07	0.37	0.27	3.28	5.28	2.62	2.12	0.32	0.33	0.48

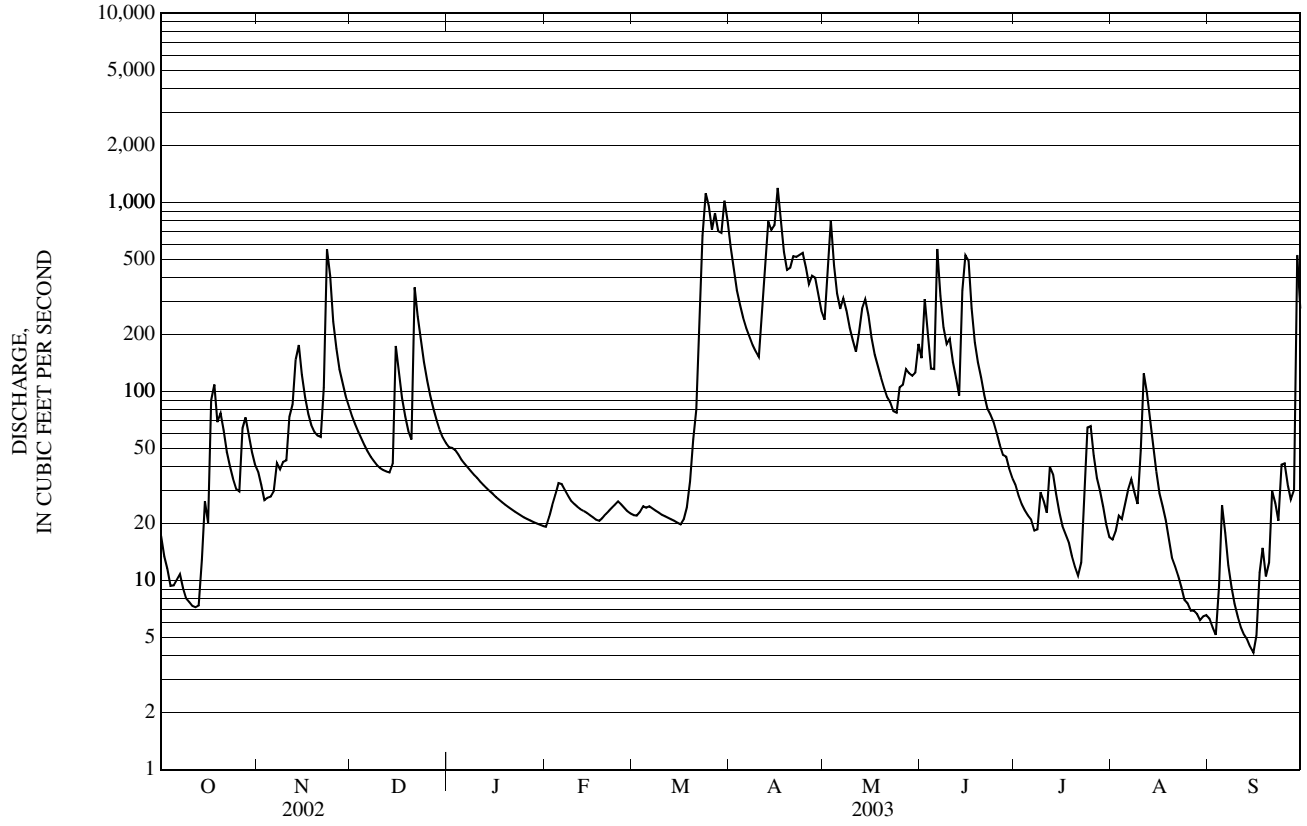
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

MEAN	88.3	148	126	75.2	93.3	390	667	219	188	47.4	16.2	61.7
MAX	325	337	272	201	186	665	942	301	535	127	27.2	295
(WY)	(2000)	(2000)	(2001)	(1999)	(1998)	(1998)	(2000)	(2000)	(1998)	(1998)	(2003)	(1999)
MIN	23.5	23.3	47.8	30.6	24.5	69.8	436	115	55.8	15.0	2.54	8.63
(WY)	(2002)	(2002)	(2002)	(2003)	(2003)	(2001)	(1999)	(1999)	(2000)	(2001)	(2001)	(2002)

e Estimated

01031450 KINGSBURY STREAM AT ABBOT VILLAGE, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1997 - 2003	
ANNUAL TOTAL	55,765.1		45,705.5			
ANNUAL MEAN	153		125		177	
HIGHEST ANNUAL MEAN					245	1998
LOWEST ANNUAL MEAN					125	2003
HIGHEST DAILY MEAN	1,390	Apr 15	1,190	Apr 16	3,390	Mar 29, 2000
LOWEST DAILY MEAN	2.4	Sep 2	4.2	Sep 15	1.2	Aug 19, 2001
ANNUAL SEVEN-DAY MINIMUM	2.6	Aug 28	5.2	Sep 10	1.4	Aug 14, 2001
MAXIMUM PEAK FLOW			1,290	Apr 16	5,290	Apr 9, 2000
MAXIMUM PEAK STAGE			10.87	Mar 27	12.81	Apr 9, 2000
INSTANTANEOUS LOW FLOW			3.8	Sep 15	1.1	Aug 20, 2001
ANNUAL RUNOFF (CFSM)	1.60		1.31		1.85	
ANNUAL RUNOFF (INCHES)	21.74		17.82		25.14	
10 PERCENT EXCEEDS	419		382		477	
50 PERCENT EXCEEDS	60		40		57	
90 PERCENT EXCEEDS	6.8		12		12	



01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, Hydrologic Unit 01020004, on left bank 30 ft downstream from Lows Bridge, 1.0 mi upstream from Black Stream, and 4.7 mi upstream from Dover-Foxcroft.

DRAINAGE AREA.--298 mi^2.

PERIOD OF RECORD.--
DISCHARGE: August 1902 to current year. Daily gage height and monthly discharge only for August to September 1902.
CHEMICAL ANALYSES: Water year 1955.
WATER TEMPERATURE: May 1987 to September 1989.

REVISED RECORDS.--WSP 279: 1902. WSP 1201: 1903-17, 1918-30(M), 1934-35. WSP 1301: 1909(M). WDR ME-81-1:Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 358.47 ft above National Geodetic Vertical Datum of 1929. Prior to July 20, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good, except for periods of ice effect, Nov. 3-10, 17-21, and Nov. 27 to Apr. 12, which are fair. Low flow may be regulated by operation of mills above station. Telephone and satellite gage-height telemeters at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,300 ft^3/s, Apr. 1, 1987, gage height, 22.62 ft, from rating curve extended above 20,000 ft^3/s on basis of slope-area measurement; minimum discharge, 5.0 ft^3/s, Aug. 6, 1905, Nov. 22, 1908.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	1045	Ice Jam	*6.82	Apr 16	1130	*3,280	6.12

Minimum discharge, 22 ft^3/s, Oct. 13, gage height, 1.50 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	97	e208	e153	e58	e68	e1,600	948	513	115	82	30
2	49	88	e187	e147	e86	e73	e1,240	1,240	792	103	86	27
3	43	e63	e170	e147	e105	e111	e1,030	2,200	646	94	95	26
4	36	e66	e156	e137	e101	e88	e868	1,550	453	87	94	36
5	36	e70	e145	e133	e122	e87	e729	1,170	395	82	99	55
6	33	e76	e137	e129	e104	e105	e634	955	1,170	84	109	65
7	31	e96	e129	e125	e93	e94	e559	989	1,050	79	121	57
8	29	e84	e123	e121	e87	e87	e510	938	762	82	109	47
9	26	e106	e117	e117	e82	e82	e473	802	612	102	95	40
10	25	e99	e113	e113	e77	e79	e495	692	600	90	142	36
11	24	141	e111	e108	e74	e75	e655	602	486	84	550	32
12	23	189	e109	e104	e70	e71	e980	650	405	111	418	30
13	23	303	e107	e100	e67	e67	1,790	855	355	125	314	27
14	30	466	e131	e96	e65	e64	1,800	929	650	104	241	26
15	34	367	e313	e92	e62	e61	1,830	842	1,230	86	179	24
16	40	283	e369	e89	e61	e60	3,070	687	1,330	76	141	28
17	85	e239	e275	e86	e61	e63	2,410	565	963	70	111	37
18	230	e213	e207	e83	e61	e71	1,730	476	677	65	93	45
19	164	e195	e175	e80	e65	e89	1,350	406	513	60	81	45
20	170	e184	e186	e78	e68	e125	1,300	352	409	54	71	47
21	163	e177	e714	e75	e68	e228	1,510	310	332	50	65	59
22	130	229	e830	e73	e66	e284	1,650	277	275	50	61	71
23	108	1,050	e625	e72	e104	e526	1,710	254	246	76	54	65
24	92	1,120	e462	e70	e100	e1,660	1,780	246	228	497	46	88
25	81	740	e343	e68	e86	e1,900	1,630	292	203	426	40	115
26	79	528	e279	e67	e78	e1,500	1,380	327	176	262	37	89
27	129	e392	e233	e65	e73	e2,020	1,370	361	157	189	37	76
28	178	e319	e206	e63	e70	e2,180	1,440	379	153	165	35	104
29	152	e271	e186	e62	---	e2,490	1,270	350	140	136	32	1,040
30	127	e234	e173	e60	---	e2,930	1,090	414	124	110	33	791
31	109	---	e162	e59	---	e2,180	---	587	---	93	31	---
TOTAL	2,537	8,485	7,681	2,972	2,214	19,518	39,883	21,645	16,045	3,807	3,702	3,258
MEAN	81.8	283	248	95.9	79.1	630	1,329	698	535	123	119	109
MAX	230	1,120	830	153	122	2,930	3,070	2,200	1,330	497	550	1,040
MIN	23	63	107	59	58	60	473	246	124	50	31	24
CFSM	0.27	0.95	0.83	0.32	0.27	2.11	4.46	2.34	1.79	0.41	0.40	0.36
IN.	0.32	1.06	0.96	0.37	0.28	2.44	4.98	2.70	2.00	0.48	0.46	0.41

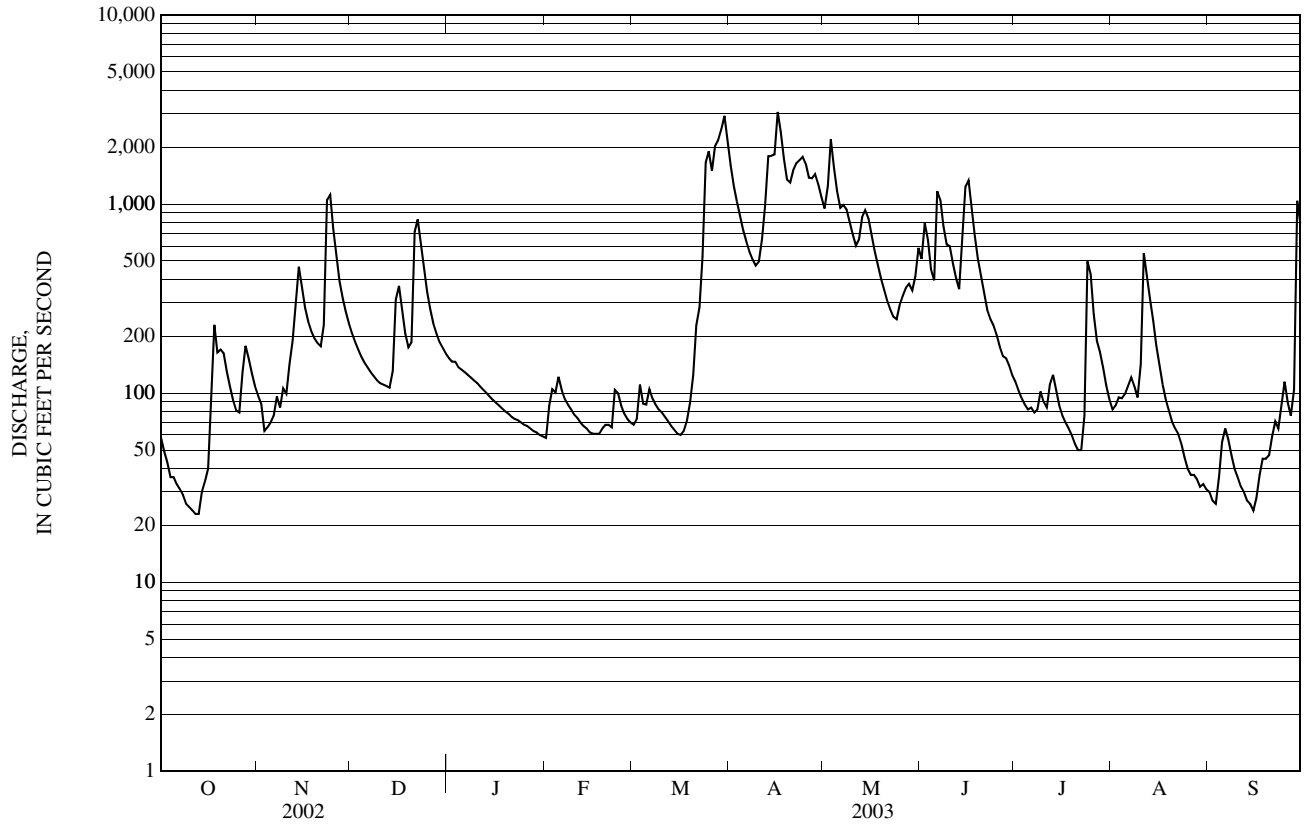
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2003, BY WATER YEAR (WY)

MEAN	388	668	539	307	274	613	2,075	1,253	470	240	169	182
MAX	1,910	2,468	2,699	1,441	1,582	3,791	3,459	3,399	1,916	1,378	974	1,461
(WY)	(1978)	(1964)	(1974)	(1996)	(1970)	(1936)	(1983)	(1969)	(1917)	(1996)	(1917)	(1954)
MIN	35.2	39.0	47.5	61.5	31.2	105	766	286	68.8	42.9	14.6	16.7
(WY)	(1948)	(1911)	(1979)	(1918)	(1980)	(1967)	(1981)	(1903)	(1921)	(1965)	(2001)	(1948)

e Estimated

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1903 - 2003	
ANNUAL TOTAL	145,063.3		131,747			
ANNUAL MEAN	397		361		598	
HIGHEST ANNUAL MEAN					990	1954
LOWEST ANNUAL MEAN					238	1911
HIGHEST DAILY MEAN	3,920	Apr 15	3,070	Apr 16	31,700	Apr 1, 1987
LOWEST DAILY MEAN	8.6	Sep 13	23	Oct 12	5.0	Aug 6, 1905
ANNUAL SEVEN-DAY MINIMUM	9.6	Sep 8	26	Oct 8	9.5	Sep 11, 2001
MAXIMUM PEAK FLOW			3,280	Apr 16	37,300	Apr 1, 1987
MAXIMUM PEAK STAGE			6.82	Mar 30	22.62	Apr 1, 1987
INSTANTANEOUS LOW FLOW			22	Oct 13	5.0	Aug 6, 1905
ANNUAL RUNOFF (CFSM)	1.33		1.21		2.01	
ANNUAL RUNOFF (INCHES)	18.11		16.45		27.26	
10 PERCENT EXCEEDS	1,040		1,070		1,550	
50 PERCENT EXCEEDS	160		121		250	
90 PERCENT EXCEEDS	23		46		54	



01034000 PISCATAQUIS RIVER AT MEDFORD, ME

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

DRAINAGE AREA.--1,162 mi^2.

PERIOD OF RECORD.--
DISCHARGE: June 1924 to September 1982, October 1989 to current year.
CHEMICAL ANALYSES: 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.--Records good, except for periods of ice effect, Nov.26 to Dec. 20 and Dec. 24 to Mar. 30, which are fair. Flow regulated by Sebec Lake, 15 mi upstream, and other small reservoirs and power plants above station, usable capacity about 2.511 billion ft^3. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,100 ft^3/s, Nov. 4, 1966, gage height, 15.58 ft; minimum discharge, 77 ft^3/s, Sept. 20, 2001, gage height, 1.10 ft.

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 ft^3/s, Apr. 1, 1987, gage height 18.65 ft, present datum, from floodmarks, from rating curve extended above 32,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 28	1700	Ice Jam	*6.90	Mar 31	0545	*8,860	6.47

Minimum discharge, 170 ft^3/s, Oct. 13, gage height, 1.44 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	676	e1,130	e1,390	e495	e517	7,020	4,280	1,790	561	786	302
2	348	485	e1,060	e1,360	e524	e528	5,440	4,580	2,240	518	762	514
3	304	415	e1,000	e1,200	e605	e522	4,480	6,850	2,660	472	653	315
4	276	365	e980	e1,150	e660	e486	4,030	6,030	2,130	453	478	312
5	256	365	e944	e1,120	e671	e645	3,390	4,800	1,500	520	535	398
6	244	403	e915	e1,100	e652	e692	2,920	4,100	2,670	653	725	405
7	233	603	e839	e982	e613	e666	2,860	4,230	3,610	528	749	374
8	219	636	e826	e924	e605	e626	2,670	4,400	2,980	530	720	353
9	202	611	e808	e885	e588	e592	2,510	3,780	2,570	481	744	257
10	192	580	e792	e851	e577	e564	2,490	3,480	2,700	527	1,060	233
11	187	594	e784	e824	e581	e540	2,850	3,150	2,470	484	2,540	220
12	179	712	e775	e803	e563	e518	3,620	3,010	2,290	573	3,160	213
13	174	1,060	e784	e780	e543	e508	5,180	3,380	1,860	663	2,320	227
14	200	1,600	e854	e765	e529	e490	5,790	3,510	1,850	645	1,880	229
15	228	1,560	e1,580	e748	e514	e475	5,560	3,420	4,060	543	1,540	233
16	240	1,290	e1,820	e731	e504	e474	7,660	3,080	3,930	471	944	242
17	469	1,110	e1,680	e719	e493	e491	8,050	2,770	3,400	422	741	518
18	994	1,120	e1,350	e703	e491	e522	6,140	2,340	2,520	394	640	305
19	1,080	1,060	e1,160	e692	e491	e590	4,960	1,520	2,150	357	556	273
20	1,140	966	e1,110	e784	e496	e684	4,610	1,310	1,600	329	510	281
21	1,150	892	3,440	e738	e511	e1,060	5,040	1,160	1,440	307	471	329
22	1,010	1,020	4,300	e698	e565	e1,350	5,710	1,080	1,240	302	437	368
23	869	2,680	3,440	e624	e594	e2,320	6,360	1,040	1,120	328	406	365
24	771	3,840	e2,600	e606	e592	e3,920	6,820	1,180	1,090	1,290	366	421
25	695	2,990	e2,520	e588	e543	e4,270	6,720	1,250	1,020	2,080	336	531
26	646	e2,250	e2,100	e576	e513	e4,230	5,690	1,360	972	1,720	326	568
27	739	e1,790	e1,850	e557	e493	e5,200	5,200	1,380	810	1,360	326	518
28	863	e1,480	e1,690	e528	e505	e6,240	5,420	1,460	604	1,220	322	553
29	898	e1,310	e1,570	e510	---	e5,730	5,080	1,470	551	1,040	319	3,610
30	822	e1,210	e1,500	e501	---	e7,250	4,540	1,500	536	942	323	4,840
31	784	---	e1,440	e496	---	8,460	---	1,770	---	838	316	---
TOTAL	16,832	35,673	47,641	24,933	15,511	61,160	148,810	88,670	60,363	21,551	25,991	18,307
MEAN	543	1,189	1,537	804	554	1,973	4,960	2,860	2,012	695	838	610
MAX	1,150	3,840	4,300	1,390	671	8,460	8,050	6,850	4,060	2,080	3,160	4,840
MIN	174	365	775	496	491	474	2,490	1,040	536	302	316	213
CFSM	0.47	1.02	1.32	0.69	0.48	1.70	4.27	2.46	1.73	0.60	0.72	0.53
IN.	0.54	1.14	1.53	0.80	0.50	1.96	4.76	2.84	1.93	0.69	0.83	0.59

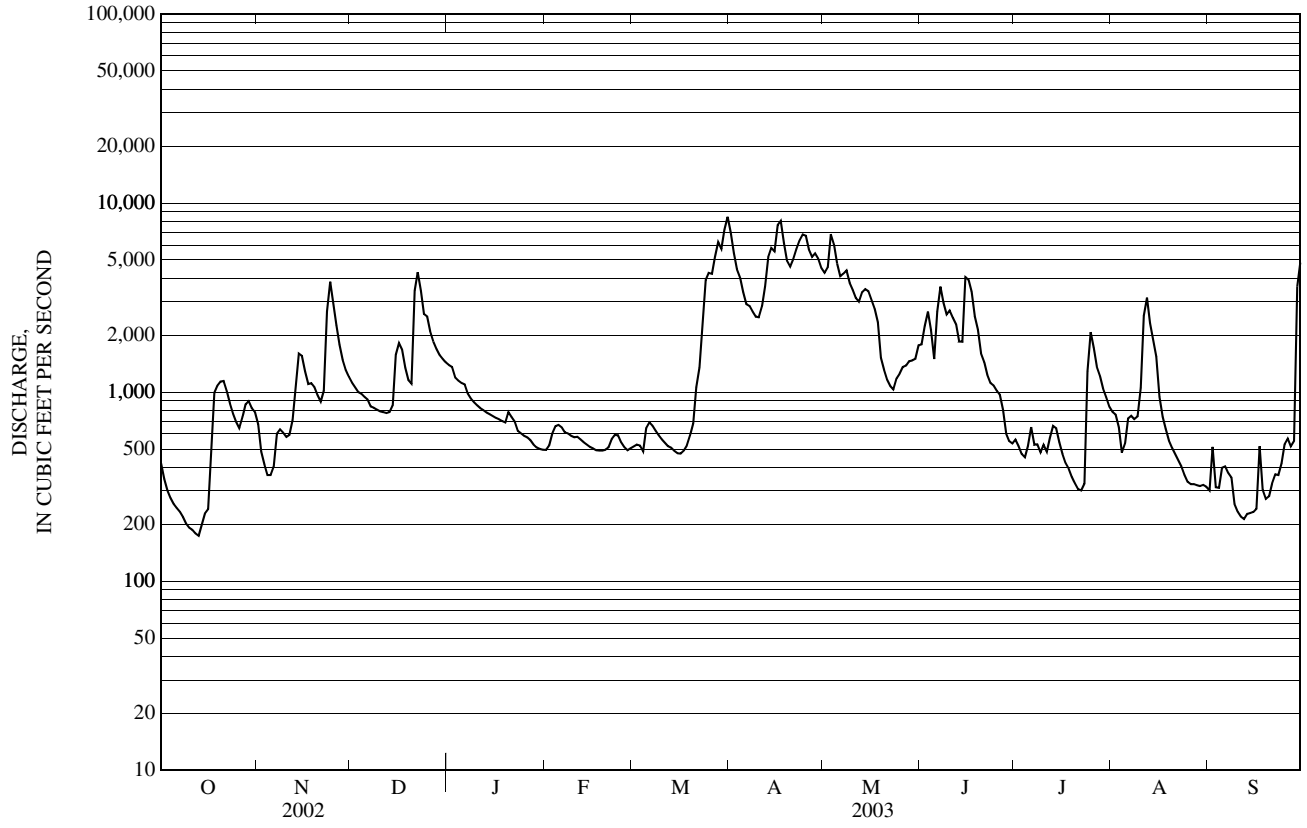
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2003, BY WATER YEAR (WY)

MEAN	1,552	2,589	2,251	1,403	1,372	2,366	7,186	4,669	1,879	1,061	753	907
MAX	6,289	7,672	11,590	4,834	5,659	14,520	12,220	10,920	4,678	5,162	3,686	5,426
(WY)	(1978)	(1964)	(1974)	(1996)	(1970)	(1936)	(1993)	(1969)	(1931)	(1996)	(1954)	(1954)
MIN	276	325	363	339	334	513	2,876	1,315	623	249	151	149
(WY)	(1936)	(2002)	(1930)	(1948)	(1980)	(1967)	(1981)	(1999)	(1941)	(1991)	(2001)	(1995)

e Estimated

01034000 PISCATAQUIS RIVER AT MEDFORD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1924 - 2003	
ANNUAL TOTAL	577,881		565,442			
ANNUAL MEAN	1,583		1,549		2,332	
HIGHEST ANNUAL MEAN					3,715	1954
LOWEST ANNUAL MEAN					1,254	1957
HIGHEST DAILY MEAN	12,700	Apr 16	8,460	Mar 31	52,900	Nov 4, 1966
LOWEST DAILY MEAN	96	Sep 4	174	Oct 13	79	Sep 20, 2001
ANNUAL SEVEN-DAY MINIMUM	108	Sep 9	193	Oct 8	90	Sep 16, 2001
MAXIMUM PEAK FLOW			8,860	Mar 31	60,100	Nov 4, 1966
MAXIMUM PEAK STAGE			6.90	Mar 28	15.58	Nov 4, 1966
INSTANTANEOUS LOW FLOW			170	Oct 13	77	Sep 20, 2001
ANNUAL RUNOFF (CFSM)	1.36		1.33		2.01	
ANNUAL RUNOFF (INCHES)	18.50		18.10		27.26	
10 PERCENT EXCEEDS	3,720		4,230		5,580	
50 PERCENT EXCEEDS	853		792		1,200	
90 PERCENT EXCEEDS	185		327		414	



01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME

LOCATION.--Lat 45°14'12", long 68°38'57", Penobscot County, Hydrologic Unit 01020005, on left bank 20 ft upstream from State Route 6/155 highway bridge, 1,000 ft downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,671 mi^2, including 249 mi^2 drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--
DISCHARGE: November 1901 to current year. Daily gage height and monthly discharge only for November 1901 to September 1902. Prior to 1904, published as "at Montague."
CHEMICAL ANALYSES: Water years 1966 to 1978.
SPECIFIC CONDUCTANCE: October 1973 to September 1978.
WATER TEMPERATURE: July 1966 to September 1978.

REVISED RECORDS.--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WDR ME-81-1: Drainage area. WDR ME-97-1; 1992(M).

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1912, nonrecording gage 50 ft downstream at same datum. Dec. 11, 1912 to June 24, 1998, water-stage recorder at site 50 ft downstream at same datum.

REMARKS.--Records good, except for period of ice effect, Dec. 1 to Apr. 15, and period of no gage-height record, Oct. 26 to Nov. 4, which are fair. Flow regulated by many reservoirs above station, combined capacity about 54.336 billion ft^3. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft^3/s, May 1, 1923, gage height, 25.15 ft; minimum daily discharge, 1,630 ft^3/s, Oct. 29, 1905.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,900 ft^3/s, Apr. 25, gage height, 12.19 ft; maximum gage height, 13.81 ft, Mar. 31 (backwater from ice); minimum daily discharge, 2,510 ft^3/s, Mar. 2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,610	e5,020	e9,860	e7,720	e3,610	e2,680	e27,600	32,700	7,970	4,630	5,150	4,200
2	6,260	e4,360	e9,620	e7,580	e3,970	e2,510	e25,100	30,700	9,300	4,530	4,750	3,650
3	5,540	e4,390	e7,920	e7,290	e4,160	e2,690	e23,000	33,800	11,500	4,150	4,620	4,930
4	5,930	e4,160	e7,470	e6,760	e3,830	e2,930	e20,900	32,800	11,000	4,260	4,250	4,880
5	5,580	3,860	e7,090	e6,280	e3,850	e3,320	e19,200	28,700	9,600	4,780	4,520	4,880
6	5,440	4,340	e7,220	e5,840	e3,800	e3,310	e18,000	25,300	10,400	4,510	6,650	4,800
7	5,460	4,430	e7,110	e5,590	e3,740	e3,290	e16,600	24,100	13,200	4,520	9,160	4,930
8	5,080	5,100	e6,350	e5,430	e3,760	e3,130	e15,400	24,100	14,100	4,320	9,330	4,810
9	5,260	4,900	e6,250	e4,880	e3,830	e3,100	e14,500	22,700	13,900	4,310	8,570	4,710
10	5,090	4,760	e5,830	e4,680	e3,760	e3,070	e14,000	20,700	13,600	4,030	8,380	4,510
11	5,280	5,070	e5,690	e3,760	e3,410	e3,080	e13,700	19,300	12,200	3,990	10,500	4,560
12	4,990	5,100	e5,480	e4,150	e3,320	e2,930	e15,700	18,000	11,500	4,320	12,700	4,640
13	4,930	6,670	e5,990	e4,060	e3,250	e2,910	e19,900	17,700	11,000	4,440	11,600	4,650
14	5,070	8,850	e5,850	e3,560	e3,220	e2,960	e22,400	16,400	7,770	4,320	10,700	4,380
15	5,000	10,100	e7,310	e3,760	e3,140	e2,820	e24,000	16,300	11,800	4,030	9,060	4,620
16	3,670	9,700	e8,310	e3,420	e3,090	e2,960	29,100	14,700	14,300	4,170	7,950	4,530
17	4,220	9,040	e9,660	e3,430	e3,070	e2,770	32,900	13,500	13,800	3,800	6,750	5,080
18	5,020	9,090	e9,170	e3,460	e3,060	e2,960	30,400	12,300	12,000	3,770	6,090	4,650
19	5,760	9,140	e8,450	e3,370	e3,030	e3,020	27,500	10,300	10,900	3,730	5,720	4,680
20	6,100	8,850	e8,050	e3,310	e2,910	e3,080	26,800	9,570	9,270	3,410	5,460	4,670
21	6,650	8,600	e12,200	e3,180	e2,930	e3,400	28,300	8,340	8,120	3,430	5,630	4,630
22	6,740	9,390	e20,700	e3,020	e2,920	e4,650	31,700	7,310	7,690	3,700	5,640	4,450
23	5,760	13,700	e20,300	e2,870	e2,920	e6,670	36,800	7,120	6,910	3,600	5,240	4,480
24	5,230	19,200	e18,900	e2,830	e2,890	e11,700	42,500	6,860	6,740	5,400	4,770	5,020
25	4,860	18,900	e17,100	e3,360	e2,740	e13,500	46,100	6,760	6,270	7,400	4,040	4,770
26	e5,060	16,300	e15,500	e3,470	e2,930	e13,900	44,700	6,830	5,960	7,600	4,470	5,090
27	e5,210	14,600	e13,700	e3,450	e2,800	e17,200	42,300	6,950	5,880	6,360	4,520	4,930
28	e5,170	12,100	e11,800	e3,380	e2,770	e21,400	40,800	7,090	5,060	6,050	4,720	5,130
29	e5,520	9,560	e10,200	e3,310	---	e23,700	38,400	7,110	4,500	5,830	4,260	12,000
30	e5,360	8,880	e9,620	e3,260	---	e27,700	35,800	7,090	4,740	5,450	4,270	20,500
31	e5,180	---	e8,590	e3,220	---	e29,500	---	7,420	---	5,230	4,250	---
TOTAL	167,030	258,160	307,290	133,680	92,710	232,840	824,100	502,550	290,980	144,070	203,720	163,760
MEAN	5,388	8,605	9,913	4,312	3,311	7,511	27,470	16,210	9,699	4,647	6,572	5,459
MAX	6,740	19,200	20,700	7,720	4,160	29,500	46,100	33,800	14,300	7,600	12,700	20,500
MIN	3,670	3,860	5,480	2,830	2,740	2,510	13,700	6,760	4,500	3,410	4,040	3,650

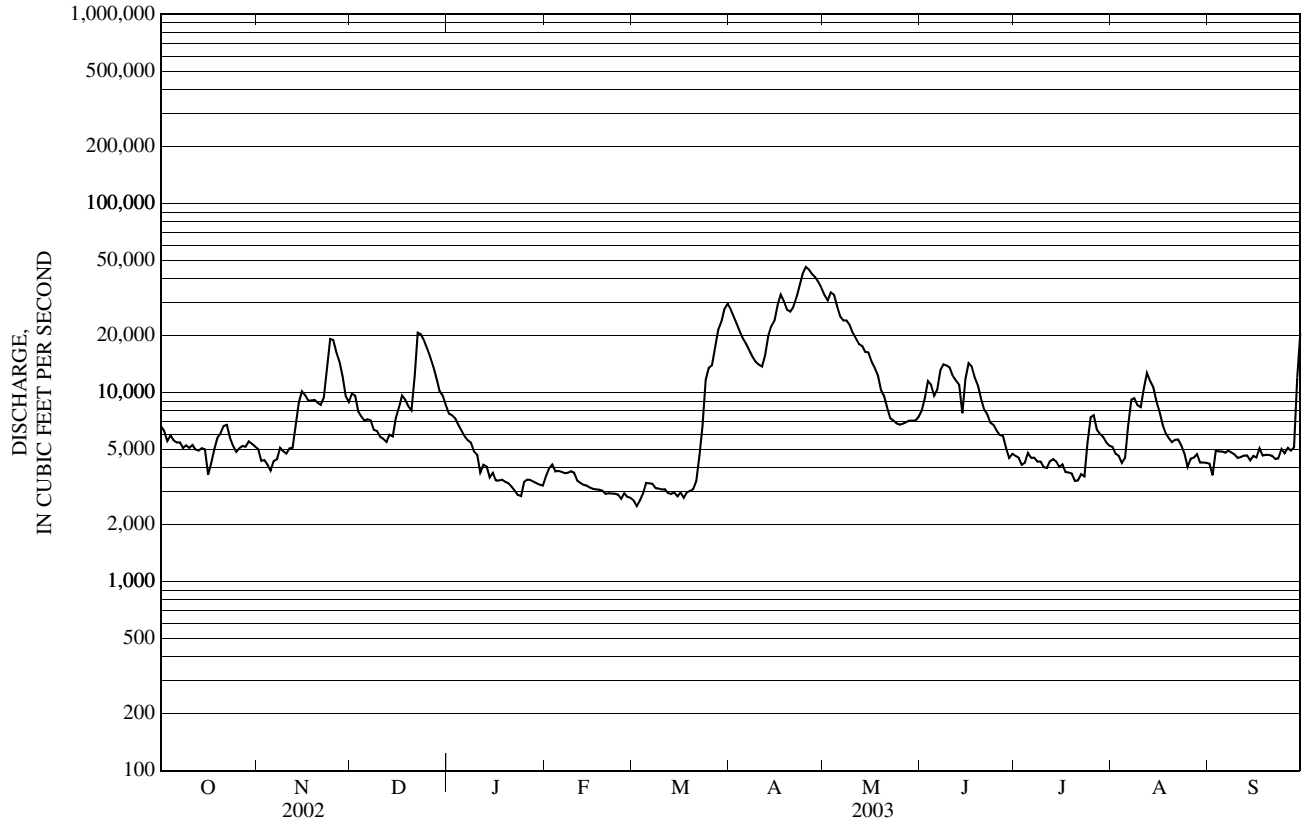
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2003, BY WATER YEAR (WY)

MEAN	8,377	11,630	10,520	7,934	7,420	11,070	29,560	23,620	11,640	7,703	6,417	6,571
MAX	28,330	32,430	34,680	19,620	21,960	46,110	51,060	46,430	38,660	24,490	17,460	27,130
(WY)	(1982)	(1964)	(1974)	(1978)	(1970)	(1936)	(2000)	(1974)	(1917)	(1996)	(1976)	(1954)
MIN	2,255	2,629	3,411	2,890	1,799	2,449	14,490	9,163	4,079	4,028	3,229	3,187
(WY)	(1904)	(1906)	(1909)	(1904)	(1904)	(1911)	(1926)	(1999)	(1988)	(1991)	(2001)	(1995)

e Estimated

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1903 - 2003	
ANNUAL TOTAL	3,185,290		3,320,890			
ANNUAL MEAN	8,727		9,098		11,870	
HIGHEST ANNUAL MEAN					17,760	1973
LOWEST ANNUAL MEAN					6,382	1911
HIGHEST DAILY MEAN	45,600	Apr 16	46,100	Apr 25	152,000	May 1, 1923
LOWEST DAILY MEAN	2,380	Feb 10	2,510	Mar 2	1,630	Oct 29, 1905
ANNUAL SEVEN-DAY MINIMUM	2,620	Feb 4	2,730	Feb 25	1,700	Feb 11, 1904
MAXIMUM PEAK FLOW			47,900	Apr 25	153,000	May 1, 1923
MAXIMUM PEAK STAGE			13.81	Mar 31	25.15	May 1, 1923
10 PERCENT EXCEEDS	17,300		20,600		25,400	
50 PERCENT EXCEEDS	5,450		5,590		7,730	
90 PERCENT EXCEEDS	3,860		3,220		4,520	



01036390 PENOBSCOT RIVER AT EDDINGTON, ME

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, and 750 ft north of intersection with State Route 178.

DRAINAGE AREA.--7,764 mi^2, including 249 mi^2 drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--
GAGE HEIGHT: October 1998 to current year.
DISCHARGE: April 1979 to September 1996.
CHEMICAL ANALYSES: Water years 1979 to August 1994.
SPECIFIC CONDUCTANCE: April 1979 to October 1984, seasonal records November 1984 to September 1994.
pH: April 1979 to October 1984, seasonal records November 1984 to September 1994.
WATER TEMPERATURE: April 1979 to October 1984, seasonal records November 1984 to September 1994.
DISSOLVED OXYGEN: April 1979 to October 1984, seasonal records November 1984 to September 1994.

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

REMARKS.--Gage height affected by regulation of many reservoirs above station, combined capacity about 54.336 billion ft^3. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.-- Maximum gage height, 15.38 ft, Apr. 11, 2000; minimum gage height, 0.46 ft, Aug. 29, 2002.

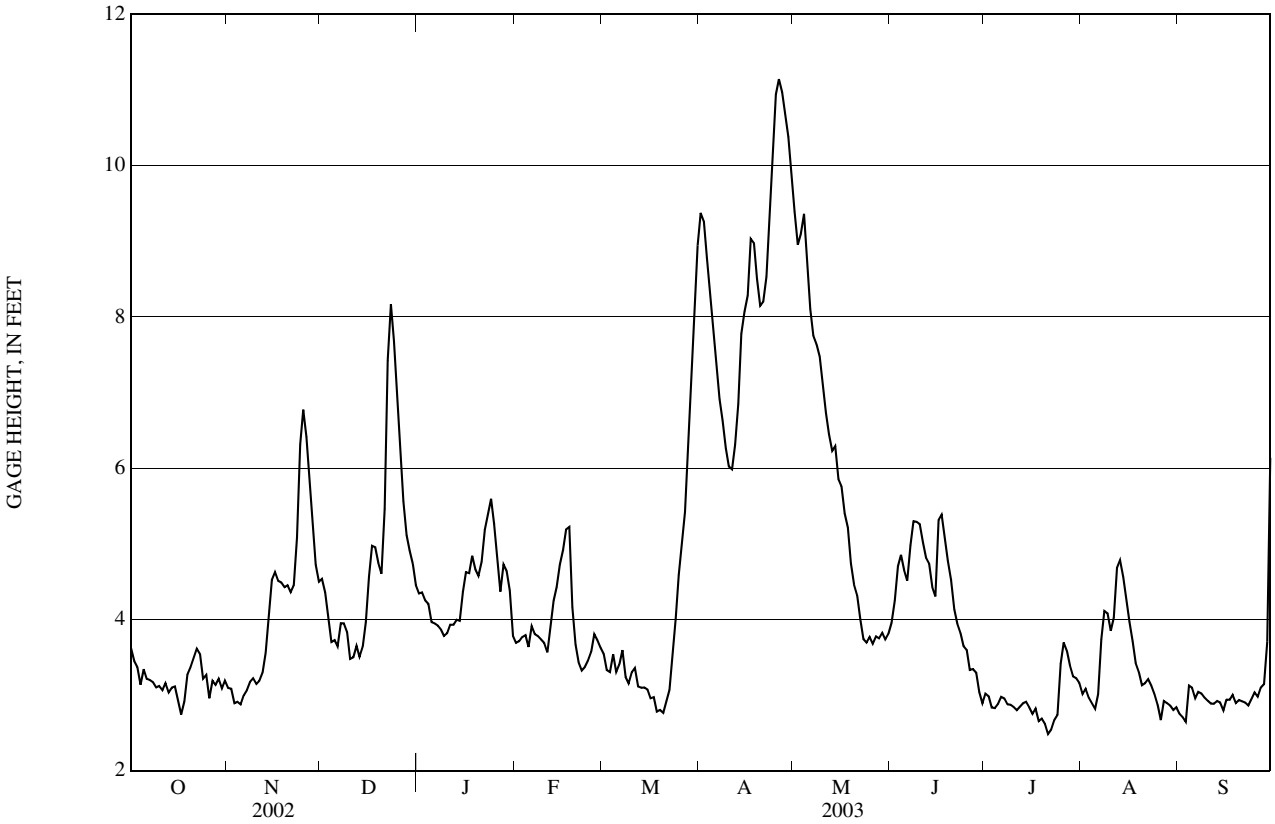
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 23.53 ft, Apr. 3, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.36 ft, Apr. 26; minimum gage height, 2.19 ft, July 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.62	3.09	4.54	4.34	3.69	3.55	9.38	9.39	3.95	3.02	3.01	2.75
2	3.45	3.08	4.36	4.36	3.71	3.33	9.26	8.95	4.24	2.98	3.08	2.71
3	3.37	2.89	4.02	4.25	3.77	3.30	8.78	9.10	4.70	2.84	2.96	2.65
4	3.14	2.91	3.70	4.21	3.79	3.54	8.37	9.36	4.85	2.83	2.89	3.13
5	3.34	2.88	3.73	3.96	3.64	3.30	7.93	8.82	4.65	2.88	2.82	3.10
6	3.21	2.99	3.65	3.95	3.91	3.41	7.37	8.10	4.51	2.98	3.01	2.96
7	3.20	3.06	3.95	3.92	3.80	3.59	6.91	7.75	4.98	2.95	3.74	3.04
8	3.17	3.17	3.95	3.87	3.78	3.24	6.63	7.64	5.30	2.88	4.11	3.02
9	3.10	3.22	3.83	3.78	3.74	3.15	6.26	7.47	5.29	2.87	4.08	2.97
10	3.12	3.15	3.48	3.82	3.69	3.30	6.02	7.09	5.26	2.84	3.85	2.92
11	3.06	3.19	3.50	3.93	3.56	3.36	5.98	6.73	5.02	2.80	4.02	2.89
12	3.16	3.30	3.65	3.93	3.92	3.11	6.31	6.45	4.81	2.84	4.68	2.88
13	3.04	3.55	3.50	3.99	4.25	3.10	6.85	6.23	4.74	2.89	4.78	2.92
14	3.10	4.08	3.64	3.98	4.43	3.10	7.78	6.29	4.42	2.91	4.56	2.90
15	3.11	4.52	3.96	4.36	4.73	3.07	8.07	5.86	4.30	2.84	4.27	2.80
16	2.92	4.62	4.57	4.62	4.92	2.96	8.28	5.76	5.31	2.75	3.96	2.94
17	2.74	4.51	4.97	4.61	5.19	2.97	9.03	5.40	5.38	2.82	3.71	2.94
18	2.92	4.49	4.95	4.84	5.22	2.78	8.97	5.21	5.08	2.65	3.42	3.00
19	3.27	4.43	4.74	4.66	4.16	2.80	8.50	4.74	4.77	2.69	3.30	2.90
20	3.37	4.45	4.60	4.58	3.67	2.76	8.15	4.46	4.52	2.62	3.13	2.93
21	3.49	4.36	5.46	4.76	3.43	2.92	8.20	4.32	4.13	2.48	3.16	2.92
22	3.61	4.45	7.43	5.19	3.32	3.07	8.53	4.00	3.94	2.54	3.21	2.90
23	3.54	5.08	8.17	5.39	3.37	3.55	9.23	3.74	3.82	2.67	3.12	2.86
24	3.21	6.31	7.68	5.59	3.46	4.01	10.12	3.69	3.65	2.74	3.01	2.95
25	3.26	6.77	6.93	5.26	3.57	4.59	10.94	3.77	3.60	3.41	2.87	3.03
26	2.96	6.41	6.17	4.76	3.80	5.00	11.14	3.68	3.33	3.69	2.67	2.98
27	3.19	5.90	5.56	4.37	3.72	5.42	10.97	3.77	3.34	3.58	2.92	3.10
28	3.13	5.29	5.11	4.73	3.63	6.19	10.68	3.75	3.30	3.39	2.89	3.14
29	3.21	4.72	4.91	4.64	---	7.07	10.38	3.82	3.04	3.25	2.86	3.70
30	3.09	4.50	4.73	4.38	---	8.00	9.93	3.74	2.89	3.22	2.80	6.13
31	3.19	---	4.45	3.78	---	8.94	---	3.81	---	3.16	2.84	---
MEAN	3.20	4.18	4.77	4.41	3.92	3.95	8.50	5.90	4.37	2.94	3.41	3.07
MAX	3.62	6.77	8.17	5.59	5.22	8.94	11.14	9.39	5.38	3.69	4.78	6.13
MIN	2.74	2.88	3.48	3.78	3.32	2.76	5.98	3.68	2.89	2.48	2.67	2.65

01036390 PENOBSCOT RIVER AT EDDINGTON, ME—Continued



01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME

LOCATION.--Lat 44°19'45", long 69°03'42", Waldo County, Hydrologic Unit 01050002, on left bank on downstream side of State Route 52 highway bridge at Lincolnville, and 1.3 mi upstream of Black Brook.

DRAINAGE AREA.--14.4 mi^2

PERIOD OF RECORD.--
DISCHARGE: June 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 135 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for flows between 10.0 ft^3/s and 6 ft^3/s, which are fair, and flows below 6 ft^3/s, periods of ice effect, Nov. 29 to Dec. 20, Dec. 25 to Mar. 30, and periods of no gage-height record, Dec. 20-29, Feb. 10-25, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft^3/s, Jan. 15, 1999, gage height, 5.47 ft; maximum gage height, 5.82 ft, Jan. 15, 1999 (backwater from ice); no flow Aug. 17 to Sept. 24, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	Unknown	*415	*4.70[a]

No peaks greater than base discharge.

Minimum discharge, 0.02 ft^3/s, Sept. 4, gage height, 1.12 ft.

[a] From crest-stage gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.12	3.6	e34	e24	e8.4	e10	149	32	37	4.3	0.21	0.02
2	0.08	3.5	e30	e23	e14	e14	108	33	54	3.5	6.2	0.02
3	0.08	3.2	e25	e22	e18	e41	87	33	37	3.0	3.7	0.02
4	0.07	3.5	e21	e22	e12	e30	72	27	30	2.6	2.6	2.3
5	0.27	4.2	e18	e22	e20	e26	61	25	34	3.9	2.1	1.9
6	0.36	29	e17	e20	e16	e43	56	25	36	5.2	1.8	1.0
7	0.34	45	e15	e19	e14	e32	51	32	29	3.5	1.5	0.70
8	0.26	22	e15	e18	e13	e26	47	27	25	3.0	1.3	0.44
9	0.13	19	e14	e17	e12	e25	43	25	23	2.8	1.3	0.27
10	0.10	17	e12	e16	e11	e23	40	23	20	2.3	1.1	0.21
11	0.09	18	e12	e15	e10	e20	39	20	16	2.2	0.97	0.16
12	0.10	18	e12	e15	e9.6	e18	47	33	15	2.3	1.1	0.11
13	0.11	53	e12	e14	e9.2	e17	41	30	13	2.0	1.1	0.07
14	0.93	52	e99	e14	e8.8	e16	35	27	27	1.7	0.91	0.06
15	1.1	40	e124	e15	e8.5	e14	33	25	27	1.7	0.58	0.05
16	1.9	34	e77	e17	e8.3	e15	31	23	24	1.4	0.42	0.11
17	25	53	e61	e17	e8.0	e17	29	20	20	1.5	0.40	0.12
18	9.5	93	e50	e16	e7.8	e24	26	18	16	1.2	0.33	0.12
19	4.6	69	e42	e15	e7.6	e22	25	16	15	1.1	0.23	0.09
20	3.2	63	e39	e13	e7.5	e20	23	15	13	0.84	0.18	0.22
21	2.1	59	e307	e12	e7.3	e45	21	15	11	0.66	0.13	0.31
22	1.5	109	e169	e11	e7.2	e67	21	15	10	0.68	0.10	0.18
23	1.2	128	e106	e10	e10	e96	27	14	9.7	0.73	0.08	0.22
24	1.6	101	e72	e10	e18	e96	30	19	8.9	0.76	0.05	0.29
25	0.73	82	e56	e9.6	e14	e88	32	28	7.7	0.64	0.04	0.20
26	2.7	68	e47	e9.4	e12	e84	26	23	6.9	0.44	0.05	0.39
27	12	58	e40	e9.7	e11	e96	66	48	5.9	0.38	0.05	0.60
28	6.6	45	e35	e9.5	e10	e92	53	34	4.8	0.53	0.04	3.1
29	5.5	e41	e31	e8.9	---	e85	45	29	4.2	0.39	0.03	5.4
30	5.2	e37	e28	e8.6	---	e189	38	27	4.2	0.26	0.03	3.3
31	4.3	---	e26	e8.3	---	227	---	26	---	0.21	0.02	---
TOTAL	91.77	1,371.0	1,646	461.0	313.2	1,618	1,402	787	584.3	55.72	28.65	21.98
MEAN	2.96	45.7	53.1	14.9	11.2	52.2	46.7	25.4	19.5	1.80	0.92	0.73
MAX	25	128	307	24	20	227	149	48	54	5.2	6.2	5.4
MIN	0.07	3.2	12	8.3	7.2	10	21	14	4.2	0.21	0.02	0.02
CFSM	0.21	3.17	3.69	1.03	0.78	3.62	3.25	1.76	1.35	0.12	0.06	0.05
IN.	0.24	3.54	4.25	1.19	0.81	4.18	3.62	2.03	1.51	0.14	0.07	0.06

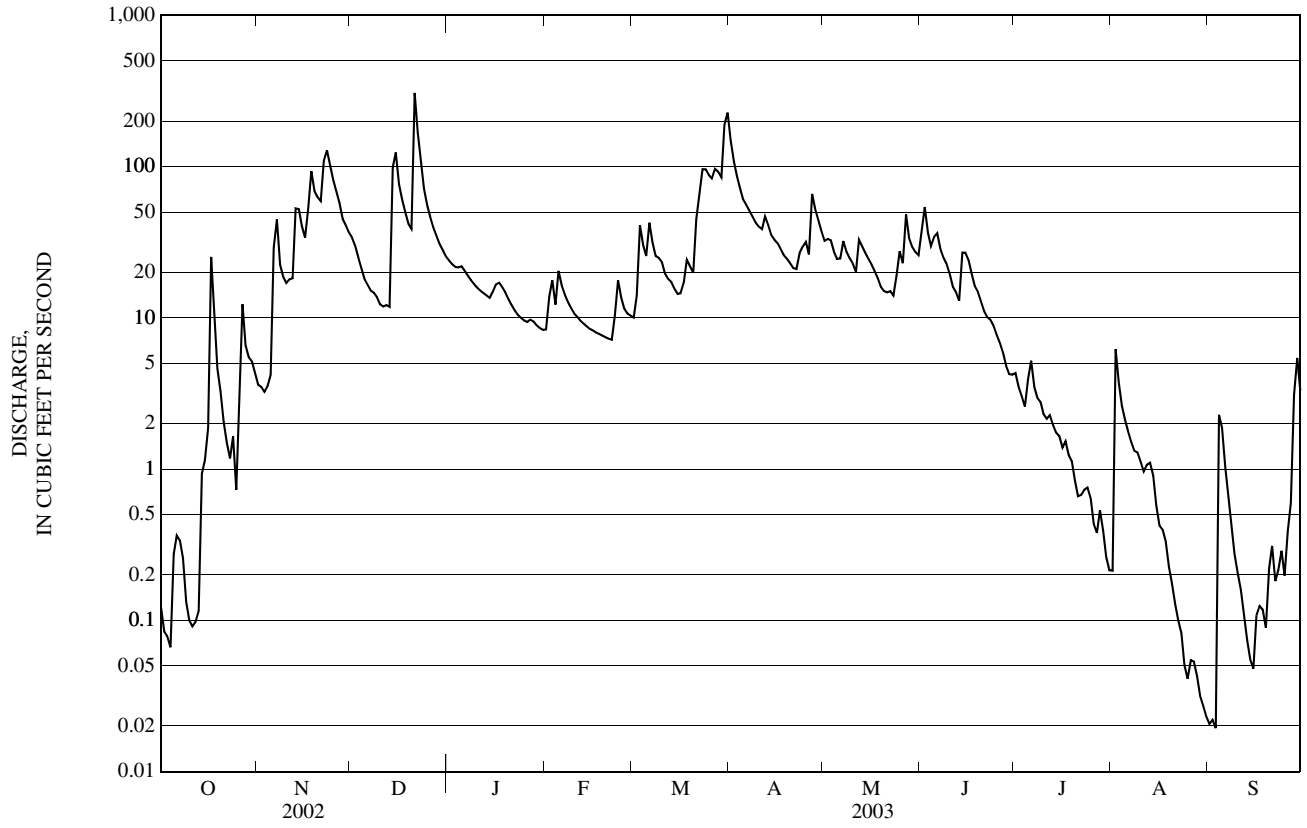
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

MEAN	7.77	23.0	28.1	33.7	26.9	68.3	64.6	27.1	13.1	3.70	0.45	0.92
MAX	28.4	45.7	53.1	117	57.8	103	109	42.5	19.5	11.9	0.97	4.01
(WY)	(2000)	(2003)	(2003)	(1999)	(1999)	(1999)	(2001)	(2002)	(2003)	(1998)	(1998)	(1999)
MIN	0.065	0.37	3.21	7.84	10.3	33.2	28.4	11.4	8.32	0.91	0.012	0.067
(WY)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(1999)	(2001)	(2001)	(2001)	(2001)	(2001)

e Estimated

01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1998 - 2003	
ANNUAL TOTAL	10,044.28		8,380.62			
ANNUAL MEAN	27.5		23.0		24.6	
HIGHEST ANNUAL MEAN					31.9	1999
LOWEST ANNUAL MEAN					18.4	2001
HIGHEST DAILY MEAN	307	Dec 21	307	Dec 21	354	Jan 16, 1999
LOWEST DAILY MEAN	0.01	Aug 13	0.02	Aug 31	0.00	Aug 17, 2001
ANNUAL SEVEN-DAY MINIMUM	0.01	Aug 13	0.03	Aug 28	0.00	Aug 17, 2001
MAXIMUM PEAK FLOW			415	Dec 21	650	Jan 15, 1999
MAXIMUM PEAK STAGE			4.70	Dec 21	5.82	Jan 15, 1999
INSTANTANEOUS LOW FLOW			0.02	Sep 4	0.00	Aug 17, 2001
ANNUAL RUNOFF (CFSM)	1.91		1.59		1.71	
ANNUAL RUNOFF (INCHES)	25.95		21.65		23.25	
10 PERCENT EXCEEDS	73		55		67	
50 PERCENT EXCEEDS	13		14		10	
90 PERCENT EXCEEDS	0.02		0.21		0.09	



01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank 50 ft upstream from State Route 126 highway bridge at North Whitefield, at mouth of Finn Brook, and 0.3 mi east of North Whitefield village.

DRAINAGE AREA.--145 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1938 to current year.
CHEMICAL ANALYSES: Water years 1954-56.
SPECIFIC CONDUCTANCE: July 1974 to September 1976.
WATER TEMPERATURE: October 1957 to September 1971, July 1974 to September 1976.

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

GAGE.--Water-stage recorder. Datum of gage is 101.05 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 28 to Dec. 3, Dec. 9-10, and Jan. 1 to Mar. 21, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,350 ft^3/s, Apr. 1, 1987, gage height, 13.71 ft; minimum discharge, 5.0 ft^3/s, Oct. 24, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 31	0030	*1,880	*6.37

No other peak greater than base discharge.

Minimum discharge, 13 ft^3/s, Sept. 3, gage height, 1.65 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	29	e243	e299	e84	e125	1,590	263	246	47	19	14
2	26	27	e218	e275	e86	e130	1,390	246	286	44	38	14
3	27	26	e204	e259	e97	e177	1,160	263	255	40	40	13
4	28	24	185	e249	e104	e218	985	235	231	37	34	21
5	25	24	168	e237	e122	e191	836	212	221	36	30	27
6	25	34	156	e225	e147	e205	733	201	233	47	31	26
7	24	78	142	e215	e136	e211	660	231	211	42	30	23
8	20	67	131	e206	e128	e177	583	225	190	35	28	20
9	18	53	e119	e198	e122	e153	519	211	175	32	27	19
10	18	47	e108	e188	e116	e135	470	203	161	30	26	17
11	17	45	102	e181	e112	e122	432	189	144	29	26	16
12	17	49	99	e173	e109	e111	428	231	132	30	30	16
13	17	126	97	e167	e105	e103	416	249	126	30	38	15
14	20	161	139	e162	e102	e96	384	240	165	29	41	15
15	22	118	435	e154	e99	e90	365	230	198	27	34	15
16	23	103	412	e150	e96	e87	356	220	200	25	31	18
17	52	106	349	e143	e93	e95	337	205	178	26	28	22
18	45	150	322	e137	e91	e124	313	190	161	25	27	23
19	38	159	299	e131	e90	e159	298	174	159	25	25	22
20	33	140	334	e126	e88	e159	285	158	151	24	23	44
21	34	137	882	e121	e89	e308	271	145	143	24	22	50
22	29	286	755	e116	e91	570	261	139	146	22	21	36
23	30	407	702	e112	e115	673	270	126	137	22	20	31
24	28	344	657	e108	e157	809	287	127	128	22	18	42
25	26	315	589	e105	e169	873	299	151	119	23	17	43
26	28	315	526	e101	e179	972	282	149	110	23	17	36
27	36	311	485	e98	e149	1,170	332	259	97	22	16	42
28	38	e281	444	e94	e133	1,260	329	224	65	21	16	50
29	34	e259	397	e92	---	1,310	300	203	57	21	15	108
30	31	e249	356	e89	---	1,590	279	234	52	20	15	82
31	30	---	322	e86	---	1,810	---	279	---	19	14	---
TOTAL	866	4,470	10,377	4,997	3,209	14,213	15,450	6,412	4,877	899	797	920
MEAN	27.9	149	335	161	115	458	515	207	163	29.0	25.7	30.7
MAX	52	407	882	299	179	1,810	1,590	279	286	47	41	108
MIN	17	24	97	86	84	87	261	126	52	19	14	13
CFSM	0.19	1.03	2.31	1.11	0.79	3.16	3.55	1.43	1.12	0.20	0.18	0.21
IN.	0.22	1.15	2.66	1.28	0.82	3.65	3.96	1.65	1.25	0.23	0.20	0.24

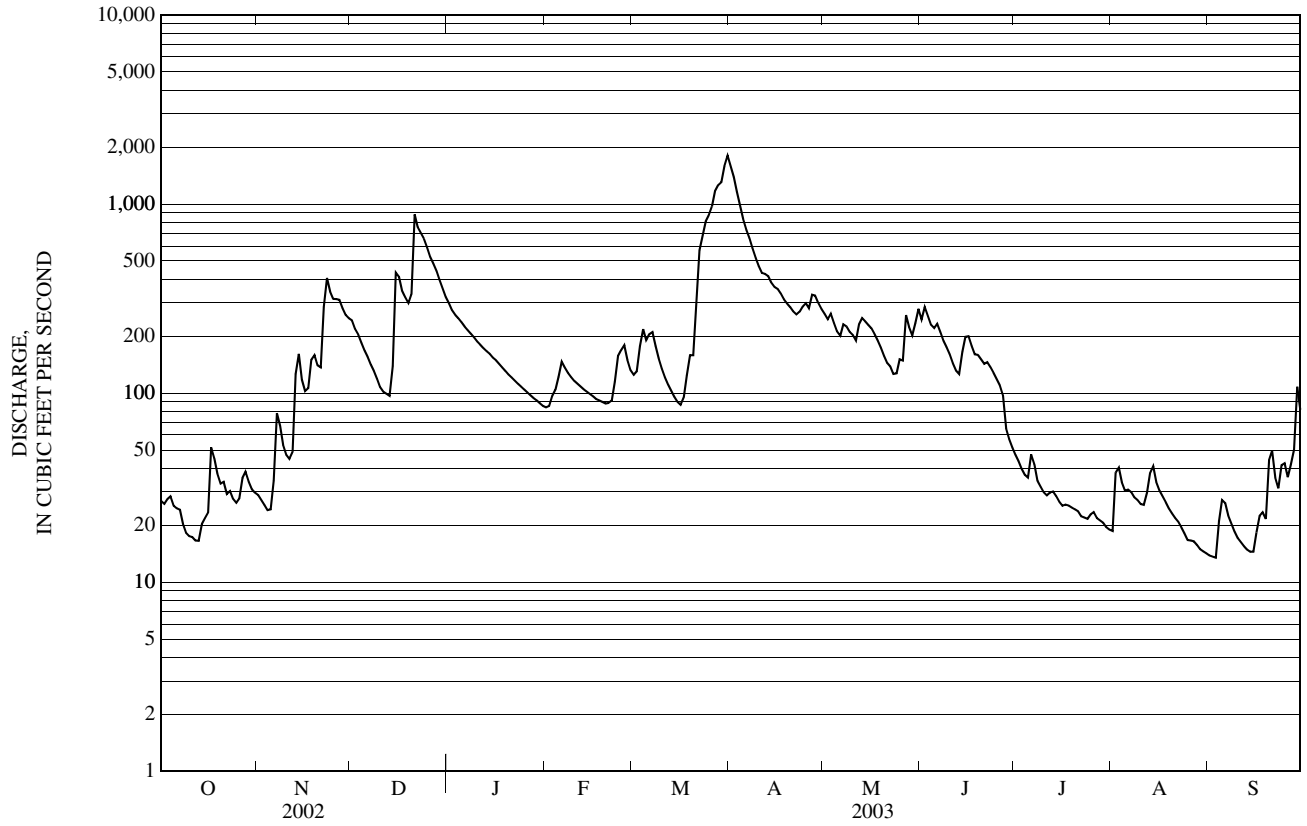
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

MEAN	85.9	239	319	231	232	449	736	340	166	74.0	46.3	50.7
MAX	658	664	1,393	677	922	1,103	1,333	776	774	466	245	708
(WY)	(1978)	(1991)	(1974)	(1999)	(1970)	(1979)	(1940)	(1989)	(1984)	(1973)	(1976)	(1954)
MIN	6.75	18.3	31.7	28.5	35.8	87.9	255	101	45.1	18.1	13.0	8.64
(WY)	(1942)	(2002)	(1979)	(1948)	(1948)	(1967)	(1985)	(1999)	(1985)	(1965)	(2001)	(1957)

e Estimated

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL TOTAL	76,718		67,487			
ANNUAL MEAN	210		185		247	
HIGHEST ANNUAL MEAN					427	1984
LOWEST ANNUAL MEAN					115	1985
HIGHEST DAILY MEAN	1,340	Mar 4	1,810	Mar 31	6,690	Apr 1, 1987
LOWEST DAILY MEAN	12	Aug 22	13	Sep 3	5.1	Oct 24, 1941
ANNUAL SEVEN-DAY MINIMUM	12	Sep 8	14	Aug 28	5.5	Oct 18, 1941
MAXIMUM PEAK FLOW			1,880	Mar 31	7,350	Apr 1, 1987
MAXIMUM PEAK STAGE			6.37	Mar 31	13.71	Apr 1, 1987
INSTANTANEOUS LOW FLOW			13	Sep 3	5.0	Oct 24, 1941
ANNUAL RUNOFF (CFSM)	1.45		1.28		1.70	
ANNUAL RUNOFF (INCHES)	19.68		17.31		23.13	
10 PERCENT EXCEEDS	590		373		622	
50 PERCENT EXCEEDS	108		119		127	
90 PERCENT EXCEEDS	15		22		23	



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 U.S. Route 201 highway bridge, and 0.7 mi upstream from Dead River.

DRAINAGE AREA.--1,590 mi^2.

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.--Records good, except for periods of ice effect, Jan. 22-26 and Feb. 14-20, which are fair. Flow regulated by Moosehead Lake, Brassua Lake, and Indian Pond, combined capacity about 32.98 billion ft^3. Considerable diurnal fluctuation caused by powerplant above station. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,900 ft^3/s, Apr. 18, 1983, gage height, 14.41 ft; minimum daily discharge, 161 ft^3/s, Aug. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,100 ft^3/s, Nov. 4, gage height, 6.86 ft; minimum daily discharge, 301 ft^3/s, Dec. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,200	1,460	1,040	528	1,290	2,040	1,940	1,680	1,490	2,220	1,300	1,350
2	2,190	1,290	1,380	1,110	1,210	2,010	1,980	2,400	3,530	2,410	1,370	1,450
3	2,180	1,750	1,390	955	1,640	2,500	1,400	2,010	2,990	2,720	1,380	1,670
4	2,130	2,630	1,390	958	1,420	2,900	1,390	2,320	3,160	2,200	1,630	1,880
5	2,360	2,030	1,390	944	1,400	2,770	983	2,120	2,900	2,180	1,480	1,680
6	2,070	2,200	1,270	1,130	1,410	2,780	966	2,070	4,190	2,100	1,680	1,860
7	2,510	1,630	779	946	1,610	2,810	1,470	2,010	4,100	2,530	1,280	1,940
8	2,460	1,860	736	852	1,180	1,730	903	1,710	3,600	2,260	1,380	2,190
9	2,660	1,780	1,520	740	1,190	1,690	936	1,630	2,950	2,130	1,070	2,170
10	2,050	1,600	751	750	1,740	2,210	1,000	1,300	3,140	1,720	1,310	2,170
11	1,740	1,730	854	524	1,200	2,460	1,010	1,130	2,740	1,700	1,710	1,920
12	1,870	741	720	555	1,000	2,440	1,110	1,190	2,480	1,110	1,530	1,670
13	1,500	1,630	721	1,000	1,590	2,440	1,320	1,390	3,570	1,610	1,170	1,330
14	2,500	1,260	301	944	e1,610	1,260	1,290	1,900	2,290	2,160	1,220	1,430
15	2,030	1,220	726	958	e1,380	1,260	2,070	1,560	3,210	2,100	1,330	2,170
16	1,670	1,150	731	815	e1,520	901	3,130	1,250	4,360	1,560	1,910	1,760
17	1,330	1,150	736	1,010	e1,620	1,410	2,790	1,210	5,000	1,690	1,740	1,860
18	2,300	1,140	871	942	e1,610	1,300	2,290	1,540	3,500	1,680	2,270	1,550
19	2,470	1,310	881	931	e1,570	1,270	1,880	1,560	4,430	1,550	2,210	2,070
20	1,980	1,400	1,060	1,290	e1,570	1,110	1,480	1,960	3,360	1,570	1,890	1,850
21	1,990	1,370	1,080	972	1,840	1,120	2,310	2,330	3,620	2,090	1,890	2,120
22	1,720	1,370	918	e1,140	1,680	779	2,370	2,440	3,390	2,300	1,890	2,140
23	1,670	1,090	791	e1,140	1,680	829	3,070	1,310	3,150	1,930	1,270	1,630
24	1,610	651	789	e1,140	1,850	1,290	3,030	1,030	2,610	1,340	1,250	1,810
25	1,910	1,120	792	e1,240	1,820	953	3,250	1,040	2,750	1,830	1,870	1,860
26	1,500	1,010	1,160	e1,240	1,860	847	2,900	1,030	2,700	1,640	2,190	1,870
27	1,500	1,140	1,160	1,880	1,900	901	2,940	1,360	3,300	1,630	1,560	1,780
28	1,560	1,300	994	1,470	2,300	974	2,370	1,820	2,160	1,920	1,360	1,510
29	1,740	1,090	948	1,400	---	1,170	2,180	2,280	2,200	1,520	1,360	2,220
30	1,730	1,040	975	1,120	---	1,490	2,360	3,090	2,870	1,620	1,260	1,650
31	1,510	---	762	1,160	---	1,450	---	1,910	---	1,700	1,250	---
TOTAL	60,640	42,142	29,616	31,784	43,690	51,094	58,118	53,580	95,740	58,720	48,010	54,560
MEAN	1,956	1,405	955	1,025	1,560	1,648	1,937	1,728	3,191	1,894	1,549	1,819
MAX	2,660	2,630	1,520	1,880	2,300	2,900	3,250	3,090	5,000	2,720	2,270	2,220
MIN	1,330	651	301	524	1,000	779	903	1,030	1,490	1,110	1,070	1,330

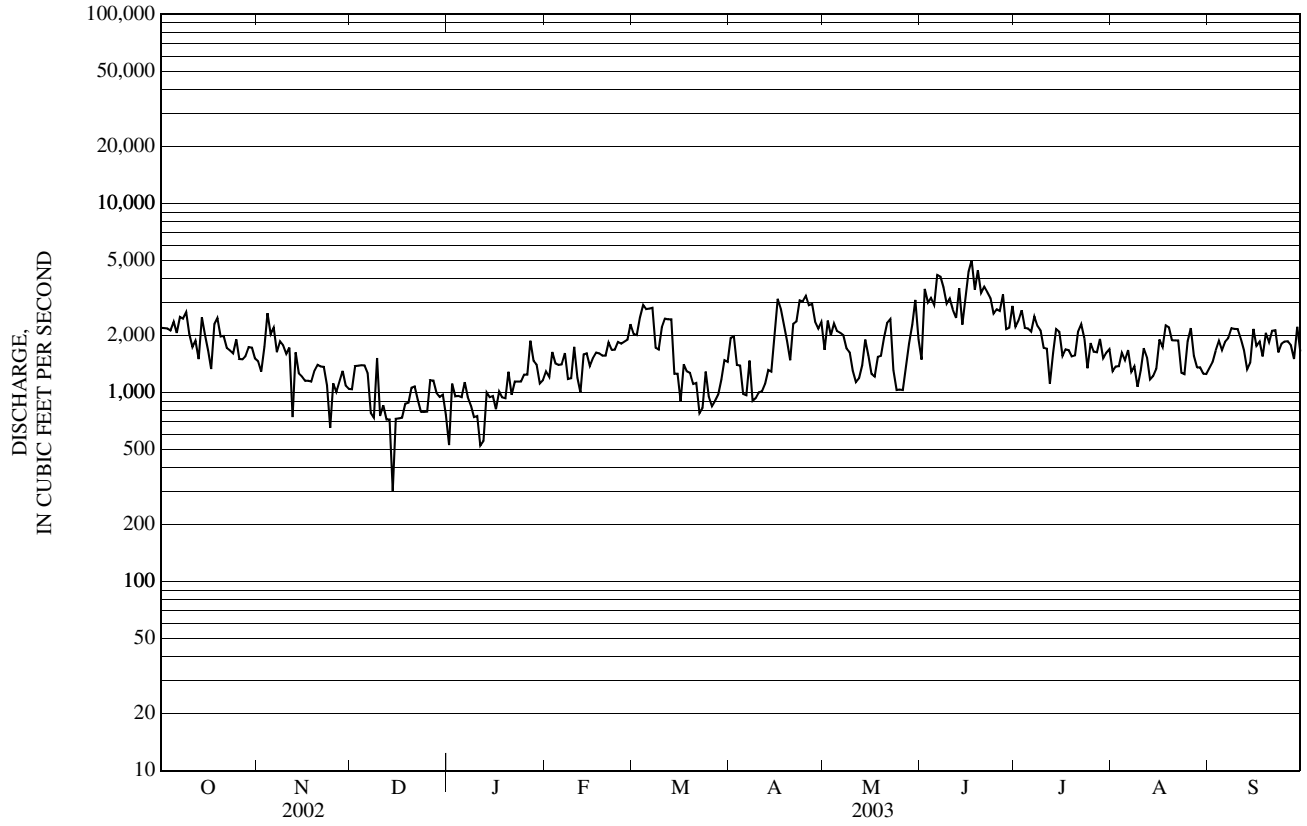
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2003, BY WATER YEAR (WY)

MEAN	1,983	1,795	2,041	2,312	2,556	2,355	2,947	4,657	3,313	2,664	2,396	2,261
MAX	6,298	5,317	8,142	5,569	5,454	7,981	9,488	13,520	10,380	6,403	4,740	5,511
(WY)	(1955)	(1908)	(1974)	(1970)	(1996)	(1996)	(1983)	(1974)	(1917)	(1996)	(1917)	(1954)
MIN	864	487	655	669	522	466	860	699	664	775	1,083	1,053
(WY)	(1906)	(1912)	(1909)	(1904)	(1904)	(1906)	(1980)	(1980)	(1988)	(1988)	(1987)	(1987)

e Estimated

01042500 KENNEBEC RIVER AT THE FORKS, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1904 - 2003	
ANNUAL TOTAL	636,822		627,694			
ANNUAL MEAN	1,745		1,720		2,607	
HIGHEST ANNUAL MEAN					4,701	1996
LOWEST ANNUAL MEAN					1,516	1950
HIGHEST DAILY MEAN	5,470	May 16	5,000	Jun 17	28,200	Jun 1, 1984
LOWEST DAILY MEAN	268	Feb 15	301	Dec 14	161	Aug 30, 1987
ANNUAL SEVEN-DAY MINIMUM	509	Mar 8	684	Dec 11	314	Jan 6, 1909
MAXIMUM PEAK FLOW			10,100	Nov 4	32,900	Apr 18, 1983
MAXIMUM PEAK STAGE			6.86	Nov 4	14.41	Apr 18, 1983
10 PERCENT EXCEEDS	3,260		2,710		4,350	
50 PERCENT EXCEEDS	1,390		1,610		2,230	
90 PERCENT EXCEEDS	747		944		880	



01044550 SPENCER STREAM AT MOUTH, NEAR GRAND FALLS, ME

LOCATION.--Lat 45°18'07", long 70°13'27", Somerset County, Hydrologic Unit 01030002, on left bank, in Township T3R5 BKP WKR, 0.2 mi above mouth and 0.5 mi north of Grand Falls.

DRAINAGE AREA.--194 mi^2.

PERIOD OF RECORD.--
DISCHARGE: August 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1000 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, including periods of backwater from the Dead River, Oct. 5, May 3, 10, 24-25, 31, June 7, 14, 28, July 5, 12-13, Aug. 2-3, 9-10, 31, and Sept. 13, except for periods of ice effect, Oct. 31 to Nov. 10, Nov. 17-21, and Nov. 25 to Apr. 12, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,500 ft^3/s, May 11, 2000, gage height, 7.24 ft; maximum gage height, 9.14 ft, Dec. 20, 2000 (backwater from ice); minimum discharge, 8.7 ft^3/s, Sept. 10-11, 2002, gage height, 0.97 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 16	1515	*3,010	*5.63

Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peaks greater than base discharge.			

Minimum discharge, 27 ft^3/s, Oct. 11-13, gage height, 1.23 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	e77	e136	e91	e71	e52	e848	794	371	177	67	68
2	56	e72	e122	e90	e70	e52	e581	1,030	424	141	e64	62
3	49	e69	e116	e90	e71	e53	e455	e1,560	395	125	e64	57
4	44	e67	e112	e90	e70	e52	e374	1,130	312	116	112	57
5	e40	e66	e109	e91	e69	e51	e280	860	285	e116	123	59
6	39	e64	e106	e89	e67	e50	e278	770	687	124	228	57
7	36	e70	e104	e89	e66	e49	e291	805	e647	112	621	52
8	33	e74	e101	e89	e65	e49	e280	766	488	112	412	49
9	31	e64	e99	e88	e64	e50	e258	654	405	141	e268	45
10	29	e84	e97	e88	e64	e49	e259	e578	395	117	e503	42
11	27	249	e96	e88	e63	e48	e287	508	353	106	1,350	40
12	28	449	e96	e87	e62	e47	e368	617	338	e114	875	38
13	27	379	e95	e87	e62	e46	647	747	309	e107	482	e35
14	32	349	e94	e86	e61	e45	665	724	e443	99	331	34
15	44	256	e106	e85	e60	e44	905	628	756	90	247	33
16	40	205	e105	e84	e60	e43	2,550	533	649	79	205	45
17	90	e172	e102	e83	e59	e43	1,920	464	473	75	183	122
18	155	e170	e99	e83	e58	e45	1,130	416	370	72	163	83
19	108	e158	e98	e82	e58	e48	802	382	313	66	143	62
20	206	e144	e96	e81	e57	e61	849	351	282	60	125	59
21	181	e139	e111	e80	e57	e85	1,180	327	247	56	114	79
22	123	156	e131	e79	e56	e176	1,340	316	222	71	105	73
23	98	475	e121	e78	e55	e367	1,250	288	208	109	96	66
24	83	420	e111	e77	e55	e323	1,160	e271	194	150	86	193
25	75	e298	e106	e76	e54	e295	929	e279	177	339	75	146
26	76	e224	e101	e76	e54	e323	749	297	160	193	72	112
27	118	e176	e98	e75	e53	e400	725	374	149	135	74	102
28	139	e141	e96	e74	e53	e433	853	378	e142	115	85	87
29	120	e127	e95	e73	---	e561	1,070	360	125	101	77	88
30	102	e154	e93	e72	---	e1,450	1,010	418	149	84	78	85
31	e84	---	e92	e71	---	e1,310	---	e425	---	74	e76	---
TOTAL	2,380	5,548	3,244	2,572	1,714	6,700	24,293	18,050	10,468	3,576	7,504	2,130
MEAN	76.8	185	105	83.0	61.2	216	810	582	349	115	242	71.0
MAX	206	475	136	91	71	1,450	2,550	1,560	756	339	1,350	193
MIN	27	64	92	71	53	43	258	271	125	56	64	33
CFSM	0.40	0.95	0.54	0.43	0.32	1.11	4.17	3.00	1.80	0.59	1.25	0.37
IN.	0.46	1.06	0.62	0.49	0.33	1.28	4.66	3.46	2.01	0.69	1.44	0.41

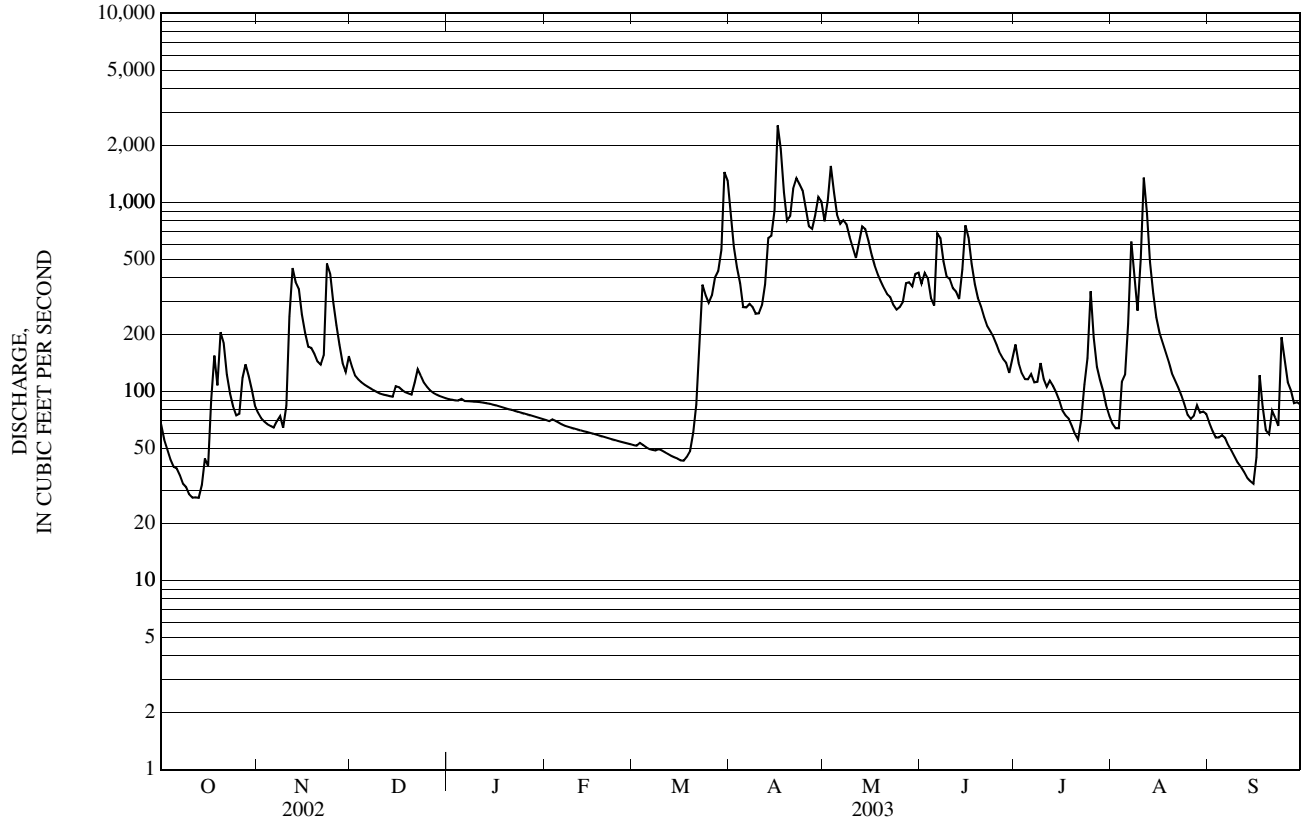
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	196	226	196	117	105	241	1,094	807	329	156	90.1	167
MAX	547	400	290	164	163	514	1,468	1,191	377	229	242	612
(WY)	(2000)	(2000)	(2000)	(2000)	(2001)	(2000)	(2000)	(2000)	(2001)	(2002)	(2003)	(1999)
MIN	49.4	65.1	105	60.1	60.1	115	810	564	254	115	33.5	34.8
(WY)	(2002)	(2002)	(2003)	(2002)	(2002)	(2001)	(2003)	(2002)	(2000)	(2003)	(2001)	(2002)

e Estimated

01044550 SPENCER STREAM AT MOUTH, NEAR GRAND FALLS, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	91,370.5		88,179			
ANNUAL MEAN	250		242		302	
HIGHEST ANNUAL MEAN					437	2000
LOWEST ANNUAL MEAN					240	2002
HIGHEST DAILY MEAN	4,410	Apr 18	2,550	Apr 16	4,850	May 11, 2000
LOWEST DAILY MEAN	9.0	Sep 10	27	Oct 11	9.0	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	10	Sep 5	30	Oct 8	10	Sep 5, 2002
MAXIMUM PEAK FLOW			3,010	Apr 16	5,500	May 11, 2000
MAXIMUM PEAK STAGE			5.63	Apr 16	9.14	Dec 20, 2000
INSTANTANEOUS LOW FLOW			27	Oct 11	8.7	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.29		1.25		1.55	
ANNUAL RUNOFF (INCHES)	17.52		16.91		21.13	
10 PERCENT EXCEEDS	594		648		702	
50 PERCENT EXCEEDS	100		105		139	
90 PERCENT EXCEEDS	28		50		45	



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, 50 ft downstream from State Route 16 highway bridge, 0.4 mi downstream from Austin Stream, and 1.6 mi downstream from Wyman Dam.

DRAINAGE AREA.--2,715 mi^2.

PERIOD OF RECORD.--
DISCHARGE: June 1907 to June 1910, October 1930 to current year. Monthly discharge only for some periods prior to June 1910 published in WSP 1301.
CHEMICAL ANALYSES: Water years 1966 to 1978.
SPECIFIC CONDUCTANCE: October 1975 to September 1978.
WATER TEMPERATURE: October 1975 to September 1978.

REVISED RECORDS.--WSP 1271: 1951(M). WSP 1301: 1936(M). WDR ME-81-1: Drainage area.

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

REMARKS.--Records good, except for periods of ice effect, Feb. 15-16, 26-28, Mar. 7, 10, 14-16, and 19, which are fair. Flow regulated by Moosehead Lake, Indian Pond, and Brassua, Flagstaff, and Wyman Lakes, combined capacity about 47.973 billion ft^3. Considerable diurnal fluctuation caused by powerplant above station. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,200 ft^3/s, June 1, 1984, gage height, 15.61 ft; minimum daily discharge, 110 ft^3/s, Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,400 ft^3/s, Apr. 16, gage height, 10.34 ft; minimum daily discharge, 1,480 ft^3/s, Jan. 6 and 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,550	2,200	1,930	1,640	2,010	3,510	5,130	5,220	3,690	2,870	2,160	2,230
2	2,390	2,320	2,100	1,650	2,150	3,310	4,370	4,880	3,870	2,890	2,240	2,140
3	2,370	2,220	2,100	1,650	2,170	3,180	3,400	7,040	4,170	2,880	2,140	2,240
4	2,390	2,500	2,240	1,540	2,340	3,450	3,000	7,080	3,590	3,000	2,340	2,360
5	2,470	2,320	2,250	1,660	2,070	3,220	2,260	4,260	3,720	2,870	2,320	2,380
6	2,450	2,230	2,160	1,480	2,120	3,470	1,980	4,220	5,140	2,990	2,230	2,590
7	2,250	2,290	2,290	1,540	2,210	e3,510	2,220	3,610	7,740	2,880	2,310	2,540
8	2,430	2,240	2,240	1,650	2,150	3,200	1,840	3,860	6,300	3,110	2,240	2,600
9	2,400	2,200	2,150	1,750	2,160	3,200	1,790	4,080	3,980	2,310	2,240	2,370
10	2,340	2,050	2,250	1,680	2,320	e3,510	1,800	3,690	3,630	2,220	2,730	2,530
11	2,610	2,270	2,160	1,490	2,010	3,220	1,650	3,740	3,970	2,300	3,610	2,390
12	2,390	2,530	1,730	1,480	2,090	3,270	1,850	3,590	3,790	2,230	3,530	2,410
13	2,450	3,030	1,680	1,720	2,370	3,270	3,190	3,170	3,850	2,240	2,490	2,410
14	2,430	2,650	1,520	1,760	2,190	e2,550	4,700	2,690	4,110	2,340	2,170	2,420
15	2,380	2,210	1,560	1,740	e2,140	e2,370	5,050	2,920	4,850	2,220	2,440	2,420
16	2,360	2,080	1,610	1,560	e1,950	e2,220	8,900	3,110	6,550	2,200	3,290	2,410
17	2,350	2,070	1,800	1,800	2,600	2,260	8,620	3,250	6,380	2,010	3,200	2,430
18	2,430	2,070	1,580	1,720	2,060	2,340	6,360	3,050	5,580	2,240	3,060	2,540
19	2,490	2,100	1,530	1,570	2,060	e2,480	4,110	2,660	4,180	2,320	3,350	2,550
20	2,550	2,090	1,590	1,990	2,180	2,400	3,860	3,010	4,070	2,320	3,260	2,350
21	2,470	2,070	1,740	1,710	2,460	2,380	3,730	2,880	3,820	2,320	3,260	2,370
22	2,500	2,130	1,640	1,830	2,250	1,890	4,700	2,760	3,880	2,180	3,260	2,420
23	2,530	2,100	1,590	1,770	2,240	2,410	6,450	2,690	3,980	2,340	3,340	2,450
24	2,340	2,440	1,520	1,980	2,710	2,510	6,530	2,460	3,220	2,360	3,260	2,670
25	2,500	2,200	1,490	2,200	2,370	2,180	6,200	3,280	3,200	2,140	3,180	2,180
26	2,240	1,990	1,530	2,090	e2,330	2,240	6,440	2,700	3,190	2,320	3,270	2,550
27	2,090	2,190	1,850	2,070	e2,880	2,420	4,800	2,750	3,200	2,270	2,350	2,370
28	2,410	2,080	1,730	2,320	e3,180	2,880	3,760	2,850	3,310	2,180	2,020	2,400
29	2,370	2,140	1,690	2,160	---	3,570	4,860	3,000	3,290	2,310	2,030	3,690
30	2,350	1,940	1,670	2,180	---	5,800	4,210	3,480	3,250	2,220	2,020	2,700
31	2,250	---	1,650	2,180	---	6,450	---	4,890	---	2,250	2,030	---
TOTAL	74,530	66,950	56,570	55,560	63,770	94,670	127,760	112,870	127,500	75,330	83,370	74,110
MEAN	2,404	2,232	1,825	1,792	2,278	3,054	4,259	3,641	4,250	2,430	2,689	2,470
MAX	2,610	3,030	2,290	2,320	3,180	6,450	8,900	7,080	7,740	3,110	3,610	3,690
MIN	2,090	1,940	1,490	1,480	1,950	1,890	1,650	2,460	3,190	2,010	2,020	2,140

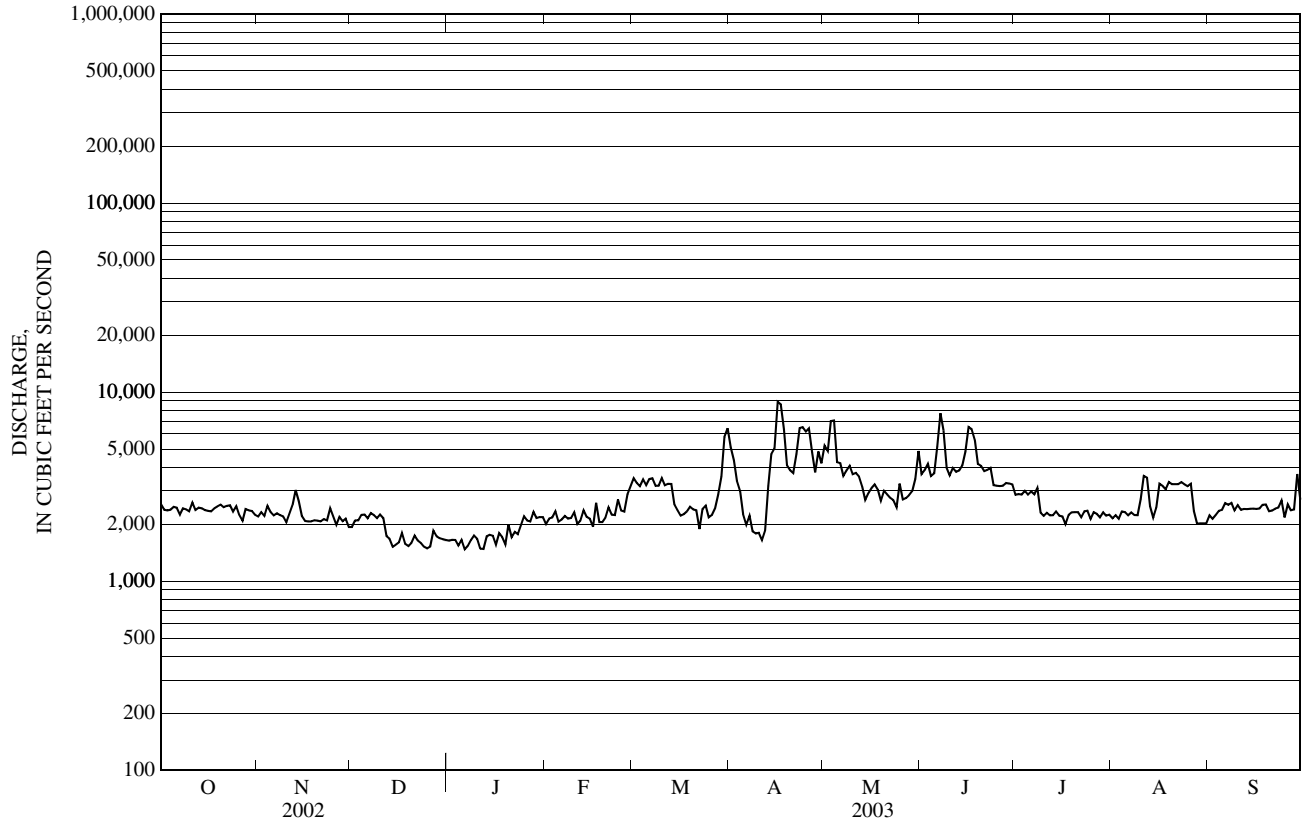
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2003, BY WATER YEAR (WY)

MEAN	3,403	3,542	3,497	3,594	3,848	4,267	7,250	8,842	4,877	3,659	3,255	3,278
MAX	9,319	9,740	12,510	7,684	8,898	15,070	16,080	22,160	13,600	11,540	6,428	10,140
(WY)	(1955)	(1908)	(1974)	(1970)	(1996)	(1936)	(1983)	(1974)	(1984)	(1996)	(1976)	(1954)
MIN	1,122	744	749	1,070	1,540	1,525	2,627	2,192	1,638	1,954	2,135	1,829
(WY)	(1909)	(1909)	(1909)	(1909)	(2002)	(1985)	(1981)	(1980)	(1988)	(1988)	(2002)	(1987)

e Estimated

01046500 KENNEBEC RIVER AT BINGHAM, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1908 - 2003	
ANNUAL TOTAL	1,059,370		1,012,990			
ANNUAL MEAN	2,902		2,775		4,444	
HIGHEST ANNUAL MEAN					7,881	1996
LOWEST ANNUAL MEAN					2,613	1980
HIGHEST DAILY MEAN	14,800	Apr 18	8,900	Apr 16	62,000	Jun 1, 1984
LOWEST DAILY MEAN	1,300	Jan 9	1,480	Jan 6	110	Dec 25, 1947
ANNUAL SEVEN-DAY MINIMUM	1,370	Jan 8	1,580	Jan 6	587	Nov 18, 1908
MAXIMUM PEAK FLOW			15,400	Apr 16	65,200	Jun 1, 1984
MAXIMUM PEAK STAGE			10.34	Apr 16	15.61	Jun 1, 1984
10 PERCENT EXCEEDS	4,670		4,070		7,630	
50 PERCENT EXCEEDS	2,340		2,370		3,450	
90 PERCENT EXCEEDS	1,420		1,750		2,160	



01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

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

DRAINAGE AREA.--353 mi^2.

PERIOD OF RECORD.--
DISCHARGE: November and December 1901, June 1902 to April 1907, August 1925 to current year. Monthly discharge only for some periods prior to 1925, published in WSP 1301.
CHEMICAL ANALYSES: Water years 1953-54, 1961.

REVISED RECORDS.--WSP 1231: 1904-07, 1928(M), 1932(M), 1936(M), 1938(M), 1944(M), 1950(M). WDR ME-81-1: Drainage area. WDR ME-97-1: 1992(M).

GAGE.--Water-stage recorder. Datum of gage is 302.88 ft above National Geodetic Vertical Datum of 1929. Nov. 1, 1901 to May 5, 1907, nonrecording gage 1 mi upstream at different datum.

REMARKS.--Records good, except for periods of ice effect, Nov. 3-10, 18-22, and Nov. 28 to Apr. 12, which are fair. Some minor regulation at low flows by mills above station. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,700 ft^3/s, Apr. 1, 1987, gage height, 26.66 ft, from rating extended above 27,000 ft^3/s on basis of slope-area measurements; maximum gage height, 27.78 ft, Feb. 21, 1978 (backwater from ice); minimum discharge, 18 ft^3/s, Oct. 29, 1929, gage height, 2.02 ft, caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	1030	Ice Jam	*13.84	Apr 16	0245	*3,740	7.29

Minimum discharge, 48 ft^3/s, Oct. 10-11 and 13, gage height, 2.49 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	118	e179	e146	e97	e107	e1,380	903	575	173	127	60
2	64	114	e163	e145	e121	e115	e1,110	1,450	634	148	137	57
3	56	e97	e148	e143	e145	e131	e934	2,950	578	110	152	54
4	51	e86	e136	e142	e139	e128	e782	1,880	441	104	136	84
5	53	e101	e128	e145	e152	e122	e674	1,120	392	104	108	154
6	56	e129	e121	e146	e135	e122	e588	884	1,610	117	263	158
7	62	e147	e116	e144	e126	e117	e519	1,020	1,300	118	448	135
8	56	e137	e111	e141	e121	e115	e476	955	885	159	323	121
9	51	e137	e108	e138	e117	e112	e446	805	590	233	255	97
10	49	e149	e105	e134	e113	e110	e430	730	563	171	414	61
11	48	259	e104	e131	e110	e107	e579	623	505	128	764	57
12	49	461	e105	e128	e108	e105	e833	760	430	259	504	54
13	49	518	e109	e125	e106	e102	1,790	1,120	364	221	357	53
14	59	570	e135	e122	e103	e101	1,760	1,330	1,200	203	265	54
15	72	401	e304	e119	e101	e99	1,930	971	1,890	174	209	51
16	74	322	e352	e117	e100	e98	3,620	777	1,250	156	173	59
17	355	264	e269	e115	e98	e96	2,620	644	750	135	157	211
18	379	e232	e220	e114	e96	e100	1,640	552	568	100	147	147
19	204	e214	e196	e113	e95	e113	1,070	485	468	90	138	100
20	220	e205	e202	e111	e95	e207	942	435	398	82	131	114
21	206	e197	e397	e110	e94	e327	1,280	394	333	77	114	202
22	148	e263	e596	e108	e99	e620	1,470	377	283	77	75	156
23	121	1,060	e441	e108	e130	e1,150	1,520	340	263	99	68	126
24	104	1,000	e342	e106	e131	e1,500	1,550	333	247	227	62	516
25	94	675	e278	e105	e119	e1,510	1,140	462	231	289	59	329
26	96	448	e237	e104	e113	e1,580	920	584	273	257	59	211
27	257	319	e207	e103	e110	e2,230	1,310	778	213	193	63	165
28	271	e259	e189	e101	e108	e2,540	1,510	749	219	173	60	167
29	187	e226	e172	e100	---	e2,420	1,320	619	203	156	56	441
30	148	e198	e159	e99	---	e2,610	1,160	610	178	141	58	430
31	128	---	e151	e98	---	e1,860	---	702	---	132	62	---
TOTAL	3,843	9,306	6,480	3,761	3,182	20,654	37,303	26,342	17,834	4,806	5,944	4,624
MEAN	124	310	209	121	114	666	1,243	850	594	155	192	154
MAX	379	1,060	596	146	152	2,610	3,620	2,950	1,890	289	764	516
MIN	48	86	104	98	94	96	430	333	178	77	56	51
CFSM	0.35	0.88	0.59	0.34	0.32	1.89	3.52	2.41	1.68	0.44	0.54	0.44
IN.	0.40	0.98	0.68	0.40	0.34	2.18	3.93	2.78	1.88	0.51	0.63	0.49

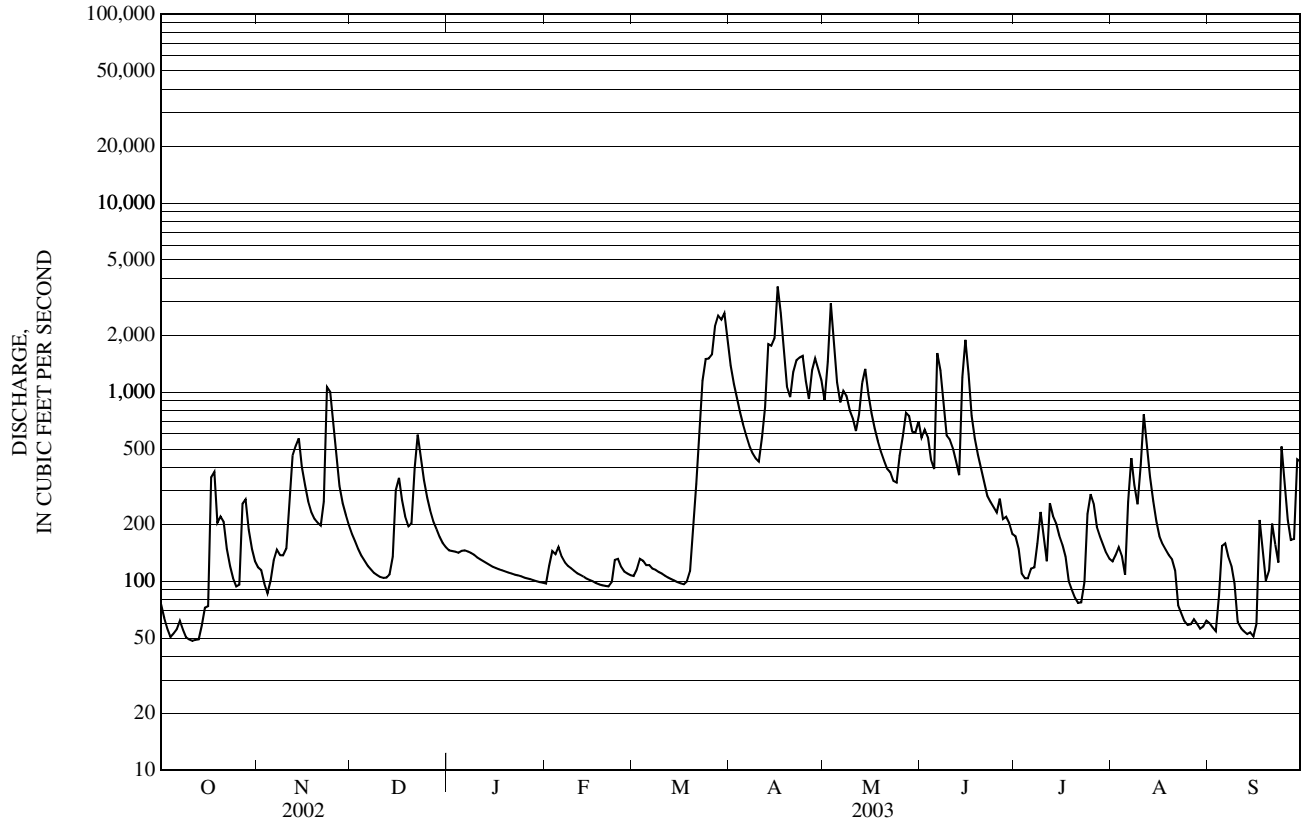
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2003, BY WATER YEAR (WY)

MEAN	487	756	594	372	326	840	2,326	1,546	617	327	217	238
MAX	2,606	2,492	3,565	1,633	1,922	4,750	4,009	3,694	2,916	2,201	1,124	1,768
(WY)	(1978)	(1964)	(1974)	(1996)	(1970)	(1936)	(1993)	(1972)	(1998)	(1996)	(1976)	(1954)
MIN	63.1	87.4	58.9	78.1	60.1	120	802	456	159	88.5	44.5	44.0
(WY)	(1948)	(2002)	(1979)	(1948)	(1948)	(1956)	(1981)	(1941)	(1964)	(1971)	(2002)	(1948)

e Estimated

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1903 - 2003	
ANNUAL TOTAL	162,114		144,079			
ANNUAL MEAN	444		395		721	
HIGHEST ANNUAL MEAN					1,288	1996
LOWEST ANNUAL MEAN					333	1941
HIGHEST DAILY MEAN	4,700	Apr 15	3,620	Apr 16	36,000	Apr 1, 1987
LOWEST DAILY MEAN	29	Sep 10	48	Oct 11	27	Aug 28, 1949
ANNUAL SEVEN-DAY MINIMUM	31	Sep 7	52	Oct 8	31	Sep 7, 2002
MAXIMUM PEAK FLOW			3,740	Apr 16	50,700	Apr 1, 1987
MAXIMUM PEAK STAGE			13.84	Mar 30	27.78	Feb 21, 1978
INSTANTANEOUS LOW FLOW			48	Oct 10	18	Oct 29, 1929
ANNUAL RUNOFF (CFSM)	1.26		1.12		2.04	
ANNUAL RUNOFF (INCHES)	17.08		15.18		27.75	
10 PERCENT EXCEEDS	1,060		1,110		1,750	
50 PERCENT EXCEEDS	197		158		312	
90 PERCENT EXCEEDS	44		77		96	



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.--516 mi^2.

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 1231: 1936(M). WDR ME-94-1: Drainage area.

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

REMARKS.--Records good, except for periods of ice effect, Nov. 17-21 and Nov. 27 to Apr. 11, which are fair. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft^3/s, Mar. 19, 1936, gage height, 16.75 ft, from rating curve extended above 15,000 ft^3/s on basis of records at nearby stations and slope-area measurement at gage-height 19.25 ft; maximum gage height, 18.89 ft, Feb. 12, 1979, from floodmark (backwater from ice); minimum discharge, 30 ft^3/s, Sep. 14-15, 2002, gage height, 2.27 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1, 1987 reached a stage of 19.25 ft, from floodmarks, discharge, 51,100 ft^3/s, from rating curve extended as explained above.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 27	1600	Ice Jam	*8.17	Mar 30	Unknown	*7,050[a]	7.79[a]

Minimum discharge, 50 ft^3/s, Oct. 13, gage height, 2.47 ft.
[a] Estimated

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	142	e215	e198	e108	e136	e2,460	1,160	779	198	129	82
2	94	127	e195	e191	e133	e139	e2,010	1,360	770	192	165	83
3	80	115	e178	e185	e166	e147	e1,700	3,450	706	180	243	79
4	70	101	e166	e182	e158	e141	e1,590	2,170	562	171	262	108
5	68	104	e156	e182	e170	e134	e1,220	1,540	523	160	229	234
6	64	118	e148	e186	e154	e134	e1,050	1,260	1,290	155	294	243
7	60	145	e141	e184	e143	e131	e957	1,400	1,330	151	795	174
8	63	150	e135	e180	e135	e127	e906	1,310	898	151	645	139
9	61	137	e130	e175	e130	e123	e829	1,070	739	223	471	118
10	57	141	e127	e171	e126	e119	e791	938	731	254	482	104
11	56	163	e125	e166	e122	e115	e981	843	699	197	1,520	94
12	54	393	e125	e160	e119	e112	1,410	929	554	257	928	86
13	53	596	e129	e155	e116	e110	2,410	1,470	473	363	832	80
14	69	766	e146	e151	e114	e110	2,280	1,500	1,220	259	670	77
15	68	536	e316	e147	e111	e108	2,050	1,380	2,660	201	504	75
16	77	392	e464	e144	e110	e106	3,630	1,070	1,470	169	404	81
17	139	e329	e390	e140	e108	e108	2,790	882	954	149	333	116
18	308	e301	e317	e137	e107	e120	1,800	770	709	147	274	263
19	271	e282	e258	e134	e107	e173	1,400	709	577	155	227	184
20	200	e269	e251	e130	e108	e325	1,260	627	491	146	200	172
21	198	e261	e439	e127	e112	e437	1,390	558	408	131	174	335
22	192	362	e613	e124	e124	e843	1,460	516	351	120	154	353
23	155	988	e564	e122	e151	e1,610	1,570	480	317	131	138	255
24	134	1,240	e452	e119	e169	e2,090	1,640	456	298	265	126	710
25	119	782	e372	e117	e174	e2,220	1,460	559	276	370	115	799
26	114	577	e321	e114	e165	e2,060	1,180	755	245	448	106	472
27	138	e454	e286	e113	e150	e2,670	1,940	1,070	224	316	99	363
28	285	e335	e258	e111	e141	e3,360	2,360	1,160	281	239	95	325
29	248	e286	e238	e110	---	e3,120	1,730	917	301	198	90	625
30	189	e240	e220	e109	---	e5,040	1,450	822	233	170	85	713
31	161	---	e208	e109	---	e4,070	---	871	---	145	80	---
TOTAL	3,964	10,832	8,083	4,573	3,731	30,238	49,704	34,002	21,069	6,411	10,869	7,542
MEAN	128	361	261	148	133	975	1,657	1,097	702	207	351	251
MAX	308	1,240	613	198	174	5,040	3,630	3,450	2,660	448	1,520	799
MIN	53	101	125	109	107	106	791	456	224	120	80	75
CFSM	0.25	0.70	0.51	0.29	0.26	1.89	3.21	2.13	1.36	0.40	0.68	0.49
IN.	0.29	0.78	0.58	0.33	0.27	2.18	3.58	2.45	1.52	0.46	0.78	0.54

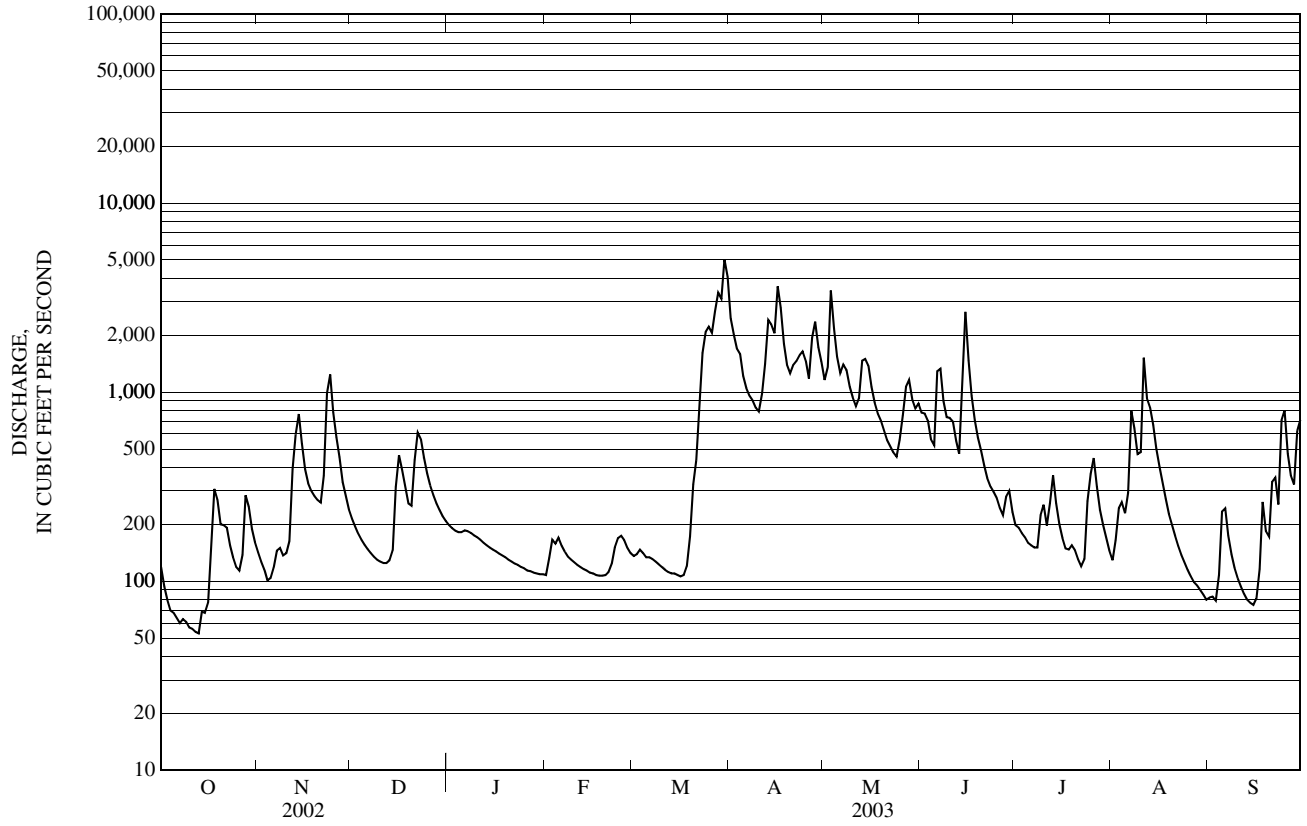
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	542	947	821	545	497	1,248	3,384	1,897	787	396	243	274
MAX	3,057	2,947	4,315	2,285	3,322	6,479	5,399	4,105	3,824	2,300	1,439	2,664
(WY)	(1978)	(1964)	(1974)	(1978)	(1970)	(1936)	(1951)	(1972)	(1998)	(1996)	(1976)	(1954)
MIN	61.1	107	85.8	100	87.7	242	1,334	480	202	95.9	60.4	52.7
(WY)	(1948)	(1979)	(1979)	(1948)	(1948)	(1956)	(1995)	(1941)	(1941)	(1993)	(2002)	(1995)

e Estimated

01048000 SANDY RIVER NEAR MERCER, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	247,489		191,018			
ANNUAL MEAN	678		523		966	
HIGHEST ANNUAL MEAN					1,583	1974
LOWEST ANNUAL MEAN					436	1941
HIGHEST DAILY MEAN	7,280	Apr 15	5,040	Mar 30	31,400	Mar 27, 1953
LOWEST DAILY MEAN	30	Sep 14	53	Oct 13	30	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	32	Sep 9	58	Oct 7	32	Sep 9, 2002
MAXIMUM PEAK FLOW			7,050	Mar 30	38,600	Mar 19, 1936
MAXIMUM PEAK STAGE			8.17	Mar 27	18.89	Feb 12, 1979
INSTANTANEOUS LOW FLOW			50	Oct 13	30	Sep 14, 2002
ANNUAL RUNOFF (CFSM)	1.31		1.01		1.87	
ANNUAL RUNOFF (INCHES)	17.84		13.77		25.44	
10 PERCENT EXCEEDS	1,810		1,400		2,440	
50 PERCENT EXCEEDS	258		215		420	
90 PERCENT EXCEEDS	53		108		111	



01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

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

DRAINAGE AREA.--572 mi^2.

PERIOD OF RECORD.--
DISCHARGE: November 1928 to current year.
CHEMICAL ANALYSES: Water years 1952-53.

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

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

REMARKS.-- Records good, except for periods of ice effect, Jan. 8-9, 15-16, 18, 22, Feb. 12-16, 23-28, Mar. 4, and 7-11, 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 billion ft^3. Satellite gage-height telemeter at station.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,810 ft^3/s, Apr. 2, gage height, 8.30 ft; minimum daily discharge, 54 ft^3/s, July 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	404	92	981	601	136	135	6,130	1,900	1,060	54	111	78
2	357	148	866	406	156	132	6,280	1,740	1,470	161	101	107
3	363	126	711	307	187	171	5,950	1,780	1,600	80	108	233
4	285	125	213	343	195	e148	5,050	1,870	1,280	57	154	349
5	281	95	161	362	224	147	4,240	1,900	870	66	163	335
6	310	85	189	473	223	146	3,640	1,820	994	100	134	341
7	291	237	258	536	221	e150	3,200	1,960	1,180	105	103	363
8	222	201	297	e270	220	e172	2,450	1,890	1,260	175	89	355
9	267	218	247	e270	174	e191	1,700	1,550	1,220	134	99	386
10	307	260	226	373	184	e195	1,180	1,350	1,090	94	82	371
11	283	277	239	343	221	e152	986	1,230	946	120	138	352
12	142	275	213	326	e161	95	1,110	1,520	835	116	121	372
13	165	454	218	315	e162	103	1,450	1,470	760	161	145	379
14	233	566	224	312	e156	162	1,650	1,100	766	107	217	365
15	262	525	626	e212	e152	137	1,670	918	899	108	266	352
16	263	613	1,030	e279	e159	98	1,720	868	1,000	117	274	475
17	152	477	923	315	166	131	1,790	836	1,050	124	271	658
18	179	621	841	e224	166	144	1,810	824	1,020	124	273	787
19	194	662	764	194	162	156	1,780	858	976	101	392	800
20	153	650	692	244	159	275	1,710	869	1,230	70	183	868
21	164	705	865	209	159	404	1,620	675	1,150	67	77	837
22	163	761	1,490	e210	141	539	1,490	499	780	80	127	761
23	165	1,040	1,620	178	e201	780	1,400	217	635	108	262	642
24	164	1,340	1,550	192	e201	1,370	1,270	406	507	141	104	688
25	163	1,450	1,390	179	e144	1,840	1,260	456	510	139	225	600
26	162	1,580	1,220	167	e139	2,390	1,290	475	299	90	116	628
27	161	1,590	1,050	175	e59	2,980	1,600	418	191	78	73	559
28	161	1,440	969	189	e95	3,540	1,950	542	170	74	66	594
29	161	1,260	870	178	---	4,430	1,810	400	121	95	62	895
30	152	1,110	783	161	---	5,410	1,760	287	126	138	65	966
31	138	---	668	151	---	5,990	---	689	---	140	69	---
TOTAL	6,867	18,983	22,394	8,694	4,723	32,713	70,946	33,317	25,995	3,324	4,670	15,496
MEAN	222	633	722	280	169	1,055	2,365	1,075	866	107	151	517
MAX	404	1,590	1,620	601	224	5,990	6,280	1,960	1,600	175	392	966
MIN	138	85	161	151	59	95	986	217	121	54	62	78

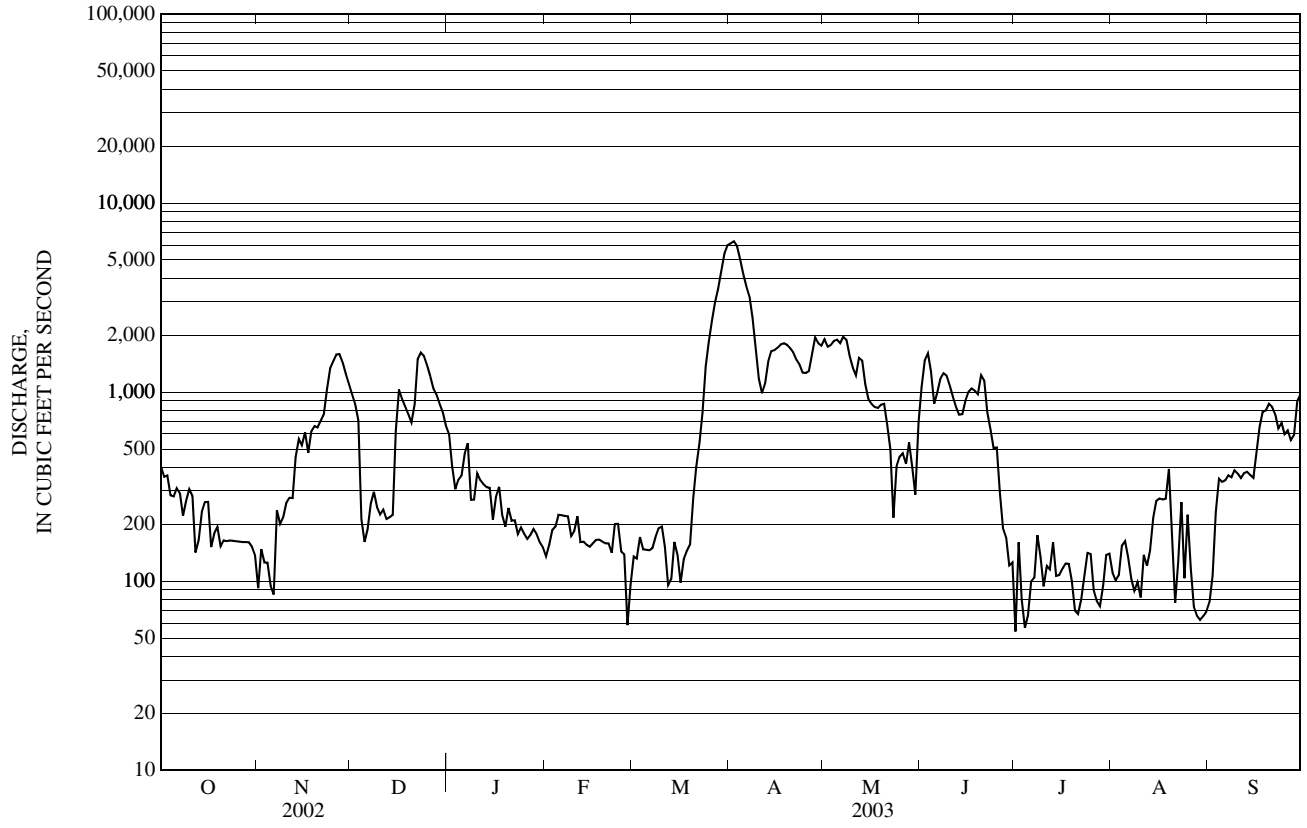
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	462	873	1,011	683	663	1,343	3,343	1,401	638	345	265	417
MAX	2,654	2,913	4,609	2,260	3,576	5,764	5,768	3,202	3,659	1,914	1,708	3,447
(WY)	(1978)	(1964)	(1974)	(1978)	(1970)	(1936)	(1934)	(1945)	(1984)	(1973)	(1976)	(1954)
MIN	76.6	25.0	46.3	92.3	82.2	303	882	242	160	74.1	53.5	62.1
(WY)	(1979)	(2002)	(2002)	(2002)	(1993)	(1967)	(1981)	(1999)	(1992)	(1983)	(1982)	(1982)

e Estimated

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	269,958		248,122			
ANNUAL MEAN	740		680		950	
HIGHEST ANNUAL MEAN					1,645	1954
LOWEST ANNUAL MEAN					437	1985
HIGHEST DAILY MEAN	5,250	Apr 6	6,280	Apr 2	17,200	Apr 3, 1987
LOWEST DAILY MEAN	19	Aug 14	54	Jul 1	4.5	Nov 10, 1956
ANNUAL SEVEN-DAY MINIMUM	21	Aug 14	74	Aug 27	6.6	Nov 6, 1965
MAXIMUM PEAK FLOW			6,810	Apr 2	17,600	Apr 3, 1987
MAXIMUM PEAK STAGE			8.30	Apr 2	15.53	Apr 3, 1987
10 PERCENT EXCEEDS	1,930		1,610		2,430	
50 PERCENT EXCEEDS	357		287		477	
90 PERCENT EXCEEDS	63		106		110	



01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME

LOCATION.--Lat 44°28'21", long 69°41'09", Kennebec County, Hydrologic Unit 01030003, on right bank at North Sidney, 5.3 mi downstream from Sebasticook River.

DRAINAGE AREA.--5,403 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1978 to September 1993. October 2000 to current year. Records for October 1993 to September 2000 at site 4 miles upstream, published as "near Waterville" (station 01049205), are not equivalent because of regulated inflow from Messalonskee stream, except for discharges above 25,000 ft^3/s.
GAGE HEIGHT: February 2000 to September 2000.
CHEMICAL ANALYSES: Water years 1979-93, 1995, 1999-2000.
SPECIFIC CONDUCTANCE: October 1978 to October 1984, seasonal records 1984 to 1994.
pH: October 1978 to October 1984, seasonal records 1984 to 1994.
WATER TEMPERATURE: October 1978 to October 1984, seasonal records 1984 to 1994.
DISSOLVED OXYGEN: October 1978 to October 1984, seasonal records 1984 to 1994.

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.

REMARKS.--Records good, except for periods of ice effect, Nov. 17-22, Nov. 26 to Mar. 26, and periods of no gage-height record, Dec. 28, Jan. 3, and Jan. 15-17, which are fair. Flow regulated by Indian and Plymouth Ponds, and Moosehead, Brassua, Flagstaff, Wyman, Great Moose, and Sebasticook Lakes, combined capacity about 50.318 billion ft^3. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 232,000 ft^3/s, Apr. 2, 1987, gage height, 39.31 ft; minimum daily discharge, 1,160 ft^3/s, July 7, 1988, caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,200 ft^3/s, Mar. 30, gage height, 12.71 ft; minimum daily discharge, 2,420 ft^3/s, Aug. 28.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,260	3,170	e4,410	e3,000	e2,680	e3,500	24,800	11,000	9,360	4,480	3,150	2,570
2	3,430	2,890	e4,060	e2,840	e2,920	e3,710	21,600	11,300	8,120	4,240	3,420	2,780
3	3,170	2,840	e3,760	e2,650	e2,950	e3,890	19,100	18,700	8,220	4,220	3,520	2,530
4	2,990	2,890	e3,260	e2,900	e2,930	e3,740	16,700	19,600	7,660	4,210	3,620	3,650
5	3,050	3,650	e3,020	e2,800	e3,000	e3,920	14,000	13,800	6,760	4,050	3,510	3,370
6	2,930	3,280	e2,980	e2,760	e3,030	e3,770	11,700	11,300	10,900	4,540	3,370	3,760
7	3,060	3,370	e3,190	e2,880	e2,910	e3,850	10,800	11,800	13,300	4,170	4,190	3,520
8	3,130	3,440	e3,200	e2,810	e2,840	e3,760	9,800	11,500	12,900	4,610	4,270	3,640
9	2,800	3,290	e3,210	e2,750	e2,820	e3,840	8,540	10,100	9,190	4,350	3,700	3,340
10	2,900	3,180	e3,210	e2,590	e2,830	e3,860	6,530	8,880	8,020	3,760	3,850	3,230
11	3,670	3,350	e3,080	e2,600	e2,740	e3,900	7,020	8,300	7,380	3,500	6,150	3,300
12	3,650	3,850	e2,840	e2,570	e2,680	e3,850	7,970	9,270	7,660	3,670	7,590	3,250
13	2,850	5,760	e2,530	e2,520	e2,630	e3,690	10,900	10,700	7,130	3,950	4,990	3,120
14	3,610	6,590	e2,730	e2,470	e2,580	e3,080	14,300	10,000	7,920	3,650	4,970	3,200
15	3,180	5,800	e3,940	e2,450	e2,570	e2,800	14,100	9,680	13,800	3,630	3,890	3,200
16	3,450	4,760	e4,930	e2,430	e2,530	e2,920	18,200	7,650	14,000	3,420	4,120	3,320
17	3,700	e4,310	e4,760	e2,480	e2,600	e3,010	22,200	5,380	13,000	3,200	4,530	3,360
18	4,660	e4,190	e4,060	e2,430	e2,630	e2,920	16,200	6,630	9,800	3,360	4,540	4,020
19	4,020	e4,020	e3,580	e2,440	e2,590	e2,890	12,000	5,530	8,950	3,060	4,290	4,160
20	4,330	e3,980	e3,570	e2,430	e2,580	e3,290	10,700	6,190	7,610	3,310	4,240	4,380
21	3,890	e3,950	e4,940	e2,460	e2,760	e4,420	10,400	5,560	6,840	3,370	4,280	4,110
22	3,480	e4,680	e6,590	e2,440	e2,720	e5,770	10,900	5,190	6,850	2,970	3,950	4,290
23	3,520	9,480	e6,270	e2,510	e2,950	e8,670	13,100	4,740	6,180	3,360	4,090	3,910
24	3,290	10,200	e5,510	e2,490	e3,160	e11,500	14,600	4,640	5,700	3,600	3,720	4,500
25	2,900	8,220	e4,950	e2,450	e2,940	e12,400	14,000	5,030	5,200	4,090	3,960	5,240
26	3,070	e6,560	e4,530	e2,660	e2,980	e12,400	12,100	5,740	5,210	3,910	3,790	4,800
27	3,170	e6,000	e4,010	e2,640	e3,310	17,400	13,200	6,400	4,990	3,820	3,740	4,010
28	3,660	e5,240	e3,740	e2,630	e3,530	20,500	13,200	6,980	4,890	3,530	2,420	3,940
29	3,770	e4,640	e3,660	e2,750	---	22,600	12,700	7,150	4,700	3,290	2,460	6,890
30	3,360	e4,490	e3,340	e2,870	---	30,300	11,800	6,550	4,810	3,250	2,610	9,170
31	3,220	---	e3,140	e2,800	---	32,900	---	7,200	---	3,280	2,460	---
TOTAL	105,170	142,070	121,000	81,500	79,390	249,050	403,160	272,490	247,050	115,850	123,390	118,560
MEAN	3,393	4,736	3,903	2,629	2,835	8,034	13,440	8,790	8,235	3,737	3,980	3,952
MAX	4,660	10,200	6,590	3,000	3,530	32,900	24,800	19,600	14,000	4,610	7,590	9,170
MIN	2,800	2,840	2,530	2,430	2,530	2,800	6,530	4,640	4,700	2,970	2,420	2,530

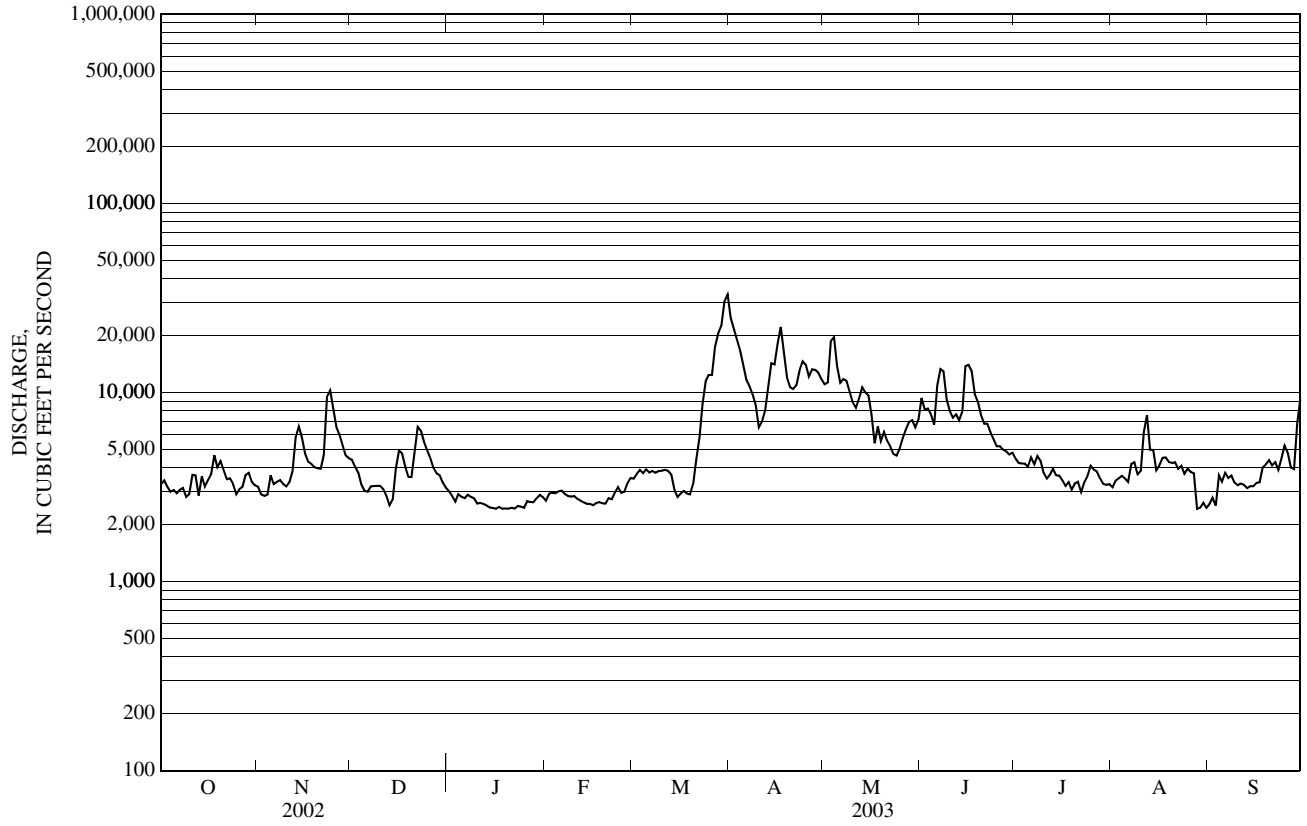
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2003, BY WATER YEAR (WY)

MEAN	6,279	7,986	7,360	5,778	6,043	10,770	22,280	13,800	8,853	5,032	4,589	4,965
MAX	15,020	17,620	17,660	12,230	10,200	22,470	36,430	25,530	29,420	10,550	7,196	7,636
(WY)	(1982)	(1991)	(1991)	(1986)	(1981)	(1979)	(1983)	(1989)	(1984)	(1984)	(1991)	(1981)
MIN	2,830	2,576	2,483	1,893	2,835	4,995	7,110	6,016	3,252	3,362	2,734	3,153
(WY)	(2002)	(2002)	(2002)	(2002)	(2003)	(1989)	(1981)	(1985)	(1988)	(1980)	(2002)	(2000)

e Estimated

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1979 - 2003	
ANNUAL TOTAL	2,288,740		2,058,680			
ANNUAL MEAN	6,271		5,640		8,544	
HIGHEST ANNUAL MEAN					13,730	1984
LOWEST ANNUAL MEAN					5,617	1985
HIGHEST DAILY MEAN	37,100	Apr 16	32,900	Mar 31	186,000	Apr 2, 1987
LOWEST DAILY MEAN	1,510	Jan 10	2,420	Aug 28	1,160	Jul 7, 1988
ANNUAL SEVEN-DAY MINIMUM	1,640	Jan 5	2,440	Jan 16	1,640	Jan 5, 2002
MAXIMUM PEAK FLOW			35,200	Mar 30	232,000	Apr 2, 1987
MAXIMUM PEAK STAGE			12.71	Mar 30	39.31	Apr 2, 1987
10 PERCENT EXCEEDS	12,200		11,600		16,500	
50 PERCENT EXCEEDS	4,310		3,850		5,770	
90 PERCENT EXCEEDS	2,110		2,680		3,380	



01049320 KENNEBEC RIVER AT FATHER CURRAN BRIDGE AT AUGUSTA, ME

LOCATION.--Lat 44°19'06", long 69°46'17", Kennebec County, Hydrologic Unit 01030003, on left bank, 600 ft upstream from Father Curran Bridge, and 600 ft downstream from Bond Brook.

DRAINAGE AREA.--5,513 mi^2.

PERIOD OF RECORD.--
GAGE HEIGHT: June 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage height affected by ocean tides. Flow regulated by Indian and Plymouth Ponds, and Moosehead, Brassua, Flagstaff, Wyman, Great Moose, and Sebasticook Lakes, combined capacity about 50.318 billion ft^3. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 16.29 ft, June 15, 1998; minimum gage height, -2.88 ft, Aug. 21, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1987 reached a stage of 34.1 ft, from flood marker 200 ft downstream from gage. Flood of March 1936 reached a stage of 30.7 ft from flood marks 0.3 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.84 ft, Mar. 26; minimum gage height, -2.65 ft, Aug. 31.

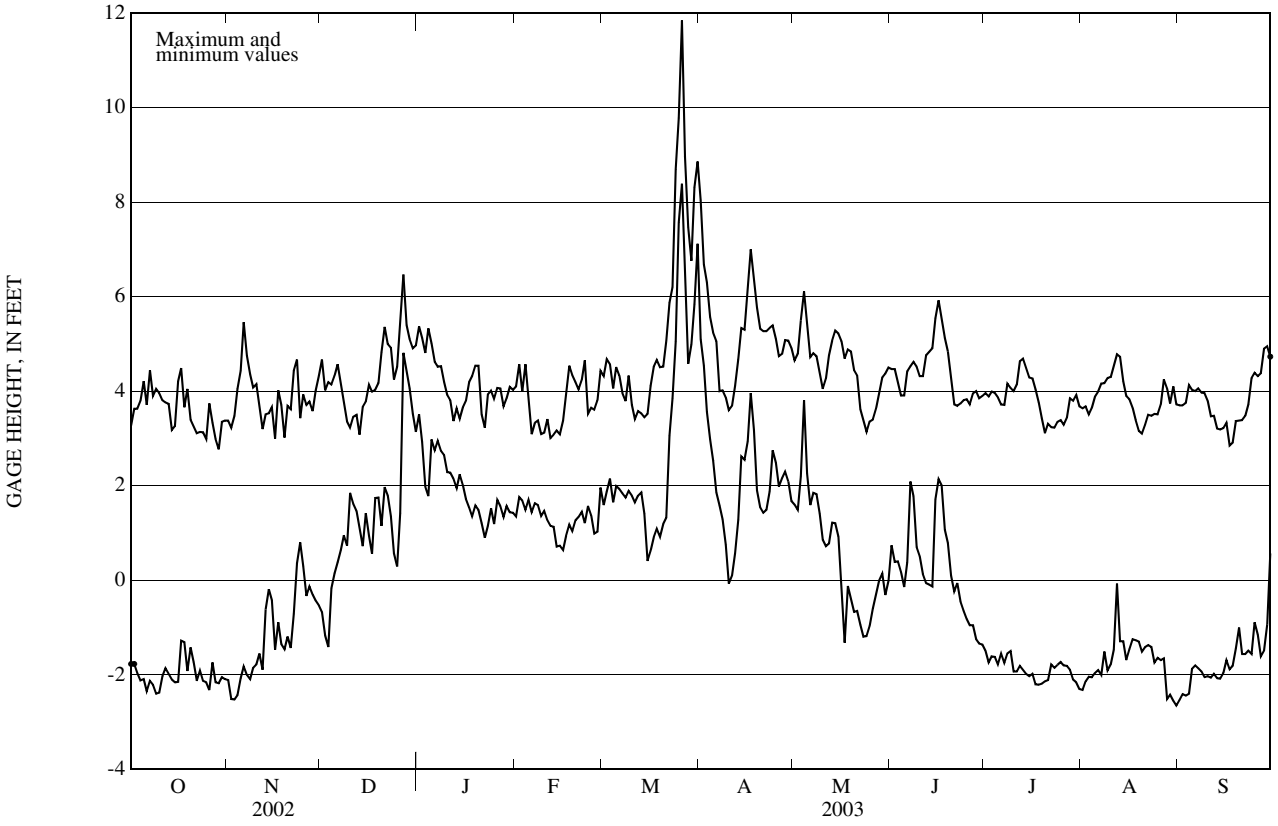
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.27	-1.77	3.38	-2.11	4.67	-0.67	5.37	3.51	4.10	1.35	4.32	1.59
2	3.63	-1.77	3.23	-2.51	4.02	-1.17	5.13	2.93	4.57	1.76	4.68	1.88
3	3.63	-1.96	3.48	-2.52	4.19	-1.41	4.81	1.98	3.99	1.69	4.57	2.15
4	3.80	-2.12	4.05	-2.43	4.14	-0.17	5.33	1.78	4.57	1.49	4.06	1.65
5	4.21	-2.09	4.43	-2.07	4.33	0.15	5.01	2.98	3.87	1.70	4.51	1.99
6	3.71	-2.35	5.46	-1.82	4.57	0.38	4.62	2.75	3.09	1.44	4.33	1.93
7	4.44	-2.13	4.75	-2.00	4.15	0.64	4.52	2.95	3.33	1.63	3.96	1.84
8	3.90	-2.21	4.36	-2.09	3.75	0.95	4.53	2.74	3.38	1.59	3.79	1.75
9	4.05	-2.40	4.08	-1.85	3.36	0.73	4.20	2.65	3.09	1.36	4.33	1.89
10	3.96	-2.38	4.15	-1.78	3.23	1.85	3.92	2.29	3.12	1.47	3.71	1.79
11	3.81	-2.03	3.66	-1.55	3.46	1.62	3.81	2.28	3.41	1.27	3.41	1.65
12	3.76	-1.86	3.20	-1.89	3.50	1.47	3.37	2.15	3.01	1.15	3.58	1.79
13	3.73	-1.98	3.51	-0.62	3.08	1.10	3.64	1.95	3.08	1.13	3.53	1.86
14	3.18	-2.10	3.53	-0.19	3.67	0.72	3.42	2.24	3.17	0.71	3.45	1.41
15	3.26	-2.16	3.66	-0.42	3.78	1.42	3.66	2.01	3.09	0.73	3.52	0.41
16	4.21	-2.15	3.00	-1.47	4.14	0.94	3.80	1.72	3.38	0.64	4.11	0.62
17	4.49	-1.28	4.02	-0.89	3.99	0.56	4.19	1.54	3.94	0.94	4.52	0.91
18	3.66	-1.31	3.71	-1.35	4.03	1.74	4.32	1.35	4.54	1.18	4.66	1.09
19	4.05	-1.92	3.02	-1.46	4.17	1.75	4.54	1.58	4.34	1.04	4.51	0.92
20	3.40	-1.42	3.69	-1.19	4.82	1.15	4.54	1.49	4.19	1.27	4.52	1.19
21	3.26	-1.73	3.62	-1.43	5.36	1.97	3.51	1.21	4.04	1.34	5.06	1.32
22	3.11	-2.13	4.43	-0.71	5.00	1.80	3.23	0.90	4.24	1.45	5.87	3.06
23	3.14	-1.91	4.67	0.36	4.92	1.35	3.93	1.15	4.65	1.21	6.20	3.85
24	3.13	-2.13	3.43	0.80	4.25	0.57	4.01	1.52	3.52	1.57	8.70	5.05
25	2.99	-2.16	3.93	0.30	4.52	0.29	3.84	1.19	3.65	1.37	9.78	7.57
26	3.74	-2.32	3.71	-0.33	5.36	1.42	4.07	1.70	3.61	0.99	11.84	8.39
27	3.33	-1.74	3.78	-0.13	6.47	4.81	4.06	1.57	3.81	1.03	8.96	6.35
28	2.99	-2.16	3.58	-0.30	5.40	4.44	3.68	1.34	4.43	1.96	7.47	4.58
29	2.77	-2.18	4.02	-0.43	5.10	4.06	3.85	1.57	---	---	6.76	4.99
30	3.35	-2.05	4.33	-0.53	4.91	3.52	4.09	1.44	---	---	8.31	5.84
31	3.38	-2.09	---	---	4.97	3.14	4.03	1.43	---	---	8.86	7.12
MONTH	4.49	-2.40	5.46	-2.52	6.47	-1.41	5.37	0.90	4.65	0.64	11.84	0.41

01049320 KENNEBEC RIVER AT FATHER CURRAN BRIDGE AT AUGUSTA, ME—Continued

GAGE HEIGHT, FEET—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.04	5.10	4.65	1.60	4.47	0.74	3.96	-1.49	3.64	-2.32	3.70	-2.53
2	6.68	4.54	4.79	1.49	4.47	0.39	3.89	-1.74	3.68	-2.14	3.70	-2.41
3	6.30	3.56	5.50	2.20	4.19	0.40	3.99	-1.61	3.51	-2.04	3.75	-2.44
4	5.57	2.98	6.11	3.81	3.91	0.18	3.96	-1.62	3.65	-2.05	4.13	-2.40
5	5.24	2.53	5.44	2.26	3.91	-0.14	3.87	-1.78	3.89	-1.96	4.03	-1.87
6	5.06	1.86	4.72	1.59	4.42	0.38	3.72	-1.55	3.99	-1.90	4.00	-1.80
7	4.00	1.58	4.80	1.85	4.53	2.09	3.71	-1.75	4.16	-2.00	4.06	-1.86
8	4.02	1.29	4.74	1.82	4.62	1.78	4.16	-1.55	4.17	-1.51	3.97	-1.93
9	3.87	0.75	4.38	1.41	4.52	0.70	4.07	-1.50	4.28	-1.91	3.96	-2.05
10	3.60	-0.07	4.05	0.86	4.32	0.51	4.00	-1.93	4.30	-1.78	3.80	-2.03
11	3.69	0.10	4.27	0.72	4.32	0.13	4.14	-1.93	4.54	-1.47	3.47	-2.06
12	4.11	0.57	4.76	0.78	4.76	-0.06	4.63	-1.81	4.78	-0.07	3.48	-1.98
13	4.68	1.28	5.07	1.22	4.83	-0.09	4.69	-1.90	4.73	-1.29	3.21	-2.07
14	5.34	2.62	5.28	1.21	4.91	-0.13	4.50	-1.98	4.21	-1.29	3.19	-2.08
15	5.30	2.55	5.22	0.92	5.54	1.71	4.29	-2.03	3.90	-1.69	3.22	-1.96
16	6.16	2.94	5.06	-0.33	5.92	2.14	4.27	-1.98	3.83	-1.46	3.33	-1.69
17	7.00	3.96	4.69	-1.32	5.53	2.01	4.04	-2.20	3.65	-1.25	2.85	-1.88
18	6.35	3.18	4.88	-0.12	5.13	1.07	3.76	-2.21	3.39	-1.27	2.91	-1.81
19	5.77	1.90	4.84	-0.39	4.84	0.79	3.43	-2.19	3.16	-1.30	3.37	-1.44
20	5.32	1.54	4.44	-0.67	4.26	0.10	3.11	-2.14	3.10	-1.51	3.38	-1.00
21	5.27	1.43	4.33	-0.65	3.72	-0.24	3.31	-2.11	3.29	-1.41	3.39	-1.56
22	5.27	1.49	3.62	-0.94	3.69	-0.06	3.24	-1.78	3.50	-1.37	3.48	-1.56
23	5.34	1.88	3.38	-1.19	3.74	-0.45	3.23	-1.85	3.48	-1.41	3.72	-1.49
24	5.39	2.75	3.14	-1.18	3.81	-0.64	3.35	-1.79	3.52	-1.74	4.28	-1.56
25	5.11	2.49	3.36	-0.97	3.83	-0.82	3.39	-1.73	3.51	-1.64	4.39	-0.89
26	4.74	1.98	3.40	-0.60	3.72	-0.95	3.29	-1.80	3.72	-1.69	4.32	-1.15
27	4.79	2.16	3.63	-0.29	3.95	-0.95	3.44	-1.81	4.25	-1.65	4.38	-1.61
28	5.08	2.30	3.94	-0.01	4.00	-1.25	3.85	-1.89	4.06	-2.51	4.90	-1.49
29	5.07	2.09	4.29	0.14	3.85	-1.34	3.80	-2.10	3.74	-2.42	4.95	-0.93
30	4.92	1.68	4.37	-0.31	3.90	-1.36	3.92	-2.16	4.10	-2.55	4.73	0.57
31	---	---	4.50	-0.01	---	---	3.68	-2.30	3.72	-2.65	---	---
MONTH	8.04	-0.07	6.11	-1.32	5.92	-1.36	4.69	-2.30	4.78	-2.65	4.95	-2.53
YEAR	11.84	-2.65										



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 mi^2.

PERIOD OF RECORD.--
DISCHARGE: June 1890 to September 1964, October 1976 to current year. Only data from 1906 to current year is used in long term statistical analyses. Earlier data does not include leakage.
CHEMICAL ANALYSES: Water years 1954-56.

REVISED RECORDS.--WSP 541: 1916-20. WSP 1201: Drainage area. WSP 1231: 1910-15. WSP 1701: 1956-59. WDR ME-97-1: 1891-1935(M) 1937-64(M) 1979(M).

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

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Cobbosseecontee Lake and several other lakes upstream.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,020 ft^3/s, Mar. 21, 1936; minimum discharge, leakage only when all gates in dam were closed several days in 1890-1909.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,250 ft^3/s, Mar. 30, gage height, 6.23 ft; minimum daily discharge, 47 ft^3/s, July 29-31.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

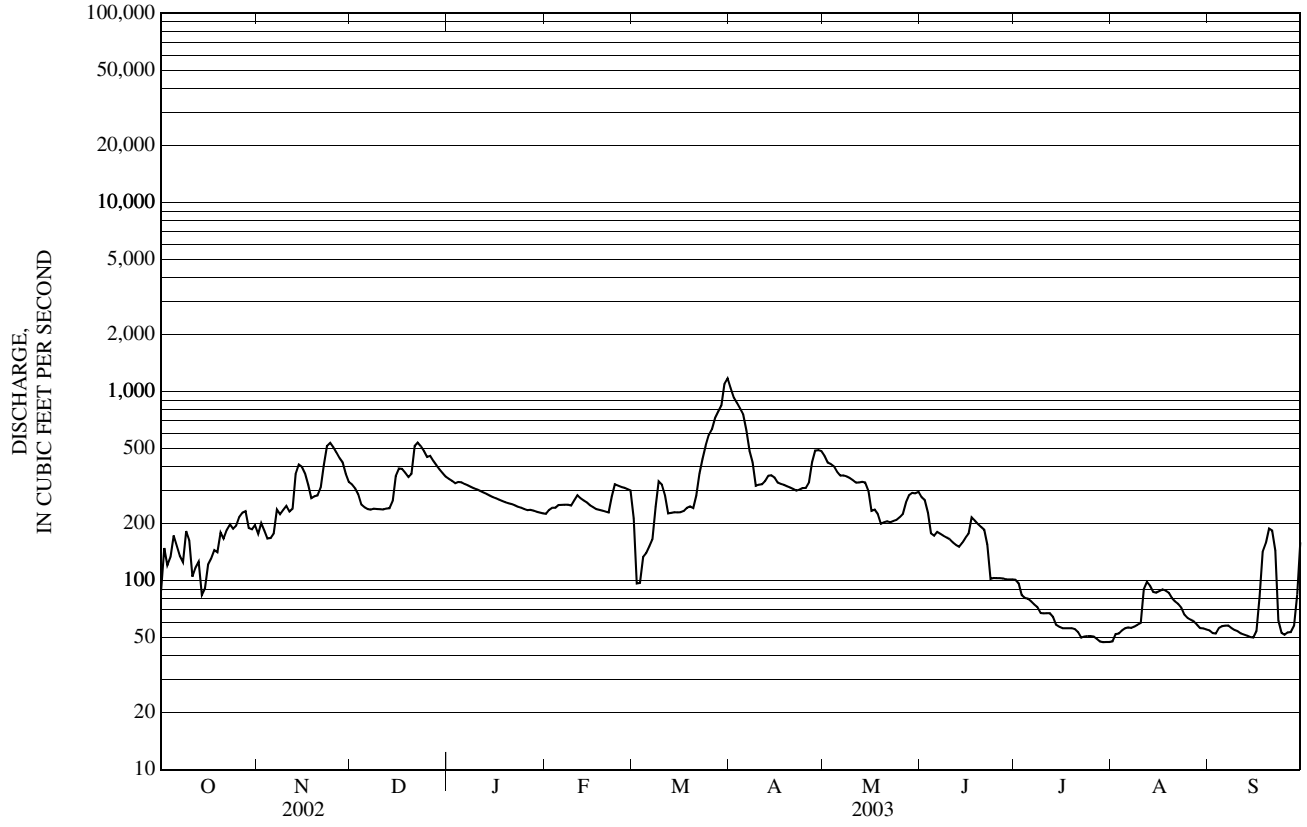
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	177	322	345	226	214	1,040	456	276	101	48	55
2	148	202	307	337	237	97	928	421	266	97	52	53
3	120	184	286	327	243	97	872	413	228	84	52	52
4	133	167	252	333	243	133	813	401	178	81	54	56
5	173	168	244	331	251	140	757	376	173	80	56	57
6	153	177	239	324	252	152	625	359	181	78	56	58
7	135	238	237	319	252	165	485	360	177	75	56	58
8	125	224	240	313	252	245	422	356	173	72	57	56
9	183	236	239	307	250	335	317	349	169	67	58	55
10	164	248	238	303	265	322	322	340	165	67	60	54
11	105	232	238	298	283	284	324	329	159	67	90	52
12	117	240	240	292	273	227	336	330	154	67	99	52
13	126	365	241	287	266	228	358	333	151	64	94	51
14	84	411	264	281	260	230	361	330	159	58	87	50
15	91	400	357	276	251	230	351	299	168	57	86	50
16	121	368	392	272	245	230	330	233	177	56	88	54
17	131	320	390	267	239	233	325	237	216	56	90	83
18	145	273	372	264	237	242	321	225	208	56	89	142
19	141	280	353	260	234	247	316	200	199	56	86	158
20	179	282	367	256	232	242	311	203	192	55	81	189
21	167	311	515	254	229	282	305	206	186	53	78	184
22	186	407	536	250	279	369	299	203	155	50	75	144
23	198	515	513	246	323	440	303	207	102	51	72	62
24	188	535	485	243	318	518	308	209	103	51	66	53
25	195	509	451	239	313	588	309	216	103	51	63	52
26	217	476	457	236	310	632	330	225	103	51	62	53
27	228	445	429	237	304	721	424	259	103	49	61	53
28	233	421	406	235	300	782	487	283	101	48	58	58
29	189	368	387	231	---	844	490	291	101	47	56	85
30	187	332	369	229	---	1,100	484	289	101	47	56	159
31	197	---	354	227	---	1,180	---	295	---	47	55	---
TOTAL	4,847	9,511	10,720	8,619	7,367	11,749	13,653	9,233	4,927	1,939	2,141	2,338
MEAN	156	317	346	278	263	379	455	298	164	62.5	69.1	77.9
MAX	233	535	536	345	323	1,180	1,040	456	276	101	99	189
MIN	84	167	237	227	226	97	299	200	101	47	48	50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2003, BY WATER YEAR (WY)

MEAN	252	266	329	285	302	538	938	457	306	187	166	192
MAX	1,039	879	1,517	750	975	2,086	2,386	1,331	1,720	810	285	905
(WY)	(1978)	(1978)	(1984)	(1978)	(1996)	(1936)	(1920)	(1989)	(1917)	(1996)	(1906)	(1954)
MIN	55.0	41.2	39.7	70.5	97.5	126	227	46.9	36.4	29.5	13.6	24.0
(WY)	(1942)	(2002)	(1942)	(2002)	(1942)	(1980)	(1915)	(1999)	(1999)	(1999)	(1983)	(2001)

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1906 - 2003	
ANNUAL TOTAL	103,172		87,044			
ANNUAL MEAN	283		238		351	
HIGHEST ANNUAL MEAN					723	1984
LOWEST ANNUAL MEAN					172	1985
HIGHEST DAILY MEAN	1,170	Apr 4	1,180	Mar 31	4,320	Mar 20, 1936
LOWEST DAILY MEAN	14	Jan 7	47	Jul 29	0.00	Aug 25, 1907
ANNUAL SEVEN-DAY MINIMUM	26	Sep 8	48	Jul 26	7.9	Aug 26, 1983
MAXIMUM PEAK FLOW			1,250	Mar 30	5,020	Mar 21, 1936
MAXIMUM PEAK STAGE			6.23	Mar 30		
10 PERCENT EXCEEDS	693		416		770	
50 PERCENT EXCEEDS	198		231		260	
90 PERCENT EXCEEDS	30		56		52	



01049505 KENNEBEC RIVER AT GARDINER, ME

LOCATION.--Lat 44°13'50", long 69°46'16", Kennebec County, Hydrologic Unit 01030003 on right bank at Gardiner, at the mouth of Cobbosseecontee Stream, and 0.6 miles upstream of Togus Stream.

DRAINAGE AREA.--5,752 mi^2.

PERIOD OF RECORD.--
GAGE HEIGHT: February 2000 to current year.

GAGE.--Water stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

REMARKS.--No gage height record, Nov. 7-8, Dec. 9-10, Jan. 11-30, Feb. 6-14, and July 3. Gage height affected by ocean tides. Flow regulated by Indian and PlymouthPonds, and Moosehead, Brassua, Flagstaff, Wyman, Great Moose, and Sebasticook Lakes, combined capacity about 50.318 billion ft^3. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.19 ft, Apr. 25, 2000; minimum gage height, -2.45 ft, Nov. 13, 2001 and Oct. 6, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of March 1936 reached a stage of 26.4 ft, from floodmarks. The flood of April 1987 reached a stage of 24.7 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.90 ft, Mar. 31; minimum gage height, -2.45 ft, Oct. 6.

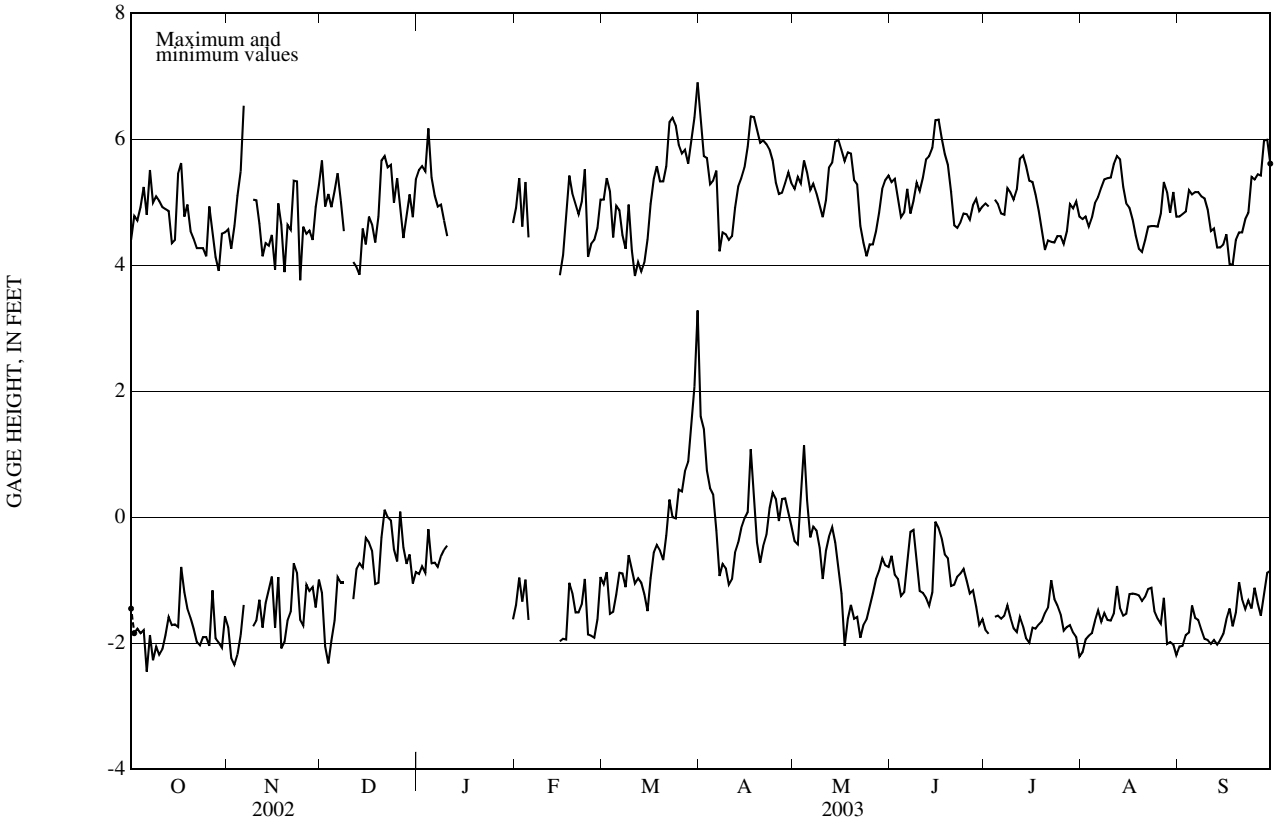
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.40	-1.45	4.57	-1.74	5.66	-1.20	5.51	-0.90	4.91	-1.39	5.04	-1.06
2	4.78	-1.84	4.26	-2.23	4.93	-2.05	5.57	-0.78	5.38	-0.96	5.38	-0.87
3	4.71	-1.77	4.62	-2.34	5.13	-2.32	5.49	-0.88	4.61	-1.34	5.17	-1.53
4	4.92	-1.84	5.10	-2.18	4.92	-1.96	6.17	-0.19	5.32	-0.99	4.44	-1.50
5	5.24	-1.79	5.49	-1.87	5.18	-1.64	5.39	-0.73	4.44	-1.63	4.94	-1.23
6	4.80	-2.45	6.53	-1.39	5.46	-0.95	5.10	-0.72	---	---	4.87	-0.88
7	5.51	-1.87	---	---	5.02	-1.04	4.93	-0.79	---	---	4.48	-0.89
8	4.99	-2.27	---	---	4.54	-1.04	4.96	-0.62	---	---	4.26	-1.11
9	5.09	-2.05	5.04	-1.73	---	---	4.71	-0.52	---	---	4.96	-0.60
10	5.02	-2.18	5.03	-1.64	---	---	4.46	-0.45	---	---	4.23	-0.84
11	4.92	-2.09	4.66	-1.31	4.05	-1.30	---	---	---	---	3.83	-1.05
12	4.89	-1.87	4.14	-1.75	3.97	-0.82	---	---	---	---	4.05	-0.97
13	4.86	-1.58	4.35	-1.36	3.85	-0.73	---	---	---	---	3.90	-1.04
14	4.35	-1.71	4.31	-1.14	4.58	-0.80	---	---	---	---	4.04	-1.22
15	4.40	-1.70	4.48	-0.94	4.33	-0.33	---	---	3.84	-1.97	4.41	-1.49
16	5.45	-1.74	3.93	-1.75	4.77	-0.40	---	---	4.16	-1.93	4.97	-0.97
17	5.62	-0.79	4.98	-0.95	4.65	-0.53	---	---	4.77	-1.94	5.37	-0.56
18	4.77	-1.19	4.64	-2.08	4.36	-1.06	---	---	5.42	-1.04	5.57	-0.44
19	4.96	-1.45	3.89	-1.98	4.77	-1.04	---	---	5.14	-1.20	5.33	-0.53
20	4.54	-1.60	4.64	-1.64	5.66	-0.32	---	---	4.97	-1.51	5.33	-0.68
21	4.42	-1.77	4.56	-1.50	5.73	0.12	---	---	4.81	-1.51	5.57	-0.29
22	4.27	-1.98	5.34	-0.73	5.55	0.00	---	---	5.01	-1.38	6.27	0.28
23	4.27	-2.03	5.33	-0.88	5.59	-0.05	---	---	5.52	-0.98	6.34	0.00
24	4.27	-1.90	3.76	-1.63	4.99	-0.51	---	---	4.13	-1.86	6.22	-0.02
25	4.14	-1.90	4.61	-1.72	5.38	-0.70	---	---	4.34	-1.88	5.91	0.44
26	4.93	-2.04	4.50	-1.07	4.92	0.09	---	---	4.40	-1.91	5.77	0.41
27	4.50	-1.16	4.55	-1.17	4.43	-0.48	---	---	4.59	-1.62	5.83	0.73
28	4.13	-1.92	4.40	-1.11	4.78	-0.74	---	---	5.04	-0.95	5.61	0.88
29	3.91	-1.99	4.92	-1.43	5.12	-0.59	---	---	---	---	6.00	1.47
30	4.50	-2.07	5.27	-0.99	4.76	-1.05	---	---	---	---	6.34	2.07
31	4.52	-1.57	---	---	5.36	-0.87	4.67	-1.62	---	---	6.90	3.28
MONTH	5.62	-2.45	6.53	-2.34	5.73	-2.32	6.17	-1.62	5.52	-1.97	6.90	-1.53

01049505 KENNEBEC RIVER AT GARDINER, ME—Continued

GAGE HEIGHT, FEET—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.27	1.60	5.21	-0.38	5.32	-0.61	4.98	-1.79	4.73	-2.14	4.77	-2.05
2	5.73	1.40	5.40	-0.43	5.37	-0.91	4.93	-1.85	4.77	-1.94	4.81	-2.04
3	5.70	0.74	5.30	0.40	5.06	-0.98	---	---	4.61	-1.88	4.85	-1.87
4	5.28	0.46	5.66	1.14	4.76	-1.25	5.04	-1.58	4.75	-1.84	5.19	-1.83
5	5.34	0.36	5.47	0.27	4.84	-1.19	4.97	-1.56	4.99	-1.64	5.12	-1.40
6	5.50	-0.21	5.19	-0.32	5.21	-0.73	4.82	-1.61	5.08	-1.48	5.16	-1.60
7	4.22	-0.93	5.29	-0.15	4.82	-0.23	4.80	-1.56	5.23	-1.66	5.16	-1.63
8	4.52	-0.74	5.14	-0.21	5.02	-0.20	5.22	-1.40	5.36	-1.52	5.09	-1.79
9	4.49	-0.81	4.94	-0.49	5.31	-0.67	5.15	-1.60	5.38	-1.63	5.06	-1.93
10	4.40	-1.07	4.76	-0.98	5.18	-1.17	5.04	-1.76	5.39	-1.64	4.88	-1.95
11	4.46	-0.98	5.03	-0.53	5.39	-1.20	5.20	-1.82	5.60	-1.53	4.54	-2.01
12	4.91	-0.56	5.55	-0.31	5.68	-1.28	5.69	-1.58	5.73	-1.09	4.58	-1.95
13	5.25	-0.40	5.63	-0.16	5.73	-1.40	5.74	-1.73	5.68	-1.44	4.28	-2.02
14	5.38	-0.17	5.96	-0.40	5.86	-1.19	5.57	-1.92	5.24	-1.56	4.28	-1.95
15	5.55	-0.02	5.99	-0.81	6.30	-0.07	5.34	-1.99	4.98	-1.53	4.33	-1.85
16	5.88	0.08	5.83	-1.21	6.31	-0.17	5.32	-1.75	4.91	-1.22	4.49	-1.62
17	6.36	1.08	5.65	-2.04	6.02	-0.33	5.12	-1.77	4.72	-1.21	4.01	-1.45
18	6.35	0.26	5.79	-1.61	5.76	-0.59	4.86	-1.70	4.47	-1.22	4.01	-1.73
19	6.15	-0.40	5.77	-1.39	5.59	-0.65	4.55	-1.65	4.26	-1.24	4.40	-1.51
20	5.94	-0.72	5.35	-1.61	5.16	-1.09	4.24	-1.52	4.21	-1.33	4.52	-1.03
21	5.98	-0.46	5.28	-1.58	4.63	-1.07	4.39	-1.43	4.40	-1.26	4.52	-1.30
22	5.92	-0.28	4.62	-1.91	4.59	-0.94	4.37	-1.00	4.61	-1.14	4.73	-1.46
23	5.83	0.15	4.36	-1.71	4.68	-0.89	4.36	-1.30	4.62	-1.12	4.83	-1.32
24	5.66	0.39	4.14	-1.62	4.82	-0.82	4.46	-1.40	4.62	-1.49	5.40	-1.45
25	5.31	0.29	4.33	-1.42	4.81	-1.01	4.46	-1.54	4.61	-1.61	5.36	-1.12
26	5.13	-0.06	4.33	-1.21	4.72	-1.21	4.34	-1.80	4.82	-1.69	5.44	-1.37
27	5.15	0.29	4.54	-0.98	4.95	-1.16	4.54	-1.74	5.32	-1.28	5.42	-1.56
28	5.30	0.30	4.83	-0.85	5.05	-1.42	4.97	-1.71	5.16	-2.01	5.98	-1.23
29	5.47	0.07	5.21	-0.65	4.86	-1.71	4.90	-1.83	4.83	-1.98	5.99	-0.88
30	5.30	-0.14	5.35	-0.76	4.93	-1.62	5.01	-1.90	5.16	-2.02	5.61	-0.85
31	---	---	5.42	-0.79	---	---	4.77	-2.21	4.77	-2.19	---	---
MONTH	6.36	-1.07	5.99	-2.04	6.31	-1.71	5.74	-2.21	5.73	-2.19	5.99	-2.05
YEAR	6.90	-2.45										



01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'39", long 71°03'28", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi upstream from mouth, and 1.6 mi north of Wentworth Location.

DRAINAGE AREA.--152 mi^2.

PERIOD OF RECORD.--
DISCHARGE: July 1941 to current year.
CHEMICAL ANALYSES: Water year 1954.

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

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

REMARKS.--Records good, except for periods of ice effect, Oct. 31 to Nov. 10, Nov. 17-22, and Nov. 25 to Apr. 12, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,800 ft^3/s, Mar. 31, 1998, gage height, 12.11 ft, from rating curve extended above 7,500 ft^3/s; maximum gage height, 12.23 ft, Feb. 21, 1981 (backwater from ice); minimum discharge, 6.8 ft^3/s, Aug. 27-28, 1949, Sept. 1, 1952, gage height, 0.81 ft.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 16	1000	*4,640	*8.29

No other peak greater than base discharge.

Minimum discharge, 25 ft^3/s, Sept. 14, gage height, 1.72 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	e93	e113	e132	e54	e47	e598	729	222	116	45	38
2	66	e77	e104	e125	e55	e47	e416	1,820	213	79	58	35
3	55	e65	e98	e118	e55	e49	e316	2,340	180	67	56	33
4	48	e74	e93	e119	e57	e47	e269	943	149	59	54	65
5	46	e72	e89	e136	e57	e47	e218	641	142	54	55	77
6	43	e70	e85	e132	e59	e46	e201	547	317	56	395	54
7	40	e73	e82	e129	e60	e45	e179	554	246	49	574	42
8	37	e68	e79	e126	e60	e45	e168	482	192	69	246	37
9	35	e75	e77	e125	e60	e46	e155	445	166	118	162	33
10	34	e143	e75	e123	e59	e46	e154	416	178	68	381	30
11	34	793	e74	e116	e59	e46	e240	333	166	87	439	29
12	34	771	e72	e112	e58	e46	e322	666	150	116	268	27
13	34	680	e71	e110	e56	e45	806	655	129	73	187	26
14	38	477	e71	e104	e53	e45	709	552	1,860	56	138	26
15	42	310	e148	e98	e51	e45	2,160	433	2,010	46	101	26
16	41	246	e140	e92	e49	e45	4,060	344	715	41	82	38
17	128	e193	e110	e87	e47	e47	1,970	289	417	42	86	66
18	183	e172	e98	e83	e47	e56	866	254	298	39	188	48
19	145	e155	e90	e76	e48	e86	642	228	242	35	126	36
20	350	e146	e98	e75	e48	e103	1,160	205	211	32	83	49
21	226	e143	e371	e73	e49	e191	1,830	195	179	30	67	66
22	149	e166	e438	e67	e50	e341	1,700	193	155	96	58	48
23	115	534	e251	e63	e51	e429	1,190	174	142	122	50	76
24	96	383	e192	e60	e51	e463	879	161	128	200	43	223
25	84	e246	e167	e58	e51	e441	658	160	107	455	39	114
26	92	e172	e154	e60	e50	e433	689	165	91	176	42	132
27	252	e134	e136	e61	e49	e528	1,100	240	80	104	42	106
28	225	e113	e127	e59	e47	e524	1,000	209	73	91	38	74
29	159	e115	e119	e57	---	e675	1,180	235	66	75	37	149
30	124	e125	e112	e56	---	e1,820	870	326	150	59	50	145
31	e98	---	e107	e54	---	e1,040	---	292	---	49	45	---
TOTAL	3,140	6,884	4,041	2,886	1,490	7,914	26,705	15,226	9,374	2,759	4,235	1,948
MEAN	101	229	130	93.1	53.2	255	890	491	312	89.0	137	64.9
MAX	350	793	438	136	60	1,820	4,060	2,340	2,010	455	574	223
MIN	34	65	71	54	47	45	154	160	66	30	37	26
CFSM	0.67	1.51	0.86	0.61	0.35	1.68	5.86	3.23	2.06	0.59	0.90	0.43
IN.	0.77	1.68	0.99	0.71	0.36	1.94	6.54	3.73	2.29	0.68	1.04	0.48

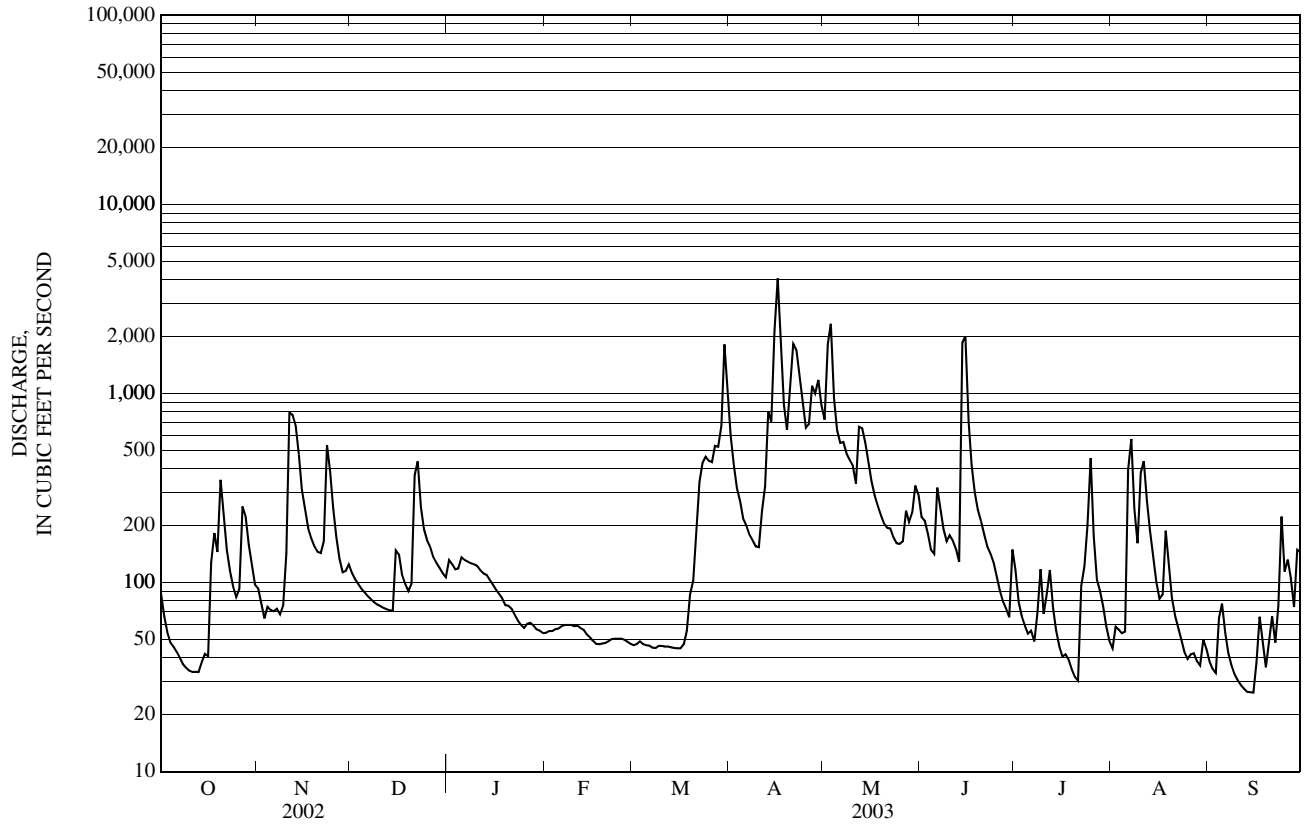
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2003, BY WATER YEAR (WY)

MEAN	261	332	227	166	147	290	1,080	915	321	169	135	147
MAX	869	733	739	575	783	936	1,754	2,115	804	703	492	836
(WY)	(1991)	(1964)	(1974)	(1995)	(1981)	(1998)	(2002)	(1972)	(1943)	(1996)	(1988)	(1954)
MIN	40.9	83.2	53.4	53.9	43.4	54.6	402	297	105	35.1	15.0	16.8
(WY)	(1953)	(1979)	(1979)	(1948)	(1942)	(1967)	(1972)	(1998)	(1963)	(1952)	(1952)	(1952)

e Estimated

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1941 - 2003	
ANNUAL TOTAL	123,845.9		86,602			
ANNUAL MEAN	339		237		349	
HIGHEST ANNUAL MEAN					524	1996
LOWEST ANNUAL MEAN					225	1965
HIGHEST DAILY MEAN	7,040	Apr 18	4,060	Apr 16	9,900	Mar 31, 1998
LOWEST DAILY MEAN	9.2	Sep 10	26	Sep 13	6.8	Aug 28, 1949
ANNUAL SEVEN-DAY MINIMUM	10	Sep 5	28	Sep 9	9.0	Sep 11, 1952
MAXIMUM PEAK FLOW			4,640	Apr 16	12,800	Mar 31, 1998
MAXIMUM PEAK STAGE			8.29	Apr 16	12.23	Feb 21, 1981
INSTANTANEOUS LOW FLOW			25	Sep 14	6.8	Aug 27, 1949
ANNUAL RUNOFF (CFSM)	2.23		1.56		2.30	
ANNUAL RUNOFF (INCHES)	30.31		21.19		31.24	
10 PERCENT EXCEEDS	701		562		840	
50 PERCENT EXCEEDS	112		104		157	
90 PERCENT EXCEEDS	27		43		51	



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 mi^2.

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." Records for water years 1923-44 have not been published but are available in the files of the U.S. Geological Survey.
CHEMICAL ANALYSES: Water years 1955, 1958.

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-97-1: 1906-43(M) 1978-84(M).

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 good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity about 28.1 billion ft^3, with final regulation at Errol Dam, 0.4 mi upstream. Telephone and satellite gage-height telemeters at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s, May 22, 1969, gage height 9.40 ft; minimum daily discharge, leakage only at various times when gates in dam were closed in water years 1918, 1919, 1923, 1924, 1928, and 1941.

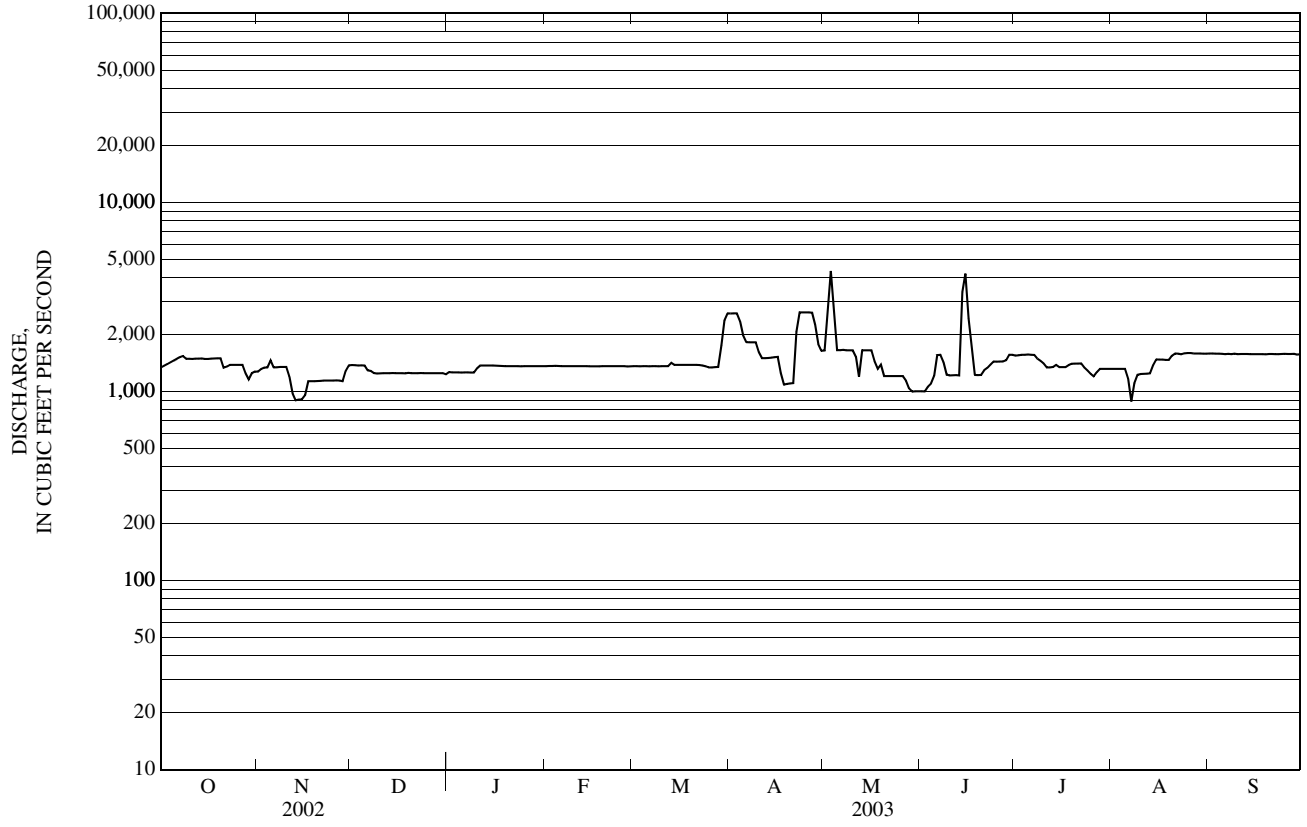
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,890 ft^3/s, June 14, 15, gage height, 4.46 ft; minimum daily discharge, 886 ft^3/s, Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,340	1,280	1,380	1,270	1,360	1,360	2,590	1,650	1,000	1,550	1,320	1,590
2	1,370	1,310	1,380	1,260	1,360	1,360	2,590	2,690	1,000	1,550	1,320	1,590
3	1,400	1,340	1,370	1,260	1,370	1,360	2,590	4,340	1,060	1,560	1,320	1,590
4	1,430	1,340	1,380	1,260	1,370	1,360	2,350	2,790	1,100	1,570	1,320	1,590
5	1,460	1,460	1,370	1,260	1,360	1,360	1,980	1,650	1,210	1,570	1,320	1,580
6	1,490	1,340	1,300	1,260	1,360	1,360	1,830	1,660	1,560	1,560	1,170	1,580
7	1,520	1,340	1,280	1,260	1,360	1,360	1,820	1,660	1,560	1,560	886	1,580
8	1,540	1,350	1,250	1,260	1,360	1,360	1,820	1,650	1,430	1,490	1,110	1,580
9	1,490	1,350	1,250	1,260	1,360	1,360	1,820	1,650	1,230	1,450	1,230	1,590
10	1,490	1,350	1,250	1,330	1,360	1,360	1,620	1,650	1,220	1,410	1,240	1,580
11	1,490	1,200	1,250	1,370	1,360	1,360	1,500	1,530	1,220	1,340	1,240	1,580
12	1,490	977	1,250	1,370	1,360	1,360	1,500	1,200	1,220	1,340	1,240	1,580
13	1,490	899	1,250	1,370	1,360	1,420	1,500	1,650	1,220	1,350	1,250	1,580
14	1,490	907	1,250	1,370	1,360	1,380	1,510	1,650	3,360	1,380	1,380	1,580
15	1,490	907	1,250	1,370	1,360	1,380	1,520	1,650	4,200	1,350	1,480	1,580
16	1,490	956	1,250	1,370	1,360	1,380	1,520	1,650	2,440	1,350	1,470	1,580
17	1,490	1,130	1,250	1,370	1,360	1,380	1,260	1,450	1,730	1,350	1,470	1,580
18	1,490	1,130	1,250	1,360	1,360	1,380	1,090	1,320	1,220	1,380	1,470	1,580
19	1,500	1,130	1,250	1,360	1,360	1,380	1,100	1,390	1,220	1,400	1,470	1,570
20	1,500	1,140	1,250	1,360	1,360	1,380	1,100	1,210	1,220	1,410	1,550	1,580
21	1,340	1,140	1,250	1,360	1,360	1,380	1,110	1,210	1,300	1,410	1,590	1,580
22	1,350	1,140	1,250	1,360	1,360	1,380	2,070	1,210	1,330	1,410	1,590	1,580
23	1,380	1,140	1,250	1,360	1,360	1,370	2,620	1,210	1,390	1,340	1,570	1,580
24	1,380	1,140	1,250	1,360	1,360	1,360	2,620	1,210	1,440	1,290	1,590	1,580
25	1,380	1,140	1,250	1,360	1,360	1,340	2,620	1,210	1,440	1,240	1,600	1,580
26	1,380	1,150	1,250	1,360	1,360	1,340	2,620	1,210	1,440	1,200	1,600	1,580
27	1,380	1,140	1,250	1,360	1,360	1,350	2,610	1,140	1,440	1,270	1,590	1,580
28	1,250	1,130	1,250	1,360	1,360	1,350	2,260	1,040	1,460	1,320	1,590	1,580
29	1,160	1,280	1,250	1,360	---	1,750	1,780	999	1,560	1,320	1,590	1,570
30	1,250	1,380	1,250	1,360	---	2,380	1,640	1,000	1,560	1,320	1,590	1,580
31	1,270	---	1,230	1,360	---	2,590	---	1,000	---	1,320	1,590	---
TOTAL	43,970	35,616	39,440	41,310	38,100	44,990	56,560	48,529	45,780	43,360	43,746	47,430
MEAN	1,418	1,187	1,272	1,333	1,361	1,451	1,885	1,565	1,526	1,399	1,411	1,581
MAX	1,540	1,460	1,380	1,370	1,370	2,590	2,620	4,340	4,200	1,570	1,600	1,590
MIN	1,160	899	1,230	1,260	1,360	1,340	1,090	999	1,000	1,200	886	1,570
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2003, BY WATER YEAR (WY)												
MEAN	1,582	1,540	1,690	1,780	1,845	1,850	2,166	3,077	2,261	1,774	1,677	1,681
MAX	3,949	3,745	4,722	3,589	3,644	5,454	4,736	8,192	7,129	4,621	2,265	4,738
(WY)	(1955)	(1908)	(1974)	(1970)	(1996)	(1936)	(1913)	(1974)	(1917)	(1996)	(1990)	(1954)
MIN	921	759	844	760	718	592	770	1,027	763	808	840	902
(WY)	(1922)	(1922)	(1909)	(1909)	(1911)	(1948)	(1940)	(1941)	(1911)	(1915)	(1915)	(1911)

01053500 ANDROSCOGGIN RIVER AT ERROL, NH—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1905 - 2003	
ANNUAL TOTAL	632,426		528,831			
ANNUAL MEAN	1,733		1,449		1,909	
HIGHEST ANNUAL MEAN					3,117	1996
LOWEST ANNUAL MEAN					1,046	1911
HIGHEST DAILY MEAN	10,600	Apr 18	4,340	May 3	16,100	May 22, 1969
LOWEST DAILY MEAN	797	May 2	886	Aug 7	0.00	Oct 31, 1917
ANNUAL SEVEN-DAY MINIMUM	987	Nov 12	987	Nov 12	152	Mar 21, 1948
MAXIMUM PEAK FLOW			4,890	Jun 14	16,500	May 22, 1969
MAXIMUM PEAK STAGE			4.46	Jun 14	9.40	May 22, 1969
10 PERCENT EXCEEDS	2,500		1,650		2,610	
50 PERCENT EXCEEDS	1,340		1,360		1,680	
90 PERCENT EXCEEDS	1,130		1,200		1,130	



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 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1913 to current year. October 1922 to September 1928, monthly discharge only, published in WSP 1301. Discharges for December 1917 not used in long-term statistics because of unknown discharge on Dec. 25, 1917. Prior to October 1928, published as "at Berlin."

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-97-1: 1913-28(M)

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.--Records good, except for periods of ice effect, Jan. 21-24 and Feb. 13-19, which are fair. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity about 28.1 billion ft^3, with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuations caused by power plant 0.8 mi upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,900 ft^3/s, estimated, Apr. 30, 1923; minimum daily discharge, leakage only, Dec. 25, 1917, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,890 ft^3/s, Mar. 30, gage height, 6.78 ft; minimum daily discharge, 1,240 ft^3/s, Oct. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,440	1,290	1,490	1,310	1,410	1,310	3,940	2,230	1,420	1,600	1,330	1,520
2	1,470	1,300	1,440	1,380	1,400	1,330	3,560	3,030	1,350	1,510	1,340	1,540
3	1,450	1,300	1,450	1,340	1,390	1,330	3,310	7,030	1,290	1,490	1,350	1,540
4	1,420	1,320	1,450	1,340	1,390	1,350	3,020	5,200	1,260	1,450	1,350	1,730
5	1,440	1,420	1,480	1,330	1,390	1,330	2,530	2,790	1,270	1,510	1,340	1,760
6	1,440	1,380	1,440	1,310	1,390	1,330	2,190	2,360	1,800	1,510	1,850	1,620
7	1,420	1,380	1,320	1,310	1,400	1,330	2,120	2,260	1,880	1,470	1,710	1,570
8	1,430	1,350	1,360	1,320	1,390	1,320	2,100	2,220	1,730	1,500	1,360	1,590
9	1,430	1,350	1,330	1,310	1,370	1,320	2,040	2,140	1,480	1,500	1,470	1,540
10	1,390	1,400	1,360	1,320	1,370	1,380	1,980	2,190	1,380	1,460	2,300	1,540
11	1,370	1,690	1,320	1,410	1,380	1,330	1,870	2,100	1,350	1,420	2,550	1,530
12	1,410	1,950	1,310	1,410	1,370	1,310	2,040	1,970	1,340	1,590	2,010	1,530
13	1,410	1,910	1,280	1,410	e1,390	1,320	2,670	2,710	1,320	1,460	1,510	1,530
14	1,460	1,800	1,310	1,400	e1,400	1,340	2,740	2,880	3,640	1,340	1,580	1,540
15	1,410	1,490	1,330	1,450	e1,400	1,260	2,700	2,520	6,750	1,310	1,540	1,560
16	1,480	1,280	1,330	1,420	e1,400	1,310	4,220	2,200	3,960	1,350	1,540	1,640
17	1,680	1,360	1,310	1,410	e1,400	1,310	3,200	2,050	2,520	1,330	1,530	1,820
18	1,700	1,440	1,300	1,460	e1,400	1,370	2,260	1,690	1,730	1,310	1,540	1,680
19	1,590	1,360	1,320	1,380	e1,390	1,380	1,900	1,610	1,490	1,360	1,540	1,620
20	1,790	1,350	1,320	1,400	1,380	1,410	1,850	1,530	1,420	1,320	1,490	1,690
21	1,680	1,380	1,420	e1,410	1,350	1,510	2,180	1,450	1,400	1,350	1,570	1,830
22	1,380	1,430	1,510	e1,430	1,350	1,690	2,670	1,440	1,430	1,470	1,560	1,690
23	1,440	1,910	1,430	e1,430	1,350	1,880	3,480	1,380	1,440	1,490	1,560	1,790
24	1,380	2,100	1,390	e1,440	1,340	1,990	3,420	1,380	1,510	1,420	1,510	2,350
25	1,390	1,730	1,350	1,430	1,350	2,170	3,280	1,380	1,490	1,550	1,540	2,010
26	1,420	1,480	1,350	1,410	1,340	2,380	3,280	1,430	1,450	1,410	1,540	1,810
27	1,600	1,410	1,350	1,400	1,370	2,590	3,870	1,620	1,410	1,270	1,550	1,730
28	1,530	1,330	1,300	1,390	1,370	2,680	3,760	1,510	1,380	1,420	1,520	1,710
29	1,310	1,280	1,310	1,400	---	3,540	3,030	1,390	1,470	1,380	1,550	1,780
30	1,240	1,510	1,340	1,440	---	6,820	2,530	1,620	1,530	1,320	1,530	1,840
31	1,310	---	1,280	1,390	---	5,070	---	1,610	---	1,270	1,560	---
TOTAL	45,310	44,680	42,280	42,990	38,630	58,990	83,740	68,920	54,890	44,140	49,220	50,630
MEAN	1,462	1,489	1,364	1,387	1,380	1,903	2,791	2,223	1,830	1,424	1,588	1,688
MAX	1,790	2,100	1,510	1,460	1,410	6,820	4,220	7,030	6,750	1,600	2,550	2,350
MIN	1,240	1,280	1,280	1,310	1,340	1,260	1,850	1,380	1,260	1,270	1,330	1,520

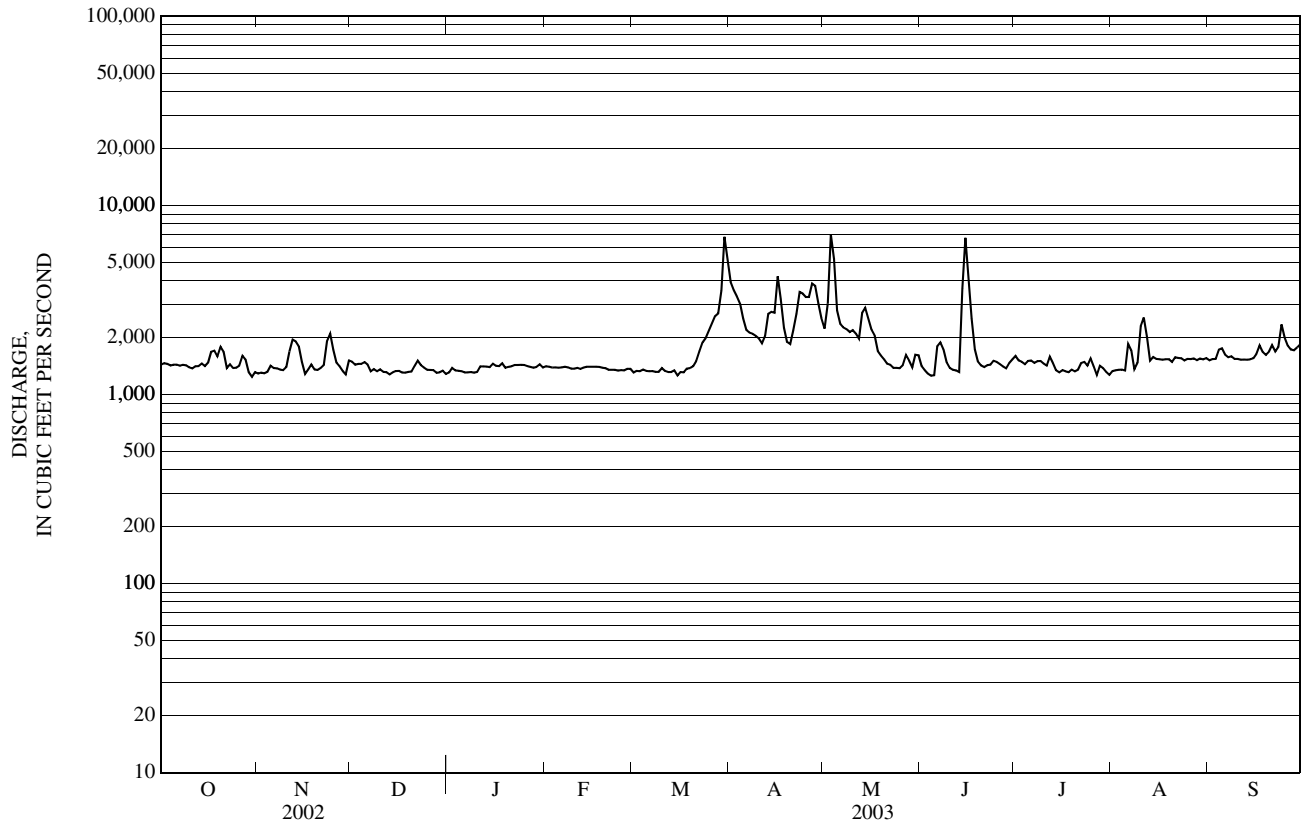
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2003, BY WATER YEAR (WY)

MEAN	2,037	2,087	2,123	2,131	2,150	2,490	3,953	4,241	2,793	2,072	1,920	1,966
MAX	4,894	4,292	5,811	4,044	4,294	7,684	6,474	10,050	10,560	5,840	2,792	6,387
(WY)	(1955)	(1991)	(1974)	(1970)	(1996)	(1936)	(1976)	(1937)	(1917)	(1996)	(1990)	(1954)
MIN	1,374	1,365	1,257	1,276	1,299	1,376	1,755	1,746	1,545	1,424	1,462	1,330
(WY)	(1942)	(2002)	(1953)	(1953)	(1922)	(1922)	(1965)	(1941)	(1915)	(2003)	(1995)	(1995)

e Estimated

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1914 - 2003	
ANNUAL TOTAL	800,340		624,420			
ANNUAL MEAN	2,193		1,711		2,501	
HIGHEST ANNUAL MEAN					4,147	1996
LOWEST ANNUAL MEAN					1,689	1965
HIGHEST DAILY MEAN	15,100	Apr 18	7,030	May 3	20,000	Jun 18, 1917
LOWEST DAILY MEAN	1,240	Oct 30	1,240	Oct 30	795	Mar 15, 1948
ANNUAL SEVEN-DAY MINIMUM	1,270	Jan 5	1,300	Oct 29	866	Mar 10, 1948
MAXIMUM PEAK FLOW			7,890	Mar 30	21,900	Apr 30, 1923
MAXIMUM PEAK STAGE			6.78	Mar 30		
10 PERCENT EXCEEDS	3,410		2,440		3,730	
50 PERCENT EXCEEDS	1,500		1,440		2,000	
90 PERCENT EXCEEDS	1,290		1,320		1,580	



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 mi^2.

PERIOD OF RECORD.--
DISCHARGE: July 1964 to current year.
CHEMICAL ANALYSES: Water years 1966 to current year.
WATER TEMPERATURE: July 1964 to September 1983, November 1991 to September 1993.

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-98-1: 1960(M), 1967-68(M), 1970(M), 1973-74(M), 1976-77(M), 1979(M), 1984(M), 1986-87(M), 1991(M), 1996-97(P).

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.--Records good, except for periods of ice effect, Nov. 1-12 and Nov. 28 to Mar. 23, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft^3/s, Oct. 22, 1995, gage height, 14.84 ft; minimum discharge, 6.0 ft^3/s, Sept. 10-11, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 24, 1959, reached a stage of 15.6 ft, from floodmarks; discharge, 28,300 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 21	1615	Ice Jam	*8.96	Aug 10	0545	*5,300	8.11
Mar 29	2130	3,740	7.16	Sep 23	1845	4,010	7.34
Aug 6	0000	4,490	7.64				

Minimum discharge, 11 ft^3/s, Oct. 2, gage height, 2.70 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	e31	e56	e60	e26	e32	314	256	133	26	16	25
2	12	e27	e50	e54	e33	e34	254	607	132	23	35	24
3	15	e25	e45	e50	e41	e39	221	639	105	22	39	24
4	19	e25	e41	e50	e39	e35	188	331	90	21	26	277
5	28	e25	e38	e47	e43	e33	157	267	102	20	298	128
6	37	e26	e35	e46	e38	e33	158	244	247	19	1,650	67
7	19	e31	e33	e46	e35	e32	133	228	140	18	337	49
8	15	e32	e31	e45	e33	e31	122	210	114	18	218	40
9	13	e31	e29	e44	e32	e30	115	194	101	18	162	33
10	12	e36	e28	e42	e31	e29	116	193	103	16	2,460	31
11	13	e48	e27	e41	e30	e29	158	165	83	45	561	28
12	13	e117	e27	e40	e30	e28	205	347	79	68	318	26
13	14	350	e29	e39	e29	e27	342	289	67	31	333	25
14	20	180	e38	e38	e28	e27	298	313	448	23	233	24
15	22	110	e71	e37	e28	e27	579	225	280	19	149	25
16	22	84	e118	e36	e27	e26	1,030	190	162	19	114	317
17	397	73	e96	e34	e27	e29	414	166	114	24	98	191
18	89	80	e79	e34	e27	e41	265	145	92	21	128	83
19	51	64	e65	e33	e26	e87	220	133	83	50	101	73
20	63	58	e88	e32	e26	e117	282	123	72	27	72	462
21	48	63	e242	e31	e26	e1,010	391	119	63	21	61	227
22	35	137	e183	e31	e50	e864	380	114	58	43	53	120
23	28	427	e141	e30	e42	e572	382	99	56	41	46	827
24	25	174	e113	e29	e37	370	312	100	49	43	38	665
25	23	112	e93	e29	e35	349	237	216	41	66	36	249
26	42	91	e80	e29	e33	548	340	266	35	36	40	192
27	164	79	e71	e28	e33	682	1,170	473	31	25	35	151
28	89	e67	e65	e28	e32	461	530	254	28	24	30	172
29	57	e60	e59	e27	---	1,170	449	249	25	20	28	321
30	43	e63	e55	e27	---	1,590	330	189	26	18	30	206
31	35	---	e54	e27	---	507	---	149	---	17	28	---
TOTAL	1,476	2,726	2,180	1,164	917	8,889	10,092	7,493	3,159	882	7,773	5,082
MEAN	47.6	90.9	70.3	37.5	32.8	287	336	242	105	28.5	251	169
MAX	397	427	242	60	50	1,590	1,170	639	448	68	2,460	827
MIN	12	25	27	27	26	26	115	99	25	16	16	24
CFSM	0.68	1.31	1.01	0.54	0.47	4.12	4.83	3.47	1.51	0.41	3.60	2.43
IN.	0.79	1.46	1.17	0.62	0.49	4.75	5.39	4.00	1.69	0.47	4.15	2.72

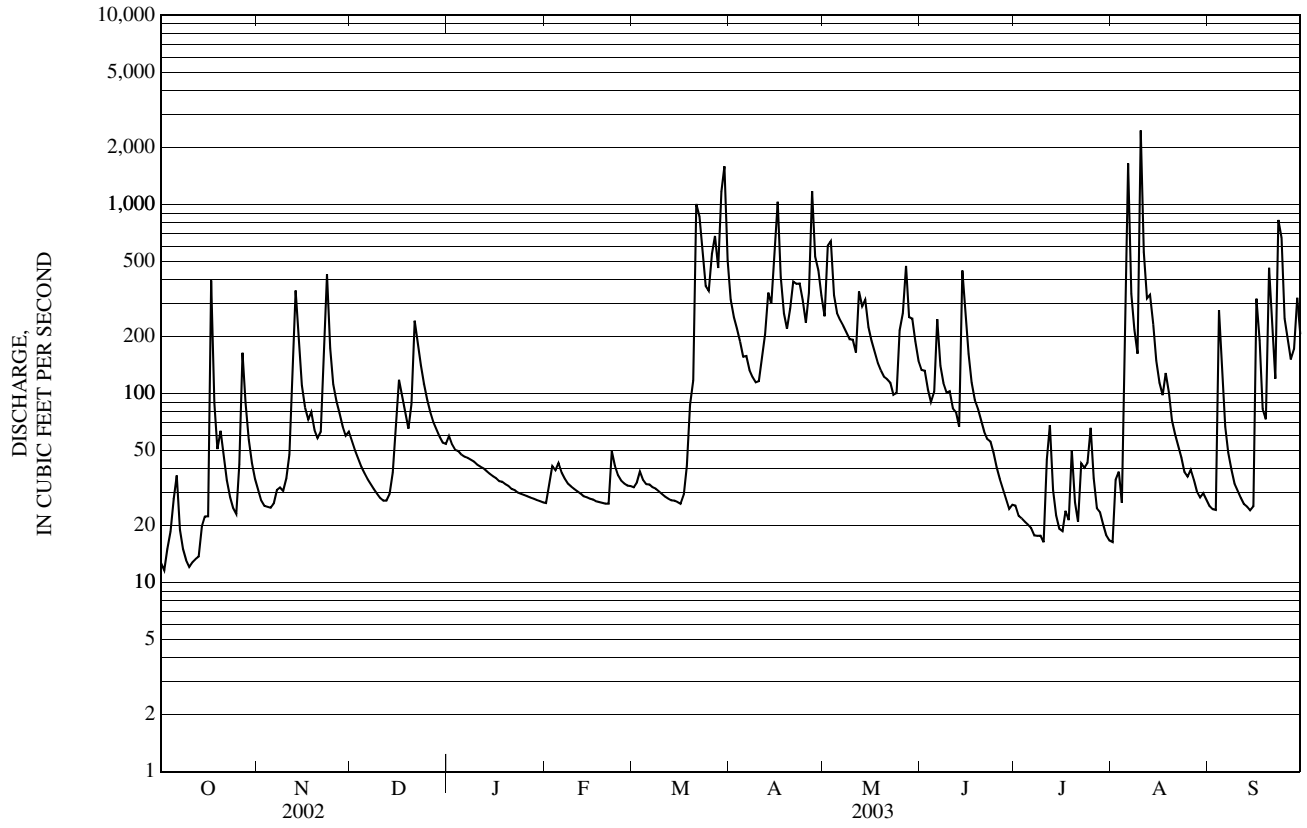
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY)

MEAN	139	203	141	112	103	232	517	393	153	74.1	65.6	63.9
MAX	442	587	604	483	579	558	900	1,028	785	353	251	438
(WY)	(1978)	(1970)	(1974)	(1986)	(1981)	(1979)	(1984)	(1969)	(1998)	(1996)	(2003)	(1999)
MIN	17.4	32.0	21.5	18.2	19.9	25.4	164	158	49.9	16.1	10.6	11.1
(WY)	(1965)	(1979)	(1979)	(1981)	(1980)	(1967)	(1995)	(1993)	(1970)	(1991)	(2002)	(1995)

e Estimated

01054200 WILD RIVER AT GILEAD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1964 - 2003	
ANNUAL TOTAL	47,486.1		51,833			
ANNUAL MEAN	130		142		183	
HIGHEST ANNUAL MEAN					294	1996
LOWEST ANNUAL MEAN					72.9	1965
HIGHEST DAILY MEAN	4,050	Apr 14	2,460	Aug 10	7,510	Jun 14, 1998
LOWEST DAILY MEAN	6.1	Sep 10	12	Oct 2	6.1	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	7.1	Sep 5	14	Oct 7	7.1	Sep 5, 2002
MAXIMUM PEAK FLOW			5,300	Aug 10	24,500	Oct 22, 1995
MAXIMUM PEAK STAGE			8.96	Mar 21	14.84	Oct 22, 1995
INSTANTANEOUS LOW FLOW			11	Oct 2	6.0	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.87		2.04		2.63	
ANNUAL RUNOFF (INCHES)	25.38		27.70		35.79	
10 PERCENT EXCEEDS	302		338		404	
50 PERCENT EXCEEDS	48		50		75	
90 PERCENT EXCEEDS	10		24		22	



01054300 ELLIS RIVER AT SOUTH ANDOVER, ME

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, Hydrologic Unit 01040002, on left bank 100 ft upstream from covered bridge at South Andover.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--
DISCHARGE: February 1963 to September 1982, October 2000 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good, except for periods of ice effect, Nov. 2-11, Nov. 26 to Mar. 29, and period of no gage-height record, Nov. 28 to Dec. 13, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,630 ft^3/s, Dec. 29, 1969, gage height, 19.23 ft; minimum discharge, 8.4 ft^3/s, Sept. 11, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	1130	*1,660	*12.94

Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peaks greater than base discharge.			

Minimum discharge, 14 ft^3/s, Oct. 10-11, gage height, 4.02 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	41	e64	e52	e32	e36	554	403	189	76	40	32
2	18	e38	e58	e55	e41	e38	464	514	169	64	57	31
3	18	e33	e53	e52	e49	e41	402	952	143	57	84	30
4	17	e31	e49	e50	e46	e40	362	597	120	52	68	105
5	18	e31	e46	e63	e51	e40	304	459	112	48	64	129
6	18	e32	e44	e61	e45	e41	290	403	235	45	689	72
7	17	e38	e42	e60	e43	e40	251	390	195	41	374	55
8	16	e33	e40	e60	e41	e39	233	353	153	47	209	47
9	15	e36	e39	e59	e40	e38	211	320	135	76	159	42
10	15	e36	e38	e56	e39	e37	197	309	144	59	570	38
11	15	e161	e37	e54	e37	e36	253	273	127	64	642	36
12	15	288	e37	e51	e36	e35	301	355	113	145	380	34
13	15	353	e39	e49	e36	e35	475	434	98	96	293	34
14	18	312	e48	e47	e35	e34	455	483	532	73	228	44
15	24	199	e102	e45	e34	e33	540	398	601	64	169	45
16	22	146	e119	e43	e34	e33	972	334	399	57	139	90
17	101	124	e90	e41	e33	e35	643	287	296	58	117	205
18	96	130	e76	e40	e33	e46	455	251	230	54	128	114
19	52	109	e68	e39	e32	e67	380	222	189	49	103	84
20	68	95	e72	e38	e32	e79	398	196	157	44	83	215
21	63	92	e104	e37	e33	e146	480	178	130	41	71	276
22	44	120	e140	e36	e33	e340	471	169	109	41	63	160
23	35	429	e119	e36	e43	e429	456	150	102	48	56	169
24	31	352	e103	e35	e46	e476	419	141	91	59	49	658
25	28	231	e90	e35	e40	e485	383	151	79	116	41	368
26	31	e167	e78	e35	e38	e458	377	168	69	85	37	283
27	150	e120	e70	e34	e37	e529	784	295	69	68	37	229
28	111	e96	e63	e33	e36	e493	680	265	109	62	36	208
29	69	e83	e58	e33	---	e610	548	236	81	55	34	235
30	53	e72	e54	e33	---	1,450	465	229	74	48	34	209
31	44	---	e51	e33	---	897	---	228	---	43	33	---
TOTAL	1,258	4,028	2,091	1,395	1,075	7,136	13,203	10,143	5,250	1,935	5,087	4,277
MEAN	40.6	134	67.5	45.0	38.4	230	440	327	175	62.4	164	143
MAX	150	429	140	63	51	1,450	972	952	601	145	689	658
MIN	15	31	37	33	32	33	197	141	69	41	33	30
CFSM	0.31	1.03	0.52	0.35	0.30	1.77	3.39	2.52	1.35	0.48	1.26	1.10
IN.	0.36	1.15	0.60	0.40	0.31	2.04	3.78	2.90	1.50	0.55	1.46	1.22

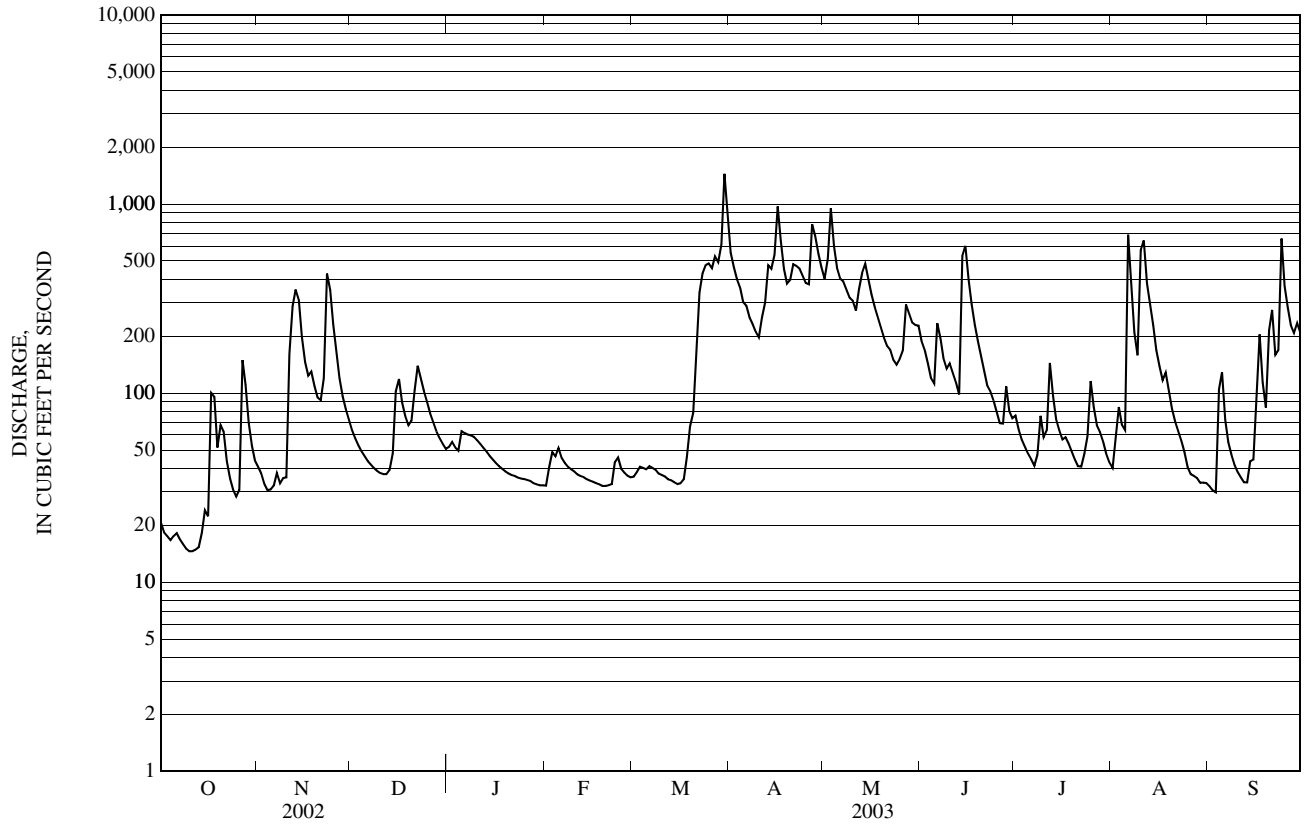
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2003, BY WATER YEAR (WY)

MEAN	147	232	220	125	142	239	752	550	209	110	76.6	70.2
MAX	653	703	876	464	620	579	1,206	1,190	437	467	279	283
(WY)	(1978)	(1970)	(1974)	(1978)	(1981)	(1979)	(1969)	(1969)	(1968)	(1973)	(1976)	(1981)
MIN	26.4	33.8	34.1	45.0	31.1	30.6	369	224	60.1	33.0	15.3	15.6
(WY)	(2002)	(1979)	(1979)	(2003)	(1980)	(1967)	(1981)	(1977)	(1964)	(1965)	(2002)	(2002)

e Estimated

01054300 ELLIS RIVER AT SOUTH ANDOVER, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1963 - 2003	
ANNUAL TOTAL	74,404.9		56,878			
ANNUAL MEAN	204		156		242	
HIGHEST ANNUAL MEAN					340	1978
LOWEST ANNUAL MEAN					132	1965
HIGHEST DAILY MEAN	3,200	Apr 14	1,450	Mar 30	4,500	Apr 25, 1968
LOWEST DAILY MEAN	8.8	Sep 11	15	Oct 9	8.8	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	9.3	Sep 8	15	Oct 7	9.3	Sep 8, 2002
MAXIMUM PEAK FLOW			1,660	Mar 30	5,630	Dec 29, 1969
MAXIMUM PEAK STAGE			12.94	Mar 30	19.23	Dec 29, 1969
INSTANTANEOUS LOW FLOW			14	Oct 10	8.4	Sep 11, 2002
ANNUAL RUNOFF (CFSM)	1.57		1.20		1.87	
ANNUAL RUNOFF (INCHES)	21.29		16.28		25.34	
10 PERCENT EXCEEDS	506		429		580	
50 PERCENT EXCEEDS	70		68		115	
90 PERCENT EXCEEDS	13		33		32	



01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°33'04", long 70°32'38", 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 mi^2.

PERIOD OF RECORD.--
DISCHARGE: May 1892 to current year. Fragmentary record only May 1892 to October 1895, published in WSP 27. Monthly discharge only October 1903 to September 1904, published in WSP 1301.
CHEMICAL ANALYSES: Water year 1953.

REVISED RECORDS.--WDR ME-86-1: Drainage area. WDR ME-97-1: 1893-1935(M) 1937-79(M).

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, Aziscohos, and Umbagog Lakes, combined usable capacity about 28.1 billion ft^3, with final regulation at Errol Dam 70 mi upstream. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,000 ft^3/s, Mar. 20, 1936; minimum daily discharge, 625 ft^3/s, Mar. 27, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,500 ft^3/s, Mar. 30, gage height, 10.18 ft; minimum daily discharge, 1,300 ft^3/s, Dec. 4.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

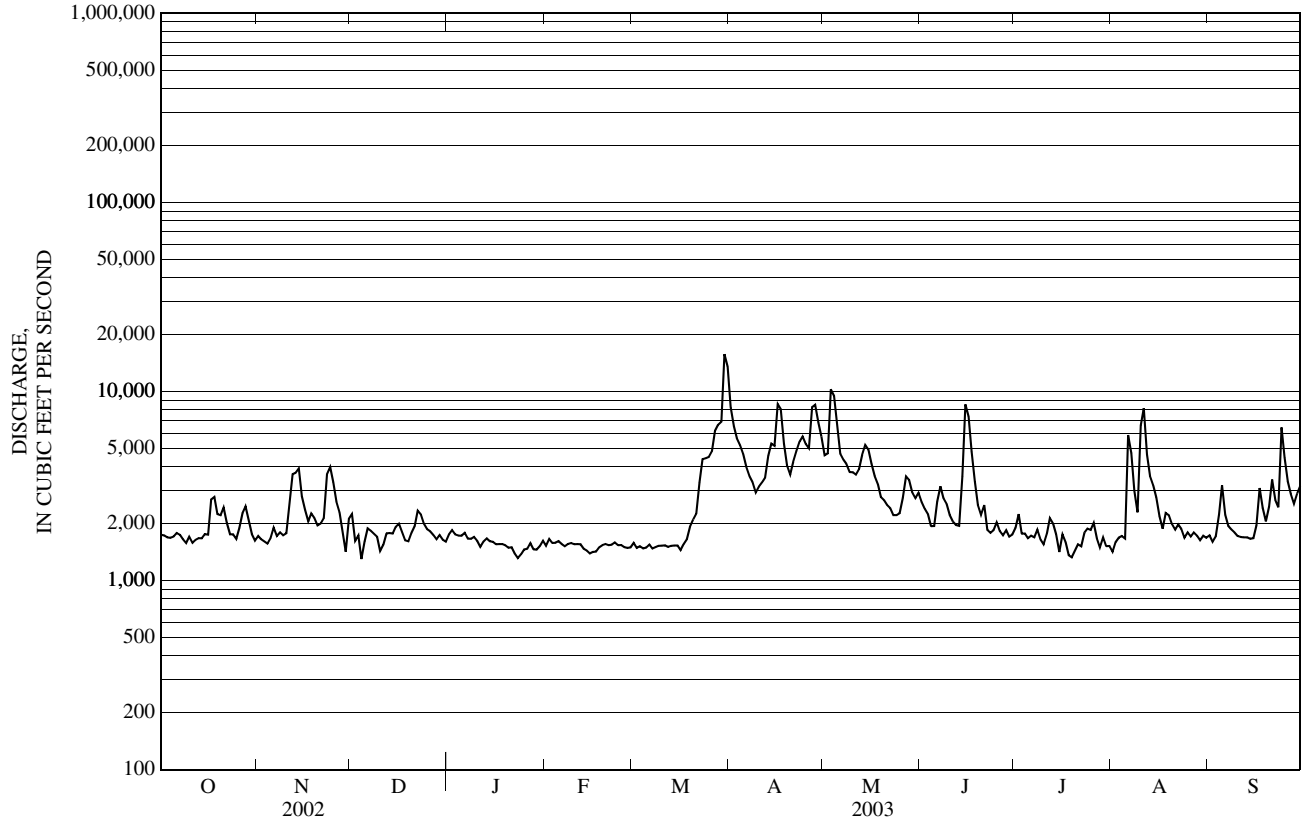
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,750	1,720	2,250	1,760	1,530	1,580	8,250	4,600	2,610	1,900	1,420	1,730
2	1,730	1,660	1,620	1,850	1,660	1,490	6,550	4,710	2,400	2,250	1,600	1,610
3	1,690	1,610	1,730	1,750	1,580	1,520	5,660	10,300	2,250	1,770	1,690	1,720
4	1,680	1,570	1,300	1,730	1,580	1,480	5,200	9,490	1,940	1,780	1,720	2,230
5	1,710	1,680	1,610	1,730	1,620	1,500	4,680	6,570	1,950	1,670	1,670	3,190
6	1,790	1,910	1,890	1,790	1,560	1,550	3,990	4,680	2,630	1,730	5,880	2,230
7	1,750	1,720	1,840	1,670	1,520	1,480	3,570	4,370	3,160	1,690	4,720	1,950
8	1,650	1,800	1,770	1,660	1,560	1,500	3,320	4,140	2,720	1,860	2,980	1,860
9	1,580	1,740	1,710	1,700	1,580	1,530	2,920	3,750	2,540	1,650	2,290	1,800
10	1,700	1,780	1,430	1,620	1,560	1,530	3,140	3,740	2,220	1,550	6,610	1,720
11	1,580	2,510	1,550	1,510	1,560	1,540	3,300	3,640	2,050	1,770	8,160	1,700
12	1,640	3,650	1,780	1,610	1,560	1,510	3,510	3,890	1,970	2,140	4,640	1,690
13	1,680	3,710	1,780	1,670	1,480	1,530	4,570	4,630	1,950	2,000	3,570	1,690
14	1,670	3,910	1,780	1,620	1,440	1,530	5,300	5,210	3,560	1,760	3,190	1,660
15	1,760	2,790	1,930	1,600	1,390	1,530	5,160	4,930	8,550	1,420	2,750	1,680
16	1,750	2,370	2,000	1,560	1,420	1,450	8,590	4,160	7,370	1,760	2,190	1,960
17	2,680	2,060	1,820	1,560	1,420	1,560	8,080	3,580	4,800	1,600	1,880	3,090
18	2,760	2,260	1,630	1,560	1,500	1,650	5,300	3,240	3,350	1,360	2,280	2,430
19	2,250	2,140	1,610	1,540	1,540	1,930	4,070	2,770	2,510	1,330	2,220	2,060
20	2,220	1,960	1,790	1,490	1,560	2,100	3,640	2,660	2,230	1,440	1,990	2,460
21	2,430	2,010	1,940	1,500	1,540	2,260	4,240	2,510	2,500	1,550	1,860	3,420
22	2,020	2,140	2,340	1,390	1,550	3,300	4,840	2,410	1,850	1,520	1,980	2,670
23	1,760	3,650	2,240	1,310	1,590	4,380	5,440	2,220	1,790	1,790	1,880	2,440
24	1,760	3,980	2,000	1,380	1,540	4,440	5,790	2,220	1,850	1,880	1,690	6,460
25	1,660	3,330	1,870	1,460	1,540	4,500	5,270	2,270	2,030	1,850	1,800	4,470
26	1,890	2,610	1,820	1,480	1,500	4,840	5,020	2,740	1,830	2,020	1,710	3,340
27	2,270	2,300	1,740	1,580	1,490	6,190	8,250	3,560	1,740	1,670	1,800	2,870
28	2,470	1,810	1,650	1,460	1,500	6,670	8,500	3,410	1,850	1,500	1,730	2,550
29	2,080	1,420	1,740	1,460	---	6,930	6,860	2,920	1,710	1,690	1,640	2,890
30	1,760	2,130	1,650	1,520	---	15,800	5,780	2,730	1,750	1,520	1,730	3,160
31	1,630	---	1,610	1,620	---	13,600	---	2,920	---	1,520	1,680	---
TOTAL	58,750	69,930	55,420	49,140	42,870	104,400	158,790	124,970	81,660	52,940	82,950	74,730
MEAN	1,895	2,331	1,788	1,585	1,531	3,368	5,293	4,031	2,722	1,708	2,676	2,491
MAX	2,760	3,980	2,340	1,850	1,660	15,800	8,590	10,300	8,550	2,250	8,160	6,460
MIN	1,580	1,420	1,300	1,310	1,390	1,450	2,920	2,220	1,710	1,330	1,420	1,610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1900 - 2003, BY WATER YEAR (WY)

MEAN	2,813	3,385	3,025	2,753	2,681	3,982	8,144	7,278	3,976	2,616	2,321	2,396
MAX	7,423	8,635	10,570	6,885	7,192	17,420	14,900	16,650	12,210	8,906	4,518	9,296
(WY)	(1978)	(1996)	(1974)	(1996)	(1981)	(1936)	(1901)	(1969)	(1917)	(1996)	(1990)	(1954)
MIN	1,448	1,511	1,121	1,353	951	789	3,177	2,550	1,795	1,384	1,451	1,307
(WY)	(1911)	(1909)	(1909)	(1909)	(1911)	(1911)	(1995)	(1941)	(1911)	(1911)	(1911)	(1995)

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1900 - 2003	
ANNUAL TOTAL	1,233,510		956,550			
ANNUAL MEAN	3,379		2,621		3,782	
HIGHEST ANNUAL MEAN					6,696	1996
LOWEST ANNUAL MEAN					2,001	1911
HIGHEST DAILY MEAN	29,800	Apr 15	15,800	Mar 30	68,300	Mar 19, 1936
LOWEST DAILY MEAN	1,110	Jan 2	1,300	Dec 4	625	Mar 27, 1911
ANNUAL SEVEN-DAY MINIMUM	1,420	Sep 6	1,430	Jan 20	645	Mar 21, 1911
MAXIMUM PEAK FLOW			18,500	Mar 30	74,000	Mar 20, 1936
MAXIMUM PEAK STAGE			10.18	Mar 30		
10 PERCENT EXCEEDS	6,250		4,750		7,200	
50 PERCENT EXCEEDS	2,000		1,850		2,610	
90 PERCENT EXCEEDS	1,530		1,520		1,770	



01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi downstream from Philbrick Brook, 2.1 mi downstream from Roxbury, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--96.9 mi^2.

PERIOD OF RECORD.--
DISCHARGE: June 1929 to current year.
CHEMICAL ANALYSES: Water year 1956.

REVISED RECORDS.--WSP 801: 1934(M). WSP 1301: 1937-38(M), 1942(M). WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Oct. 31 to Nov. 10, Nov. 28 to Mar. 29, and period of no gage-height record, Nov. 13-14, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s, Oct. 24, 1959, gage height, 12.87 ft; minimum discharge, 2.7 ft^3/s, Sept. 10-11, 2002.

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)
Aug 10	1045	*2,080	*5.16	No peaks greater than base discharge.			

Minimum discharge, 13 ft^3/s, Oct. 9, gage height, 1.02 ft, but may have been lower during period of ice effect, Nov. 4 and Nov. 7-8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	e31	e49	e45	e19	e25	308	303	113	56	23	25
2	17	e27	e45	e46	e40	e26	240	765	117	42	59	23
3	15	e24	e42	e45	e37	e27	201	844	97	37	58	21
4	14	e21	e39	e44	e36	e26	176	395	81	33	45	147
5	16	e23	e36	e46	e39	e26	145	287	83	33	47	98
6	19	e25	e34	e45	e37	e26	152	255	241	34	241	53
7	17	e21	e33	e42	e36	e25	138	267	145	27	153	39
8	15	e18	e31	e39	e35	e25	123	229	121	79	95	32
9	13	e22	e30	e36	e33	e26	114	197	106	123	86	27
10	14	e40	e29	e34	e31	e26	117	178	138	60	1,090	24
11	15	172	e29	e33	e30	e24	167	159	106	117	491	23
12	16	139	e31	e33	e28	e24	250	337	92	169	206	22
13	16	e200	e41	e33	e27	e24	448	362	75	84	151	21
14	34	e174	e63	e32	e25	e23	366	418	842	56	107	19
15	36	122	e147	e30	e24	e23	827	259	477	43	76	19
16	27	88	e89	e28	e23	e24	1,270	202	247	37	63	143
17	121	71	e58	e26	e23	e26	549	170	161	46	56	164
18	89	78	e44	e25	e23	e32	321	150	122	37	67	67
19	55	67	e40	e23	e24	e47	251	134	105	32	51	47
20	95	62	e59	e22	e27	e95	374	120	89	28	42	177
21	69	65	e117	e21	e28	e168	528	115	74	25	37	183
22	47	149	e233	e20	e29	e308	493	114	66	28	34	86
23	37	482	e168	e19	e30	e339	469	99	65	46	30	305
24	31	230	e117	e18	e29	e290	387	97	59	63	26	616
25	29	139	e83	e18	e28	e255	305	116	49	118	25	190
26	42	108	e63	e17	e26	e217	291	130	42	63	27	146
27	152	88	e51	e17	e25	e366	851	244	81	44	29	113
28	88	e57	e46	e16	e25	e340	556	179	120	39	28	122
29	58	e53	e43	e16	---	e552	506	169	57	33	24	145
30	45	e53	e40	e16	---	1,370	368	151	59	28	30	115
31	e36	---	e41	e16	---	553	---	134	---	24	30	---
TOTAL	1,298	2,849	1,971	901	817	5,358	11,291	7,579	4,230	1,684	3,527	3,212
MEAN	41.9	95.0	63.6	29.1	29.2	173	376	244	141	54.3	114	107
MAX	152	482	233	46	40	1,370	1,270	844	842	169	1,090	616
MIN	13	18	29	16	19	23	114	97	42	24	23	19
CFSM	0.43	0.98	0.66	0.30	0.30	1.78	3.88	2.52	1.46	0.56	1.17	1.10
IN.	0.50	1.09	0.76	0.35	0.31	2.06	4.33	2.91	1.62	0.65	1.35	1.23

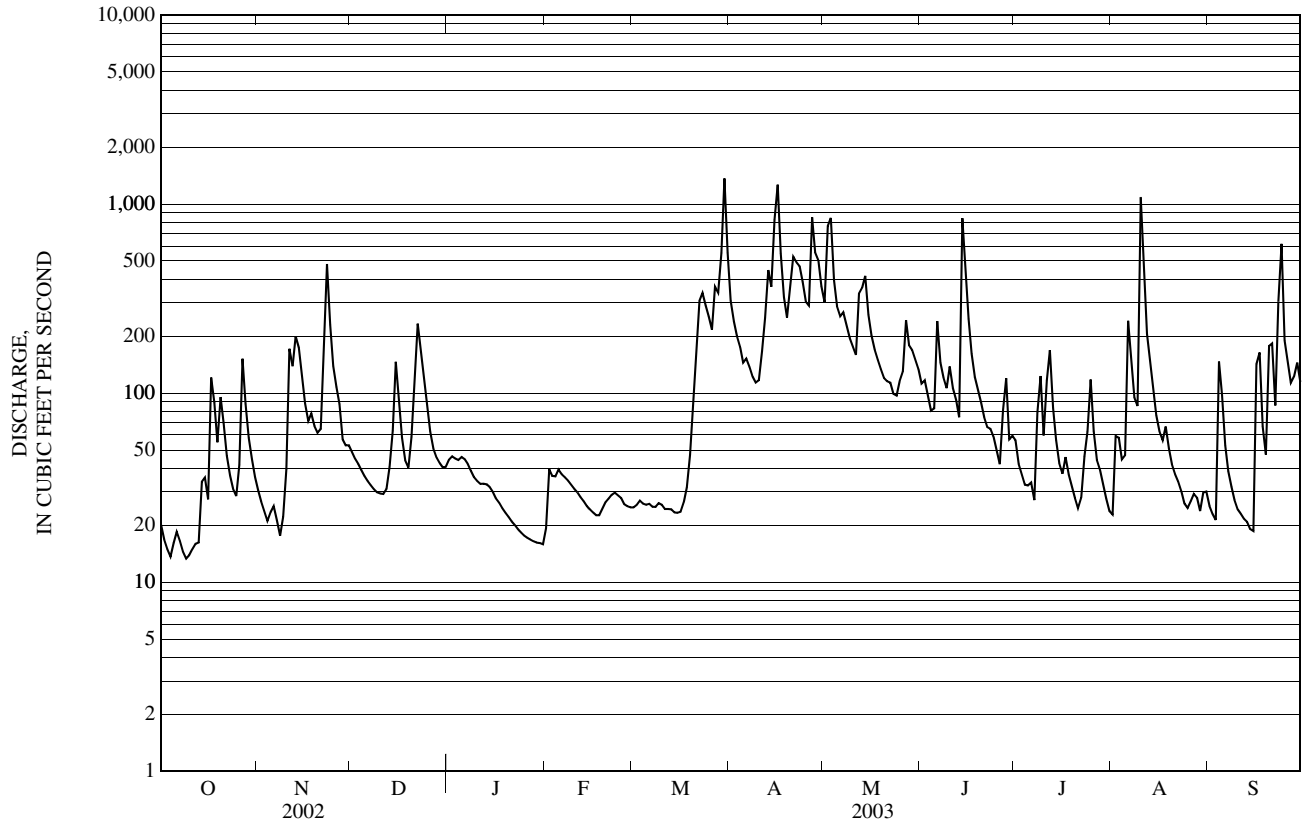
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	141	208	151	110	92.4	203	621	482	178	85.3	60.1	73.4
MAX	545	644	758	676	463	1,315	1,141	1,032	792	483	277	497
(WY)	(1978)	(1964)	(1974)	(1996)	(1970)	(1936)	(1951)	(1972)	(1998)	(1996)	(1991)	(1954)
MIN	14.9	28.5	15.7	17.8	17.3	20.8	255	111	42.4	18.1	9.66	6.10
(WY)	(1948)	(1979)	(1930)	(1948)	(1980)	(1967)	(1995)	(1941)	(1941)	(1952)	(2002)	(1948)

e Estimated

01055000 SWIFT RIVER NEAR ROXBURY, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	59,647.5		44,717			
ANNUAL MEAN	163		123		201	
HIGHEST ANNUAL MEAN					366	1996
LOWEST ANNUAL MEAN					103	1941
HIGHEST DAILY MEAN	3,290	Apr 14	1,370	Mar 30	9,120	Apr 1, 1987
LOWEST DAILY MEAN	2.9	Sep 10	13	Oct 9	2.9	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 7	15	Oct 7	3.4	Sep 7, 2002
MAXIMUM PEAK FLOW			2,080	Aug 10	16,800	Oct 24, 1959
MAXIMUM PEAK STAGE			5.16	Aug 10	12.87	Oct 24, 1959
INSTANTANEOUS LOW FLOW			13	Oct 9	2.7	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.69		1.26		2.07	
ANNUAL RUNOFF (INCHES)	22.90		17.17		28.14	
10 PERCENT EXCEEDS	432		305		488	
50 PERCENT EXCEEDS	51		53		82	
90 PERCENT EXCEEDS	8.9		23		22	



01055100 ANDROSCOGGIN RIVER AT JAY, ME

LOCATION.--Lat 44°30'06", long 70°13'32", Androscoggin County, Hydrologic Unit 01040002, on right bank 800 ft above Jay Dam, and 1.5 mi below end of Bean Island at mouth of Sevenmile Stream.

DRAINAGE AREA.--2,488 mi^2.

PERIOD OF RECORD.--October 1993 to current year.

PERIOD OF DAILY RECORD.--October 1993 to current year.
SPECIFIC CONDUCTANCE: October 1993 to September 2000. Seasonal records (June to September) water years 2001 to current year.
WATER TEMPERATURE: October 1993 to September 2000. Seasonal records (June to September) water years 2001 to current year.
DISSOLVED OXYGEN: October 1993 to September 2000. Seasonal records (June to September) water years 2001 to current year.

INSTRUMENTATION.--Water quality monitor since October 1993. In-situ monitor located 50 ft streamward from right bank, 1.5 ft above river bed, and 2,000 ft below International Paper's diffuser pipe.

REMARKS.--Monitor not operated during period October to May. Records good, except for periods June 12-13 and Aug. 18-21, which are fair, and July 22-24 and Aug. 22-24, which are poor, for dissolved oxygen. Interruptions in the record were due to malfunctions of the monitor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 335 microsiemens/cm, Sept. 11, 1995; minimum, 25 microsiemens/cm, Apr. 24-25, 1996.
WATER TEMPERATURE: Maximum, 28.0°C, Aug. 17, 2002; minimum, 0.0°C, on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 16.1 mg/L, Jan. 29, 1996; minimum, 3.8 mg/L, July 9, 1995.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 199 microsiemens/cm, Aug. 1; minimum, 44 microsiemens/cm, Aug. 11.
WATER TEMPERATURE: Maximum, 27.3°C, June 28; minimum, 14.9°C, June 16.
DISSOLVED OXYGEN: Maximum, 10.1 mg/L, June 15, 16; minimum, 6.0 mg/L, July 9, 10.

SPECIFIC CONDUCTANCE, WATER, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	109	103	106	174	146	159	199	157	182	186	162	175
2	126	104	111	163	134	149	198	171	179	195	160	176
3	132	106	118	177	148	162	180	163	171	192	173	184
4	143	121	130	166	151	160	175	158	168	182	166	174
5	148	91	113	177	145	161	184	170	175	173	125	143
6	151	112	128	169	146	157	181	122	156	145	119	130
7	119	91	102	176	162	169	122	54	74	142	123	134
8	108	96	102	180	159	169	92	57	72	158	138	148
9	121	98	110	189	160	176	112	92	104	180	138	156
10	123	96	110	189	149	168	110	75	99	178	154	163
11	128	109	120	176	151	165	75	44	51	175	154	164
12	135	117	127	168	141	150	64	46	53	198	169	181
13	130	119	124	153	129	141	79	64	70	193	169	177
14	143	104	124	138	128	134	89	77	82	184	167	174
15	106	54	73	162	135	149	100	81	89	176	158	166
16	54	45	49	158	143	150	113	100	108	178	163	171
17	56	47	51	163	141	152	142	113	128	168	146	157
18	79	55	65	---	---	---	166	124	146	155	110	129
19	88	73	79	---	---	---	160	125	139	142	112	130
20	109	85	96	---	---	---	146	127	138	130	106	123
21	111	94	104	---	---	---	147	135	142	108	80	92
22	136	99	123	186	154	168	145	131	137	92	84	88
23	146	128	137	182	155	165	165	135	151	106	87	100
24	161	133	149	166	155	161	162	145	151	106	69	80
25	163	140	153	166	152	160	---	---	---	72	61	65
26	154	132	145	164	139	149	---	---	---	80	67	73
27	175	124	146	162	143	151	---	---	---	102	80	94
28	161	131	145	162	139	148	190	155	171	121	102	113
29	166	128	149	168	137	153	190	165	176	124	117	122
30	175	138	156	171	150	161	190	163	174	125	112	120
31	---	---	---	184	157	168	185	158	171	---	---	---
MONTH	175	45	115	189	128	158	199	44	131	198	61	137
PERIOD	199	44	134									

01055100 ANDROSCOGGIN RIVER AT JAY, ME—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.4	16.0	16.9	25.8	25.0	25.4	24.6	23.7	24.1	20.8	19.9	20.1
2	16.8	15.8	16.2	25.4	24.4	25.0	23.7	22.5	23.1	20.6	19.9	20.2
3	17.6	16.1	16.7	25.1	24.0	24.6	22.5	22.0	22.2	20.5	19.8	20.2
4	18.0	15.9	16.9	25.8	24.4	25.0	22.9	22.5	22.7	20.2	19.6	19.8
5	17.7	16.6	17.1	26.5	25.2	25.9	23.0	22.8	22.9	19.9	19.1	19.6
6	17.6	16.2	16.9	26.8	26.1	26.4	23.6	23.0	23.2	20.4	19.2	19.7
7	18.0	17.0	17.7	27.2	26.3	26.7	23.9	21.3	22.2	20.0	18.9	19.4
8	17.6	16.9	17.4	27.1	26.3	26.7	22.6	21.4	22.1	20.0	19.3	19.6
9	17.9	17.2	17.6	26.8	25.8	26.2	24.1	22.6	23.4	20.0	19.4	19.6
10	18.1	16.8	17.4	25.8	24.6	25.1	24.9	23.8	24.2	19.7	19.2	19.4
11	19.0	17.8	18.3	24.6	22.9	23.5	24.4	21.0	22.0	20.0	19.1	19.5
12	19.3	17.9	18.6	22.9	21.9	22.4	21.9	21.1	21.4	20.5	19.7	20.1
13	19.9	19.1	19.5	23.2	21.6	22.3	23.2	21.9	22.5	20.7	19.8	20.3
14	19.8	17.9	18.8	23.0	21.8	22.5	23.5	23.2	23.4	21.1	20.2	20.6
15	17.9	15.9	16.6	23.5	22.1	22.8	24.0	23.5	23.7	21.9	21.0	21.4
16	17.4	14.9	16.0	23.5	22.6	22.8	25.0	23.7	24.3	22.0	21.8	21.9
17	18.4	16.7	17.4	23.2	22.6	22.9	24.5	23.5	24.0	21.8	20.6	21.1
18	18.6	18.2	18.4	---	---	---	25.0	23.4	24.1	20.9	20.0	20.5
19	19.7	18.4	19.1	---	---	---	25.0	23.6	24.3	20.0	19.0	19.4
20	21.5	19.3	20.5	---	---	---	25.0	23.5	24.3	19.6	18.7	19.0
21	22.3	19.8	21.0	---	---	---	25.4	24.1	24.8	19.3	18.3	18.9
22	22.7	20.8	21.7	24.4	23.4	23.8	25.5	24.8	25.2	19.2	18.2	18.7
23	22.3	21.2	21.8	24.0	23.1	23.5	25.4	24.5	24.9	18.6	18.2	18.4
24	23.9	22.1	22.8	24.1	24.0	24.0	24.5	22.8	23.6	18.4	16.7	17.3
25	25.2	23.0	23.9	24.6	23.7	24.1	---	---	---	16.9	15.7	16.1
26	26.4	24.0	25.1	24.7	23.8	24.2	---	---	---	16.4	16.1	16.3
27	26.9	25.8	26.3	24.6	23.9	24.2	---	---	---	16.6	16.2	16.5
28	27.3	26.6	26.8	24.5	23.9	24.2	21.9	21.5	21.6	17.4	16.6	17.1
29	26.7	25.5	26.1	24.1	23.3	23.8	21.5	20.9	21.1	18.2	17.4	17.8
30	26.2	25.7	25.9	24.1	23.3	23.8	21.1	20.8	21.0	17.7	17.0	17.4
31	---	---	---	24.8	23.7	24.3	21.1	20.6	20.9	---	---	---
MONTH	27.3	14.9	19.8	27.2	21.6	24.3	25.5	20.6	23.1	22.0	15.7	19.2
PERIOD	27.3	14.9	21.5									

DISSOLVED OXYGEN, WATER, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.8	8.4	8.7	8.5	7.4	7.9	7.0	6.4	6.8	8.7	8.3	8.5
2	8.7	8.4	8.5	8.5	7.3	8.0	7.3	6.7	7.1	8.8	8.1	8.5
3	8.8	8.4	8.6	8.5	7.2	7.8	7.5	6.6	7.0	8.6	8.1	8.3
4	9.0	8.3	8.6	8.2	7.0	7.6	7.2	6.6	6.8	8.3	7.9	8.1
5	8.8	8.3	8.6	8.0	7.2	7.5	7.2	6.6	6.8	8.3	7.7	8.0
6	8.6	8.1	8.3	7.8	6.9	7.2	7.9	6.8	7.1	8.2	7.6	8.0
7	9.0	8.3	8.6	7.5	6.4	6.8	8.3	7.7	7.9	8.3	7.6	7.9
8	8.9	8.3	8.6	7.3	6.5	6.9	8.0	7.0	7.5	8.1	7.5	7.7
9	8.8	8.3	8.6	7.0	6.0	6.5	7.3	6.9	7.2	8.2	7.5	7.8
10	8.8	8.3	8.6	7.2	6.0	6.6	7.9	6.9	7.0	8.4	7.8	8.1
11	8.8	8.4	8.6	7.2	6.8	7.0	8.7	7.9	8.4	8.5	8.0	8.2
12	8.9	8.3	8.5	7.2	6.5	6.9	8.4	7.6	7.9	8.3	7.8	8.1
13	8.7	8.2	8.4	8.0	7.0	7.5	7.8	7.2	7.5	8.2	7.7	7.9
14	8.8	8.0	8.4	7.5	6.9	7.2	7.3	6.8	7.1	8.1	7.8	8.0
15	10.1	8.3	9.3	7.7	6.6	7.2	7.2	6.6	7.0	8.1	7.6	7.9
16	10.1	9.8	9.9	7.6	6.8	7.2	7.0	6.6	6.8	8.2	7.6	7.9
17	9.8	9.2	9.4	7.2	6.3	6.8	7.2	6.5	6.9	8.3	7.6	8.0
18	9.3	8.4	8.8	---	---	---	7.2	6.1	6.6	8.6	7.9	8.3
19	8.6	8.1	8.4	---	---	---	7.3	6.6	7.0	8.6	7.8	8.1
20	8.4	7.9	8.1	---	---	---	7.2	6.5	6.9	8.2	7.6	7.9
21	8.5	7.8	8.0	---	---	---	7.2	6.6	6.8	8.5	7.6	8.0
22	8.1	7.5	7.9	7.5	6.6	7.0	7.5	6.5	7.0	8.5	7.8	8.2
23	7.8	7.2	7.5	7.5	6.4	7.0	7.7	6.8	7.3	8.0	7.8	7.9
24	8.0	7.1	7.5	7.4	6.6	7.0	7.8	7.0	7.4	9.8	7.7	8.5
25	8.5	7.4	7.9	7.6	6.8	7.2	---	---	---	9.8	9.5	9.6
26	8.6	7.5	8.0	7.9	7.0	7.4	---	---	---	9.6	8.8	9.2
27	8.2	7.2	7.8	7.9	7.0	7.4	---	---	---	9.3	8.8	9.0
28	8.0	7.0	7.5	7.7	6.7	7.1	8.4	8.0	8.1	9.0	8.6	8.8
29	8.7	7.0	7.7	7.0	6.4	6.8	8.5	8.0	8.2	8.7	8.4	8.6
30	8.2	7.1	7.7	7.0	6.5	6.8	8.5	8.2	8.4	9.0	8.5	8.8
31	---	---	---	7.1	6.5	6.8	8.5	8.1	8.3	---	---	---
MONTH	10.1	7.0	8.4	8.5	6.0	7.2	8.7	6.1	7.3	9.8	7.5	8.3
PERIOD	10.1	6.0	7.8									

01055220 DEAD RIVER AT LEEDS, ME

LOCATION.--Lat 44°19'03", long 70°07'21", Androscoggin County, Hydrologic Unit 01040002, on left bank at downstream side of State Route 106 highway bridge at Leeds, and 1.0 miles downstream from Androscoggin Lake.

DRAINAGE AREA.--83.1 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 2000 to September 2003 (discontinued).

GAGE.--Water-stage and velocity recorder. Elevation of gage is 264.94 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor, including periods of ice effect, Dec. 27, 2000 to Mar. 17, 2001, Dec. 17, 2001 to Mar. 13, 2002, and Nov. 30, 2002 to Mar. 29, 2003; periods of doubtful velocity record, June 4-8, June 27 to July 13, July 20 to Sept. 27, 2001, and Oct. 1, 2001 to Jan. 8, 2002, and periods of no gage-height and velocity record, Oct. 3-24, 2000, Dec. 14, 2000 to Feb. 16, 2001, Mar. 20-26, Dec. 25-26, 2001, Feb. 21-23, Feb. 25 to Mar. 4, Mar. 7-8, Apr. 17-22, 2002, and Feb. 13-21, 2003. Satellite gage-height and velocity telemeter at station. Records for water years 2001 and 2002 have not been previously published and are given below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,300 ft^3/s, Apr. 30, 2001, maximum gage height, 12.82 ft, Apr. 28, 2001; minimum dishcarge, -4,270 ft^3/s, Apr. 25, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 765 ft^3/s, Jan. 16; maximum gage height, 8.16 ft, May 4-5; minimum discharge, -537 ft^3/s, Nov. 23.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8	-33	e21	e14	e-54	e-17	-12	99	127	122	54	16
2	19	-59	e51	e-17	e74	e-139	43	127	68	132	59	86
3	34	-9	e12	e53	e20	e-74	74	0	79	115	61	52
4	30	7	e-4	e35	e19	e-39	90	5	126	124	59	58
5	-53	11	e58	e25	e102	e41	107	104	71	108	89	-22
6	28	28	e8	e52	e-50	e74	138	134	45	88	63	-8
7	2	-56	e44	e35	e-1	e72	135	133	162	138	19	23
8	-12	7	e14	e68	e4	e53	136	173	127	116	49	36
9	57	19	e0	e76	e19	e75	148	138	101	64	67	66
10	21	25	e7	e125	e17	e51	151	115	71	105	58	-4
11	52	38	e31	e2	e-5	e-64	152	174	172	85	41	78
12	33	-7	e104	e46	e-11	e7	155	132	134	56	29	64
13	24	6	e82	e-40	e-13	e4	111	93	152	64	50	56
14	-29	-29	e69	e-56	e-2	e11	143	125	114	122	41	63
15	26	-35	e34	e20	e16	e-92	90	125	78	125	93	56
16	49	40	e53	e274	e3	e-46	48	137	-3	89	47	61
17	-22	48	e66	e-13	e2	e-81	68	204	131	48	93	-32
18	-32	-96	e-4	e121	e19	e-3	167	324	151	85	80	55
19	31	-25	e0	e1	e7	e-8	151	267	161	94	21	37
20	-13	-8	e-5	e66	e-25	e-46	138	235	193	87	72	61
21	-21	-8	e-42	e43	e15	e49	109	192	179	97	106	-5
22	-10	-3	e82	e0	e22	e-35	81	262	147	40	37	49
23	-16	-96	e25	e15	e45	e-57	91	232	169	95	-9	30
24	9	-87	e6	e73	e157	e21	79	205	174	71	8	-12
25	28	-32	e49	e25	e-22	e11	112	157	137	21	38	28
26	48	-15	e-38	e97	e71	e18	129	167	137	44	36	32
27	-41	6	e34	e52	e44	e23	109	166	125	45	-35	68
28	-39	6	e41	e102	e81	e23	108	117	72	-15	-10	71
29	-7	6	e10	e51	---	e-7	131	133	159	62	60	15
30	4	e49	e57	e49	---	-46	115	205	95	100	7	16
31	21	---	e28	e82	---	-69	---	200	---	78	38	---
TOTAL	229	-302	893	1,476	554	-290	3,297	4,880	3,654	2,605	1,421	1,094
MEAN	7.39	-10.1	28.8	47.6	19.8	-9.35	110	157	122	84.0	45.8	36.5
MAX	57	49	104	274	157	75	167	324	193	138	106	86
MIN	-53	-96	-42	-56	-54	-139	-12	0	-3	-15	-35	-32
CFSM	0.09	-0.12	0.35	0.57	0.24	-0.11	1.32	1.89	1.47	1.01	0.55	0.44
IN.	0.10	-0.14	0.40	0.66	0.25	-0.13	1.48	2.18	1.64	1.17	0.64	0.49

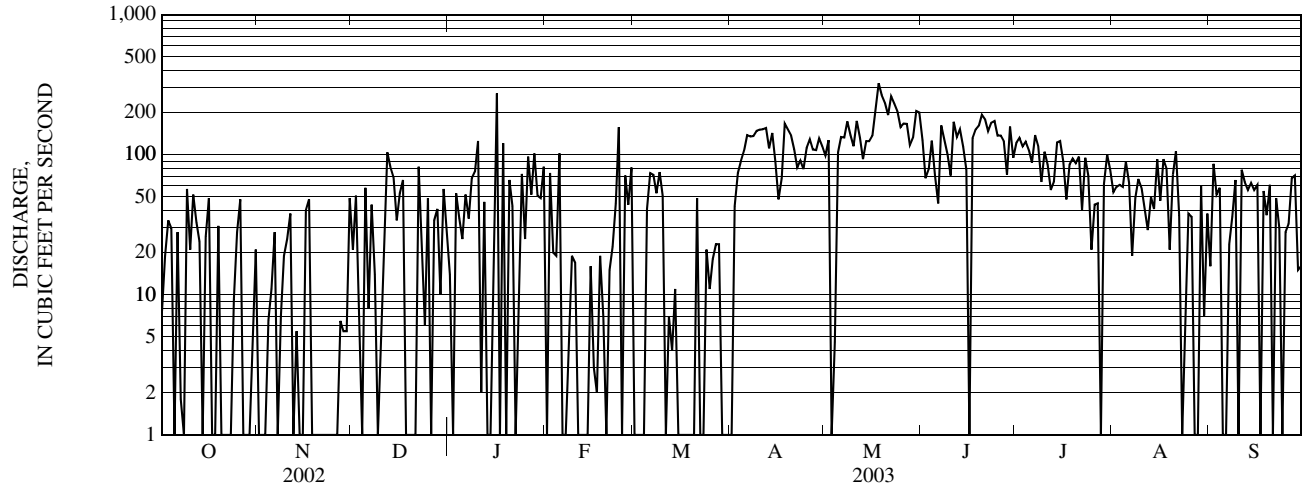
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

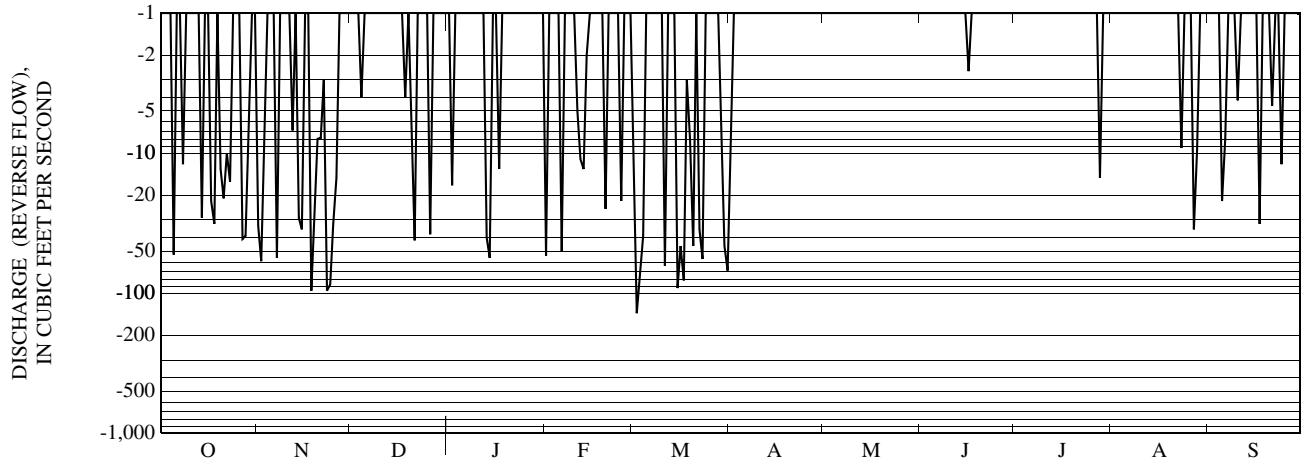
MEAN	17.6	11.3	28.8	32.7	11.6	12.0	34.0	317	127	97.3	34.7	29.3
MAX	29.6	38.1	29.3	47.6	19.8	43.6	190	468	139	146	45.9	39.5
(WY)	(2001)	(2001)	(2001)	(2003)	(2003)	(2002)	(2002)	(2001)	(2001)	(2002)	(2003)	(2001)
MIN	7.36	-10.1	28.3	8.69	6.36	-9.35	-198	157	119	62.3	21.8	11.9
(WY)	(2003)	(2003)	(2002)	(2002)	(2002)	(2003)	(2001)	(2003)	(2002)	(2001)	(2002)	(2002)

e Estimated

01055220 DEAD RIVER AT LEEDS, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL TOTAL	27,473		19,511			
ANNUAL MEAN	75.3		53.5		63.3	
HIGHEST ANNUAL MEAN					77.3	2002
LOWEST ANNUAL MEAN					53.5	2003
HIGHEST DAILY MEAN	1,100	Apr 21	324	May 18	1,100	Apr 21, 2002
LOWEST DAILY MEAN	-3,100	Apr 15	-139	Mar 2	-3,300	Apr 25, 2001
ANNUAL SEVEN-DAY MINIMUM	-949	Apr 11	-46	Nov 18	-1,260	Apr 21, 2001
MAXIMUM PEAK FLOW			765	Jan 16	1,300	Apr 30, 2001
MAXIMUM PEAK STAGE			8.16	May 4	12.82	Apr 28, 2001
INSTANTANEOUS LOW FLOW			-537	Nov 23	-4,270	Apr 25, 2001
ANNUAL RUNOFF (CFSM)	0.91		0.64		0.76	
ANNUAL RUNOFF (INCHES)	12.30		8.73		10.34	
10 PERCENT EXCEEDS	326		138		205	
50 PERCENT EXCEEDS	26		48		34	
90 PERCENT EXCEEDS	-30		-23		-17	





01055220 DEAD RIVER AT LEEDS, ME—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	34	23	e110	e30	e9	17	866	179	e84	e45	e59
2	36	17	7	e103	e20	e-11	17	656	171	e73	e44	e14
3	e27	-4	48	e91	e20	e-9	30	342	69	e60	e45	e26
4	e24	28	44	e91	e20	e-8	30	215	e23	e94	e69	e60
5	e17	28	31	e83	e19	e-13	25	507	e-53	e104	e49	e33
6	e24	3	32	e72	e19	e44	28	745	e40	e72	e15	e29
7	e36	16	28	e50	e14	e19	21	714	e130	e54	e45	e45
8	e24	17	25	e71	e13	e-52	13	696	e204	e93	e66	e56
9	e3	15	15	e49	e8	e82	33	728	210	e83	e27	e44
10	e33	25	29	e34	e2	e73	22	787	223	e3	e27	e38
11	e33	-7	28	e54	e5	e16	-28	795	240	e12	e27	e62
12	e24	7	26	e46	e2	e43	-23	737	240	e25	e22	e24
13	e27	82	31	e42	e21	e-131	-87	744	216	e30	e13	e25
14	e48	94	e23	e39	e10	e-81	-82	645	195	122	e42	e24
15	e31	35	e20	e35	e9	e-71	-48	571	192	110	e29	e22
16	e17	-15	e23	e34	e1	e8	-44	479	235	136	e34	e37
17	e17	44	e-64	e32	e21	e28	-36	417	204	119	e41	e45
18	e27	69	e-767	e29	e-20	9	-25	417	161	112	e61	e36
19	e67	88	e-1,450	e18	e31	7	141	396	172	80	e54	e54
20	e27	81	e115	e16	e-25	e4	268	336	95	e8	e25	e31
21	e-13	72	e578	e16	e-24	e6	231	305	120	e30	e16	e40
22	e64	45	e451	e16	e20	e-19	-32	285	123	e32	e22	e40
23	e45	29	e224	e14	e-6	e-24	-655	290	122	e44	e29	e17
24	e33	62	e276	e12	e-1	e36	-1,680	289	97	e35	e41	e19
25	29	46	e235	e24	e-4	e21	-3,300	256	93	e62	e48	e-3
26	25	47	e107	e23	e-50	e23	-2,910	264	117	e50	e29	e-24
27	21	73	e204	e28	e5	0	-444	324	e119	e30	e12	e58
28	-32	39	e169	e34	e81	-8	635	266	e95	e22	e32	96
29	31	30	e152	e16	---	17	940	199	e76	e61	e31	92
30	66	44	e125	e5	---	12	1,000	153	e68	e62	e32	85
31	50	---	e121	e5	---	24	---	96	---	e30	e60	---
TOTAL	919	1,144	909	1,292	241	54	-5,943	14,520	4,176	1,932	1,132	1,184
MEAN	29.6	38.1	29.3	41.7	8.61	1.74	-198	468	139	62.3	36.5	39.5
MAX	67	94	578	110	81	82	1,000	866	240	136	69	96
MIN	-32	-15	-1,450	5	-50	-131	-3,300	96	-53	3	12	-24
CFSM	0.36	0.46	0.35	0.50	0.10	0.02	-2.38	5.64	1.68	0.75	0.44	0.47
IN.	0.41	0.51	0.41	0.58	0.11	0.02	-2.66	6.50	1.87	0.86	0.51	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	29.6	38.1	29.3	41.7	8.61	1.71	-198	468	139	62.3	36.5	39.5
MAX	29.6	38.1	29.3	41.7	8.61	1.71	-198	468	139	62.3	36.5	39.5
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)
MIN	29.6	38.1	29.3	41.7	8.61	1.71	-198	468	139	62.3	36.5	39.5
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)

e Estimated

01055220 DEAD RIVER AT LEEDS, ME—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e91	e2	e-34	e30	e4	e15	-14	668	198	230	109	-5
2	e42	e5	e-2	e41	e-8	e11	-81	562	138	203	68	32
3	e53	e17	e-6	e35	e4	e-8	-33	472	-39	230	15	44
4	e38	e-7	e-6	e24	e22	e3	-99	470	74	231	30	24
5	e51	e3	e0	e26	e5	e15	0	475	78	205	11	-38
6	e40	e26	e13	e52	e15	e-6	101	493	49	181	-22	-16
7	e0	e51	e18	e55	e111	e0	220	446	31	153	-18	44
8	e16	e48	e-9	e32	e21	e5	210	436	11	224	-27	-3
9	e11	e-25	e1	e-6	e16	e14	206	421	12	176	4	-10
10	e5	e-5	e0	e-46	e40	e9	166	392	119	165	41	19
11	e8	e6	e3	e-42	e-16	e-6	4	413	234	134	60	2
12	e7	e5	e8	e-27	e16	e11	8	401	133	158	41	-29
13	e13	e0	e7	e-19	e-7	e6	11	386	-803	207	34	-20
14	e15	e-6	e15	e25	e13	26	-641	154	-304	177	20	47
15	e18	e-3	e8	e49	e31	20	-3,100	-100	-8	149	19	13
16	e10	e24	e-2	e-29	e-3	20	-2,160	-35	36	151	0	37
17	e23	e-10	e21	e12	e-24	29	e-768	-47	26	155	-29	-17
18	e26	e-13	e60	e25	e-3	44	e283	0	86	126	28	50
19	e0	e-10	e90	e44	e-4	43	e720	-40	248	162	23	27
20	e-10	e28	e97	e22	e-40	66	e1,040	162	308	131	-17	3
21	e-2	e0	e51	e37	e-25	97	e1,100	290	354	122	48	42
22	e9	e-16	e71	e-23	e-10	89	e1,060	403	383	113	9	43
23	e5	e-13	e56	e-14	e15	75	1,050	402	415	69	40	-20
24	e12	e-6	e56	e9	e0	82	1,020	404	293	130	14	24
25	e2	e15	e62	e-35	e9	118	1,040	387	284	110	-9	32
26	e2	e15	e64	e-11	e4	129	1,070	396	265	137	-10	31
27	e0	e25	e58	e28	e-10	126	981	319	252	93	13	23
28	e5	e25	e38	e91	e2	88	810	365	250	64	54	-32
29	e-5	e10	e49	e-21	---	74	816	372	228	33	38	1
30	e4	e-13	e56	e-54	---	85	689	232	213	71	42	11
31	e4	---	e36	e-40	---	69	---	337	---	23	47	---
TOTAL	493	178	879	270	178	1,349	5,709	10,036	3,564	4,513	676	359
MEAN	15.9	5.93	28.4	8.71	6.36	43.5	190	324	119	146	21.8	12.0
MAX	91	51	97	91	111	129	1,100	668	415	231	109	50
MIN	-10	-25	-34	-54	-40	-8	-3,100	-100	-803	23	-29	-38
CFSM	0.19	0.07	0.34	0.10	0.08	0.52	2.29	3.90	1.43	1.75	0.26	0.14
IN.	0.22	0.08	0.39	0.12	0.08	0.60	2.56	4.49	1.60	2.02	0.30	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

MEAN	22.8	22.0	28.8	25.2	7.48	22.6	-3.91	396	129	104	29.2	25.7
MAX	29.6	38.1	29.3	41.7	8.61	43.6	190	468	139	146	36.5	39.5
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2001)	(2001)	(2002)	(2001)	(2001)
MIN	15.9	5.92	28.3	8.69	6.36	1.71	-198	324	119	62.3	21.8	11.9
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(2002)	(2001)	(2002)	(2002)

e Estimated

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, Hydrologic Unit 01040002, on left bank 500 ft upstream from State Route 117 highway bridge at Turner Center, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--169 mi^2.

PERIOD OF RECORD.--
DISCHARGE: August 1941 to September 1996, August 2001 to current year.
CHEMICAL ANALYSES: Water years 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.--Records good, except for period of ice effect, Dec. 2 to Mar. 24, which is fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft^3/s, Mar. 27, 1953, gage height, 11.18 ft; minimum discharge, 5.6 ft^3/s, Aug. 29, 1956, gage height, 0.72 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 31	0300	*1,750	*4.28

No other peak greater than base discharge.

Minimum discharge, 18 ft^3/s, Sept. 3, gage height, 0.95 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	61	132	e97	e51	e57	1,190	359	271	38	31	21
2	26	61	e117	e92	e82	e60	912	346	234	36	45	20
3	27	56	e105	e89	e79	e71	749	592	196	35	67	19
4	29	54	e96	e98	e76	e68	654	602	153	34	67	28
5	30	54	e83	e103	e88	e65	559	461	146	32	60	38
6	30	66	e79	e115	e80	e62	483	374	262	32	54	46
7	32	96	e76	e110	e74	e58	437	386	281	31	56	42
8	32	103	e73	e107	e68	e57	403	370	226	29	54	36
9	32	96	e71	e107	e63	e61	365	336	189	28	50	32
10	32	91	e65	e103	e60	e61	344	305	175	27	58	30
11	31	95	e59	e98	e59	e56	381	274	159	28	89	28
12	30	110	e60	e94	e59	e55	460	299	139	29	170	26
13	31	212	e61	e89	e58	e57	595	363	122	29	210	25
14	39	256	e79	e86	e55	e54	617	351	164	29	222	23
15	40	205	e166	e82	e53	e51	568	315	245	29	155	22
16	42	161	e196	e78	e51	e50	584	277	218	28	113	25
17	80	150	e191	e75	e50	e71	551	243	166	28	91	33
18	113	148	e151	e72	e49	e106	450	217	135	27	72	49
19	93	141	e119	e69	e48	e125	378	196	118	26	63	53
20	76	131	e110	e67	e51	e132	334	178	106	26	53	106
21	66	125	e210	e64	e58	e204	296	161	93	27	45	145
22	59	178	e231	e62	e64	e385	278	149	85	27	40	123
23	54	364	e203	e60	e78	e748	302	138	80	28	36	111
24	49	406	e177	e58	e71	e944	329	138	73	47	33	216
25	46	313	e160	e57	e66	1,060	364	172	65	80	31	252
26	48	252	e145	e55	e62	1,050	348	207	59	79	30	188
27	76	217	e133	e54	e60	1,120	623	335	53	61	28	155
28	92	174	e123	e53	e58	1,360	794	387	48	48	27	143
29	81	145	e115	e52	---	1,410	597	349	44	40	25	166
30	69	141	e108	e51	---	1,540	452	316	41	36	23	164
31	61	---	e102	e51	---	1,630	---	313	---	33	22	---
TOTAL	1,573	4,662	3,796	2,448	1,771	12,828	15,397	9,509	4,346	1,107	2,120	2,365
MEAN	50.7	155	122	79.0	63.2	414	513	307	145	35.7	68.4	78.8
MAX	113	406	231	115	88	1,630	1,190	602	281	80	222	252
MIN	26	54	59	51	48	50	278	138	41	26	22	19
CFSM	0.30	0.92	0.72	0.47	0.37	2.45	3.04	1.82	0.86	0.21	0.40	0.47
IN.	0.35	1.03	0.84	0.54	0.39	2.82	3.39	2.09	0.96	0.24	0.47	0.52

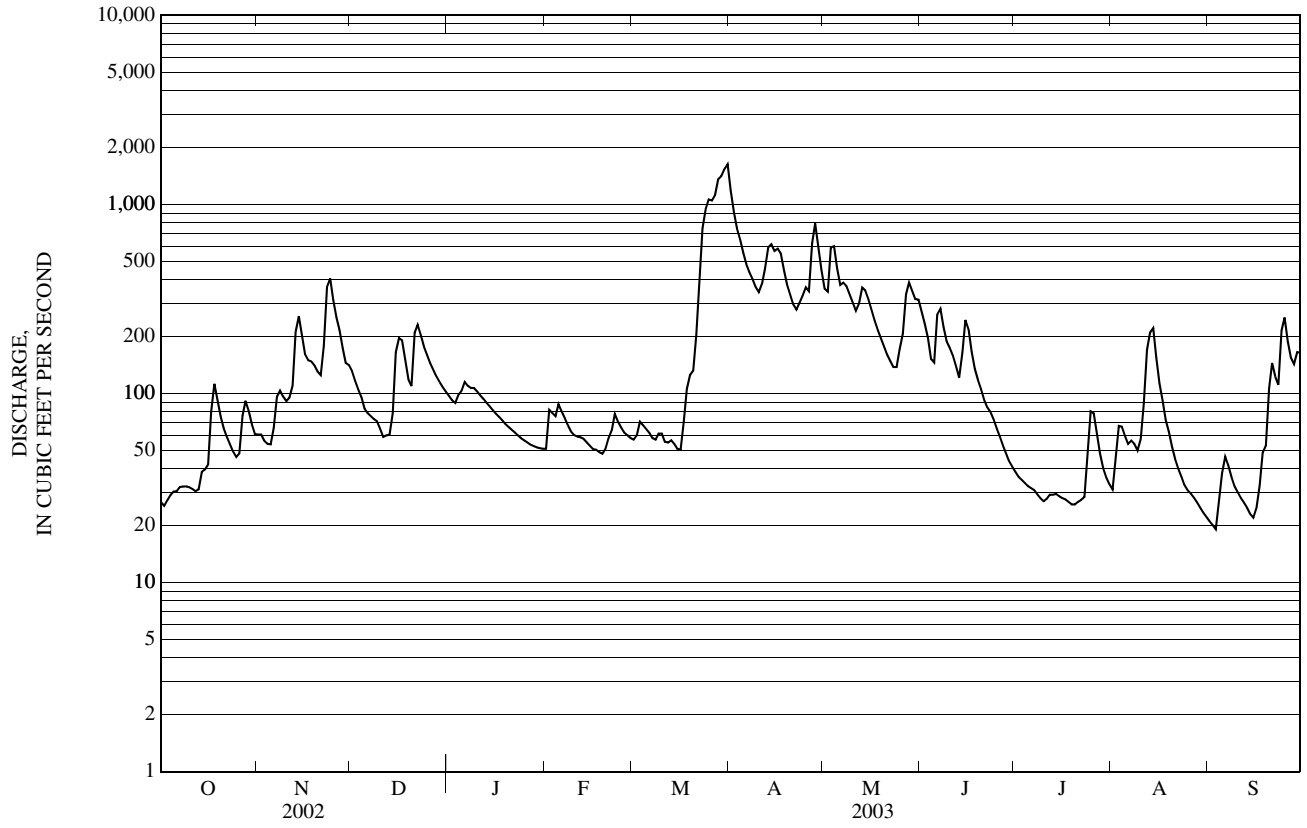
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2003, BY WATER YEAR (WY)

MEAN	161	304	291	213	222	487	958	445	224	117	79.5	79.3
MAX	852	828	1,384	827	1,066	1,747	1,769	1,102	696	641	440	883
(WY)	(1978)	(1984)	(1974)	(1978)	(1970)	(1953)	(1969)	(1989)	(1984)	(1996)	(1976)	(1954)
MIN	22.1	45.3	46.4	38.2	40.3	101	333	148	44.7	23.7	20.5	13.1
(WY)	(1948)	(1953)	(1979)	(1948)	(1980)	(1967)	(1981)	(1959)	(1964)	(1965)	(1970)	(1995)

e Estimated

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1941 - 2003	
ANNUAL TOTAL	81,594		61,922			
ANNUAL MEAN	224		170		298	
HIGHEST ANNUAL MEAN					482	1984
LOWEST ANNUAL MEAN					144	1965
HIGHEST DAILY MEAN	2,080	Apr 4	1,630	Mar 31	10,800	Mar 27, 1953
LOWEST DAILY MEAN	11	Sep 8	19	Sep 3	5.8	Aug 28, 1956
ANNUAL SEVEN-DAY MINIMUM	12	Sep 8	22	Aug 28	6.6	Aug 24, 1956
MAXIMUM PEAK FLOW			1,750	Mar 31	13,900	Mar 27, 1953
MAXIMUM PEAK STAGE			4.28	Mar 31	11.18	Mar 27, 1953
INSTANTANEOUS LOW FLOW			18	Sep 3	5.6	Aug 29, 1956
ANNUAL RUNOFF (CFSM)	1.32		1.00		1.76	
ANNUAL RUNOFF (INCHES)	17.96		13.63		23.98	
10 PERCENT EXCEEDS	598		379		725	
50 PERCENT EXCEEDS	110		80		145	
90 PERCENT EXCEEDS	20		30		35	



01056400 THE BASIN OUTLET AT NORTH AUBURN, ME

LOCATION.--Lat 44°10'38", long 70°16'37", Androscoggin County, Hydrologic Unit 01040002, on left bank at upstream side of dam at the outlet of the Basin, 0.1 mi upstream from North Auburn Road bridge and 0.2 mi upstream from Lake Auburn.

DRAINAGE AREA.-- 8.01 mi^2.

PERIOD OF RECORD.--
DISCHARGE: February 2000 to July 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 266.13 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Satellite gage-height telemeter at station.

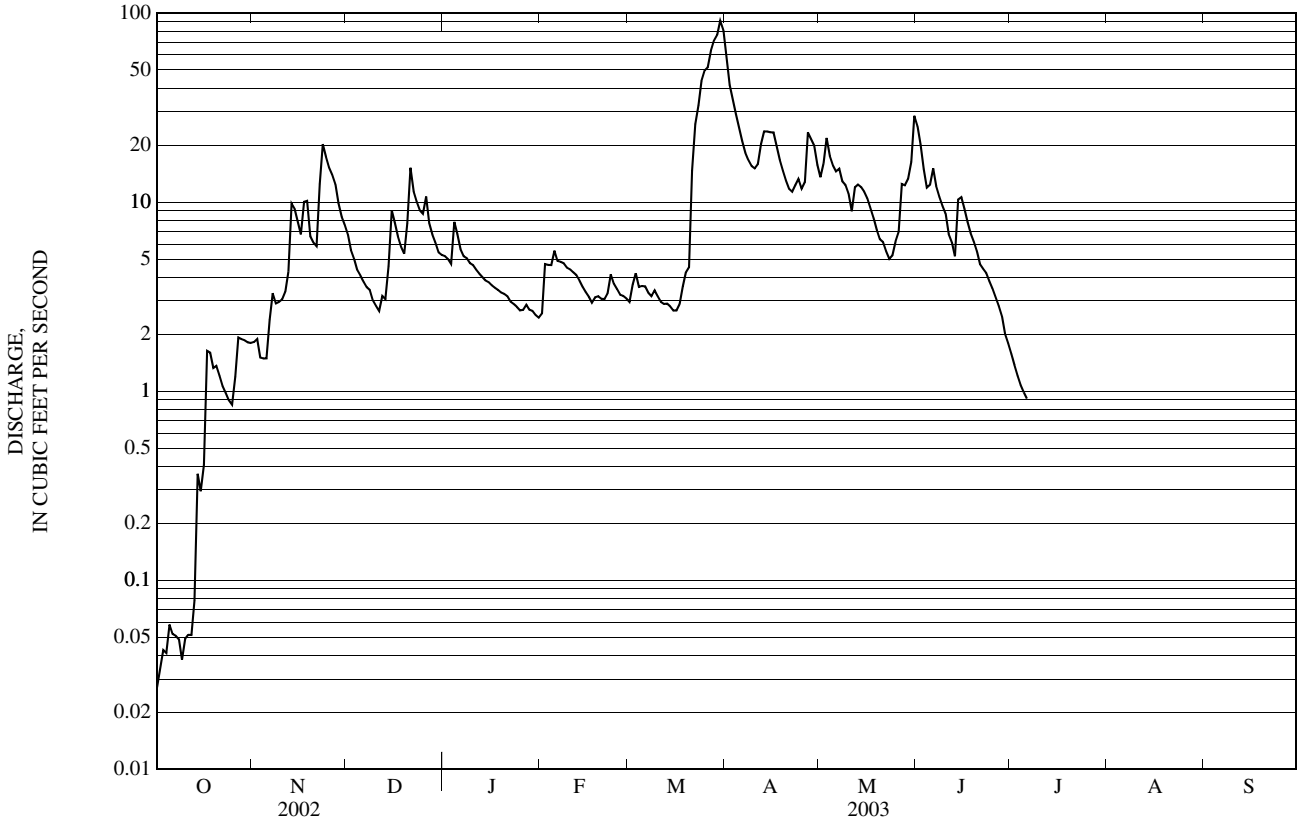
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 164 ft^3/s, Mar. 29, 2000, gage height, 3.73 ft; maximum gage height, 3.93 ft, due to installation of weir, Mar. 30, 2003; no flow, Aug. 3 to Nov. 25, 2001 and Aug. 13 to Sept. 27, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge for period Oct. 1 to July 6, 96 ft^3/s, Mar. 30, gage height, 3.93 ft; minimum discharge for period Oct. 1 to July 6, 0.03 ft^3/s, Oct. 1-2, gage height, 2.91 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	1.8	6.7	5.2	2.6	3.0	56	14	25	1.6	---	---
2	0.03	1.9	5.6	5.0	4.7	3.7	42	16	20	1.4	---	---
3	0.04	1.5	5.0	4.7	4.7	4.2	35	22	15	1.2	---	---
4	0.04	1.5	4.4	7.9	4.6	3.6	29	18	12	1.1	---	---
5	0.06	1.5	4.1	6.8	5.5	3.6	25	16	12	0.98	---	---
6	0.05	2.4	3.8	5.6	4.9	3.6	21	15	15	0.91	---	---
7	0.05	3.3	3.6	5.2	4.8	3.3	18	15	12	---	---	---
8	0.05	2.9	3.4	5.1	4.7	3.2	17	13	11	---	---	---
9	0.04	3.0	3.0	4.8	4.5	3.4	16	12	9.6	---	---	---
10	0.05	3.1	2.8	4.6	4.4	3.2	15	11	8.7	---	---	---
11	0.05	3.4	2.7	4.4	4.3	3.0	16	9.0	6.8	---	---	---
12	0.05	4.3	3.2	4.2	4.1	2.9	20	12	6.1	---	---	---
13	0.08	9.8	3.1	4.0	3.9	2.9	24	12	5.2	---	---	---
14	0.37	9.2	4.6	3.9	3.6	2.8	24	12	10	---	---	---
15	0.30	7.9	9.1	3.8	3.4	2.7	23	11	11	---	---	---
16	0.41	6.8	7.8	3.6	3.2	2.7	23	10	9.2	---	---	---
17	1.6	10	6.6	3.5	2.9	2.9	20	9.3	7.9	---	---	---
18	1.6	10	5.8	3.4	3.1	3.6	17	8.2	6.9	---	---	---
19	1.3	6.6	5.3	3.3	3.2	4.2	15	7.2	6.2	---	---	---
20	1.4	6.1	7.7	3.3	3.1	4.5	13	6.4	5.5	---	---	---
21	1.2	5.8	15	3.2	3.1	15	12	6.1	4.7	---	---	---
22	1.1	12	11	3.0	3.3	26	11	5.5	4.4	---	---	---
23	0.98	20	10	2.9	4.1	32	12	5.0	4.2	---	---	---
24	0.90	17	9.1	2.8	3.7	44	13	5.2	3.8	---	---	---
25	0.85	15	8.7	2.7	3.5	50	12	6.2	3.5	---	---	---
26	1.2	14	11	2.7	3.2	52	13	6.9	3.1	---	---	---
27	1.9	12	7.8	2.9	3.2	63	23	12	2.8	---	---	---
28	1.9	9.9	6.7	2.7	3.1	72	22	12	2.5	---	---	---
29	1.9	8.4	6.1	2.7	---	77	20	13	2.0	---	---	---
30	1.8	7.6	5.4	2.5	---	91	16	16	1.8	---	---	---
31	1.8	---	5.3	2.4	---	81	---	29	---	---	---	---
TOTAL	23.13	218.7	194.4	122.8	107.4	670.0	623	366.0	247.9	---	---	---
MEAN	0.75	7.29	6.27	3.96	3.84	21.6	20.8	11.8	8.26	---	---	---
MAX	1.9	20	15	7.9	5.5	91	56	29	25	---	---	---
MIN	0.03	1.5	2.7	2.4	2.6	2.7	11	5.0	1.8	---	---	---
CFSM	0.09	0.91	0.78	0.49	0.48	2.70	2.59	1.47	1.03	---	---	---

01056400 THE BASIN OUTLET AT NORTH AUBURN, ME—Continued



01056480 TOWNSEND BROOK NEAR AUBURN, ME

LOCATION.--Lat 44°09'56", long 70°14'18", Androscoggin County, Hydrologic Unit 01040002, on left bank at upstream side of unnamed culvert crossing, 0.5 mi upstream from mouth, and 1.7 mi north of East Auburn.

DRAINAGE AREA.--1.88 mi^2.

PERIOD OF RECORD.--
DISCHARGE: April 2000 to July 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 266.78 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of doubtful stage-discharge relation, Oct. 1-31 and Nov. 10 to Jan. 28, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37 ft^3/s, Dec. 18, 2000, gage height, 2.93 ft; minimum discharge, 0.43 ft^3/s, Jan. 8 and Feb. 4, 2002, gage height, 1.29 ft.

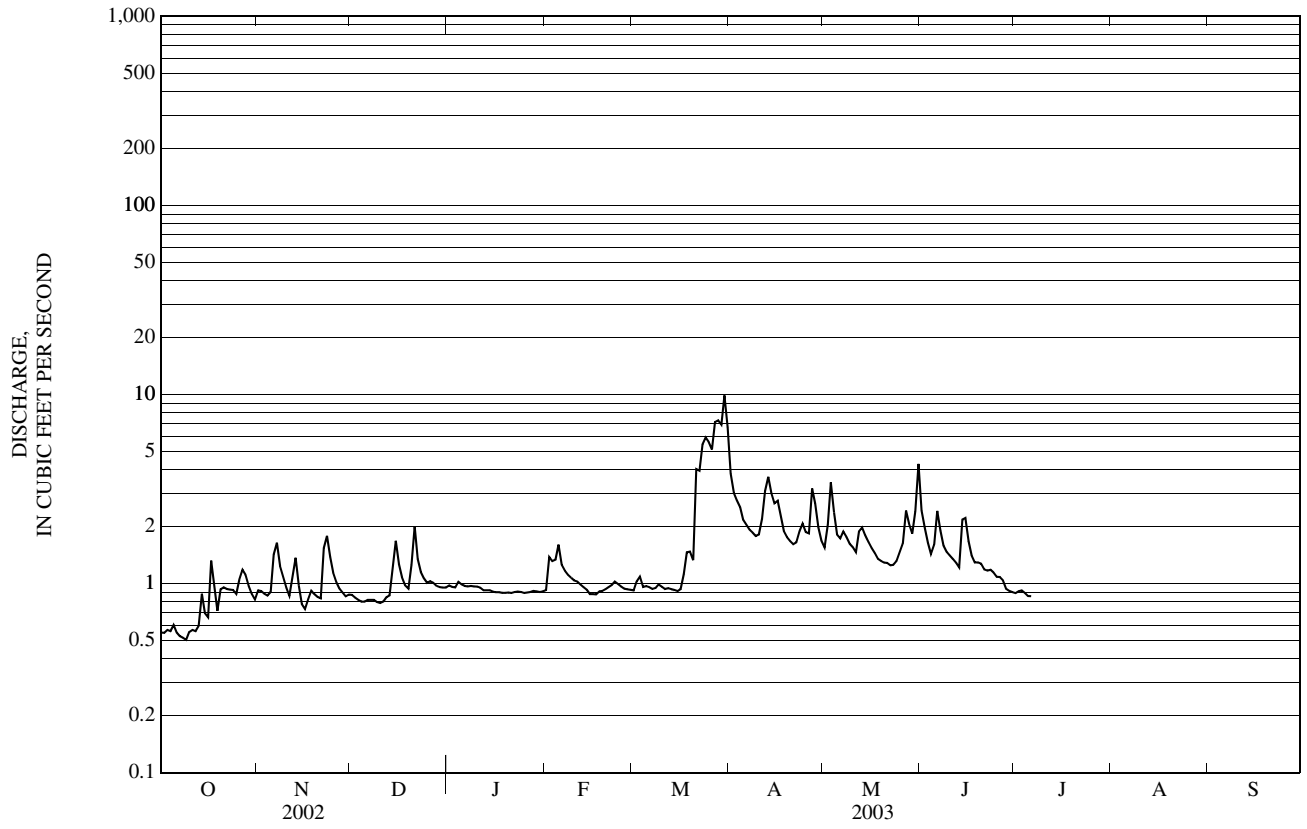
EXTREMES FOR CURRENT YEAR.--Maximum discharge for period Oct.1 to July 6, 11 ft^3/s, Mar. 30, gage height, 2.24 ft; minimum discharge for period Oct. 1 to July 6, 0.48 ft^3/s, Nov. 2, gage height, 1.31 ft, but may have been less during period of backwater from debris.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.55	0.92	e0.87	e0.98	0.92	0.92	3.8	1.6	2.4	0.89	---	---
2	e0.55	0.91	e0.84	e0.96	1.4	1.0	3.0	2.0	2.0	0.91	---	---
3	e0.57	0.88	e0.82	e0.95	1.3	1.1	2.8	3.4	1.6	0.92	---	---
4	e0.56	0.86	e0.80	e1.0	1.3	0.96	2.5	2.4	1.4	0.89	---	---
5	e0.60	0.90	e0.80	e0.99	1.6	0.97	2.2	1.8	1.6	0.86	---	---
6	e0.55	1.4	e0.82	e0.97	1.3	0.96	2.0	1.7	2.4	0.86	---	---
7	e0.53	1.6	e0.82	e0.97	1.2	0.94	1.9	1.9	1.9	---	---	---
8	e0.52	1.2	e0.82	e0.97	1.1	0.95	1.9	1.8	1.6	---	---	---
9	e0.50	1.1	e0.80	e0.97	1.1	0.99	1.8	1.6	1.5	---	---	---
10	e0.55	e0.95	e0.79	e0.96	1.0	0.96	1.8	1.6	1.4	---	---	---
11	e0.57	e0.86	e0.80	e0.95	1.0	0.94	2.2	1.5	1.3	---	---	---
12	e0.56	e1.1	e0.85	e0.92	0.99	0.95	3.1	1.9	1.3	---	---	---
13	e0.60	e1.4	e0.87	e0.92	0.96	0.93	3.7	2.0	1.2	---	---	---
14	e0.88	e0.97	e1.2	e0.92	0.93	0.93	3.0	1.8	2.2	---	---	---
15	e0.70	e0.78	e1.7	e0.91	0.88	0.91	2.7	1.7	2.2	---	---	---
16	e0.66	e0.73	e1.3	e0.90	0.88	0.93	2.7	1.5	1.7	---	---	---
17	e1.3	e0.83	e1.1	e0.90	0.88	1.1	2.3	1.5	1.4	---	---	---
18	e0.96	e0.92	e0.98	e0.89	0.91	1.5	1.9	1.4	1.3	---	---	---
19	e0.72	e0.88	e0.94	e0.89	0.91	1.5	1.8	1.3	1.3	---	---	---
20	e0.93	e0.85	e1.3	e0.90	0.94	1.3	1.7	1.3	1.3	---	---	---
21	e0.96	e0.84	e2.0	e0.89	0.96	4.0	1.6	1.3	1.2	---	---	---
22	e0.94	e1.5	e1.3	e0.90	0.98	4.0	1.7	1.2	1.2	---	---	---
23	e0.93	e1.8	e1.1	e0.91	1.0	5.4	1.9	1.3	1.2	---	---	---
24	e0.92	e1.4	e1.1	e0.90	0.99	5.9	2.1	1.3	1.1	---	---	---
25	e0.88	e1.1	e1.0	e0.89	0.96	5.6	1.9	1.5	1.1	---	---	---
26	e1.0	e1.0	e1.0	e0.90	0.94	5.1	1.8	1.6	1.1	---	---	---
27	e1.2	e0.94	e1.0	e0.90	0.93	7.2	3.2	2.4	1.0	---	---	---
28	e1.1	e0.89	e0.97	e0.91	0.93	7.3	2.7	2.1	0.94	---	---	---
29	e0.97	e0.86	e0.96	0.91	---	6.9	2.0	1.8	0.91	---	---	---
30	e0.88	e0.88	e0.95	0.90	---	9.9	1.7	2.4	0.90	---	---	---
31	e0.82	---	e0.95	0.91	---	6.7	---	4.3	---	---	---	---
TOTAL	23.96	31.25	31.55	28.74	29.19	88.74	69.4	56.9	43.65	---	---	---
MEAN	0.77	1.04	1.02	0.93	1.04	2.86	2.31	1.84	1.46	---	---	---
MAX	1.3	1.8	2.0	1.0	1.6	9.9	3.8	4.3	2.4	---	---	---
MIN	0.50	0.73	0.79	0.89	0.88	0.91	1.6	1.2	0.90	---	---	---
CFSM	0.41	0.55	0.54	0.49	0.55	1.52	1.23	0.98	0.77	---	---	---

e Estimated

01056480 TOWNSEND BROOK NEAR AUBURN, ME—Continued



01056505 BOBBIN MILL BROOK NEAR AUBURN, ME

LOCATION.--Lat 44°08'32", long 70°13'34", Androscoggin County, Hydrologic Unit 01040002, on right bank 10 ft upstream from Oak Hill Road culvert and 900 ft downstream from Lake Auburn dam, and in East Auburn.

DRAINAGE AREA.--18.3 mi^2.

PERIOD OF RECORD.--
DISCHARGE: August 1999 to July 2003 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 232.44 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, except for flows below 1.0 ft^3/s, periods of doubtful stage-discharge relation, Oct. 1 to Mar. 10 and Mar. 18-27, and periods of no gage-height record, Mar. 11-17, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129 ft^3/s, Apr. 24, 2001, gage height, 2.47 ft; minimum daily discharge, 0.03 ft^3/s, Dec. 4-13, 2002.

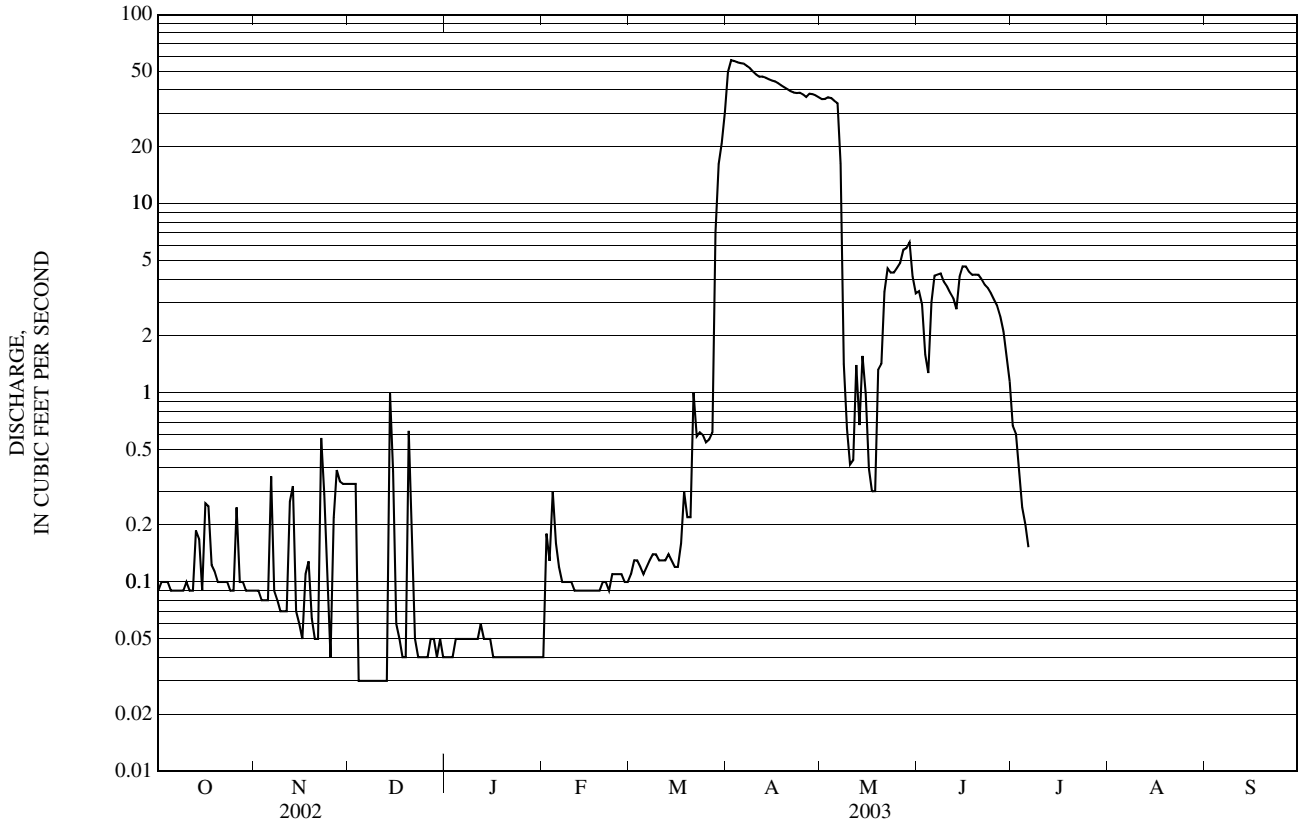
EXTREMES FOR CURRENT YEAR.--Maximum discharge for period Oct. 1 to July 6, 59 ft^3/s, Apr. 2, gage height, 1.85 ft; minimum daily discharge for period Oct. 1 to July 6, 0.03 ft^3/s, Dec. 4-13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.09	e0.09	e0.33	e0.04	e0.04	e0.11	50	36	3.5	0.67	---	---
2	e0.10	e0.09	e0.33	e0.04	e0.18	e0.13	57	36	2.9	0.61	---	---
3	e0.10	e0.08	e0.33	e0.04	e0.13	e0.13	57	37	1.6	0.39	---	---
4	e0.10	e0.08	e0.03	e0.05	e0.30	e0.12	56	36	1.3	0.25	---	---
5	e0.09	e0.08	e0.03	e0.05	e0.16	e0.11	56	35	3.0	0.20	---	---
6	e0.09	e0.36	e0.03	e0.05	e0.12	e0.12	55	34	4.2	0.15	---	---
7	e0.09	e0.09	e0.03	e0.05	e0.10	e0.13	54	16	4.2	---	---	---
8	e0.09	e0.08	e0.03	e0.05	e0.10	e0.14	52	1.4	4.3	---	---	---
9	e0.09	e0.07	e0.03	e0.05	e0.10	e0.14	50	0.65	3.9	---	---	---
10	e0.10	e0.07	e0.03	e0.05	e0.10	e0.13	48	0.42	3.6	---	---	---
11	e0.09	e0.07	e0.03	e0.05	e0.09	e0.13	47	0.44	3.4	---	---	---
12	e0.09	e0.27	e0.03	e0.06	e0.09	e0.13	47	1.4	3.2	---	---	---
13	e0.19	e0.32	e0.03	e0.05	e0.09	e0.14	46	0.68	2.8	---	---	---
14	e0.17	e0.07	e0.99	e0.05	e0.09	e0.13	46	1.6	4.1	---	---	---
15	e0.09	e0.06	e0.39	e0.05	e0.09	e0.12	45	0.99	4.7	---	---	---
16	e0.26	e0.05	e0.06	e0.04	e0.09	e0.12	44	0.40	4.7	---	---	---
17	e0.25	e0.11	e0.05	e0.04	e0.09	e0.16	44	0.30	4.4	---	---	---
18	e0.12	e0.13	e0.04	e0.04	e0.09	e0.30	42	0.30	4.2	---	---	---
19	e0.11	e0.06	e0.04	e0.04	e0.09	e0.22	41	1.3	4.2	---	---	---
20	e0.10	e0.05	e0.63	e0.04	e0.10	e0.22	40	1.4	4.2	---	---	---
21	e0.10	e0.05	e0.22	e0.04	e0.10	e1.0	39	3.4	4.0	---	---	---
22	e0.10	e0.58	e0.05	e0.04	e0.09	e0.59	39	4.6	3.7	---	---	---
23	e0.10	e0.29	e0.04	e0.04	e0.11	e0.62	39	4.3	3.6	---	---	---
24	e0.09	e0.09	e0.04	e0.04	e0.11	e0.60	39	4.3	3.4	---	---	---
25	e0.09	e0.04	e0.04	e0.04	e0.11	e0.55	38	4.6	3.1	---	---	---
26	e0.25	e0.22	e0.04	e0.04	e0.11	e0.57	37	4.9	2.9	---	---	---
27	e0.10	e0.39	e0.05	e0.04	e0.10	e0.62	38	5.7	2.5	---	---	---
28	e0.10	e0.34	e0.05	e0.04	e0.10	7.0	38	5.8	2.1	---	---	---
29	e0.09	e0.33	e0.04	e0.04	---	16	37	6.3	1.6	---	---	---
30	e0.09	e0.33	e0.05	e0.04	---	21	37	4.1	1.1	---	---	---
31	e0.09	---	e0.04	e0.04	---	31	---	3.4	---	---	---	---
TOTAL	3.61	4.94	4.15	1.37	3.07	82.48	1,358	292.68	100.4	---	---	---
MEAN	0.12	0.16	0.13	0.044	0.11	2.66	45.3	9.44	3.35	---	---	---
MAX	0.26	0.58	0.99	0.06	0.30	31	57	37	4.7	---	---	---
MIN	0.09	0.04	0.03	0.04	0.04	0.11	37	0.30	1.1	---	---	---

e Estimated

01056505 BOBBIN MILL BROOK NEAR AUBURN, ME—Continued



01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°18'12", long 70°32'22", Oxford County, Hydrologic Unit 01040002, on island 50 ft upstream from Snow Falls, and 6 mi upstream from South Paris.

DRAINAGE AREA.--73.5 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1913 to April 1924, October 1931 to current year.
CHEMICAL ANALYSES: Water year 1958.

REVISED RECORDS.--WSP 1301: 1915-23(M). WDR ME-81-1: Drainage area. WDR ME-97-1: 1914-23(M) 1933-83(M).

GAGE.--Water-stage recorder. Datum of gage is 447.00 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 30, 1924, nonrecording gage, and Oct. 1, 1931, to Apr. 19, 1982, water-stage recorder at site 1.0 mi downstream at datum 52.52 ft lower. Apr. 19, 1982 to Sept. 27, 1983, water-stage recorder at site 1.0 mi downstream at datum 57.00 ft lower.

REMARKS.--Records good, except for period of ice-effect, Nov. 27 to Mar. 21, which is fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,340 ft^3/s, Apr. 1, 1987, gage height, 12.22 ft, from rating curve extended above 5,500 ft^3/s, on basis of slope-area measurement of peak flow; minimum discharge, 0.60 ft^3/s, Sept. 17 and 21, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	1015	*1,020	*5.87

No other peak greater than base discharge.

Minimum discharge, 4.2 ft^3/s, Oct. 2, gage height, 1.66 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	21	e48	e36	e19	e20	372	162	80	11	8.1	5.2
2	4.4	19	e38	e35	e20	e20	274	198	81	9.2	20	5.0
3	5.2	17	e37	e33	e21	e21	236	370	68	8.3	29	4.7
4	6.8	16	e31	e34	e23	e22	212	254	56	7.5	23	23
5	9.2	17	e29	e38	e24	e22	177	195	63	6.9	24	36
6	14	20	e29	e37	e26	e22	162	167	159	6.6	36	22
7	11	41	e26	e36	e26	e22	142	184	114	6.0	38	17
8	9.2	38	e25	e35	e25	e22	134	158	87	5.9	31	13
9	8.3	34	e23	e36	e25	e22	123	137	76	5.5	27	10
10	7.7	33	e20	e34	e24	e22	120	125	81	4.9	65	8.3
11	7.7	49	e19	e33	e24	e22	157	111	65	6.2	88	7.3
12	7.9	64	e21	e31	e24	e21	200	168	57	12	113	6.6
13	8.5	129	e24	e30	e23	e21	306	193	48	11	163	6.0
14	14	107	e31	e29	e22	e21	286	176	111	7.6	112	5.7
15	16	76	e72	e27	e21	e20	266	147	136	6.2	68	6.0
16	15	58	e69	e27	e19	e20	331	126	97	5.6	48	11
17	38	54	e55	e26	e18	e22	262	109	71	6.5	39	33
18	35	59	e48	e24	e18	e28	192	97	56	6.3	37	21
19	24	54	e42	e23	e18	e41	162	87	49	14	32	17
20	22	49	e44	e23	e19	e48	149	78	42	13	25	58
21	20	47	e83	e22	e20	e91	142	71	36	8.9	21	49
22	17	80	e79	e21	e20	209	135	67	33	7.9	18	35
23	16	183	e70	e19	e21	263	162	60	32	9.2	15	54
24	15	162	e61	e19	e22	297	188	63	29	25	12	237
25	14	114	e52	e18	e22	299	190	80	25	55	10	120
26	17	90	e49	e18	e22	282	183	90	21	32	9.6	86
27	59	e76	e45	e19	e21	481	510	184	19	22	8.5	70
28	43	e60	e41	e20	e21	529	366	153	16	18	7.1	60
29	32	e51	e40	e19	---	500	250	129	14	15	6.3	67
30	26	e52	e36	e19	---	911	193	109	12	11	6.1	61
31	22	---	e35	e18	---	621	---	95	---	9.2	5.6	---
TOTAL	549.9	1,870	1,322	839	608	4,962	6,582	4,343	1,834	373.4	1,145.3	1,154.8
MEAN	17.7	62.3	42.6	27.1	21.7	160	219	140	61.1	12.0	36.9	38.5
MAX	59	183	83	38	26	911	510	370	159	55	163	237
MIN	4.4	16	19	18	18	20	120	60	12	4.9	5.6	4.7
CFSM	0.24	0.85	0.58	0.37	0.30	2.18	2.99	1.91	0.83	0.16	0.50	0.52
IN.	0.28	0.95	0.67	0.42	0.31	2.51	3.33	2.20	0.93	0.19	0.58	0.58

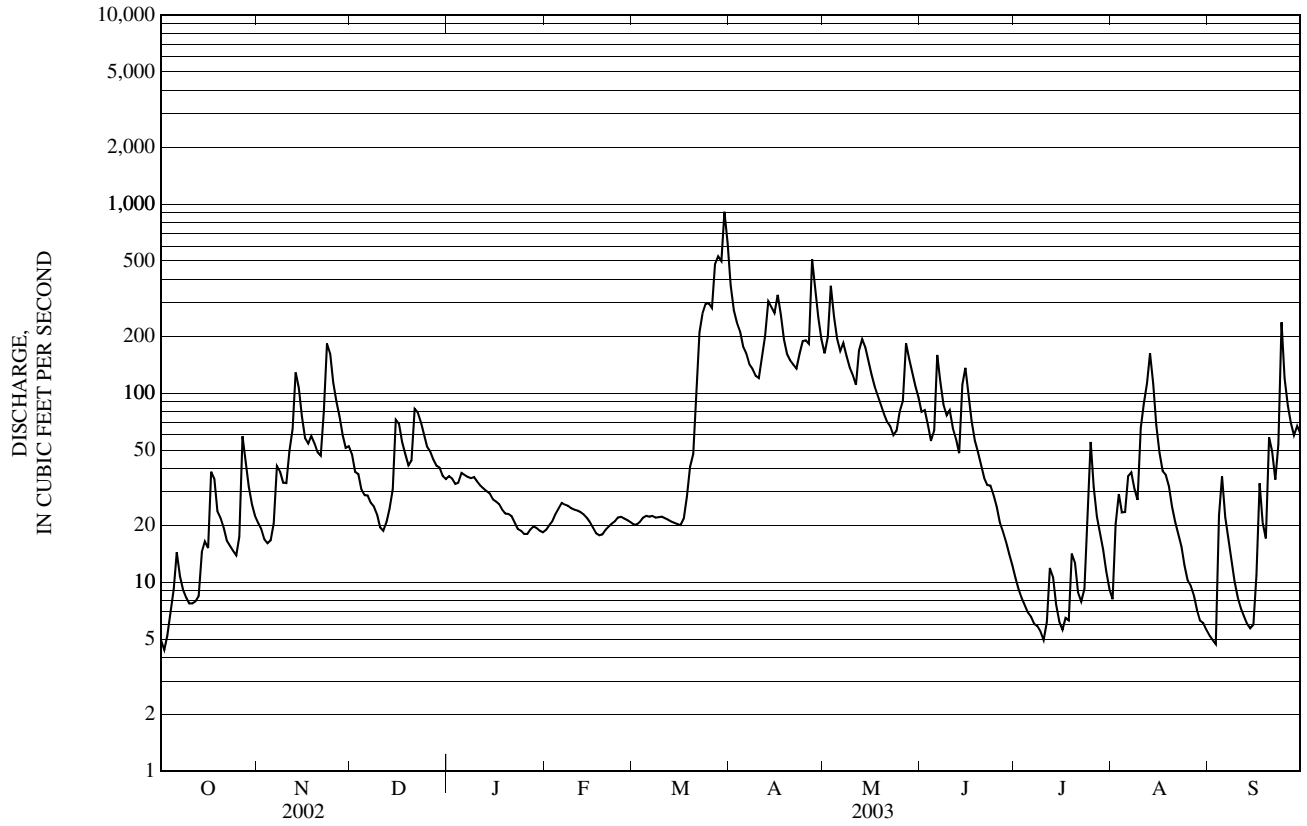
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2003, BY WATER YEAR (WY)

MEAN	76.5	136	126	87.7	82.5	209	462	213	111	51.3	36.9	41.0
MAX	457	421	608	303	380	1,133	855	531	464	257	193	354
(WY)	(1978)	(1964)	(1974)	(1978)	(1970)	(1936)	(1969)	(1989)	(1917)	(1973)	(1973)	(1954)
MIN	6.14	13.6	9.71	16.2	2.61	31.3	147	63.1	16.7	6.45	4.01	1.28
(WY)	(1948)	(1953)	(1923)	(1948)	(1920)	(1940)	(1995)	(1941)	(1964)	(1991)	(1995)	(1995)

e Estimated

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1914 - 2003	
ANNUAL TOTAL	38,023.3		25,583.4			
ANNUAL MEAN	104		70.1		136	
HIGHEST ANNUAL MEAN					219	1973
LOWEST ANNUAL MEAN					62.9	1965
HIGHEST DAILY MEAN	1,320	Apr 14	911	Mar 30	6,760	Apr 1, 1987
LOWEST DAILY MEAN	1.3	Sep 12	4.4	Oct 2	0.65	Sep 17, 1995
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 9	5.7	Aug 28	0.69	Sep 15, 1995
MAXIMUM PEAK FLOW			1,020	Mar 30	9,340	Apr 1, 1987
MAXIMUM PEAK STAGE			5.87	Mar 30	12.22	Apr 1, 1987
INSTANTANEOUS LOW FLOW			4.2	Oct 2	0.60	Sep 17, 1995
ANNUAL RUNOFF (CFSM)	1.42		0.95		1.85	
ANNUAL RUNOFF (INCHES)	19.24		12.95		25.16	
10 PERCENT EXCEEDS	272		183		327	
50 PERCENT EXCEEDS	44		32		62	
90 PERCENT EXCEEDS	3.6		8.3		11	



01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, Hydrologic Unit 01040002, on right bank 1.5 mi downstream from Little Androscoggin River, and 2.1 mi downstream from North Bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,263 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.
CHEMICAL ANALYSES: Water years 1952-56, 1966 to 1975.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36. WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, Umbagog, Auburn, and Thompson Lakes and Gulf Island Pond with major regulation at Errol Dam, 136 mi upstream, combined usable capacity about 30,703,860,000 ft^3. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft^3/s, Mar. 20, 1936, gage height, 27.57 ft, from rating curve extended above 76,000 ft^3/s, on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily discharge, 340 ft^3/s, Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,300 ft^3/s, Mar. 31, gage height, 9.92 ft; minimum daily discharge, 1,620 ft^3/s, Oct. 6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

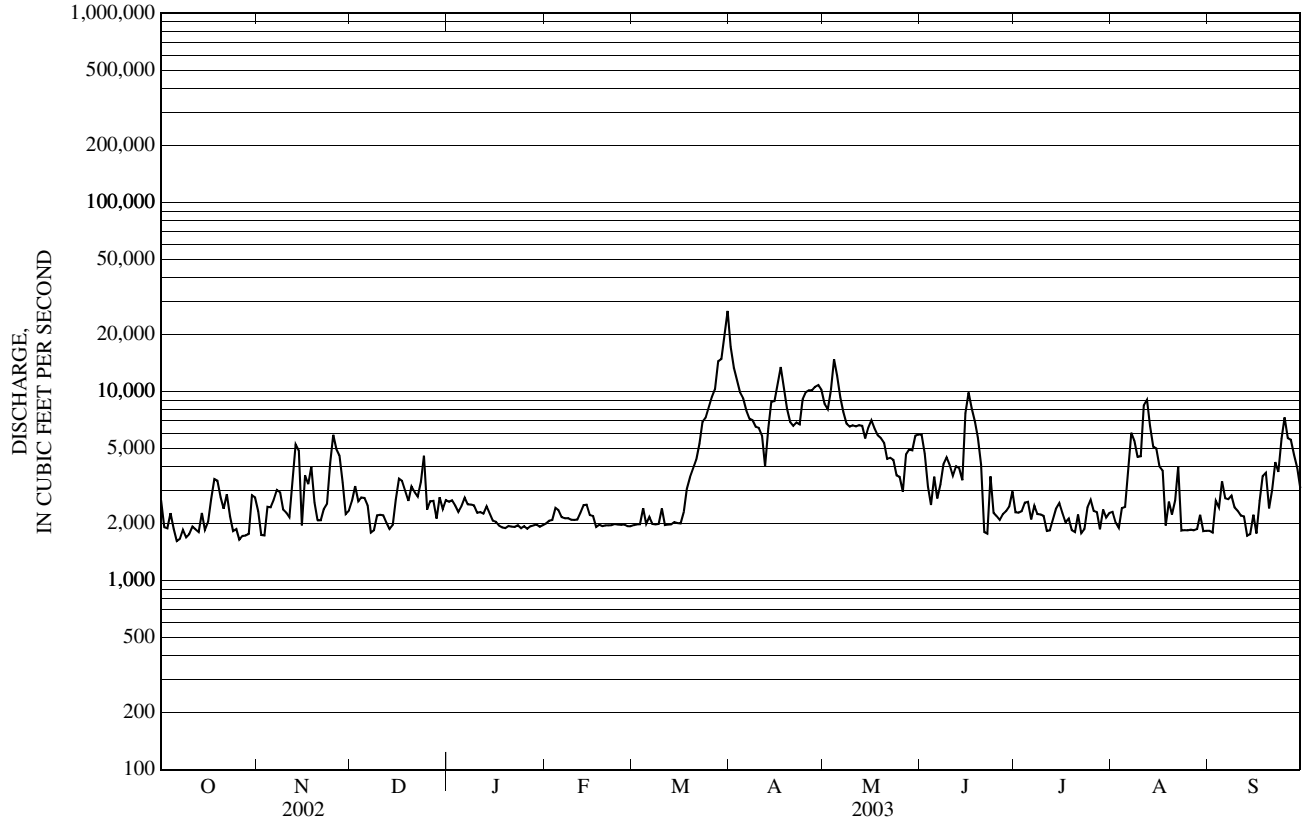
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,660	2,330	2,640	2,610	2,000	1,960	17,200	8,600	5,920	2,300	2,310	1,830
2	1,910	1,740	3,160	2,650	2,070	1,980	13,400	8,060	4,680	2,290	2,030	1,800
3	1,890	1,730	2,630	2,490	2,100	1,990	11,500	10,100	3,140	2,330	1,900	2,650
4	2,270	2,460	2,750	2,310	2,420	2,410	9,880	14,800	2,510	2,590	2,410	2,440
5	1,880	2,440	2,740	2,480	2,360	1,990	9,210	12,100	3,550	2,610	2,450	3,350
6	1,620	2,670	2,500	2,740	2,170	2,170	7,940	9,330	2,720	2,110	3,750	2,720
7	1,660	3,010	1,790	2,530	2,140	1,990	7,180	7,790	3,230	2,490	6,060	2,690
8	1,860	2,930	1,840	2,530	2,140	1,980	7,060	6,770	4,120	2,250	5,510	2,810
9	1,690	2,380	2,210	2,500	2,100	1,990	6,510	6,530	4,480	2,240	4,520	2,440
10	1,760	2,290	2,230	2,280	2,090	2,410	6,420	6,630	4,100	2,200	4,550	2,340
11	1,930	2,170	2,220	2,310	2,100	1,970	5,840	6,530	3,580	1,830	8,450	2,210
12	1,870	3,390	2,020	2,260	2,280	1,980	4,020	6,630	4,020	1,850	9,050	2,190
13	1,810	5,250	1,870	2,470	2,510	1,980	6,370	6,580	3,930	2,110	6,570	1,730
14	2,280	4,870	1,970	2,270	2,520	2,040	8,840	5,650	3,390	2,410	5,100	1,760
15	1,850	1,960	2,680	2,070	2,220	2,020	8,910	6,460	7,670	2,570	5,000	2,230
16	2,050	3,610	3,460	2,050	2,190	2,010	10,900	7,050	9,870	2,270	4,010	1,770
17	2,700	3,230	3,370	1,950	1,920	2,310	13,500	6,370	8,170	2,030	3,810	2,640
18	3,440	4,010	2,990	1,910	1,970	3,060	10,400	5,860	6,970	2,130	1,950	3,570
19	3,380	2,590	2,640	1,890	1,940	3,530	8,130	5,670	5,710	1,850	2,610	3,720
20	2,760	2,080	3,150	1,940	1,960	3,940	6,900	5,350	4,100	1,810	2,240	2,410
21	2,400	2,090	2,930	1,930	1,960	4,360	6,590	4,400	1,800	2,230	2,660	3,010
22	2,860	2,390	2,780	1,920	1,970	5,300	6,860	4,460	1,770	1,780	4,020	4,230
23	2,180	2,550	3,330	1,960	1,990	6,910	6,710	4,350	3,560	1,870	1,840	3,750
24	1,830	4,190	4,570	1,890	1,980	7,270	9,100	3,600	2,290	2,440	1,850	5,640
25	1,870	5,910	2,370	1,940	1,970	8,220	9,930	3,540	2,190	2,670	1,840	7,280
26	1,640	4,960	2,620	1,880	1,980	9,370	10,200	2,950	2,100	2,340	1,860	5,670
27	1,720	4,590	2,640	1,940	1,940	10,300	10,200	4,660	2,250	2,300	1,840	5,550
28	1,730	3,300	2,130	1,960	1,940	14,500	10,600	4,940	2,340	1,870	1,870	4,630
29	1,760	2,250	2,750	1,980	---	14,900	10,800	4,890	2,470	2,380	2,230	3,950
30	2,830	2,340	2,390	1,930	---	19,700	10,200	5,840	2,960	2,150	1,830	3,080
31	2,750	---	2,660	1,960	---	26,700	---	5,930	---	2,280	1,840	---
TOTAL	66,840	91,710	82,030	67,530	58,930	173,240	271,300	202,420	119,590	68,580	107,960	96,090
MEAN	2,156	3,057	2,646	2,178	2,105	5,588	9,043	6,530	3,986	2,212	3,483	3,203
MAX	3,440	5,910	4,570	2,740	2,520	26,700	17,200	14,800	9,870	2,670	9,050	7,280
MIN	1,620	1,730	1,790	1,880	1,920	1,960	4,020	2,950	1,770	1,780	1,830	1,730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	4,110	5,542	5,192	4,476	4,389	7,320	15,200	11,520	5,911	3,662	3,084	3,216
MAX	13,950	13,340	21,260	10,550	13,570	32,680	23,710	24,940	16,920	12,930	7,185	16,700
(WY)	(1978)	(1996)	(1974)	(1996)	(1970)	(1936)	(1993)	(1937)	(1998)	(1996)	(1976)	(1954)
MIN	1,848	1,904	1,845	1,852	1,881	2,384	5,722	3,688	2,518	2,039	1,762	1,439
(WY)	(2002)	(1953)	(1979)	(1948)	(1948)	(1940)	(1995)	(1941)	(1941)	(1965)	(1995)	(1995)

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	1,829,850		1,406,220			
ANNUAL MEAN	5,013		3,853		6,136	
HIGHEST ANNUAL MEAN					9,828	1996
LOWEST ANNUAL MEAN					3,500	1941
HIGHEST DAILY MEAN	39,900	Apr 15	26,700	Mar 31	114,000	Mar 20, 1936
LOWEST DAILY MEAN	1,510	Sep 10	1,620	Oct 6	340	Sep 28, 1941
ANNUAL SEVEN-DAY MINIMUM	1,570	Sep 4	1,770	Oct 6	1,320	Aug 29, 1995
MAXIMUM PEAK FLOW			28,300	Mar 31	135,000	Mar 20, 1936
MAXIMUM PEAK STAGE			9.92	Mar 31	27.57	Mar 20, 1936
10 PERCENT EXCEEDS	10,700		7,850		12,900	
50 PERCENT EXCEEDS	2,760		2,510		4,160	
90 PERCENT EXCEEDS	1,790		1,870		1,960	



01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft upstream from East Main Street bridge in Yarmouth.

DRAINAGE AREA.--141 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 9.51 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 30 to Dec. 9, Dec. 17-20, and Dec. 24 to Mar. 17, which are fair. Low flow may be regulated by operation of mills upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft^3/s, Mar. 13, 1977, gage height, 8.46 ft; minimum daily discharge, 5.7 ft^3/s, July 23, 1980, caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 31	0030	*1,830	*3.67

No other peak greater than base discharge.

Minimum daily discharge, 28 ft^3/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	68	e147	e133	e74	e97	1,100	222	254	43	35	30
2	43	62	e127	e134	e91	e106	709	227	217	40	50	30
3	40	61	e117	e132	e134	e163	556	473	166	39	111	30
4	39	58	e96	e130	e162	e188	491	380	132	39	83	51
5	39	54	e88	e128	e208	e174	417	278	132	39	76	86
6	38	131	e83	e131	e215	e183	372	223	209	46	71	68
7	36	395	e79	e131	e197	e168	363	212	171	53	69	53
8	35	278	e77	e129	e170	e152	331	201	139	48	70	45
9	33	178	e73	e128	e150	e148	313	190	122	45	71	40
10	31	136	68	e122	e134	e149	293	207	117	40	75	36
11	31	116	66	e120	e125	e139	300	175	106	41	70	33
12	30	111	68	e118	e115	e127	476	232	93	45	249	32
13	31	476	72	e117	e110	e134	572	294	82	48	293	30
14	40	608	160	e116	e106	e128	455	251	141	46	186	28
15	53	370	636	e115	e102	e118	370	213	216	41	120	29
16	59	238	599	e114	e100	e111	347	187	178	42	87	38
17	274	200	e345	e113	e98	e134	303	163	140	43	72	60
18	235	288	e212	e113	e96	248	252	144	116	46	67	60
19	135	355	e146	e113	e95	384	224	131	102	43	62	53
20	94	279	e196	e111	e93	394	209	120	89	40	55	82
21	76	248	837	e111	e92	789	195	115	78	38	51	94
22	66	528	657	e109	e92	1,370	189	127	71	36	47	67
23	59	1,040	374	e109	e114	1,400	221	121	139	37	44	59
24	54	827	e265	e106	e149	1,490	231	112	130	45	40	90
25	53	507	e198	e103	e150	1,400	221	140	85	55	38	94
26	62	349	e150	e100	e138	1,230	222	171	74	48	35	75
27	200	289	e162	e98	e122	1,520	730	461	62	41	35	74
28	155	227	e158	e93	e108	1,570	641	401	54	39	36	77
29	107	164	e149	e88	---	1,320	393	301	51	35	34	120
30	87	e169	e139	e82	---	1,600	281	233	47	36	33	128
31	75	---	e132	e77	---	1,680	---	342	---	38	30	---
TOTAL	2,360	8,810	6,676	3,524	3,540	18,814	11,777	7,047	3,713	1,315	2,395	1,792
MEAN	76.1	294	215	114	126	607	393	227	124	42.4	77.3	59.7
MAX	274	1,040	837	134	215	1,680	1,100	473	254	55	293	128
MIN	30	54	66	77	74	97	189	112	47	35	30	28
CFSM	0.54	2.08	1.53	0.81	0.90	4.30	2.78	1.61	0.88	0.30	0.55	0.42
IN.	0.62	2.32	1.76	0.93	0.93	4.96	3.11	1.86	0.98	0.35	0.63	0.47

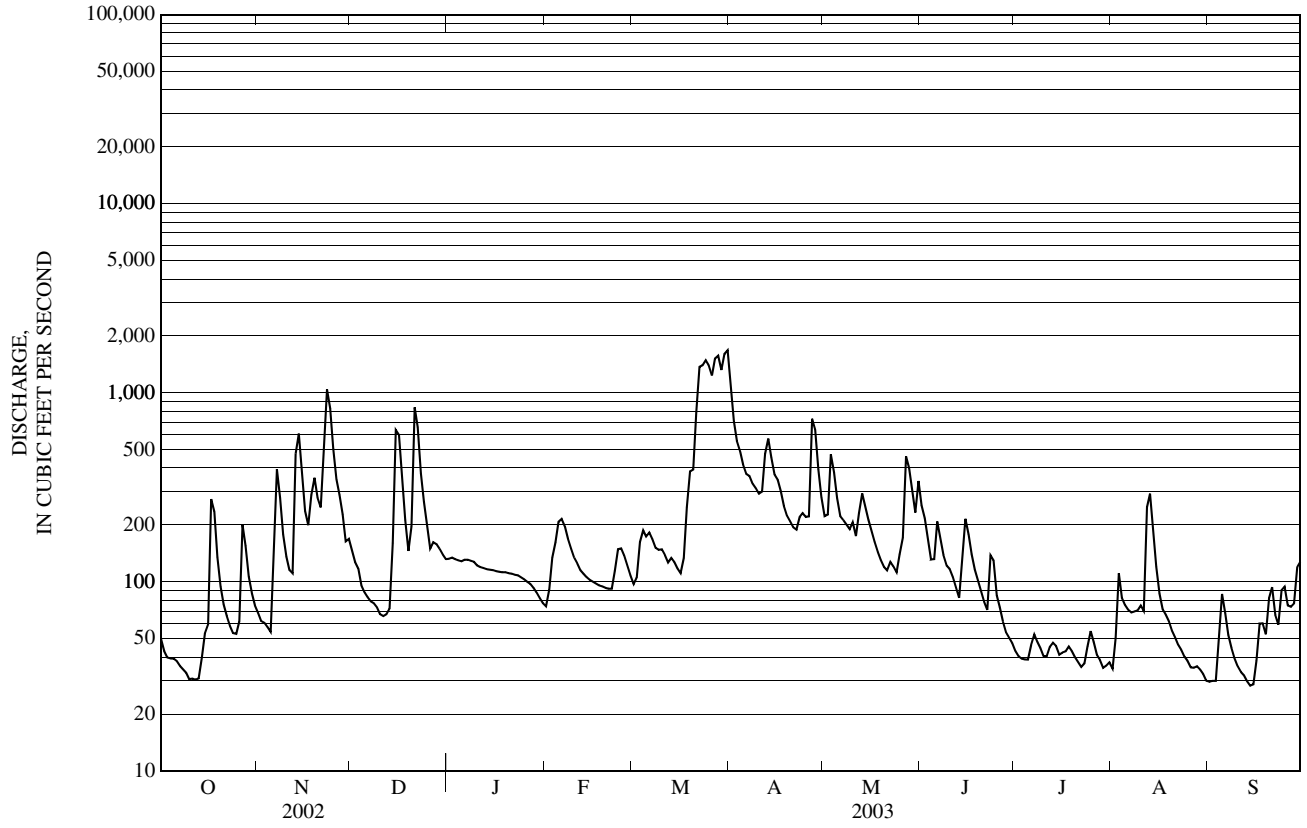
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2003, BY WATER YEAR (WY)

MEAN	141	303	299	225	235	556	734	317	184	90.8	74.0	85.5
MAX	682	851	1,210	704	658	1,603	1,372	1,085	739	434	679	822
(WY)	(1978)	(1984)	(1974)	(1978)	(1970)	(1977)	(1993)	(1989)	(1998)	(1996)	(1991)	(1954)
MIN	30.5	42.8	52.1	52.5	48.8	121	210	91.6	48.4	26.1	19.7	18.7
(WY)	(2002)	(1979)	(1979)	(1981)	(1980)	(1956)	(1985)	(1985)	(1985)	(1965)	(1965)	(1965)

e Estimated

01060000 ROYAL RIVER AT YARMOUTH, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1950 - 2003	
ANNUAL TOTAL	76,686		71,763			
ANNUAL MEAN	210		197		270	
HIGHEST ANNUAL MEAN					480	1984
LOWEST ANNUAL MEAN					132	1965
HIGHEST DAILY MEAN	1,540	Mar 4	1,680	Mar 31	9,980	Mar 13, 1977
LOWEST DAILY MEAN	19	Sep 14	28	Sep 14	5.7	Jul 23, 1980
ANNUAL SEVEN-DAY MINIMUM	20	Sep 9	32	Aug 28	17	Sep 24, 1965
MAXIMUM PEAK FLOW			1,830	Mar 31	11,500	Mar 13, 1977
MAXIMUM PEAK STAGE			3.67	Mar 31	8.46	Mar 13, 1977
ANNUAL RUNOFF (CFSM)	1.49		1.39		1.91	
ANNUAL RUNOFF (INCHES)	20.23		18.93		26.02	
10 PERCENT EXCEEDS	562		393		629	
50 PERCENT EXCEEDS	106		117		120	
90 PERCENT EXCEEDS	30		39		41	



01063310 STONY BROOK AT EAST SEBAGO, ME

LOCATION.--Lat 43°51'22", long 70°38'25", Cumberland County, Hydrologic Unit 01060001, on left bank at upstream side of culvert under State Route 11/114, 0.1 mile upstream from the Northwest River, and 0.6 mile upstream from mouth of Northwest River at Sebago Lake.

DRAINAGE AREA.--0.81 mi^2, furnished by Maine Department of Transportation.

PERIOD OF RECORD.--
DISCHARGE: October 1995 to current year.

REVISED RECORDS.--WDR ME-99-1: Drainage area.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 275.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Dec. 25-26, Jan. 1-5, Feb. 9, Mar. 1-2, periods of no gage-height record, Jan. 14-26, Feb. 14-18, and flows between 1.0 ft^3/s and 0.10 ft^3/s, which are fair, and flows below 0.10 ft^3/s, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130 ft^3/s, Sept. 17, 1999, gage height, 7.86 ft; minimum discharge, 0.01 ft^3/s, Sept. 18-19, 2001, and Aug. 19, 21, 27-28, and Sept. 10, 12-13, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	1730	*16	*5.01

Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peaks greater than base discharge.			

Minimum discharge, 0.07 ft^3/s, Oct. 12, 13, gage height, 3.56 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.19	0.40	1.1	e1.0	0.53	e0.55	7.6	2.5	2.2	0.32	0.31	0.16
2	0.15	0.33	0.89	e1.0	0.72	e0.64	6.4	2.9	2.2	0.28	1.4	0.16
3	0.14	0.27	0.82	e1.0	0.77	0.80	6.0	3.9	1.6	0.26	0.98	0.15
4	0.12	0.26	0.72	e1.0	0.92	0.74	5.2	3.1	1.4	0.24	0.72	0.47
5	0.13	0.25	0.66	e1.0	1.2	0.68	4.5	2.6	1.5	0.21	0.61	0.61
6	0.11	0.77	0.67	0.98	0.99	0.66	4.1	2.4	1.8	0.18	0.51	0.58
7	0.10	1.2	0.66	0.98	0.89	0.61	3.8	2.5	1.5	0.17	0.44	0.43
8	0.09	0.85	0.66	0.97	0.80	0.60	3.6	2.2	1.3	0.17	0.42	0.33
9	0.08	0.69	0.61	0.94	e0.74	0.62	3.4	2.2	1.2	0.16	0.39	0.25
10	0.08	0.59	0.53	0.90	0.69	0.58	3.3	2.1	1.1	0.15	0.42	0.20
11	0.08	0.51	0.50	0.85	0.66	0.55	3.6	1.8	0.94	0.30	0.73	0.16
12	0.07	0.71	0.59	0.80	0.61	0.55	5.0	2.7	0.87	0.29	4.6	0.13
13	0.11	2.7	0.62	0.77	0.53	0.56	5.2	2.8	0.82	0.24	4.2	0.14
14	0.25	1.8	1.7	e0.75	e0.49	0.52	4.6	2.4	2.7	0.20	2.3	0.13
15	0.24	1.4	3.5	e0.72	e0.47	0.50	4.3	2.1	2.0	0.17	1.4	0.12
16	0.32	1.0	2.5	e0.70	e0.45	0.52	4.9	1.8	1.5	0.23	1.2	0.55
17	1.6	1.3	1.8	e0.68	e0.43	0.74	4.7	1.6	1.1	0.23	1.5	0.73
18	1.0	1.6	1.3	e0.67	e0.42	1.3	4.1	1.5	0.91	0.21	2.2	0.51
19	0.70	1.4	1.1	e0.65	0.46	1.5	3.6	1.4	0.87	0.18	1.4	0.53
20	0.59	1.1	1.8	e0.64	0.52	1.3	4.5	1.3	0.79	0.24	0.95	0.91
21	0.46	0.97	2.8	e0.62	0.56	4.5	3.5	1.2	0.69	0.32	0.74	0.72
22	0.37	2.4	2.3	e0.60	0.61	5.0	3.1	1.3	0.73	0.25	0.61	0.54
23	0.31	3.4	1.8	e0.59	0.83	5.9	3.8	1.2	0.75	0.26	0.49	0.92
24	0.27	2.8	1.5	e0.58	0.81	6.6	3.7	1.2	0.68	0.22	0.40	1.9
25	0.25	2.3	e1.4	e0.57	0.71	7.2	3.0	1.7	0.57	0.21	0.34	1.2
26	0.58	1.9	e1.3	e0.57	0.64	7.4	4.3	2.2	0.52	0.20	0.31	0.91
27	1.2	1.7	1.3	0.56	0.63	9.7	7.3	3.9	0.47	0.17	0.28	0.79
28	0.82	1.4	1.2	0.54	0.56	10	4.8	3.1	0.43	0.16	0.25	0.70
29	0.64	1.2	1.2	0.52	---	11	3.5	3.2	0.39	0.12	0.22	0.64
30	0.54	1.1	1.1	0.49	---	14	2.8	2.6	0.36	0.11	0.20	0.53
31	0.46	---	1.0	0.50	---	11	---	2.1	---	0.10	0.17	---
TOTAL	12.05	38.30	39.63	23.14	18.64	106.82	132.2	69.5	33.89	6.55	30.69	16.10
MEAN	0.39	1.28	1.28	0.75	0.67	3.45	4.41	2.24	1.13	0.21	0.99	0.54
MAX	1.6	3.4	3.5	1.0	1.2	14	7.6	3.9	2.7	0.32	4.6	1.9
MIN	0.07	0.25	0.50	0.49	0.42	0.50	2.8	1.2	0.36	0.10	0.17	0.12
CFSM	0.48	1.58	1.58	0.92	0.82	4.25	5.44	2.77	1.39	0.26	1.22	0.66
IN.	0.55	1.76	1.82	1.06	0.86	4.91	6.07	3.19	1.56	0.30	1.41	0.74

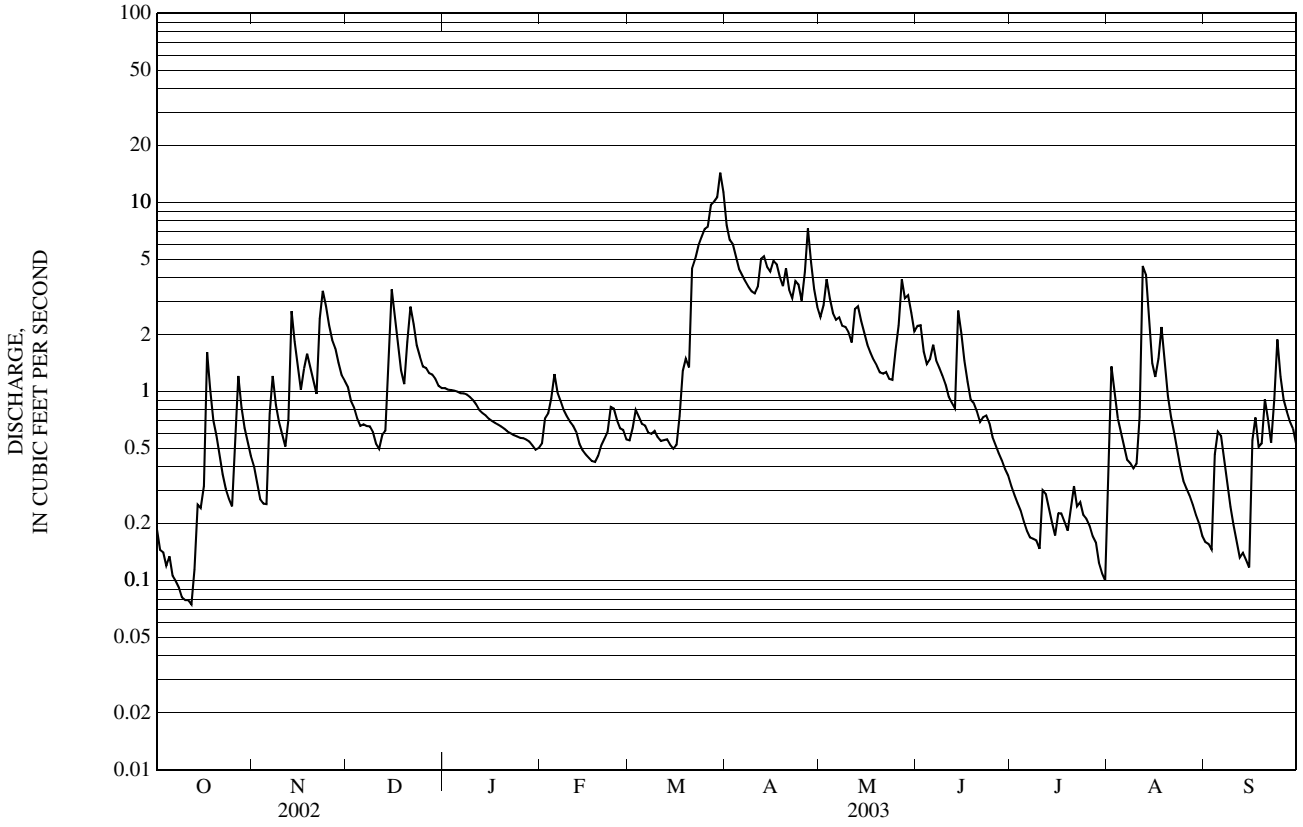
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2003, BY WATER YEAR (WY)

MEAN	1.48	1.55	1.54	1.35	1.47	4.05	4.81	2.19	1.56	0.63	0.42	0.79
MAX	4.86	3.03	4.72	2.41	2.86	8.23	7.72	3.41	6.18	1.55	0.99	4.51
(WY)	(1997)	(1996)	(1997)	(1996)	(1996)	(1999)	(2001)	(1996)	(1998)	(1998)	(2003)	(1999)
MIN	0.049	0.13	0.20	0.18	0.48	1.42	2.80	1.11	0.33	0.20	0.044	0.044
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(1999)	(2001)	(1999)	(1999)	(2002)	(2001)

e Estimated

01063310 STONY BROOK AT EAST SEBAGO, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1996 - 2003	
ANNUAL TOTAL	390.07		527.51			
ANNUAL MEAN	1.07		1.45		1.82	
HIGHEST ANNUAL MEAN					2.38	1999
LOWEST ANNUAL MEAN					0.85	2002
HIGHEST DAILY MEAN	12	May 14	14	Mar 30	66	Sep 17, 1999
LOWEST DAILY MEAN	0.01	Aug 18	0.07	Oct 12	0.01	Sep 12, 2001
ANNUAL SEVEN-DAY MINIMUM	0.01	Sep 8	0.09	Oct 6	0.01	Sep 12, 2001
MAXIMUM PEAK FLOW			16	Mar 30	130	Sep 17, 1999
MAXIMUM PEAK STAGE			5.01	Mar 30	7.86	Sep 17, 1999
INSTANTANEOUS LOW FLOW			0.07	Oct 12	0.01	Sep 18, 2001
ANNUAL RUNOFF (CFSM)	1.32		1.78		2.25	
ANNUAL RUNOFF (INCHES)	17.91		24.23		30.51	
10 PERCENT EXCEEDS	2.7		3.6		4.1	
50 PERCENT EXCEEDS	0.64		0.74		0.96	
90 PERCENT EXCEEDS	0.05		0.20		0.13	



01063995 SEBAGO LAKE NEAR NORTH WINDHAM, ME

LOCATION.--Lat 43°46'40", long 70°30'23", Cumberland County, Hydrologic Unit 01060001, 4.5 miles south of Sebago Lake outlet, and 0.2 miles west of State Route 35.

DRAINAGE AREA.--440 mi^2.

PERIOD OF RECORD.--
ELEVATION: November 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

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

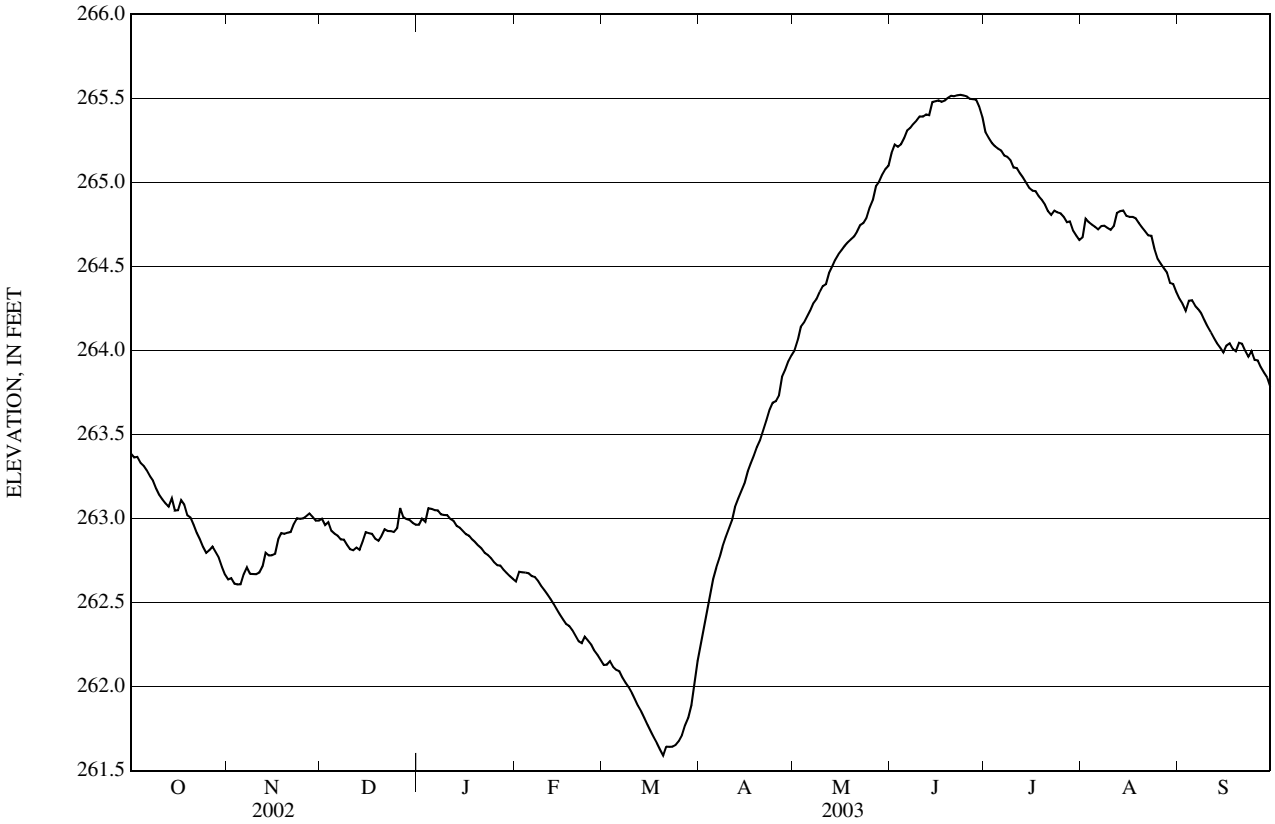
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 266.46 ft, June 19, 2002; minimum elevation, 260.56 ft, Feb. 10 and 20, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 265.58 ft, June 23; minimum elevation, 261.56 ft, Mar. 20.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263.39	262.64	263.00	262.96	262.62	262.13	262.26	264.00	265.17	265.30	264.67	264.31
2	263.36	262.64	262.96	263.00	262.68	262.13	262.37	264.06	265.23	265.27	264.78	264.28
3	263.37	262.61	262.98	262.98	262.68	262.15	262.46	264.14	265.21	265.24	264.76	264.24
4	263.33	262.61	262.93	263.06	262.68	262.12	262.55	264.17	265.23	265.22	264.75	264.30
5	263.31	262.61	262.91	263.06	262.67	262.10	262.64	264.20	265.26	265.20	264.74	264.30
6	263.29	262.67	262.90	263.05	262.66	262.09	262.71	264.24	265.31	265.19	264.72	264.27
7	263.25	262.71	262.88	263.05	262.65	262.05	262.77	264.28	265.32	265.16	264.74	264.25
8	263.23	262.67	262.87	263.03	262.63	262.02	262.83	264.31	265.35	265.15	264.74	264.22
9	263.18	262.67	262.84	263.02	262.60	262.00	262.89	264.35	265.37	265.13	264.73	264.18
10	263.14	262.67	262.82	263.02	262.58	261.96	262.94	264.38	265.39	265.09	264.72	264.14
11	263.11	262.68	262.81	263.00	262.55	261.93	262.99	264.39	265.39	265.09	264.74	264.11
12	263.09	262.72	262.83	262.99	262.52	261.88	263.07	264.46	265.40	265.05	264.82	264.07
13	263.07	262.80	262.81	262.96	262.49	261.85	263.12	264.50	265.40	265.03	264.83	264.04
14	263.12	262.78	262.86	262.95	262.46	261.81	263.16	264.54	265.48	265.00	264.83	264.02
15	263.05	262.78	262.92	262.93	262.43	261.77	263.21	264.57	265.48	264.97	264.80	263.99
16	263.05	262.79	262.91	262.91	262.40	261.74	263.28	264.60	265.49	264.95	264.80	264.03
17	263.11	262.88	262.91	262.90	262.37	261.70	263.33	264.62	265.48	264.95	264.79	264.04
18	263.08	262.91	262.88	262.88	262.36	261.66	263.38	264.64	265.49	264.92	264.79	264.01
19	263.02	262.91	262.87	262.86	262.34	261.63	263.43	264.66	265.50	264.90	264.76	264.00
20	263.01	262.92	262.90	262.84	262.30	261.59	263.47	264.68	265.52	264.87	264.73	264.05
21	262.96	262.92	262.94	262.82	262.27	261.64	263.53	264.71	265.51	264.83	264.71	264.04
22	262.91	262.97	262.93	262.80	262.26	261.64	263.58	264.75	265.52	264.81	264.69	264.00
23	262.88	263.00	262.93	262.78	262.30	261.64	263.65	264.76	265.52	264.83	264.68	263.96
24	262.83	263.00	262.92	262.76	262.27	261.65	263.69	264.79	265.52	264.82	264.61	264.00
25	262.80	263.00	262.94	262.74	262.25	261.68	263.70	264.85	265.51	264.82	264.55	263.94
26	262.81	263.01	263.06	262.72	262.22	261.71	263.73	264.89	265.50	264.80	264.52	263.94
27	262.83	263.03	263.01	262.72	262.19	261.77	263.84	264.98	265.50	264.76	264.49	263.90
28	262.80	263.01	263.00	262.70	262.16	261.81	263.89	265.00	265.49	264.77	264.46	263.87
29	262.77	262.99	262.99	262.68	---	261.89	263.94	265.05	265.45	264.71	264.40	263.84
30	262.71	262.99	262.97	262.66	---	262.02	263.97	265.08	265.39	264.68	264.40	263.78
31	262.67	---	262.96	262.64	---	262.15	---	265.10	---	264.66	264.35	---
MEAN	263.05	262.82	262.92	262.89	262.45	261.87	263.21	264.57	265.41	264.97	264.68	264.07
MAX	263.39	263.03	263.06	263.06	262.68	262.15	263.97	265.10	265.52	265.30	264.83	264.31
MIN	262.67	262.61	262.81	262.64	262.16	261.59	262.26	264.00	265.17	264.66	264.35	263.78

01063995 SEBAGO LAKE NEAR NORTH WINDHAM, ME—Continued



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 miles downstream from Cumberland Street Bridge in Westbrook, and at SAPPI Fine Paper bridge.

DRAINAGE AREA.--577 mi^2.

PERIOD OF RECORD.--
GAGE HEIGHT: Novermber 1998 to current year.
DISCHARGE: October 1975 to September 1995. Prior to October 1984, published as "near West Falmouth".

GAGE.--Water-stage recorder. Datum of gage 13.42 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage height affected by regulation of Sebago Lake and many small power plants upstream. Satellite gage-height telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Oct. 22, 1996 reached a stage of 34.10 ft, from floodmarks.

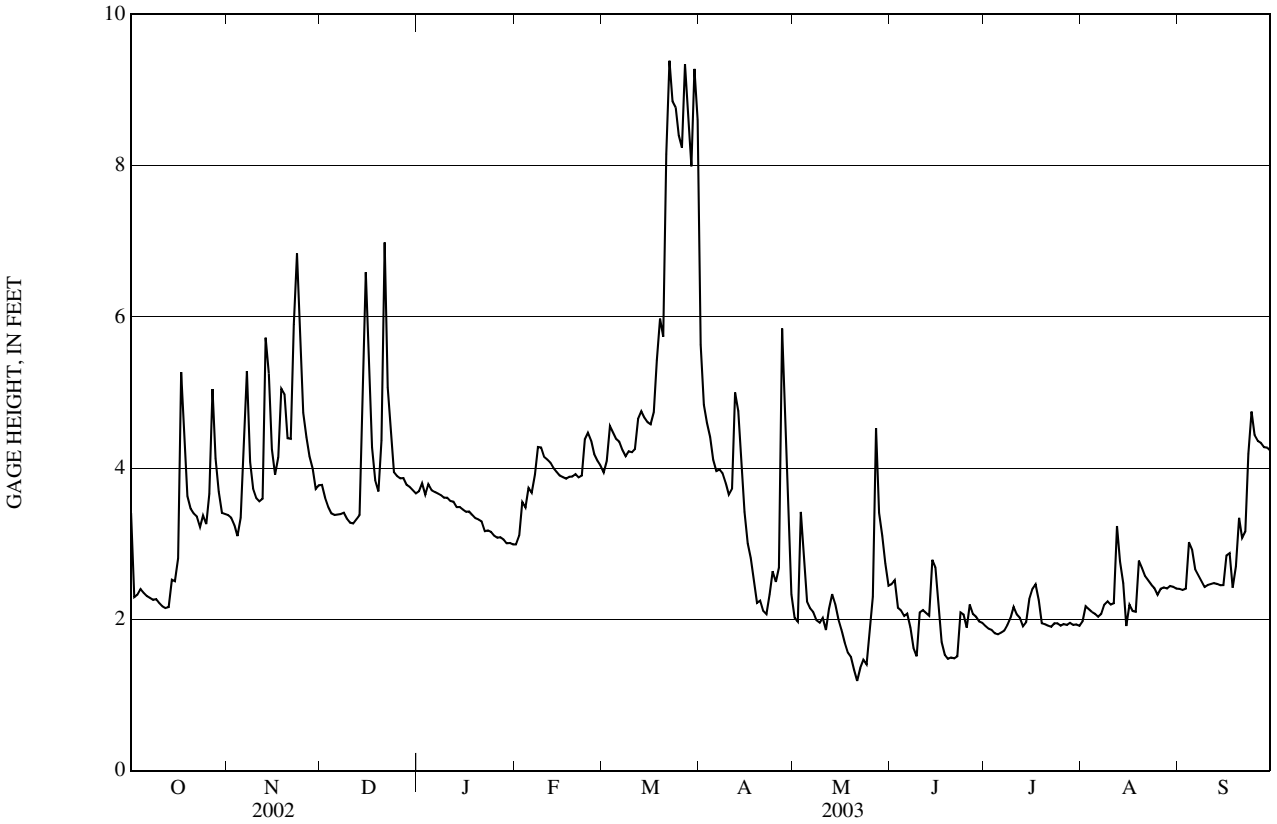
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.32 ft, Sept. 17, 1999; minimum gage height, 1.04 ft, May 21, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.43 ft, Mar. 21; minimum gage height, 1.04 ft, May 21.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.41	3.38	3.78	3.69	2.99	3.94	5.63	2.02	2.47	1.91	1.98	2.40
2	2.29	3.34	3.61	3.80	3.11	4.10	4.84	1.97	2.52	1.88	2.17	2.39
3	2.32	3.25	3.48	3.65	3.55	4.56	4.60	3.42	2.15	1.86	2.13	2.41
4	2.40	3.10	3.40	3.79	3.48	4.47	4.41	2.81	2.12	1.82	2.10	3.02
5	2.35	3.34	3.38	3.71	3.74	4.38	4.11	2.24	2.04	1.80	2.07	2.93
6	2.31	4.23	3.39	3.68	3.67	4.35	3.96	2.15	2.08	1.83	2.03	2.66
7	2.29	5.28	3.39	3.67	3.91	4.24	3.98	2.10	1.89	1.85	2.07	2.58
8	2.26	4.08	3.41	3.64	4.28	4.16	3.93	1.99	1.62	1.93	2.20	2.50
9	2.27	3.73	3.33	3.61	4.27	4.22	3.80	1.96	1.51	2.02	2.24	2.43
10	2.22	3.60	3.28	3.61	4.15	4.21	3.65	2.02	2.09	2.17	2.20	2.45
11	2.17	3.56	3.27	3.57	4.11	4.25	3.73	1.86	2.12	2.07	2.21	2.47
12	2.15	3.59	3.32	3.56	4.07	4.65	5.00	2.14	2.08	2.02	3.24	2.48
13	2.16	5.73	3.38	3.48	4.00	4.75	4.75	2.33	2.05	1.91	2.76	2.47
14	2.52	5.25	4.79	3.49	3.95	4.67	4.15	2.21	2.79	1.96	2.48	2.45
15	2.51	4.25	6.59	3.45	3.90	4.61	3.42	2.00	2.69	2.27	1.91	2.45
16	2.81	3.91	5.39	3.42	3.88	4.58	3.01	1.86	2.23	2.41	2.19	2.84
17	5.27	4.14	4.28	3.43	3.86	4.74	2.81	1.70	1.70	2.46	2.11	2.88
18	4.38	5.05	3.84	3.38	3.89	5.43	2.52	1.56	1.53	2.26	2.10	2.42
19	3.63	4.98	3.69	3.34	3.89	5.98	2.22	1.50	1.48	1.95	2.78	2.70
20	3.46	4.40	4.37	3.32	3.92	5.74	2.25	1.33	1.50	1.93	2.68	3.34
21	3.40	4.39	6.98	3.30	3.88	8.15	2.11	1.19	1.49	1.92	2.57	3.08
22	3.36	5.90	5.07	3.17	3.90	9.39	2.07	1.36	1.51	1.90	2.52	3.16
23	3.22	6.84	4.45	3.17	4.38	8.85	2.33	1.47	2.09	1.95	2.46	4.19
24	3.38	5.62	3.95	3.16	4.47	8.77	2.64	1.41	2.07	1.95	2.41	4.75
25	3.26	4.73	3.89	3.11	4.36	8.40	2.50	1.80	1.89	1.92	2.33	4.44
26	3.66	4.41	3.86	3.08	4.19	8.24	2.69	2.30	2.20	1.94	2.40	4.36
27	5.05	4.16	3.87	3.09	4.10	9.34	5.84	4.53	2.07	1.93	2.42	4.34
28	4.13	3.99	3.78	3.06	4.03	8.67	4.12	3.41	2.03	1.95	2.41	4.28
29	3.69	3.73	3.75	3.01	---	7.99	3.04	3.10	1.97	1.93	2.44	4.27
30	3.41	3.77	3.71	3.01	---	9.28	2.33	2.74	1.95	1.93	2.43	4.23
31	3.39	---	3.67	2.99	---	8.60	---	2.45	---	1.91	2.41	---
MEAN	3.07	4.32	4.01	3.40	3.93	6.06	3.55	2.16	2.00	1.99	2.34	3.11
MAX	5.27	6.84	6.98	3.80	4.47	9.39	5.84	4.53	2.79	2.46	3.24	4.75
MIN	2.15	3.10	3.27	2.99	2.99	3.94	2.07	1.19	1.48	1.80	1.91	2.39

01064118 PRESUMPSCOT RIVER AT WESTBROOK, ME—Continued



01064500 SACO RIVER NEAR CONWAY, NH

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

DRAINAGE AREA.--385 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1903 to December 1909, February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912 published as "at Center Conway".
GAGE HEIGHT: August to September 1903, January 1910 to June 1912.

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

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above National Geodetic Vertical Datum of 1929. Aug. 26, 1903 to June 30, 1912, nonrecording gage at site 0.8 mi downstream at different datum.

REMARKS.--Records good, except for periods of ice effect, Nov. 29 to Dec. 10, Dec. 17-19, Dec. 25 to Mar. 25, and period of no gage-height record, Jan. 19-27, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,200 ft^3/s, Mar. 27, 1953, gage height, 17.20 ft; maximum gage height, 19.03 ft, Mar. 7, 1979 (backwater from ice); minimum discharge, 40 ft^3/s, Mar. 16, 1932, gage height, 1.61 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 10	1545	*11,700	*8.88

No other peak greater than base discharge.

Minimum discharge, 126 ft^3/s, Oct. 4, gage height, 2.11 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	303	e477	e382	e319	e204	2,190	1,810	921	259	172	278
2	142	284	e435	e372	e327	e200	1,770	2,280	949	236	322	268
3	132	233	e397	e362	e345	e192	1,510	4,130	859	232	403	261
4	127	233	e362	e345	e332	e185	1,340	2,290	738	224	299	704
5	152	236	e331	e356	e296	e204	1,200	1,840	749	215	386	790
6	266	254	e307	e334	e253	e200	1,110	1,690	1,310	207	2,060	475
7	202	302	e290	e313	e251	e205	983	1,590	1,040	195	1,450	377
8	167	262	e272	e300	e258	e217	943	1,500	864	194	902	328
9	149	266	e251	e299	e265	e215	869	1,350	781	185	738	296
10	139	302	e243	e280	e258	e203	822	1,310	775	179	6,830	276
11	138	926	324	e264	e238	e214	926	1,190	699	242	3,580	261
12	139	1,560	366	e266	e226	e219	958	2,010	654	465	2,420	248
13	143	1,650	367	e253	e199	e208	1,370	1,840	576	299	2,270	236
14	163	1,300	396	e236	e176	e184	1,360	1,850	1,030	240	1,550	232
15	211	924	497	e216	e181	e200	1,530	1,510	1,140	210	1,170	245
16	187	738	446	e246	e194	e189	3,870	1,290	855	200	969	581
17	917	680	e329	e253	e219	e210	2,750	1,170	706	230	829	826
18	698	718	e282	e234	e241	e368	1,820	1,080	618	215	820	478
19	434	617	e310	e246	e264	e764	1,470	1,020	574	257	772	396
20	480	571	384	e262	e264	e607	1,460	968	529	247	646	1,180
21	447	572	982	e245	e251	e870	1,890	896	487	201	558	1,110
22	344	637	824	e229	e245	e1,920	2,120	835	457	221	502	705
23	292	1,550	619	e235	e239	e1,630	2,220	768	430	299	459	1,110
24	263	1,190	524	e248	e231	e1,430	1,890	749	397	302	408	3,190
25	237	910	e460	e262	e219	e1,420	1,510	816	374	364	380	1,380
26	251	782	e400	e272	e202	1,590	1,560	1,020	344	329	374	1,070
27	509	704	e422	e279	e219	2,650	4,260	1,880	323	251	356	900
28	518	586	e411	e279	e209	2,250	3,040	1,310	300	215	325	833
29	412	e570	e405	e298	---	2,540	2,810	1,270	278	197	305	1,050
30	349	e524	e389	e306	---	6,610	2,490	1,110	268	183	309	948
31	309	---	e387	e302	---	3,360	---	973	---	170	295	---
TOTAL	9,078	20,384	12,889	8,774	6,921	31,458	54,041	45,345	20,025	7,463	32,859	21,032
MEAN	293	679	416	283	247	1,015	1,801	1,463	668	241	1,060	701
MAX	917	1,650	982	382	345	6,610	4,260	4,130	1,310	465	6,830	3,190
MIN	127	233	243	216	176	184	822	749	268	170	172	232
CFSM	0.76	1.76	1.08	0.74	0.64	2.64	4.68	3.80	1.73	0.63	2.75	1.82
IN.	0.88	1.97	1.25	0.85	0.67	3.04	5.22	4.38	1.93	0.72	3.17	2.03

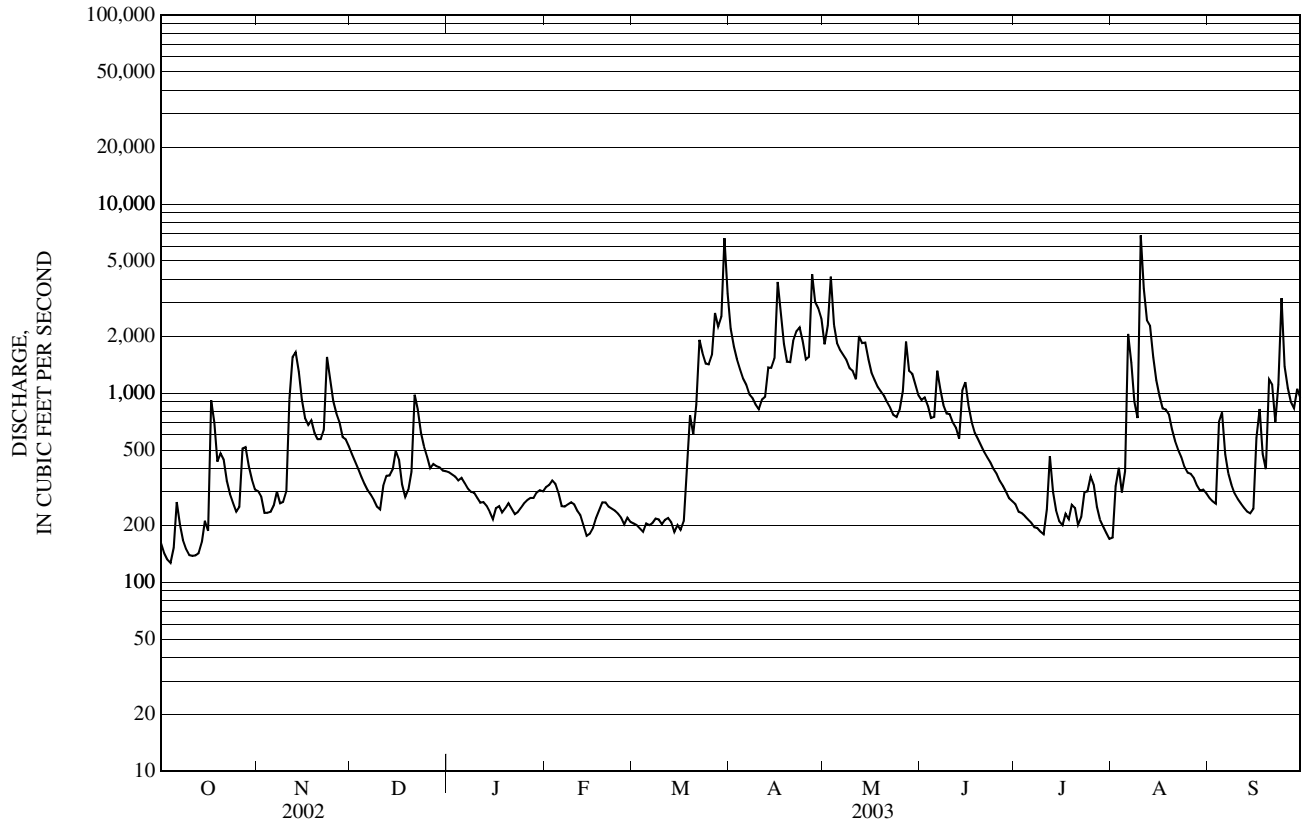
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2003, BY WATER YEAR (WY)

MEAN	635	944	756	566	504	969	2,620	2,212	845	435	361	392
MAX	2,369	2,493	2,656	1,887	3,170	5,986	4,564	4,609	3,644	2,043	1,685	1,794
(WY)	(1978)	(1908)	(1974)	(1986)	(1981)	(1936)	(1987)	(1940)	(1998)	(1973)	(1990)	(1954)
MIN	114	211	152	144	124	146	871	614	300	158	120	102
(WY)	(1948)	(1909)	(1956)	(1940)	(1940)	(1940)	(1995)	(1941)	(1964)	(1991)	(2001)	(1948)

e Estimated

01064500 SACO RIVER NEAR CONWAY, NH—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1904 - 2003	
ANNUAL TOTAL	267,818		270,269			
ANNUAL MEAN	734		740		937	
HIGHEST ANNUAL MEAN					1,463	1973
LOWEST ANNUAL MEAN					489	1965
HIGHEST DAILY MEAN	14,900	Apr 14	6,830	Aug 10	33,900	Mar 19, 1936
LOWEST DAILY MEAN	74	Sep 12	127	Oct 4	66	Aug 4, 1959
ANNUAL SEVEN-DAY MINIMUM	84	Sep 6	148	Oct 8	74	Aug 3, 1959
MAXIMUM PEAK FLOW			11,700	Aug 10	47,200	Mar 27, 1953
MAXIMUM PEAK STAGE			8.88	Aug 10	19.03	Mar 7, 1979
INSTANTANEOUS LOW FLOW			126	Oct 4	40	Mar 16, 1932
ANNUAL RUNOFF (CFSM)	1.91		1.92		2.43	
ANNUAL RUNOFF (INCHES)	25.88		26.11		33.07	
10 PERCENT EXCEEDS	1,550		1,640		2,170	
50 PERCENT EXCEEDS	382		386		459	
90 PERCENT EXCEEDS	110		203		184	



01066000 SACO RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'29", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft upstream from State Route 117 highway bridge at Cornish, and 0.4 mi downstream from Ossipee River.

DRAINAGE AREA.--1,293 mi^2.

PERIOD OF RECORD.--
DISCHARGE: June 1916 to current year.
CHEMICAL ANALYSES: Water years 1954, 1975-95.
SPECIFIC CONDUCTANCE: July 1975 to September 1981.
WATER TEMPERATURE: July 1975 to September 1981.

REVISED RECORDS.--WSP 1301: 1917-18(M). WDR ME-81-1: Drainage area. WDR ME-91-1: 1936 (M).

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1919, nonrecording gage at bridge 300 ft downstream at datum approximately 1.2 ft higher.

REMARKS.--Records good, except for period of ice effect, Dec. 25 to Mar. 28, and period of no gage-height record, Oct. 24 to Nov. 12, which are fair. Flow partly regulated by powerplants above station; by Ossipee, Silver, Conway, and Kezar Lakes; by Moose, Hancock, Pine River, Bickford and Colcord Ponds; combined capacity, 3.4 billion ft^3. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft^3/s, Mar. 21-22, 1936, gage height, 21.90 ft (from floodmarks); minimum daily discharge, 244 ft^3/s, Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,110 ft^3/s, Apr. 1, gage height, 7.89 ft; minimum daily discharge, 393 ft^3/s, Oct. 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	e909	2,250	e1,620	e919	e912	8,980	5,920	3,560	782	597	761
2	409	e919	2,080	e1,760	e961	e936	8,880	5,820	3,460	762	757	886
3	428	e929	1,900	e1,610	e961	e970	8,480	6,000	2,550	789	868	798
4	431	e832	1,670	e1,710	e927	e941	7,870	5,960	2,270	743	909	788
5	393	e712	1,690	e1,580	e1,010	e935	7,140	6,030	2,120	705	1,150	1,360
6	408	e839	1,270	e1,560	e1,030	e918	6,490	5,880	2,200	685	1,340	1,660
7	405	e990	1,240	e1,650	e973	e890	5,820	5,590	2,390	672	2,380	1,550
8	434	e1,070	1,420	e1,590	e1,000	e832	5,320	5,270	2,440	639	2,570	1,150
9	444	e984	1,720	e1,540	e994	e890	4,850	5,010	2,430	595	2,140	921
10	426	e916	2,010	e1,540	e1,010	e908	4,430	4,750	2,370	614	1,910	845
11	420	e1,040	1,810	e1,500	e994	e890	4,230	4,420	2,220	617	3,340	811
12	1,020	e1,280	1,830	e1,390	e1,020	e908	4,200	4,240	2,210	616	4,300	801
13	1,040	2,050	1,570	e1,280	e973	e897	4,330	3,990	2,080	604	5,180	708
14	1,020	1,960	1,540	e1,160	e986	e865	4,250	3,740	2,140	673	5,080	679
15	856	2,360	1,690	e1,070	e986	e890	4,380	3,740	2,210	648	4,960	698
16	842	2,420	1,660	e1,190	e990	e890	4,690	3,560	2,330	686	4,690	819
17	1,190	2,770	1,500	e1,110	e944	e886	4,950	3,310	2,070	628	4,300	750
18	1,260	2,740	1,660	e1,090	e941	e905	5,240	3,370	2,010	655	3,930	793
19	1,460	2,660	1,510	e1,210	e868	e916	5,390	3,220	2,020	586	3,010	951
20	1,340	2,570	1,390	e1,150	e889	e1,120	5,320	3,030	1,880	612	2,650	1,410
21	1,260	2,470	1,570	e1,060	e884	e1,450	5,110	2,920	1,810	599	2,370	1,320
22	955	2,500	1,660	e1,050	e879	e2,270	4,930	2,820	1,760	610	2,150	1,720
23	826	2,550	1,760	e1,010	e923	e2,750	4,960	2,610	1,580	551	1,720	2,220
24	e979	2,820	1,850	e1,110	e916	e3,030	4,960	2,520	1,520	571	1,660	2,940
25	e934	2,860	e1,780	e1,060	e912	e3,450	4,860	2,500	1,430	550	1,460	3,260
26	e985	2,890	e1,710	e1,060	e912	e4,090	4,820	2,560	1,190	628	1,330	3,290
27	e1,120	2,860	e1,640	e984	e938	e4,830	5,530	3,080	1,090	647	1,240	3,030
28	e1,410	2,590	e1,690	e984	e906	e5,630	5,740	3,730	885	602	1,050	2,880
29	e1,190	2,460	e1,670	e1,030	---	7,080	5,980	3,770	861	593	859	2,830
30	e1,130	2,350	e1,580	e1,060	---	8,190	6,080	3,740	938	591	874	2,630
31	e982	---	e1,520	e950	---	8,830	---	3,680	---	565	887	---
TOTAL	26,429	57,300	51,840	39,668	26,646	69,899	168,210	126,780	60,024	19,818	71,661	45,259
MEAN	853	1,910	1,672	1,280	952	2,255	5,607	4,090	2,001	639	2,312	1,509
MAX	1,460	2,890	2,250	1,760	1,030	8,830	8,980	6,030	3,560	789	5,180	3,290
MIN	393	712	1,240	950	868	832	4,200	2,500	861	550	597	679

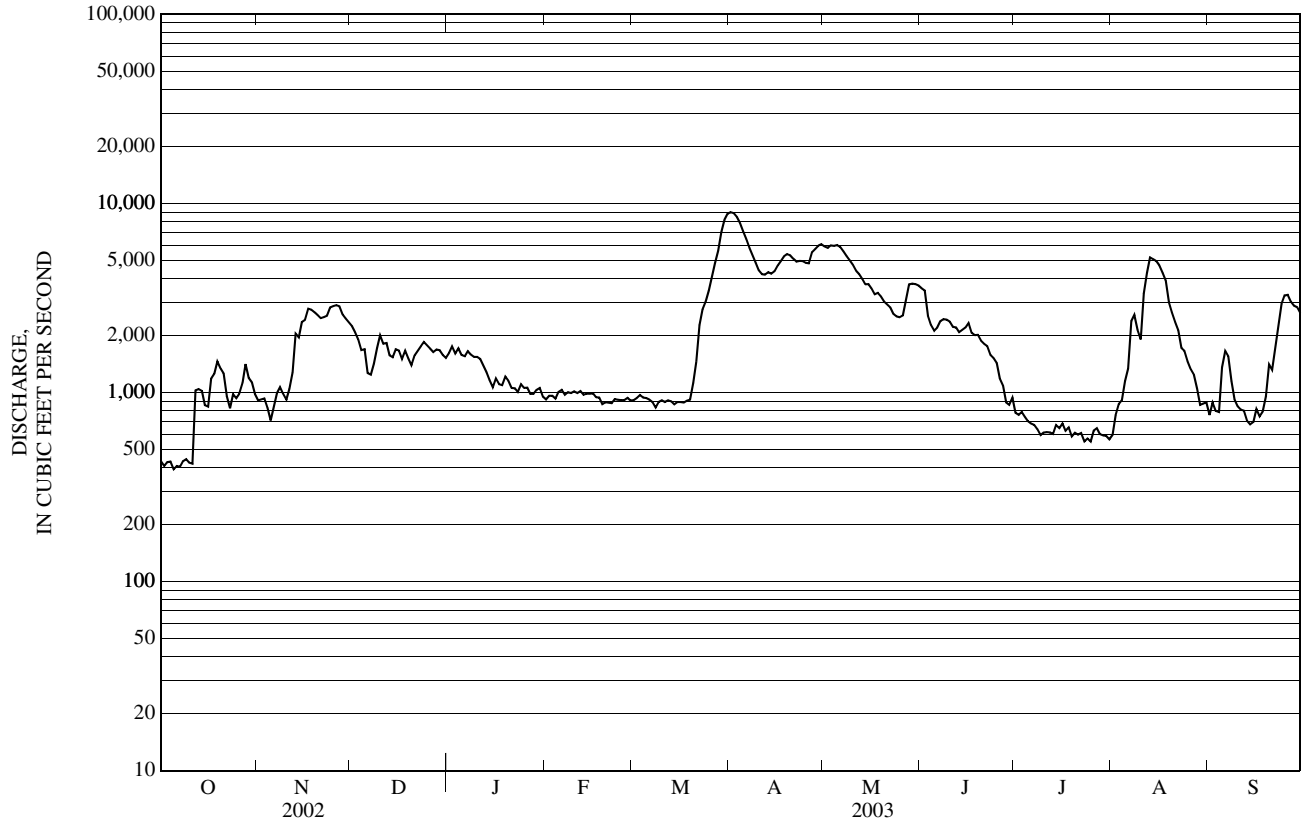
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2003, BY WATER YEAR (WY)

MEAN	1,514	2,397	2,527	1,972	1,915	3,202	7,307	5,456	2,574	1,411	1,062	1,048
MAX	6,887	7,048	8,630	5,791	6,258	16,220	12,740	11,720	9,008	6,802	3,425	5,073
(WY)	(1978)	(1996)	(1974)	(1978)	(1986)	(1936)	(1969)	(1937)	(1998)	(1973)	(1990)	(1954)
MIN	406	608	560	528	615	805	2,751	1,707	860	486	394	342
(WY)	(1948)	(1979)	(1948)	(1948)	(1918)	(1940)	(1995)	(1941)	(1964)	(1991)	(2002)	(1995)

e Estimated

01066000 SACO RIVER AT CORNISH, ME—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1916 - 2003	
ANNUAL TOTAL	720,240		763,534			
ANNUAL MEAN	1,973		2,092		2,694	
HIGHEST ANNUAL MEAN					4,076	1973
LOWEST ANNUAL MEAN					1,372	1965
HIGHEST DAILY MEAN	11,600	Apr 18	8,980	Apr 1	45,600	Mar 21, 1936
LOWEST DAILY MEAN	248	Sep 13	393	Oct 5	244	Oct 7, 1964
ANNUAL SEVEN-DAY MINIMUM	261	Sep 9	415	Oct 1	261	Sep 9, 2002
MAXIMUM PEAK FLOW			9,110	Apr 1	46,600	Mar 21, 1936
MAXIMUM PEAK STAGE			7.89	Apr 1	21.90	Mar 21, 1936
10 PERCENT EXCEEDS	4,580		4,890		6,110	
50 PERCENT EXCEEDS	1,260		1,450		1,680	
90 PERCENT EXCEEDS	387		677		665	



01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43°24'48", long 70°59'15", Strafford County, Hydrologic Unit 01060003, on right bank, just downstream from Milton Pond at Milton, 4.2 mi east of Farmington, and 7.4 mi north of Rochester.

DRAINAGE AREA.--108 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1968 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 2000, water-stage recorder at site 200 ft downstream at same datum.

REMARKS.--Records good, including periods of no gage-height record, Oct. 23, Nov. 5, Nov. 17, 20-25, July 6-7, 9-10, 13, and 20, except for period of doubtful stage-discharge relation, October 1-19, which are poor. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity about 1.28 billion ft^3.

EXTREMETS FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft^3/s, Apr. 6, 1984, gage height, 6.70 ft; minimum daily discharge, 14 ft^3/s (corrected), Sept. 19-22, 2002 and Oct. 2-3, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft^3/s, Mar. 31, gage height, 4.99 ft; minimum daily discharge, 14 ft^3/s, Oct. 2-3.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	237	231	236	44	50	1,060	244	302	41	21	31
2	14	236	148	234	45	51	610	244	237	31	24	31
3	14	235	93	161	75	51	461	279	179	28	34	31
4	15	233	92	105	90	51	492	293	180	27	43	31
5	15	e232	93	106	91	52	488	284	180	26	60	31
6	15	232	95	107	91	52	446	264	143	e24	72	31
7	15	231	95	108	92	76	364	207	97	e22	81	31
8	15	224	95	108	92	93	329	184	105	21	94	30
9	15	222	95	108	92	93	345	193	113	e20	90	30
10	15	220	95	159	92	92	347	197	103	e19	85	30
11	15	221	95	191	94	91	361	195	94	19	89	29
12	15	219	95	189	95	77	458	222	100	18	138	29
13	16	219	95	187	94	67	579	258	104	e18	166	29
14	16	219	96	185	94	67	581	277	111	17	158	29
15	15	217	98	182	93	67	525	271	117	17	149	29
16	15	216	101	97	92	67	486	188	116	20	144	33
17	16	e213	102	42	91	67	459	147	108	25	142	36
18	16	170	146	42	91	67	343	150	103	27	104	36
19	17	132	171	42	92	68	270	150	100	29	57	35
20	32	e132	171	43	91	112	270	118	97	e27	56	36
21	98	e132	175	43	90	186	261	91	91	25	56	36
22	131	e185	177	42	89	221	259	161	90	25	56	57
23	e168	e225	221	42	90	301	271	186	66	26	55	76
24	194	e231	253	42	90	457	303	173	47	26	54	118
25	203	e239	252	43	90	554	420	166	54	25	43	154
26	222	239	251	43	89	609	454	171	55	23	32	156
27	224	236	248	44	89	720	488	307	57	22	32	147
28	235	237	246	43	65	819	515	379	68	21	31	139
29	241	235	246	43	---	802	349	360	62	20	31	135
30	239	233	243	43	---	903	246	339	55	20	31	133
31	238	---	239	44	---	1,160	---	312	---	20	31	---
TOTAL	2,514	6,452	4,853	3,104	2,423	8,143	12,840	7,010	3,334	729	2,259	1,779
MEAN	81.1	215	157	100	86.5	263	428	226	111	23.5	72.9	59.3
MAX	241	239	253	236	95	1,160	1,060	379	302	41	166	156
MIN	14	132	92	42	44	50	246	91	47	17	21	29

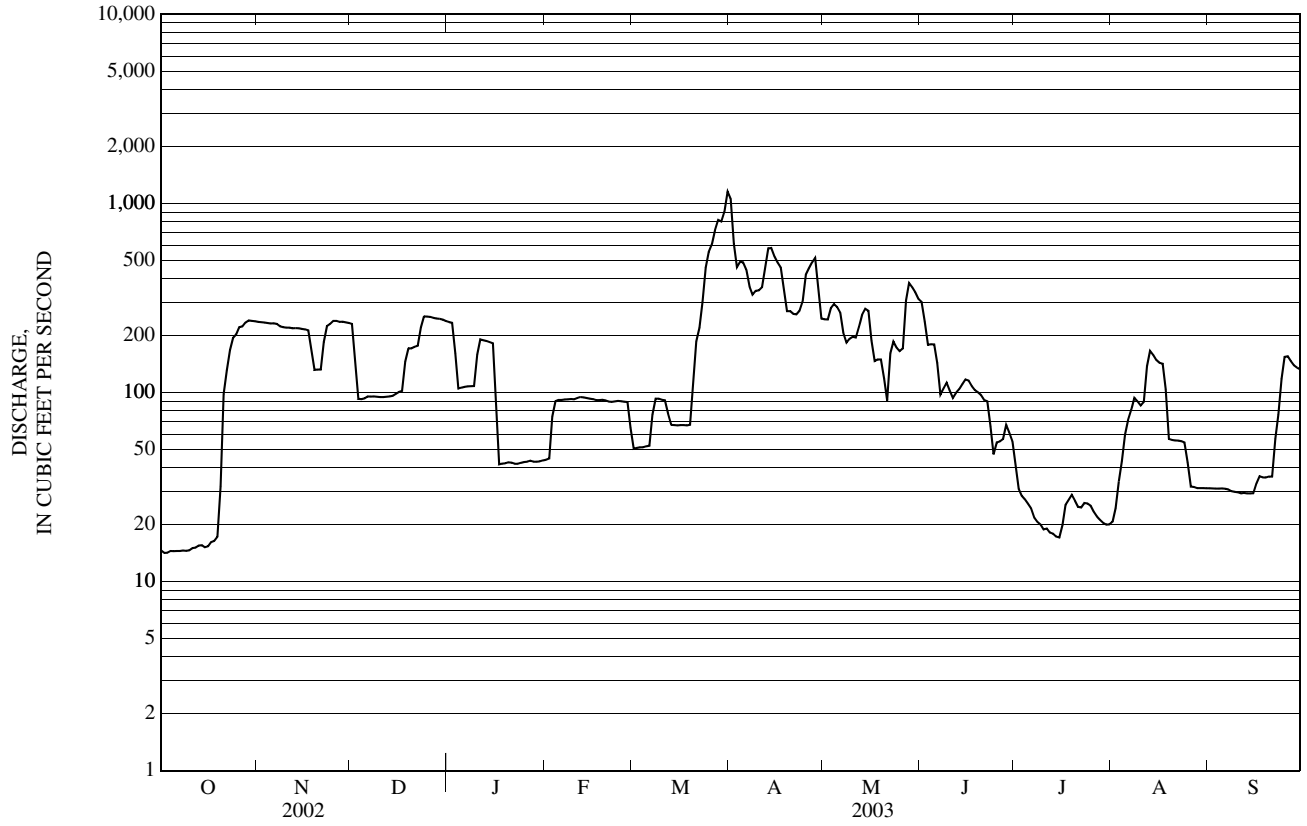
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2003, BY WATER YEAR (WY)

MEAN	176	194	218	172	182	312	430	223	134	65.4	59.9	73.8
MAX	499	487	604	384	439	720	908	431	650	181	165	162
(WY)	(1978)	(1996)	(1984)	(1978)	(1970)	(1979)	(1969)	(1984)	(1998)	(1996)	(1982)	(1999)
MIN	81.1	62.7	27.7	27.1	60.8	108	103	55.4	35.5	23.5	19.8	15.0
(WY)	(2003)	(2002)	(2002)	(2002)	(1977)	(1993)	(1985)	(1985)	(1999)	(2003)	(2002)	(2002)

e Estimated

01072100 SALMON FALLS RIVER AT MILTON, NH—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1969 - 2003	
ANNUAL TOTAL	42,746		55,440			
ANNUAL MEAN	117		152		187	
HIGHEST ANNUAL MEAN					307	1984
LOWEST ANNUAL MEAN					94.7	2002
HIGHEST DAILY MEAN	983	May 15	1,160	Mar 31	3,220	Mar 15, 1977
LOWEST DAILY MEAN	14	Sep 19	14	Oct 2	14	Sep 19, 2002
ANNUAL SEVEN-DAY MINIMUM	14	Sep 16	15	Oct 1	14	Sep 16, 2002
MAXIMUM PEAK FLOW			1,310	Mar 31	4,000	Apr 6, 1984
MAXIMUM PEAK STAGE			4.99	Mar 31	6.70	Apr 6, 1984
10 PERCENT EXCEEDS	245		305		395	
50 PERCENT EXCEEDS	93		95		131	
90 PERCENT EXCEEDS	15		24		36	



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are sometimes made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at low-flow partial-record stations are presented in the following table. Discharge measurements made at special study and miscellaneous sites are given in a separate table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Measurements were made at several different sites, at other than base flow conditions. The measurements information is not included in the table, but can be obtained by contacting the U.S. Geological Survey at: Maine District Office, U.S. Geological Survey, Attn: Data Section Chief, 196 Whitten Road, Augusta, ME, 04330.

Discharge measurements made at low-flow partial-record stations during water year 2003

Stream	Tributary to	Location	Drainage area (mi^2)	Measured Previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
MACHIAS RIVER BASIN						
Larry Brook 01021458	Mopang Stream	Lat 44°48'11", long 67°49'45", Washington County, downstream end of culvert in unnamed road, 0.2 mi upstream from the confluence with Mopang Stream, near Brewster Corner, Maine.	---	2000-2003	08-29-03	[a]0.001
New Stream 01021488	Old Stream	Lat 44°53'52", long 67°40'09", Washington County, under downstream side of bridge on unnamed road, 0.4 mi upstream of the confluence with Huntley Brook, near Wesley, Maine.	10.3	2000-2003	09-09-03	0.79
PLEASANT RIVER BASIN						
Pleasant River[b] 01022220	Atlantic Ocean	Lat 44°46 08", long 67°55'23", Washington County, on right bank in T18 MDBPP, 7 mi downstream from Pleasant River Lake, 4 mi upstream from Crebo Brook, and 4.5 mi east of Deblois, Maine.	25.5	2000-2003	07-08-02 07-25-02 08-21-02	32.6 8.89 4.30
UNION RIVER BASIN						
Garland Brook 01024200	Union River	Lat 44°43'17", long 68°24'40", Hancock County, upstream end of culvert in Route 181, 1.2 mi upstream from mouth, near Mariaville, Maine.	9.79	1964-82[b], 2000-2003	08-29-03 09-09-03	0.81 1.50
Unnamed trib to Winkumpaug Brook 01025445	Winkumpaug Brook	Lat 44°37'37", long 68°37'42", Hancock County, downstream end of culvert in Winkumpaug Road, just upstream of the confluence with Winkumpaug Brook, near Ellsworth, Maine.	0.253	2000-2003	08-29-03 09-09-03	[a]0.004 [a]0.01
Winkumpaug Brook 01025450	Branch Lake Stream	Lat 44°37'37", long 68°37'42", Hancock County, 80 ft downstream of culvert in Winkumpaug Road, 1.7 mi above Branch Lake, near Ellsworth, Maine.	1.98	2000-2003	08-29-03 09-09-03	0.006 0.07

[a] Volumetric measurement
[b] Operated as a continuous-record gaging station
[c] Flume measurement

Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

Discharge measurements made at special study and miscellaneous sites during water year 2003

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
ST. JOHN RIVER BASIN						
Prestile Stream 01017560	St. John River	Lat 46°45' 26", long 67°51'12", Aroostook County, at outfall of Mars Hill wastewater treatment plant, 0.3 mi downstream from Rocky Brook, near Mars Hill, Maine.	86.3	1991, 1998-2003	11-06-02	25.9
					08-13-03	86.2
					09-05-03	32.6
ANDROSCOGGIN LAKE BASIN						
Unnamed tributary 01056420	Lake Auburn	Lat 44°10'42", long 70°16'23", Androscoggin County, downstream end of culvert in Johnson Road, 700 ft north of North Auburn Road, near Auburn, Maine.	0.34	2000-2003	06-29-00	0.05[a]
					07-06-00	0.28[a]
					08-16-00	0.15[a]
					08-21-00	0.02[a]
					08-28-00	0.008[a]
					09-06-00	0.00[a]
					09-27-00	0.00[a]
					10-18-00	0.02[a]
					03-29-02	1.23
					05-08-02	0.41
					05-14-02	6.95
					07-22-02	0.004[a]
					08-20-02	0.00
					10-31-02	0.03[a]
					04-21-03	0.39[a]
					04-21-03	0.38[a]
Unnamed tributary 01056450	Lake Auburn	Lat 44°09'51", long 70°15'47", Androscoggin County, downstream end of culvert in Lake Shore Drive, 1.6 mi northwest of State Route 4, near Auburn, Maine.	0.23	2000-2003	06-01-00	0.25
					06-29-00	0.01[a]
					08-16-00	0.09[a]
					08-21-00	0.001[a]
					08-28-00	0.00
					09-06-00	0.00
					09-27-00	0.00
					10-18-00	0.00
					03-29-02	0.54
					05-08-02	0.30[a]
					05-14-02	4.05
					07-22-02	0.00
					08-20-02	0.00
					10-31-02	0.00
					04-21-03	0.28[a]
Unnamed tributary 01056460	Lake Auburn	Lat 44°09'39", long 70°15'21", Androscoggin County, downstream end of culvert in Lake Shore Drive, 1.2 mi northwest of State Route 4, near Auburn, Maine.	0.56	2000-2003	06-29-00	0.04[a]
					07-06-00	0.22[a]
					08-16-00	0.12[a]
					08-21-00	0.01[a]
					08-28-00	0.01[a]
					09-06-00	0.007[a]
					09-27-00	0.005[a]
					10-18-00	0.01[a]
					03-29-02	1.56
					05-08-02	0.55[a]
					05-08-02	0.60[a]
					05-14-02	16.2
					07-22-02	0.01[a]
					08-20-02	0.004[a]
					10-31-02	0.02[a]
					04-21-03	0.52[a]

[a] Volumetric measurement

Discharge measurements made at special study and miscellaneous sites during water year 2003

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
KENNEBEC RIVER BASIN						
Kennebec River West Outlet 01041100	Atlantic Ocean	Lat 45°39'08", long 69°44'42", Somerset County, just downstream from West Outlet Dam at Moosehead Lake, near Rockwood, Maine.	1,268	many	10-16-02	92.1
					10-17-02	104
					10-17-02	74.2
					10-17-02	59.5
Twentyfive Mile Stream 01049115	Sebasticook River	Lat 44°37'33", long 69°21'28", Kennebec County, just below bridge on the Horseback Road, 0.9 mi north of Route 139, near Unity, Maine.	130	1985, 1994, 1997-2003	07-25-03	38.2
					07-25-03	39.6
					08-27-03	13.7
					08-28-03	11.2
					09-15-03	7.90
MOUSAM RIVER BASIN						
Mousam River 01068910	Atlantic Ocean	Lat 43°25'06", long 70°44'19", York County, at Route 4 bridge, 4.2 mi upstream from Estes Lake, in Sanford, Maine.	44.0	1995 1997-2003	06-30-03	27.3
					09-09-03	20.9
					09-09-03	21.4
Mousam River 01069600	Atlantic Ocean	Lat 43°23'05", long 70°32'34", York County, 500 ft below Route 1 Bridge in Kennebunk, Maine.	108	1999-2003	07-01-03	19.9
					09-09-03	39.1
					09-11-03	125
PISCATAQUA RIVER BASIN						
Great Works River 01072660	Salmon Falls River	Lat 43°17'38", long 70°44'21", York County, at abandoned railraod crossing at North Berwick Sewage Treatment Plant, 1 mi south of North Berwick, Maine.	45.2	1994, 1999-2001, 2003	05-22-03	53.2
					06-26-03	28.2
					09-09-03	10.1

Hadlock Brook
Acadia National Park
May 2003

Hadlock Brook
Acadia National Park
March 2004

ANDROSCOGGIN COUNTY

440213070203201 Local number, ANW 1135

LOCATION.--Lat 44°02'13", long 70°20'32", Hydrologic Unit 01040002, about 0.5 mi northeast of Poland Spring. Owner: U.S. Geological Survey.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 150 ft, cased to bedrock, open end.

INSTRUMENTATION.--Electronic water-level recorder.

DATUM.--Elevation of land-surface datum is 310 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.70 ft above land-surface datum.

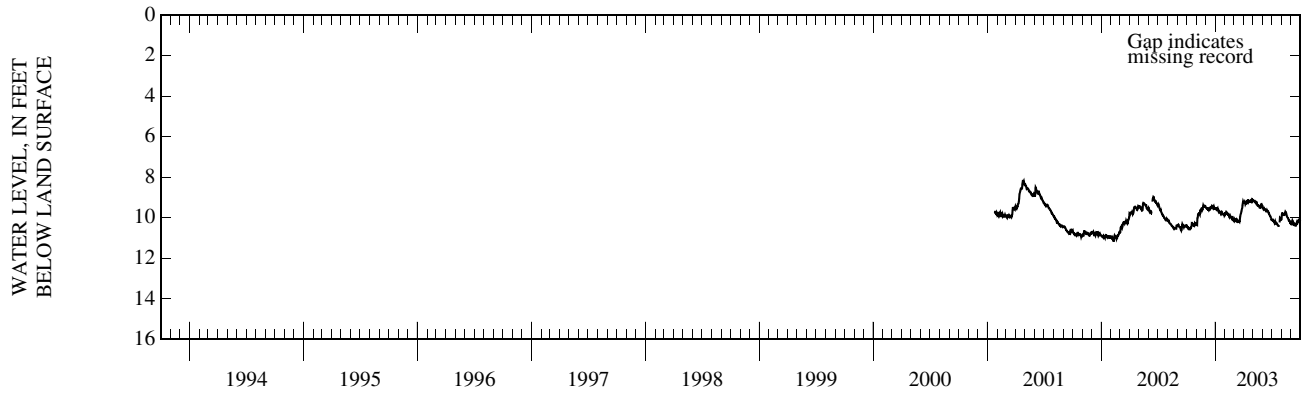
REMARKS.--Missing record, July 25 due to pumping for water quality sampling.

PERIOD OF RECORD.--January 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 8.14 ft below land-surface datum, Apr. 24, 2001; lowest recorded, 11.17 ft below land-surface datum, Feb. 9, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.38	10.32	9.48	9.55	9.82	10.12	9.23	9.18	9.42	10.11	10.07	10.29
2	10.41	10.35	9.52	9.57	9.73	10.03	9.23	9.16	9.48	10.13	9.84	10.32
3	10.47	10.36	9.53	9.59	9.79	10.06	9.23	9.15	9.54	10.12	9.78	10.33
4	10.50	10.03	9.54	9.49	9.74	10.11	9.24	9.17	9.58	10.14	9.77	10.19
5	10.42	9.99	9.53	9.56	9.76	10.05	9.21	9.18	9.54	10.16	9.79	10.14
6	10.53	9.85	9.54	9.56	9.83	10.11	9.26	9.19	9.53	10.13	9.82	10.17
7	10.48	9.81	9.55	9.55	9.76	10.17	9.33	9.18	9.57	10.17	9.86	10.20
8	10.53	9.80	9.57	9.53	9.80	10.12	9.29	9.23	9.58	10.17	9.86	10.27
9	10.56	9.81	9.64	9.60	9.82	10.10	9.27	9.24	9.59	10.22	9.87	10.32
10	10.56	9.80	9.60	9.65	9.82	10.17	9.28	9.24	9.62	10.27	9.86	10.30
11	10.57	9.80	9.63	9.68	9.84	10.18	9.26	9.27	9.64	10.23	9.84	10.35
12	10.57	9.83	9.60	9.72	9.84	10.15	9.15	9.22	9.68	10.18	9.75	10.37
13	10.54	9.66	9.64	9.69	9.90	10.21	9.22	9.23	9.72	10.23	9.70	10.38
14	10.50	9.62	9.52	9.72	9.94	10.21	9.20	9.29	9.64	10.29	9.72	10.39
15	10.49	9.62	9.49	9.73	9.97	10.20	9.10	9.37	9.62	10.30	9.75	10.39
16	10.43	9.69	9.50	9.74	10.00	10.18	9.13	9.39	9.67	10.30	9.78	10.33
17	10.29	9.56	9.54	9.72	9.97	10.16	9.24	9.38	9.66	10.29	9.86	10.29
18	10.30	9.54	9.53	9.78	9.92	10.17	9.22	9.38	9.66	10.31	9.92	10.32
19	10.28	9.63	9.49	9.74	9.97	10.20	9.20	9.41	9.68	10.35	9.94	10.30
20	10.30	9.60	9.45	9.73	9.98	10.12	9.18	9.41	9.74	10.38	9.98	10.18
21	10.36	9.59	9.41	9.78	10.00	9.96	9.17	9.44	9.78	10.40	10.01	10.20
22	10.37	9.47	9.42	9.74	10.02	9.88	9.17	9.50	9.79	10.41	10.01	10.23
23	10.38	9.38	9.45	9.77	9.92	9.83	9.16	9.51	9.83	10.40	10.08	10.18
24	10.41	9.43	9.49	9.81	10.09	9.78	9.17	9.49	9.88	10.36	10.13	10.12
25	10.41	9.46	9.45	9.83	10.11	9.68	9.22	9.47	9.90	---	10.14	10.11
26	10.34	9.46	9.43	9.82	10.12	9.61	9.23	9.47	9.93	10.23	10.14	10.15
27	10.26	9.43	9.52	9.83	10.09	9.59	9.10	9.39	9.96	9.99	10.16	10.14
28	10.29	9.44	9.50	9.83	10.09	9.54	9.08	9.34	10.04	10.01	10.24	10.10
29	10.31	9.42	9.53	9.84	---	9.39	9.09	9.33	10.08	10.05	10.24	10.12
30	10.30	9.43	9.59	9.90	---	9.28	9.19	9.38	10.07	10.09	10.25	10.17
31	10.33	---	9.54	9.87	---	9.19	---	9.43	---	10.10	10.30	---
LOW	10.57	10.36	9.64	9.90	10.12	10.21	9.33	9.51	10.08	---	10.30	10.39
HIGH	10.26	9.38	9.41	9.49	9.73	9.19	9.08	9.15	9.42	---	9.70	10.10



440213070203201 Local number, ANW 1135 —Continued

PERIOD OF RECORD.--CHEMICAL ANALYSES: April 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate of well, gal/min (00058)	Pump or flow period prior to sampling, minutes (72004)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUL 25...	1310	10.54	3.4	224	.2	8.5	8.2	188	185	9.8	60	15.4	5.35

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
JUL 25...	1.04	15.9	83	78	E.01	5.61	1.4	12.9	5.8	110	<.04	<.06	<.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Total Arsenic water, fltrd, ug/L (01000)	Arsenite, water, fltrd, ug/L as As (62452)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
JUL 25...	<.02	2	<.30	3.8	3.8	<.04	<.8	<.2	37	<.08	20.9	.18	<.2

Date	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
JUL 25...	<1	1.53

Remark codes used in this report:
  < -- Less than
  E -- Estimated value
  mg/L -- milligrams per liter
  ug/L -- micrograms per liter

AROOSTOOK COUNTY

471457068353001 Local number, ARW 890

LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, 0.25 mi southeast of the intersection of State Highways 11 and 161 and U.S. Highway 1, Fort Kent. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., Nov. 1976 constructed depth 50 ft, open end, Nov. 1982 measured depth 48 ft.

INSTRUMENTATION.--Electronic water-level recorder. Prior to Oct. 1990, daily mean data were published every fifth day.

DATUM.--Elevation of land-surface datum is 530 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing which is 2.05 ft below land-surface datum, and 0.95 ft above the general land surface. Prior to Sept. 23, 2003, floor of recorder shelter at land-surface datum, which was 3.0 ft above the general land surface.

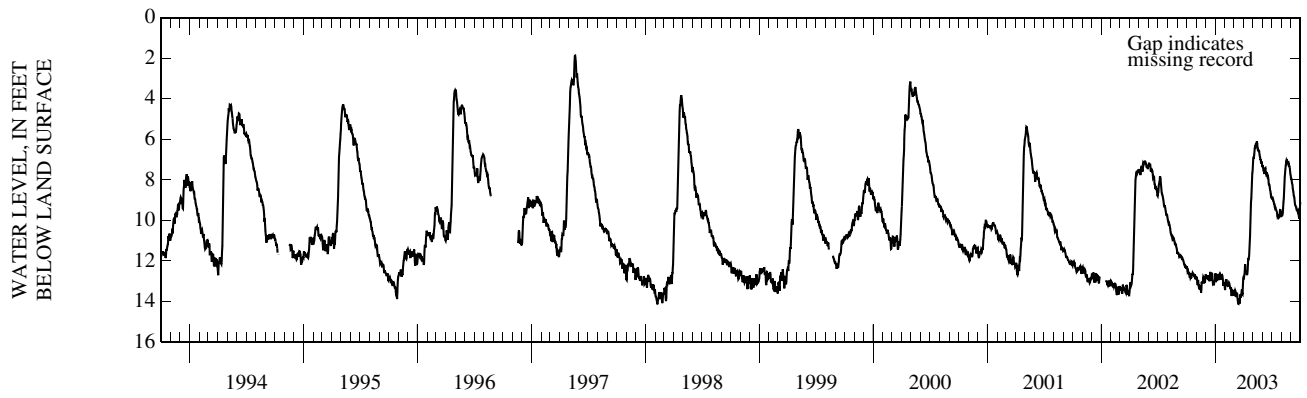
PERIOD OF RECORD.--November 1976 to current year.

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

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

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.30	12.81	12.66	12.61	13.44	13.70	12.82	7.26	7.38	8.89	9.72	7.94
2	12.30	12.81	12.71	12.76	13.17	13.62	12.84	6.94	7.28	8.95	9.77	8.02
3	12.41	12.91	12.74	12.94	13.00	13.43	12.77	6.89	7.42	8.95	9.75	8.15
4	12.54	13.09	12.77	12.97	13.02	13.52	12.67	6.90	7.54	8.98	9.73	8.17
5	12.51	13.19	12.86	12.95	12.91	13.45	12.52	6.78	7.58	8.96	9.60	8.22
6	12.57	12.94	12.86	12.83	13.03	13.50	12.16	6.67	7.53	9.03	9.33	8.44
7	12.58	12.98	12.79	12.77	13.11	13.73	12.30	6.48	7.70	9.09	9.08	8.53
8	12.58	13.20	12.70	12.65	13.19	13.78	12.50	6.38	7.57	9.17	8.92	8.60
9	12.67	13.28	12.82	12.71	13.23	13.56	12.52	6.38	7.43	9.18	8.58	8.76
10	12.63	13.26	12.79	12.91	13.23	13.63	12.65	6.27	7.41	9.32	8.22	8.81
11	12.63	13.31	12.87	12.95	13.17	13.68	12.65	6.26	7.60	9.38	7.85	8.90
12	12.76	13.42	12.90	12.78	13.10	13.67	12.66	6.27	7.64	9.34	7.67	9.06
13	12.86	13.24	13.00	12.70	13.06	13.87	12.65	6.16	7.75	9.38	7.46	9.21
14	12.82	13.25	12.81	12.67	13.09	13.99	12.46	6.10	7.74	9.44	7.30	9.25
15	12.82	13.41	12.54	12.77	13.15	14.11	12.14	6.23	7.63	9.49	7.27	9.28
16	12.81	13.57	12.69	12.73	13.23	14.12	11.88	6.41	7.72	9.53	7.13	9.33
17	12.66	13.40	12.84	12.82	13.27	13.92	11.92	6.51	7.82	9.57	7.04	9.39
18	12.66	13.02	12.91	12.88	13.34	13.84	11.86	6.49	7.80	9.72	7.07	9.47
19	12.66	13.12	12.92	12.87	13.37	13.99	11.81	6.52	7.85	9.82	7.05	9.47
20	12.58	13.08	12.82	12.78	13.29	14.10	11.44	6.57	7.99	9.79	7.09	9.51
21	12.62	13.06	12.59	12.70	13.53	13.77	11.08	6.58	8.20	9.80	7.12	9.55
22	12.67	12.97	12.69	12.69	13.73	13.65	10.77	6.73	8.24	9.83	7.17	9.59
23	12.68	12.78	12.95	12.72	13.48	13.80	10.13	6.83	8.25	9.86	7.23	9.56
24	12.68	12.82	13.12	12.85	13.47	13.71	9.53	6.89	8.36	9.83	7.20	9.63
25	12.75	13.00	13.09	12.98	13.60	13.62	9.09	7.01	8.48	9.72	7.27	9.71
26	12.77	13.03	13.05	13.23	13.53	13.49	8.91	6.99	8.53	9.78	7.35	9.86
27	12.71	13.06	13.20	13.16	13.54	13.42	8.51	7.10	8.66	9.49	7.38	9.91
28	12.72	13.06	13.08	13.05	13.65	13.62	8.02	7.19	8.82	9.44	7.55	9.74
29	12.79	12.99	13.01	13.11	---	13.64	7.69	7.12	8.91	9.63	7.71	9.34
30	12.84	12.81	12.99	13.13	---	13.31	7.57	7.13	8.84	9.70	7.76	9.08
31	12.81	---	12.85	13.30	---	12.93	---	7.32	---	9.66	7.94	---
LOW	12.86	13.57	13.20	13.30	13.73	14.12	12.84	7.32	8.91	9.86	9.77	9.91
HIGH	12.30	12.78	12.54	12.61	12.91	12.93	7.57	6.10	7.28	8.89	7.04	7.94



AROOSTOOK COUNTY—Continued

464259067572901 Local number, ARW 906

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

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored unconfined observation well, diameter 2 in., Oct. 1986 measured depth 40 ft, screened depth 35 to 40 ft, screen slot size 0.006 in.

INSTRUMENTATION.--Electronic water-level recorder. Prior to Oct. 1989, daily mean data were published every fifth day.

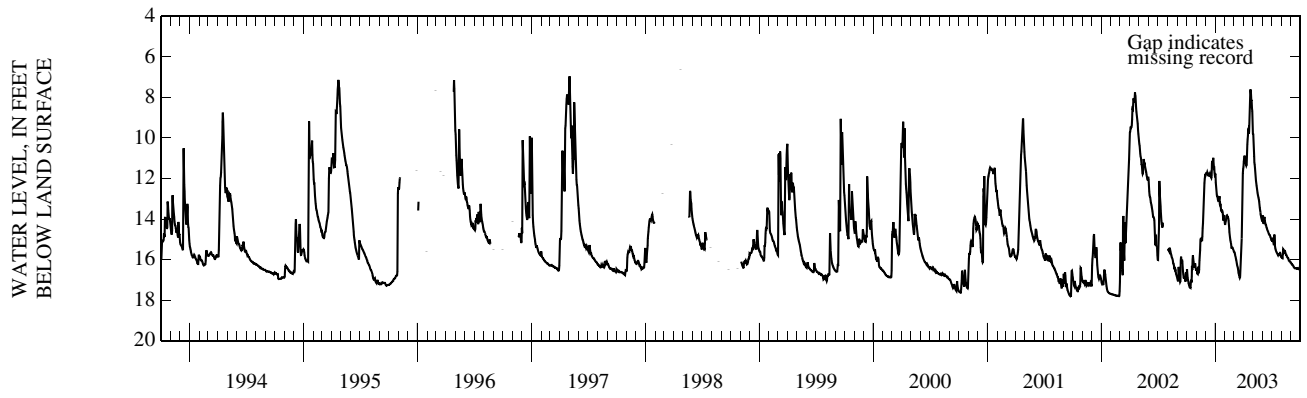
DATUM.--Elevation of land-surface datum is 431 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 0.88 ft above land-surface datum. Prior to Aug. 31, 1999, Measuring point: Top of casing 2.88 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.62 ft below land-surface datum, Apr. 24, 1998; lowest recorded, 19.38 ft below land-surface datum, Oct. 1-3, 1988.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.96	16.50	11.78	11.76	14.29	15.59	11.43	9.81	14.06	15.03	15.90	16.18
2	16.47	16.50	11.74	12.21	14.19	15.61	11.16	9.78	13.82	15.10	15.91	16.20
3	16.70	16.59	11.74	12.38	14.11	15.64	10.99	10.21	13.95	14.97	15.93	16.23
4	16.89	16.70	11.81	12.57	14.04	15.69	10.91	10.62	14.15	14.96	15.93	16.25
5	17.00	16.71	11.74	12.77	13.90	15.77	10.87	10.93	14.25	15.03	15.70	16.25
6	17.05	16.56	11.69	12.84	13.82	15.83	11.00	11.21	13.96	15.15	15.48	16.26
7	17.15	16.35	11.74	12.85	13.81	15.88	11.14	11.31	13.89	15.25	15.50	16.29
8	17.23	16.54	11.80	12.93	13.84	15.96	11.25	11.49	14.06	15.29	15.59	16.32
9	17.29	16.68	11.79	13.03	13.90	16.03	11.32	11.72	14.15	14.76	15.65	16.35
10	17.34	16.48	11.78	13.07	13.90	16.12	11.37	11.93	14.22	15.09	15.63	16.39
11	17.37	16.05	11.84	13.05	13.95	16.22	11.32	12.11	14.29	15.34	15.54	16.41
12	17.37	15.82	11.84	13.13	14.08	16.29	10.89	12.23	14.30	15.45	15.59	16.42
13	17.39	15.53	11.84	12.99	14.28	16.34	10.33	12.35	14.39	15.50	15.65	16.43
14	17.13	15.04	11.79	12.87	14.47	16.41	10.06	12.47	14.42	15.55	15.71	16.43
15	17.00	14.97	11.74	13.25	14.64	16.53	9.88	12.59	14.44	15.60	15.75	16.42
16	17.14	14.93	11.79	13.30	14.78	16.64	9.58	12.71	14.51	15.64	15.78	16.42
17	16.83	15.06	11.89	13.27	14.92	16.72	9.55	12.80	14.55	15.67	15.78	16.42
18	16.31	15.04	11.93	13.34	15.04	16.77	9.78	12.88	14.58	15.70	15.82	16.43
19	16.52	15.09	11.96	13.61	15.13	16.86	9.74	12.95	14.62	15.73	15.86	16.44
20	15.98	14.85	11.86	13.54	15.18	16.91	9.31	13.03	14.66	15.76	15.90	16.45
21	15.79	14.45	11.24	13.59	15.34	16.86	8.82	13.14	14.72	15.79	15.91	16.43
22	15.96	14.19	11.16	13.57	15.46	16.64	8.20	13.31	14.75	15.76	15.92	16.45
23	16.11	13.65	11.14	13.59	15.41	16.36	7.63	13.45	14.78	15.74	15.95	16.45
24	16.21	13.09	11.19	13.64	15.41	15.97	7.63	13.56	14.79	15.73	16.00	16.44
25	16.31	12.71	10.98	13.87	15.41	15.47	7.82	13.66	14.81	15.71	16.05	16.46
26	16.39	12.42	11.19	14.07	15.45	14.96	8.15	13.75	14.86	15.77	16.07	16.48
27	16.28	12.22	11.43	14.02	15.49	14.34	8.15	13.84	14.90	15.72	16.07	16.48
28	16.19	12.02	11.39	13.86	15.54	13.60	8.52	13.92	14.96	15.71	16.09	16.45
29	16.33	11.86	11.70	13.80	---	12.88	8.67	13.98	15.03	15.80	16.11	16.30
30	16.45	11.87	11.83	13.99	---	11.74	9.11	14.04	15.04	15.85	16.13	16.31
31	16.55	---	11.81	14.18	---	11.52	---	14.03	---	15.87	16.16	---
LOW	17.39	16.71	11.96	14.18	15.54	16.91	11.43	14.04	15.04	15.87	16.16	16.48
HIGH	15.79	11.86	10.98	11.76	13.81	11.52	7.63	9.78	13.82	14.76	15.48	16.18



CUMBERLAND COUNTY

435453070013601 Local number, CW 26

LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, 0.3 mi northwest of the intersection of Durham Road and U.S. Highway 1 in Brunswick. Owner: Brunswick and Topsham Water District.

AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 12 in., reported depth 101 ft in 1953, screened 81 to 101 ft, Nov. 1982 measured depth 96 ft.

INSTRUMENTATION.--Electronic water-level recorder. Mar. 1990 to Dec. 2000, monthly measurements were published. Oct. 1989 to Mar. 1990 daily mean data were published. Prior to Oct. 1989, daily mean data were published every fifth day.

DATUM.--Elevation of land-surface datum is 139 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing which is at land-surface datum. Prior to July 17, 2003, electric tape gage index, 2.93 ft above land-surface datum.

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

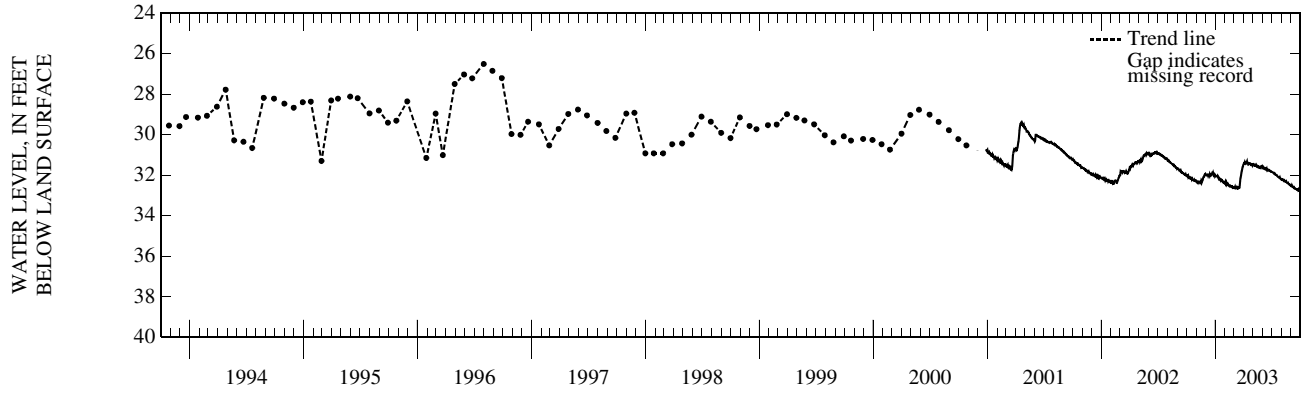
REVISED RECORDS.--WDR ME-82-1: 1978, 1981, WDR ME-83-1: 1977, WDR ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.95 ft below land-surface datum, June 9, 1984; lowest measured, 36.41 ft below land-surface datum, Feb. 10, 1966.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.99	32.28	31.97	32.01	32.35	32.61	31.47	31.48	31.58	31.84	32.21	32.52
2	32.00	32.32	32.00	32.05	32.32	32.55	31.43	31.47	31.64	31.85	32.21	32.55
3	32.05	32.35	32.01	32.05	32.41	32.62	31.41	31.51	31.66	31.85	32.23	32.55
4	32.05	32.35	32.01	32.01	32.36	32.62	31.40	31.52	31.66	31.86	32.20	32.51
5	32.02	32.37	31.98	32.08	32.44	32.57	31.36	31.51	31.62	31.87	32.21	32.54
6	32.09	32.29	31.98	32.06	32.47	32.63	31.42	31.50	31.66	31.89	32.23	32.57
7	32.06	32.34	31.97	32.04	32.41	32.64	31.43	31.49	31.68	31.90	32.25	32.58
8	32.12	32.33	31.98	32.02	32.45	32.59	31.39	31.52	31.68	31.89	32.24	32.60
9	32.12	32.34	32.04	32.07	32.46	32.58	31.38	31.52	31.67	31.92	32.27	32.61
10	32.13	32.34	32.00	32.11	32.43	32.63	31.38	31.50	31.70	31.94	32.26	32.60
11	32.15	32.34	32.02	32.15	32.47	32.64	31.36	31.52	31.68	31.93	32.28	32.64
12	32.15	32.37	32.00	32.18	32.47	32.61	31.33	31.48	31.71	31.95	32.30	32.64
13	32.13	32.32	32.03	32.15	32.51	32.66	31.42	31.51	31.72	31.97	32.29	32.66
14	32.17	32.31	31.94	32.20	32.54	32.66	31.41	31.55	31.69	31.99	32.31	32.67
15	32.18	32.31	31.98	32.22	32.55	32.63	31.35	31.60	31.73	31.99	32.31	32.67
16	32.14	32.34	31.98	32.23	32.56	32.62	31.40	31.60	31.76	31.99	32.29	32.68
17	32.16	32.24	32.02	32.21	32.53	32.61	31.48	31.58	31.73	m32.01	32.34	32.69
18	32.20	32.27	32.02	32.25	32.52	32.63	31.47	31.58	31.72	32.04	32.37	32.70
19	32.17	32.32	31.97	32.21	32.55	32.62	31.45	31.59	31.72	32.06	32.38	32.70
20	32.20	32.28	31.94	32.21	32.56	32.48	31.44	31.57	31.76	32.08	32.38	32.70
21	32.23	32.25	31.92	32.25	32.56	32.31	31.41	31.59	31.76	32.08	32.39	32.72
22	32.25	32.17	31.89	32.26	32.56	32.16	31.41	31.62	31.75	32.09	32.38	32.73
23	32.25	32.12	31.90	32.28	32.50	32.09	31.42	31.62	31.78	32.10	32.41	32.70
24	32.26	32.11	31.93	32.32	32.61	32.00	31.45	31.61	31.79	32.12	32.43	32.74
25	32.27	32.08	31.88	32.34	32.62	31.89	31.50	31.61	31.78	32.14	32.44	32.73
26	32.23	32.05	31.94	32.33	32.60	31.81	31.50	31.62	31.79	32.14	32.45	32.75
27	32.25	32.00	31.99	32.36	32.59	31.78	31.46	31.61	31.80	32.11	32.46	32.74
28	32.28	31.98	31.95	32.36	32.60	31.69	31.45	31.56	31.83	32.15	32.49	32.72
29	32.29	31.94	31.98	32.38	---	31.61	31.45	31.55	31.83	32.18	32.49	32.70
30	32.29	31.93	32.04	32.40	---	31.58	31.52	31.58	31.83	32.20	32.51	32.71
31	32.29	---	31.99	32.38	---	31.52	---	31.62	---	32.21	32.52	---
LOW	32.29	32.37	32.04	32.40	32.62	32.66	31.52	31.62	31.83	32.21	32.52	32.75
HIGH	31.99	31.93	31.88	32.01	32.32	31.52	31.33	31.47	31.58	31.84	32.20	32.51

m Measured



CUMBERLAND COUNTY—Continued

435039070261101 Local number, CW 1983

LOCATION.--Lat 43°50'32", long 70°26'12", Hydrologic Unit 01060001, about .5 mi northeast of North Windham. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored water-table observation well, diameter 2 in., depth 37 ft, screened depth 32 ft to 37 ft, screen slot size 0.008 in.

INSTRUMENTATION.--Electronic water-level recorder.

DATUM.--Elevation of land-surface datum is 307.80 ft above National Geodetic Vertical Datum of 1929. Measuring Point: Top of casing, 2.50 ft above land-surface datum.

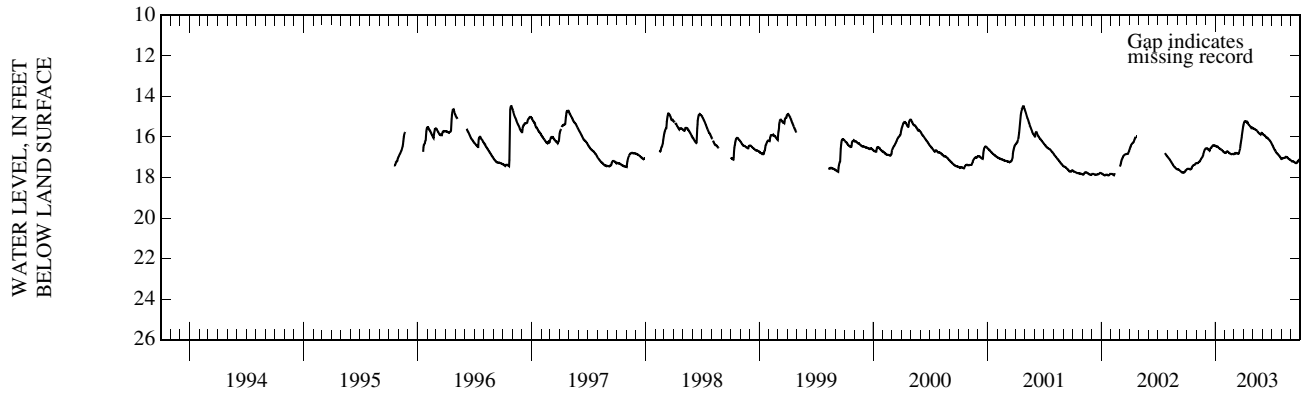
REMARKS.--Chemical analyses Sept. 5, 2003 located in 'Ground-water quality analyses at special study stations' section in this report.

PERIOD OF RECORD.--October 1995 to current year. Records prior to October 1999 have not been published but are available in the files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.47 ft below land-surface datum, Oct. 27-28, 1996; lowest measured, 17.89 ft below land-surface datum, Jan. 12-13, 22-24, and Feb. 10, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.60	17.29	16.57	16.44	16.78	16.85	15.41	15.58	15.83	16.35	17.09	17.17
2	17.59	17.28	16.56	16.45	16.78	16.84	15.34	15.59	15.85	16.38	17.07	17.19
3	17.58	17.28	16.56	16.46	16.78	16.83	15.29	15.58	15.88	16.41	17.05	17.20
4	17.58	17.28	16.56	16.45	16.77	16.81	15.26	15.59	15.89	16.44	17.04	17.20
5	17.57	17.29	16.56	16.47	16.75	16.80	15.23	15.59	15.89	16.47	17.04	17.19
6	17.57	17.28	16.57	16.47	16.74	16.80	15.23	15.60	15.91	16.50	17.04	17.19
7	17.57	17.27	16.58	16.47	16.72	16.81	15.23	15.61	15.92	16.54	17.05	17.20
8	17.57	17.25	16.59	16.47	16.72	16.80	15.23	15.62	15.93	16.56	17.04	17.21
9	17.57	17.23	16.62	16.49	16.72	16.79	15.23	15.64	15.94	16.60	17.03	17.22
10	17.58	17.22	16.62	16.51	16.73	16.80	15.25	15.64	15.96	16.64	17.03	17.23
11	17.59	17.21	16.65	16.52	16.74	16.80	15.27	15.66	15.98	16.66	17.03	17.24
12	17.60	17.20	16.65	16.54	16.75	16.80	15.26	15.66	16.00	16.67	17.02	17.25
13	17.60	17.19	16.67	16.55	16.77	16.81	15.29	15.67	16.02	16.70	16.99	17.26
14	17.59	17.15	16.65	16.57	16.79	16.82	15.31	15.68	16.02	16.74	16.98	17.28
15	17.57	17.11	16.60	16.57	16.80	16.82	15.30	15.70	16.03	16.77	16.97	17.29
16	17.57	17.08	16.56	16.59	16.81	16.83	15.33	15.73	16.05	16.79	16.98	17.29
17	17.54	17.06	16.55	16.59	16.82	16.82	15.37	15.75	16.05	16.79	17.00	17.28
18	17.49	17.03	16.54	16.61	16.82	16.76	15.40	15.77	16.06	16.81	16.99	17.28
19	17.46	17.01	16.53	16.62	16.83	16.70	15.41	15.79	16.07	16.83	16.99	17.28
20	17.43	16.98	16.52	16.63	16.84	16.65	15.43	15.81	16.10	16.86	17.01	17.24
21	17.42	16.96	16.47	16.65	16.85	16.57	15.44	15.82	16.11	16.87	17.02	17.22
22	17.40	16.93	16.45	16.66	16.85	16.42	15.46	15.84	16.13	16.88	17.04	17.21
23	17.39	16.87	16.43	16.67	16.84	16.32	15.48	15.85	16.15	16.90	17.07	17.20
24	17.39	16.81	16.42	16.69	16.84	16.21	15.50	15.86	16.17	16.91	17.08	17.17
25	17.38	16.76	16.41	16.70	16.83	16.11	15.53	15.87	16.19	16.93	17.09	17.14
26	17.38	16.71	16.41	16.71	16.83	16.02	15.55	15.88	16.21	16.95	17.10	17.12
27	17.36	16.67	16.41	16.72	16.83	15.93	15.54	15.85	16.23	16.97	17.10	17.11
28	17.34	16.63	16.40	16.74	16.83	15.82	15.53	15.82	16.26	16.99	17.12	17.09
29	17.31	16.60	16.41	16.75	---	15.71	15.54	15.80	16.29	17.02	17.13	17.08
30	17.30	16.58	16.43	16.77	---	15.60	15.57	15.80	16.32	17.05	17.14	17.08
31	17.30	---	16.43	16.78	---	15.49	---	15.82	---	17.07	17.16	---
LOW	17.60	17.29	16.67	16.78	16.85	16.85	15.57	15.88	16.32	17.07	17.16	17.29
HIGH	17.30	16.58	16.40	16.44	16.72	15.49	15.23	15.58	15.83	16.35	16.97	17.08



FRANKLIN COUNTY

444302070252401, FW916

LOCATION.--Lat 44°43'02", long 70°25'24", Hydrologic Unit 01030002, about 1.3 mi north of Weld. Owner: U.S. Geological Survey.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 150 ft, cased to bedrock, open end.

INSTRUMENTATION.--Electronic water-level recorder.

DATUM.--Elevation of land-surface datum is 1142 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Missing record, July 30 to Aug. 1 due to pumping for water quality sampling.

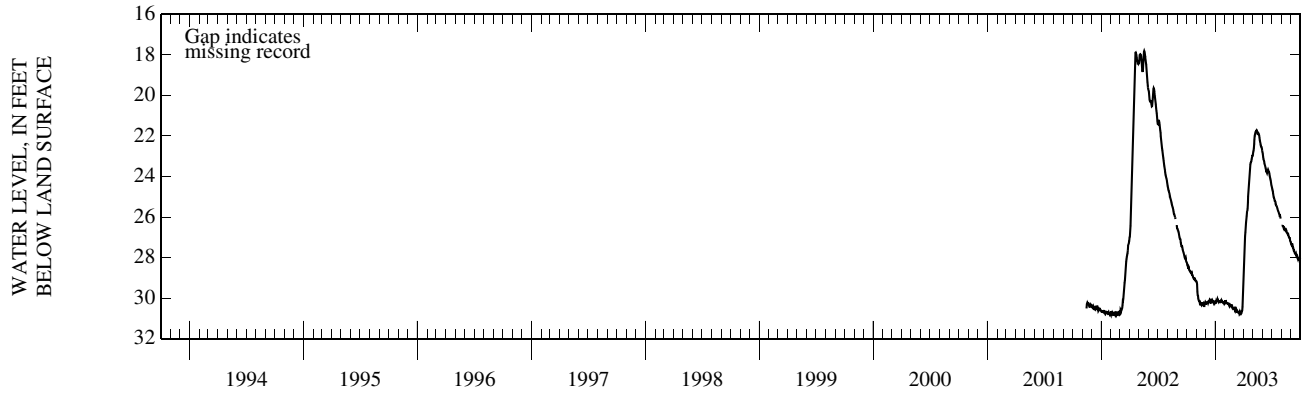
PERIOD OF REOCRD.--November 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 17.81 ft below land-surface datum, May 18, 2002; lowest recorded, 30.87 ft below land-surface datum, Feb. 9, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.22	29.17	30.22	30.17	30.20	30.51	29.27	22.90	22.80	24.54	---	27.31
2	28.26	29.21	30.28	30.21	30.10	30.44	28.70	22.78	22.90	24.61	26.44	27.37
3	28.34	29.31	30.28	30.22	30.17	30.49	28.15	22.72	23.04	24.68	26.43	27.39
4	28.40	29.68	30.27	30.10	30.16	30.57	27.68	22.60	23.14	24.75	26.44	27.30
5	28.36	29.87	30.23	30.13	30.20	30.52	27.25	22.39	23.18	24.83	26.44	27.37
6	28.48	29.88	30.20	30.13	30.29	30.57	26.94	22.18	23.23	24.93	26.44	27.45
7	28.47	29.99	30.19	30.11	30.25	30.63	26.75	22.01	23.35	25.03	26.50	27.48
8	28.55	30.07	30.17	30.04	30.25	30.59	26.50	21.92	23.40	25.04	26.54	27.56
9	28.61	30.12	30.23	30.09	30.26	30.56	26.27	21.85	23.45	25.10	26.58	27.64
10	28.63	30.13	30.19	30.14	30.26	30.63	26.10	21.80	23.53	25.20	26.54	27.64
11	28.67	30.15	30.19	30.16	30.27	30.66	25.95	21.79	23.60	25.21	26.57	27.70
12	28.69	30.24	30.15	30.20	30.26	30.64	25.76	21.74	23.68	25.23	26.64	27.76
13	28.68	30.21	30.16	30.17	30.31	30.69	25.71	21.71	23.79	25.32	26.66	27.79
14	28.70	30.24	30.06	30.18	30.34	30.70	25.57	21.74	23.74	25.40	26.67	27.82
15	28.77	30.27	30.08	30.18	30.39	30.70	25.26	21.82	23.79	25.43	26.67	27.84
16	28.76	30.35	30.16	30.18	30.42	30.68	24.97	21.88	23.84	25.44	26.65	27.81
17	28.74	30.24	30.22	30.15	30.40	30.67	24.76	21.87	23.78	25.49	26.71	27.89
18	28.83	30.20	30.22	30.18	30.34	30.71	24.49	21.85	23.70	25.54	26.75	27.96
19	28.84	30.35	30.15	30.14	30.36	30.79	24.22	21.87	23.65	25.60	26.79	27.96
20	28.86	30.34	30.08	30.10	30.38	30.77	23.97	21.90	23.69	25.65	26.82	27.94
21	28.93	30.32	30.06	30.15	30.39	30.67	23.75	21.95	23.75	25.69	26.84	28.02
22	28.98	30.26	30.11	30.15	30.40	30.70	23.56	22.09	23.78	25.73	26.84	28.06
23	29.01	30.24	30.15	30.18	30.31	30.73	23.41	22.20	23.87	25.78	26.90	27.99
24	29.05	30.33	30.17	30.21	30.47	30.77	23.31	22.28	23.97	25.83	26.96	28.03
25	29.07	30.39	30.15	30.23	30.51	30.74	23.29	22.34	24.05	25.88	27.00	28.06
26	29.03	30.39	30.15	30.21	30.53	30.68	23.26	22.43	24.12	25.93	27.02	28.09
27	29.03	30.34	30.22	30.21	30.51	30.66	23.14	22.49	24.19	25.92	27.03	28.09
28	29.10	30.29	30.18	30.21	30.50	30.63	23.07	22.53	24.29	25.99	27.13	28.02
29	29.14	30.23	30.18	30.22	---	30.43	22.98	22.54	24.40	m26.08	27.19	28.01
30	29.14	30.19	30.24	30.27	---	30.14	22.98	22.62	24.46	---	27.22	28.07
31	29.16	---	30.19	30.25	---	29.74	---	22.73	---	---	27.30	---
LOW	29.16	30.39	30.28	30.27	30.53	30.79	29.27	22.90	24.46	---	---	28.09
HIGH	28.22	29.17	30.06	30.04	30.10	29.74	22.98	21.71	22.80	---	---	27.30

m Measured



PERIOD OF RECORD.--CHEMICAL ANALYSES: November 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate of well, gal/min (00058)	Pump or flow period prior to sampling, minutes (72004)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduct-ance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)
JUL 29...	1145	26.08	9.0	65	.3	7.7	7.7	122	118	8.0	49	15.1	2.81

Date	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka-linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
JUL 29...	1.86	5.54	54	53	<.02	1.58	.4	15.9	6.9	82	<.04	<.06	<.008

Date	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Total Arsenic water, fltrd, ug/L (01000)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
JUL 29...	.03	2	<.30	E.1	<.04	<.8	<.2	17	<.08	1.9	.75	<.2	<1

Date	Uranium natural water, fltrd, ug/L (22703)
JUL 29...	4.21

Remark codes used in this report:
  < -- Less than
  E -- Estimated value
  mg/L -- milligrams per liter
  ug/L -- micrograms per liter

HANCOCK COUNTY

444950068220602 Local number, HW 1A

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

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored unconfined observation 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.

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.

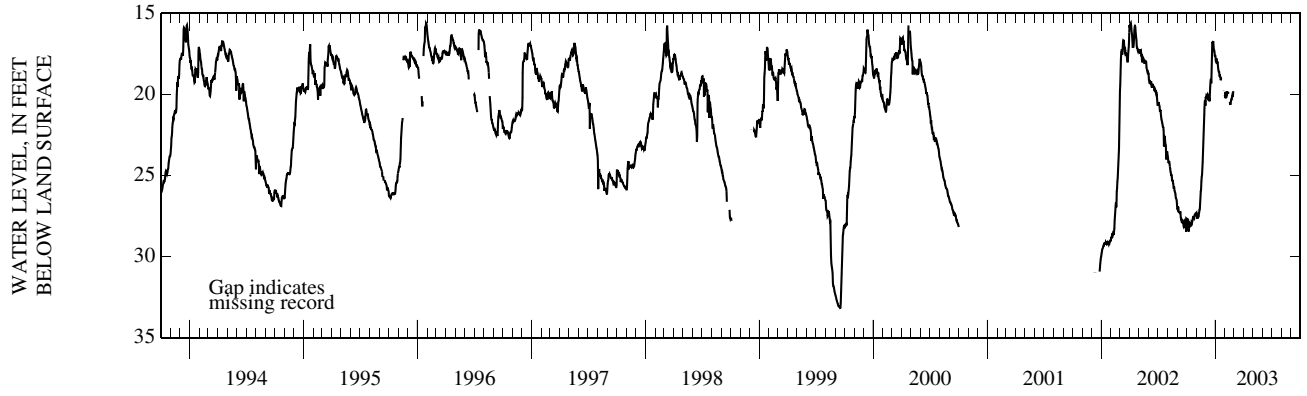
REMARKS.--Missing record, Jan. 21-26, 28, 29, Feb. 13-15 and Feb. 28 to Sept. 30.

PERIOD OF RECORD.--November 1989 to Sept. 2000, December 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 15.61 ft below land-surface datum, Jan. 28, 1996 and April 5, 2002; lowest recorded, 33.16 ft below land-surface datum, Sept. 16, 1999.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.66	27.30	20.16	17.68	20.01	---	---	---	---	---	---	---
2	28.31	27.42	20.22	17.93	19.85	---	---	---	---	---	---	---
3	27.77	27.60	20.10	17.96	20.23	---	---	---	---	---	---	---
4	27.89	27.60	20.14	17.77	20.01	---	---	---	---	---	---	---
5	27.66	27.66	20.11	18.05	20.05	---	---	---	---	---	---	---
6	27.86	27.45	20.04	18.05	20.07	---	---	---	---	---	---	---
7	28.46	27.58	20.00	18.04	19.80	---	---	---	---	---	---	---
8	28.05	27.52	20.07	17.97	19.88	---	---	---	---	---	---	---
9	28.02	27.38	20.35	18.22	19.97	---	---	---	---	---	---	---
10	28.12	27.28	20.17	18.42	19.84	---	---	---	---	---	---	---
11	27.98	27.13	20.29	18.53	19.92	---	---	---	---	---	---	---
12	28.02	27.09	20.27	18.61	19.96	---	---	---	---	---	---	---
13	27.95	26.74	20.42	18.62	---	---	---	---	---	---	---	---
14	28.09	26.34	20.05	18.83	---	---	---	---	---	---	---	---
15	28.08	26.00	19.52	18.83	---	---	---	---	---	---	---	---
16	27.91	25.85	19.21	18.89	20.46	---	---	---	---	---	---	---
17	27.94	25.34	19.09	18.92	20.54	---	---	---	---	---	---	---
18	27.91	25.10	19.07	19.12	20.64	---	---	---	---	---	---	---
19	27.85	24.96	19.31	19.04	20.51	---	---	---	---	---	---	---
20	27.74	24.52	18.53	19.07	20.39	---	---	---	---	---	---	---
21	27.61	24.17	17.42	---	20.32	---	---	---	---	---	---	---
22	27.58	23.63	16.79	---	20.30	---	---	---	---	---	---	---
23	27.51	22.94	16.77	---	20.17	---	---	---	---	---	---	---
24	27.59	22.25	16.84	---	20.07	---	---	---	---	---	---	---
25	27.63	21.66	16.72	---	20.12	---	---	---	---	---	---	---
26	27.47	21.25	16.97	---	20.11	---	---	---	---	---	---	---
27	27.46	20.85	17.28	19.74	19.79	---	---	---	---	---	---	---
28	27.41	20.46	17.29	---	---	---	---	---	---	---	---	---
29	27.40	20.35	17.39	---	---	---	---	---	---	---	---	---
30	27.33	20.70	17.65	20.11	---	---	---	---	---	---	---	---
31	27.33	---	17.57	20.11	---	---	---	---	---	---	---	---
LOW	28.46	27.66	20.42	---	---	---	---	---	---	---	---	---
HIGH	27.33	20.35	16.72	---	---	---	---	---	---	---	---	---



KENNEBEC COUNTY

441849069442001, KW 52

LOCATION.--Lat 44°18'49", long 69°44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi south of State Highway 105, in Augusta. Owner: Walter Panek.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.-- Dug water-table observation well, diameter 36 in., depth 22 ft, cased with rock to 22 ft, open end.

INSTRUMENTATION.--Electronic water-level recorder. Prior to Dec. 2000, monthly measurement with chalked steel tape by USGS personnel. Prior to Oct. 1989, daily mean data were published every fifth day.

DATUM.--Elevation of land-surface datum is 220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of concrete well at land-surface datum.

REMARKS.--Missing record, Oct. 1 to May 16, May 21 to June 24, and Aug. 28 to Sept. 30.

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

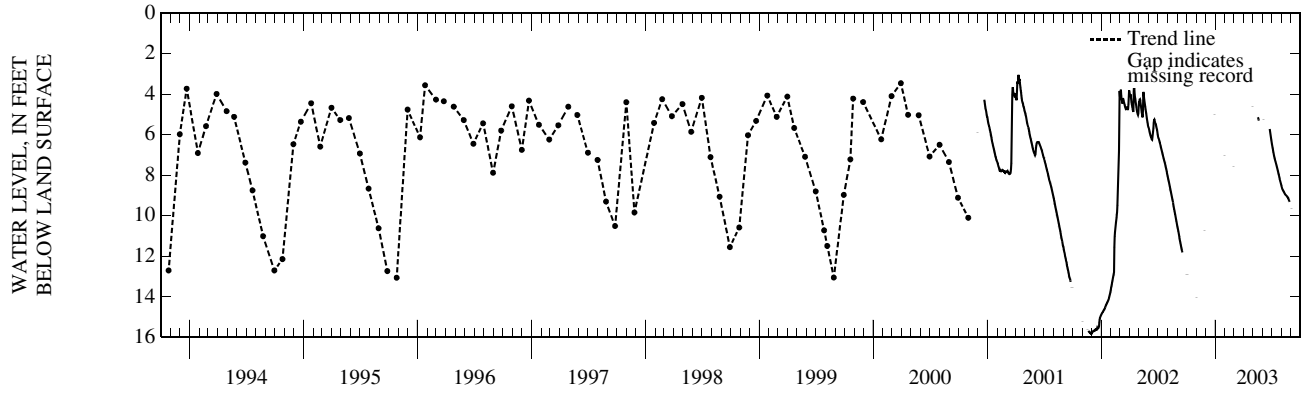
REVISED RECORDS.--WRD ME-82-1: 1978, 1979, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.91 ft below land-surface datum, May 12, 1989; lowest recorded 15.83 ft below land-surface datum, Nov. 28-29, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	6.47	8.54	---
2	m12.88	---	---	---	---	---	---	---	---	6.56	8.60	m9.66
3	---	---	---	---	---	---	---	---	m5.23	6.64	8.65	---
4	---	---	---	---	---	---	---	---	---	6.71	8.69	---
5	---	---	---	---	---	---	---	---	---	6.79	8.73	---
6	---	---	---	---	---	---	---	---	---	6.87	8.76	---
7	---	---	---	---	---	---	---	---	---	6.96	8.78	---
8	---	---	---	---	---	---	---	---	---	7.04	8.81	---
9	---	---	---	---	---	---	---	---	---	7.10	8.84	---
10	---	---	---	---	---	---	---	---	---	7.17	8.87	---
11	---	---	---	---	---	---	---	---	---	7.23	8.90	---
12	---	---	---	---	---	---	---	---	---	7.29	8.93	---
13	---	---	---	---	---	---	---	---	---	7.34	8.96	---
14	---	---	---	---	---	---	---	---	---	7.40	8.97	---
15	---	---	---	---	---	---	---	---	---	7.47	8.99	---
16	---	---	---	---	---	---	---	---	---	7.53	9.00	---
17	---	---	---	---	---	---	---	5.14	---	7.59	9.01	---
18	---	---	---	---	---	---	---	5.18	---	7.66	9.03	---
19	---	---	---	---	---	---	---	5.24	---	7.72	9.05	---
20	---	---	---	---	---	---	---	5.30	---	7.79	9.07	---
21	---	---	---	---	---	---	---	---	---	7.86	9.10	---
22	---	---	---	---	---	---	---	---	---	7.92	9.13	---
23	---	---	---	---	---	---	---	---	---	7.99	9.16	---
24	---	---	---	---	---	---	---	---	m5.72	8.05	9.20	---
25	---	---	---	---	---	---	---	---	5.83	8.11	9.23	---
26	---	---	---	---	---	---	---	---	5.93	8.17	9.27	---
27	---	m10.75	---	---	---	---	---	---	6.04	8.23	9.32	---
28	---	---	---	---	m7.56	---	---	---	6.15	8.29	---	---
29	---	---	---	---	---	---	---	---	6.27	8.35	---	---
30	---	---	m4.99	---	---	---	m4.61	---	6.37	8.41	---	---
31	m14.02	---	---	m7.04	---	m3.69	---	---	---	8.47	---	---
LOW	---	---	---	---	---	---	---	---	---	8.47	---	---
HIGH	---	---	---	---	---	---	---	---	---	6.47	---	---

m Measured



KENNEBEC COUNTY—Continued

440918069564001 Local number, KW 766

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

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

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

INSTRUMENTATION.--Electronic water-level recorder. Feb. 1990 to Mar. 2001, monthly measurement with chalked steel tape by USGS personnel. Daily mean data were published for Oct. 1989 to Jan. 1990. Prior to Oct. 1989, daily mean data were published every fifth day.

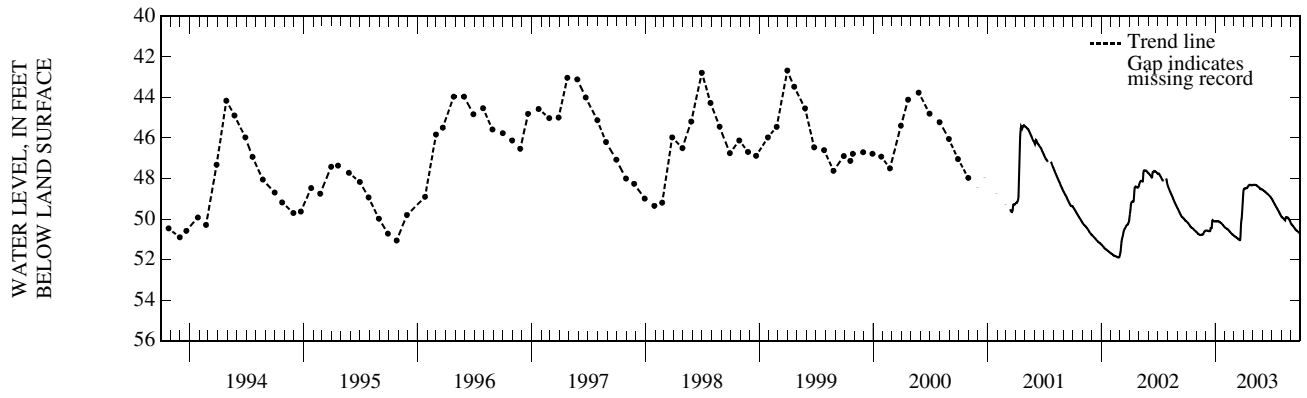
DATUM.--Elevation of land-surface datum is 300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Floor of recorder shelter, at land-surface datum, which is 2.70 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 38.76 ft below land-surface datum, June 2, 1984; lowest recorded, 51.89 ft below land-surface datum, Feb. 22-26, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.12	50.63	50.57	50.12	50.42	50.82	48.60	48.32	48.55	49.01	49.89	50.25
2	50.14	50.65	50.57	50.12	50.43	50.83	48.53	48.32	48.56	49.04	49.91	50.27
3	50.16	50.66	50.57	50.12	50.44	50.84	48.51	48.31	48.57	49.06	49.92	50.28
4	50.17	50.68	50.57	50.12	50.45	50.85	48.50	48.31	48.60	49.09	49.93	50.28
5	50.19	50.70	50.57	50.11	50.46	50.86	48.49	48.31	48.61	49.12	49.94	50.30
6	50.21	50.72	50.57	50.11	50.47	50.87	48.49	48.31	48.61	49.14	49.95	50.32
7	50.23	50.73	50.58	50.10	50.48	50.88	48.49	48.31	48.63	49.17	49.97	50.35
8	50.25	50.74	50.58	50.10	50.49	50.89	48.48	48.31	48.64	49.20	49.98	50.37
9	50.27	50.75	50.58	50.10	50.51	50.90	48.48	48.31	48.65	49.23	50.00	50.39
10	50.29	50.76	50.59	50.11	50.52	50.91	48.47	48.32	48.66	49.26	50.03	50.41
11	50.32	50.77	50.59	50.11	50.53	50.93	48.47	48.33	48.68	49.29	50.05	50.43
12	50.34	50.78	50.60	50.12	50.54	50.94	48.46	48.33	48.69	49.31	50.06	50.45
13	50.37	50.79	50.60	50.13	50.56	50.95	48.45	48.34	48.71	49.34	49.98	50.48
14	50.39	50.79	50.60	50.14	50.58	50.97	48.43	48.35	48.73	49.37	49.92	50.50
15	50.41	50.78	50.59	50.15	50.60	50.98	48.41	48.36	48.73	49.40	49.91	50.53
16	50.42	50.78	50.50	50.16	50.62	50.99	48.37	48.38	48.74	49.43	49.92	50.54
17	50.43	50.78	50.45	50.17	50.63	51.01	48.36	48.39	48.76	49.45	49.92	50.54
18	50.44	50.77	50.44	50.19	50.65	51.03	48.35	48.40	48.77	49.48	49.91	50.56
19	50.45	50.77	50.44	50.20	50.67	51.04	48.33	48.42	48.78	49.51	49.91	50.57
20	50.45	50.76	50.44	50.21	50.69	51.04	48.32	48.43	48.80	49.54	49.92	50.58
21	50.47	50.76	50.29	50.23	50.70	51.02	48.32	48.44	48.81	49.57	49.93	50.60
22	50.48	50.76	50.07	50.24	50.72	50.91	48.31	48.46	48.83	49.60	49.94	50.62
23	50.50	50.75	50.05	50.26	50.74	50.53	48.31	48.48	48.85	49.63	49.96	50.63
24	50.52	50.70	50.08	50.27	50.75	50.20	48.31	48.50	48.87	49.66	49.99	50.64
25	50.53	50.66	50.09	50.29	50.76	50.05	48.32	48.51	48.88	49.68	50.01	50.66
26	50.55	50.63	50.10	50.31	50.78	49.97	48.34	48.52	48.90	49.71	50.04	50.67
27	50.57	50.61	50.11	50.33	50.79	49.84	48.33	48.53	48.92	49.74	50.06	50.68
28	50.58	50.60	50.11	50.35	50.80	49.59	48.33	48.53	48.94	49.77	50.10	50.69
29	50.60	50.59	50.11	50.36	---	49.31	48.32	48.52	48.97	49.80	50.13	50.68
30	50.61	50.58	50.11	50.38	---	49.10	48.32	48.53	48.99	49.83	50.17	50.67
31	50.62	---	50.12	50.40	---	48.81	---	48.54	---	49.86	50.21	---
LOW	50.62	50.79	50.60	50.40	50.80	51.04	48.60	48.54	48.99	49.86	50.21	50.69
HIGH	50.12	50.58	50.05	50.10	50.42	48.81	48.31	48.31	48.55	49.01	49.89	50.25



KENNEBEC COUNTY—Continued

440810069553601 Local number, KW 872A

LOCATION.--Lat 44°08'17", long 69°55'36", Hydrologic Unit 01030003, on Small Road, 0.40 mi north of State Highway 197, Litchfield. Owner: Stephen Condon.

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 404 ft, cased to bedrock, open end.

INSTRUMENTATION.--Electronic water-level recorder. Dec. 1989 to Dec. 2000, monthly measurement with chalked steel tape by USGS personnel. Daily mean data were published for Oct.-Nov. 1989. Prior to Oct. 1989, daily mean data were published every fifth day.

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 2.20 ft above the general land surface.

REMARKS.--Missing record, Jan. 7 to June 17 and July 31.

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

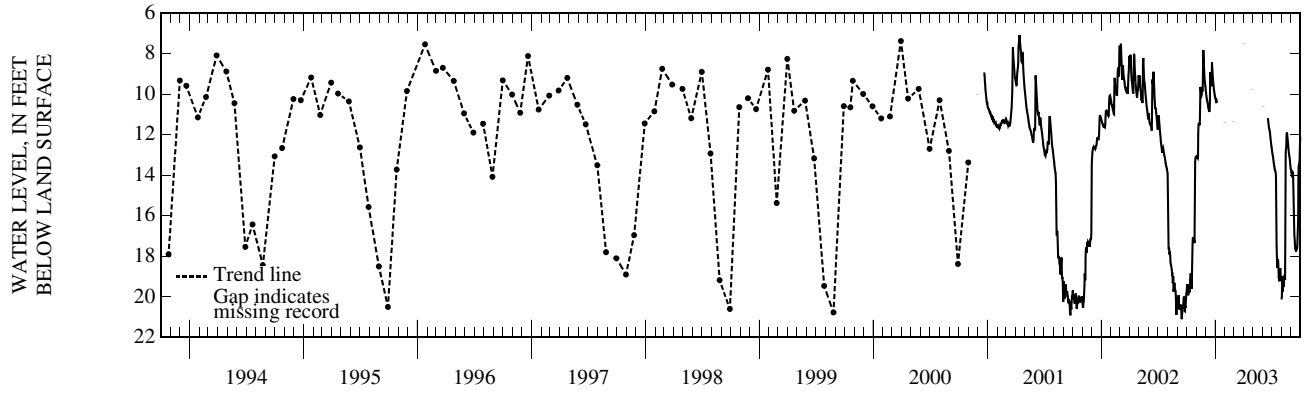
REVISED RECORDS.--WDR ME-82-1: 1980, WDR ME-84-1: 1980, 1981.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 5.47 ft below land-surface datum, May 12, 1989; lowest recorded, 21.10 ft below land-surface datum, Sept. 15, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.76	13.06	9.77	10.21	---	---	---	---	---	12.76	20.13	13.84
2	19.47	13.11	9.94	10.29	---	---	---	---	---	12.89	19.97	13.95
3	19.39	13.14	10.06	10.34	---	---	---	---	m10.63	12.99	18.98	14.03
4	19.54	13.15	10.20	10.32	---	---	---	---	---	13.06	19.09	14.10
5	19.46	13.17	10.29	10.43	---	---	---	---	---	13.14	19.76	13.84
6	19.93	13.05	10.36	10.44	---	---	---	---	---	13.27	19.33	13.87
7	19.57	12.00	10.44	---	---	---	---	---	---	13.39	19.52	13.94
8	19.44	11.47	10.53	---	---	---	---	---	---	13.48	19.38	14.58
9	19.43	11.46	10.67	---	---	---	---	---	---	13.57	19.14	15.82
10	19.78	11.47	10.72	---	---	---	---	---	---	13.69	18.96	16.48
11	19.47	11.50	10.82	---	---	---	---	---	---	13.76	18.97	16.99
12	19.14	11.54	10.83	---	---	---	---	---	---	13.79	19.17	17.13
13	18.93	10.37	10.87	---	---	---	---	---	---	13.86	14.87	17.46
14	18.84	9.64	10.49	---	---	---	---	---	---	14.03	12.88	17.66
15	19.45	9.76	8.99	---	---	---	---	---	---	15.69	12.72	17.61
16	19.61	10.02	8.91	---	---	---	---	---	---	17.47	12.69	17.78
17	19.38	10.06	9.19	---	---	---	---	---	---	18.05	12.06	17.70
18	18.96	9.97	9.41	---	---	---	---	---	11.19	18.57	11.90	17.46
19	17.96	9.83	9.57	---	---	---	---	---	11.27	18.28	11.99	17.66
20	17.28	9.85	9.57	---	---	---	---	---	11.42	18.15	12.18	17.57
21	17.07	9.84	8.43	---	---	---	---	---	11.58	18.25	12.33	17.07
22	17.15	8.89	8.67	---	---	---	---	---	11.68	18.74	12.47	16.71
23	17.22	7.82	9.01	---	---	---	---	---	11.73	19.08	12.67	16.18
24	17.21	8.27	9.26	---	---	---	---	---	11.83	18.80	12.84	14.23
25	17.17	8.69	9.39	---	---	---	---	---	11.95	19.24	12.99	13.54
26	17.35	8.97	9.58	---	---	---	---	---	12.11	19.16	13.09	13.51
27	15.12	9.17	9.77	---	---	---	---	---	12.25	18.72	13.16	13.40
28	13.30	9.36	9.86	---	m11.36	---	---	---	12.40	18.58	13.35	13.25
29	13.16	9.50	9.97	---	---	---	---	---	12.54	18.84	13.53	12.51
30	13.11	9.62	10.11	---	---	---	m9.77	---	12.64	m19.14	13.66	12.10
31	13.08	---	10.13	m11.41	---	m7.50	---	---	---	---	13.76	---
LOW	19.93	13.17	10.87	---	---	---	---	---	---	---	20.13	17.78
HIGH	13.08	7.82	8.43	---	---	---	---	---	---	---	11.90	12.10

m Measured



440810069553601 Local number, KW 872A—Continued

PERIOD OF RECORD.--CHEMICAL ANALYSES: July 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate of well, gal/min (00058)	Pump or flow period prior to sampling, minutes (72004)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUL 30...	1215	19.14	2.8	58	5.7	6.8	6.8	286	287	10.0	110	40.6	2.65

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
JUL 30...	4.15	7.67	71	68	.03	37.2	<.2	11.3	13.7	158	<.04	E.04	<.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Total Arsenic water, fltrd, ug/L (01000)	Arsenite, water, fltrd, ug/L as As (62452)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
JUL 30...	<.09	3	<.30	.7	.3	E.04	E.8	.6	10	.13	7.6	6.12	<.2

Date	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
JUL 30...	14	6.84

Remark codes used in this report:
< -- Less than
E -- Estimated value
mg/L -- milligrams per liter
ug/L -- micrograms per liter

OXFORD COUNTY

443647070552302 Local number, OW 400A

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

AQUIFER.--Glacial till of Pleistocene age.

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

INSTRUMENTATION.--Electronic water-level recorder. Prior to Dec. 7, 2001, weekly measurement with chalked steel tape by local observer. Daily mean data were published from Dec. 1999 to Oct. 2000 and from June 1991 to May 1995. Prior to June 1991 and June 1995 to Dec. 1999, monthly measurements were published.

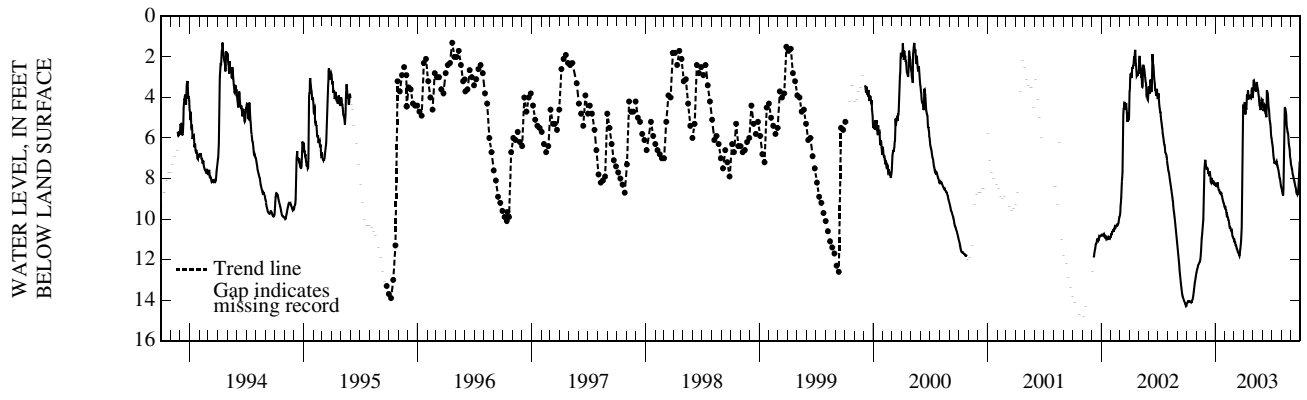
DATUM.--Elevation of land-surface datum is 1,444 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1989 to October 2000. December 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.29 ft below land-surface datum, Apr. 16, 1994; lowest measured, 14.80 ft below land-surface datum, Nov. 4, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.23	12.64	7.24	8.28	9.39	11.01	4.45	3.88	4.07	6.18	8.47	7.35
2	14.17	12.57	7.41	8.36	9.39	10.96	4.44	3.72	4.31	6.28	8.54	7.46
3	14.14	12.51	7.49	8.36	9.55	11.09	4.42	3.17	4.51	6.39	8.64	7.54
4	14.11	12.44	7.55	8.25	9.51	11.14	4.36	3.15	4.67	6.52	8.71	7.55
5	14.07	12.40	7.49	8.37	9.68	11.14	4.24	3.24	4.63	6.66	8.79	7.71
6	14.07	12.30	7.48	8.34	9.79	11.25	4.53	3.34	4.63	6.85	8.84	7.80
7	14.05	12.28	7.50	8.29	9.77	11.30	4.83	3.39	4.45	7.00	8.51	7.84
8	14.06	12.24	7.57	8.19	9.85	11.31	4.58	3.51	4.38	7.06	7.22	7.94
9	14.05	12.22	7.76	8.33	9.91	11.33	4.53	3.61	4.42	7.21	6.07	8.02
10	14.06	12.17	7.71	8.43	9.92	11.42	4.60	3.62	4.66	7.27	5.29	8.04
11	14.07	12.13	7.79	8.51	10.03	11.47	4.30	3.70	4.63	7.18	4.53	8.14
12	14.08	12.11	7.77	8.59	10.05	11.50	3.86	3.53	4.85	7.18	4.52	8.22
13	14.08	12.05	7.85	8.53	10.15	11.57	4.11	3.29	4.98	7.26	4.55	8.30
14	14.10	11.96	7.66	8.65	10.23	11.62	4.02	3.24	4.43	7.28	4.67	8.37
15	14.12	11.77	7.83	8.66	10.33	11.65	3.63	3.44	3.65	7.19	4.74	8.44
16	14.10	11.54	7.98	8.70	10.40	11.67	3.73	3.52	3.69	7.16	4.82	8.50
17	14.07	11.20	8.16	8.69	10.40	11.70	4.10	3.57	3.74	7.24	5.24	8.66
18	14.07	10.96	8.19	8.79	10.41	11.77	4.03	3.69	3.83	7.30	5.46	8.72
19	14.02	10.82	8.07	8.74	10.47	11.81	3.99	3.88	4.05	7.38	5.55	8.70
20	13.97	10.63	7.97	8.74	10.53	11.71	3.93	3.96	4.37	7.46	5.67	8.72
21	13.89	10.46	8.04	8.86	10.58	11.55	3.87	4.16	4.51	7.52	5.74	8.79
22	13.80	10.26	8.11	8.88	10.62	11.44	3.94	4.38	4.64	7.60	5.78	8.75
23	13.68	10.02	8.16	8.96	10.59	11.27	3.97	4.41	4.89	7.72	6.02	8.60
24	13.55	9.38	8.24	9.05	10.78	11.07	4.03	4.44	5.12	7.82	6.25	8.56
25	13.41	8.54	8.10	9.09	10.85	10.78	4.05	4.51	5.22	7.94	6.39	8.14
26	13.27	7.95	8.19	9.12	10.89	10.43	3.93	4.62	5.32	7.99	6.49	7.79
27	13.14	7.54	8.30	9.21	10.92	10.0	3.66	4.50	5.49	8.01	6.60	7.47
28	13.04	7.33	8.18	9.22	10.96	9.33	3.51	4.22	5.81	8.13	6.92	7.19
29	12.95	7.13	8.24	9.29	---	7.92	3.67	4.10	5.95	8.24	6.97	7.16
30	12.84	7.08	8.35	9.40	---	5.44	4.03	4.14	6.03	8.35	7.13	7.19
31	12.75	---	8.22	9.42	---	4.43	---	4.11	---	8.42	7.31	---
LOW	14.23	12.64	8.35	9.42	10.96	11.81	4.83	4.62	6.03	8.42	8.84	8.79
HIGH	12.75	7.08	7.24	8.19	9.39	4.43	3.51	3.15	3.65	6.18	4.52	7.16



OXFORD COUNTY—Continued

440823070291501 Local number, OW 1214

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

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

WELL CHARACTERISTICS.--Drilled unconfined observation well, diameter 6 in., Sept. 1980 constructed depth 39 ft, cased with 6-in. steel to 35 ft, screened 35 to 39 ft, screen slot size 0.010 in., November 1982 measured depth 38 ft.

INSTRUMENTATION.--Electronic water-level recorder. Prior to Oct. 1989, daily mean data were published every fifth day.

DATUM.--Elevation of land-surface datum is 334 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, at land surface datum, which is 1.20 ft above the general land surface.

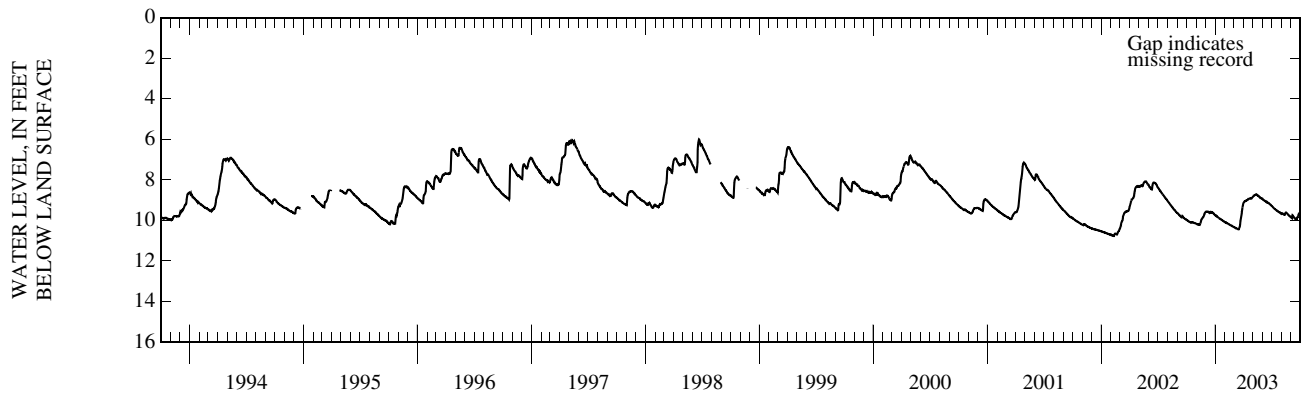
PERIOD OF RECORD.--September 1980 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.07 ft below land-surface datum, June 3, 1984; lowest recorded, 10.77 ft below land-surface datum, Feb. 9-10, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.97	10.17	9.58	9.75	10.08	10.33	9.15	8.83	8.94	9.30	9.68	9.85
2	9.99	10.17	9.57	9.77	10.08	10.32	9.11	8.81	8.96	9.31	9.66	9.87
3	10.0	10.18	9.57	9.78	10.11	10.35	9.09	8.80	8.98	9.32	9.65	9.88
4	10.01	10.19	9.56	9.78	10.10	10.35	9.07	8.79	9.00	9.34	9.65	9.81
5	10.02	10.20	9.56	9.80	10.12	10.36	9.05	8.78	9.00	9.35	9.66	9.75
6	10.03	10.19	9.56	9.81	10.13	10.37	9.05	8.76	9.01	9.37	9.68	9.76
7	10.04	10.20	9.56	9.82	10.13	10.38	9.05	8.75	9.03	9.39	9.70	9.78
8	10.05	10.20	9.57	9.82	10.14	10.38	9.03	8.75	9.03	9.40	9.71	9.81
9	10.07	10.20	9.58	9.84	10.15	10.39	9.03	8.74	9.04	9.42	9.72	9.84
10	10.07	10.21	9.58	9.85	10.16	10.40	9.02	8.73	9.06	9.44	9.73	9.86
11	10.08	10.21	9.60	9.87	10.17	10.41	9.01	8.73	9.07	9.44	9.73	9.88
12	10.09	10.21	9.60	9.88	10.17	10.41	8.99	8.72	9.08	9.45	9.68	9.90
13	10.10	10.19	9.62	9.89	10.19	10.42	8.99	8.72	9.10	9.47	9.64	9.91
14	10.10	10.14	9.61	9.90	10.20	10.43	8.98	8.73	9.08	9.48	9.62	9.92
15	10.11	10.08	9.59	9.91	10.21	10.44	8.96	8.76	9.09	9.50	9.61	9.94
16	10.11	10.02	9.59	9.93	10.22	10.44	8.95	8.77	9.12	9.50	9.61	9.92
17	10.10	9.96	9.61	9.93	10.23	10.44	8.95	8.78	9.12	9.51	9.62	9.91
18	10.10	9.93	9.62	9.95	10.23	10.40	8.95	8.78	9.13	9.52	9.64	9.92
19	10.09	9.91	9.63	9.95	10.24	10.35	8.93	8.80	9.13	9.54	9.66	9.93
20	10.09	9.89	9.63	9.96	10.25	10.31	8.93	8.80	9.14	9.55	9.68	9.86
21	10.09	9.87	9.60	9.97	10.26	10.21	8.92	8.82	9.16	9.56	9.69	9.83
22	10.10	9.85	9.59	9.98	10.27	10.04	8.92	8.85	9.16	9.57	9.71	9.83
23	10.11	9.83	9.61	10.0	10.27	9.94	8.91	8.87	9.18	9.59	9.73	9.81
24	10.12	9.80	9.63	10.01	10.29	9.85	8.91	8.88	9.19	9.59	9.75	9.75
25	10.13	9.77	9.63	10.02	10.30	9.76	8.92	8.89	9.20	9.59	9.76	9.70
26	10.13	9.72	9.65	10.03	10.30	9.68	8.92	8.90	9.22	9.60	9.78	9.66
27	10.13	9.68	9.68	10.04	10.31	9.58	8.90	8.90	9.23	9.61	9.79	9.64
28	10.14	9.65	9.69	10.05	10.32	9.46	8.88	8.90	9.25	9.63	9.81	9.62
29	10.15	9.62	9.71	10.06	---	9.35	8.86	8.90	9.27	9.65	9.82	9.62
30	10.16	9.59	9.73	10.07	---	9.27	8.86	8.92	9.28	9.66	9.83	9.62
31	10.16	---	9.74	10.08	---	9.20	---	8.94	---	9.67	9.84	---
LOW	10.16	10.21	9.74	10.08	10.32	10.44	9.15	8.94	9.28	9.67	9.84	9.94
HIGH	9.97	9.59	9.56	9.75	10.08	9.20	8.86	8.72	8.94	9.30	9.61	9.62



PENOBSCOT COUNTY

445319068560101 Local number, PEW 456

LOCATION.--Lat 44°53'19", long 68°56'01", Hydrologic Unit 01020005, on Kenduskeag-Levant Road, 2.5 mi south of Kenduskeag, near Kenduskeag-Levant town line, Kenduskeag. Owner: Clarence W. Parker, Jr.

AQUIFER.--Bedrock of Silurian age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 101 ft, open hole.

INSTRUMENTATION.--Electronic water-level recorder. Prior to Oct. 1989, daily mean data were published every fifth day.

DATUM.--Elevation of land-surface datum is 190 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.16 ft below land-surface datum, which is 1.77 ft above the general land surface. Prior to Dec. 10, 1999, Top of casing, 0.37 ft above land-surface datum.

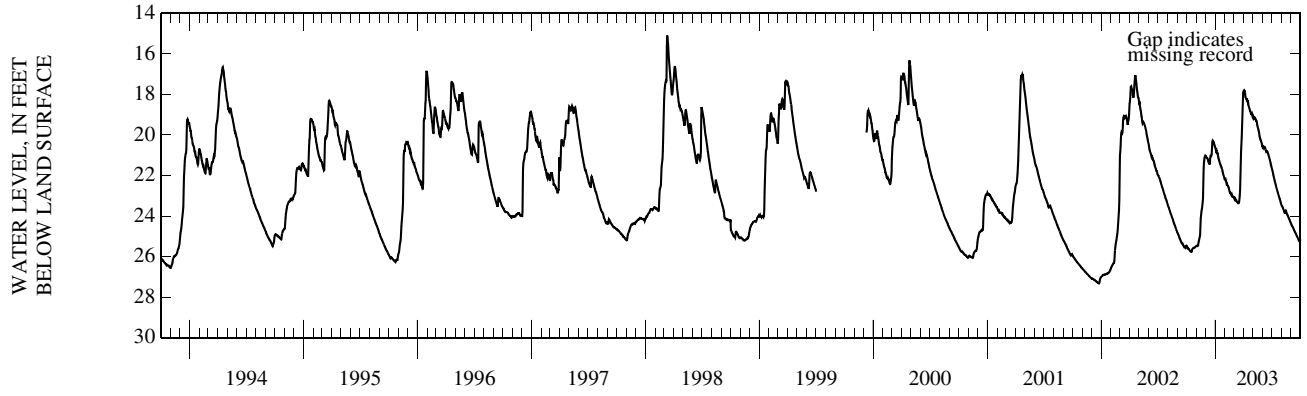
PERIOD OF RECORD.--April 1978 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 14.92 ft below land-surface datum, Apr. 26, 1983; lowest recorded, 27.32 ft (corrected) below land-surface datum, Dec. 24, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.47	25.47	21.03	20.63	22.19	23.10	17.87	19.14	20.58	21.66	23.46	24.40
2	25.50	25.47	21.08	20.71	22.17	23.08	17.82	19.16	20.54	21.73	23.50	24.44
3	25.54	25.48	21.09	20.78	22.26	23.11	17.80	19.11	20.56	21.78	23.52	24.48
4	25.57	25.48	21.12	20.75	22.29	23.16	17.83	19.15	20.63	21.85	23.55	24.50
5	25.57	25.48	21.13	20.86	22.33	23.14	17.84	19.20	20.66	21.91	23.58	24.51
6	25.61	25.46	21.14	20.90	22.42	23.18	17.94	19.25	20.60	21.98	23.62	24.54
7	25.61	25.40	21.17	20.91	22.41	23.23	18.11	19.14	20.59	22.06	23.67	24.56
8	25.64	25.31	21.20	20.90	22.45	23.24	18.15	19.15	20.60	22.11	23.71	24.60
9	25.66	25.23	21.31	20.99	22.49	23.23	18.20	19.19	20.62	22.18	23.76	24.66
10	25.69	25.16	21.31	21.08	22.51	23.28	18.25	19.22	20.66	22.26	23.80	24.68
11	25.71	25.09	21.37	21.15	22.54	23.30	18.24	19.29	20.71	22.31	23.84	24.71
12	25.73	25.04	21.39	21.21	22.58	23.30	18.19	19.29	20.77	22.36	23.84	24.75
13	25.74	24.90	21.45	21.24	22.64	23.33	18.33	19.31	20.84	22.44	23.74	24.78
14	25.76	24.48	21.40	21.31	22.70	23.35	18.36	19.39	20.84	22.51	23.72	24.82
15	25.77	24.11	21.16	21.37	22.75	23.36	18.29	19.50	20.77	22.56	23.74	24.85
16	25.77	23.95	21.03	21.42	22.81	23.37	18.38	19.58	20.81	22.61	23.76	24.88
17	25.74	23.80	21.03	21.45	22.83	23.34	18.53	19.62	20.83	22.67	23.82	24.92
18	25.68	23.68	21.04	21.53	22.84	23.28	18.58	19.68	20.86	22.73	23.87	24.96
19	25.65	23.61	21.01	21.55	22.88	23.14	18.63	19.76	20.91	22.79	23.91	24.99
20	25.61	23.47	20.98	21.57	22.91	22.96	18.68	19.83	20.98	22.84	23.94	25.01
21	25.60	23.34	20.68	21.64	22.95	22.68	18.73	19.91	21.03	22.90	23.98	25.05
22	25.58	23.11	20.38	21.68	22.98	21.99	18.80	20.03	21.08	22.95	24.01	25.08
23	25.57	22.33	20.31	21.75	22.94	21.40	18.83	20.11	21.14	23.01	24.05	25.11
24	25.57	21.64	20.33	21.82	23.00	20.79	18.88	20.17	21.21	23.05	24.09	25.14
25	25.57	21.37	20.32	21.88	23.01	20.46	18.94	20.19	21.26	23.10	24.13	25.17
26	25.56	21.27	20.34	21.92	23.04	20.12	19.01	20.26	21.32	23.15	24.16	25.21
27	25.54	21.15	20.44	21.97	23.05	19.70	18.95	20.28	21.38	23.18	24.19	25.24
28	25.52	21.09	20.43	22.02	23.07	19.17	18.93	20.31	21.46	23.23	24.25	25.26
29	25.51	21.05	20.47	22.07	---	18.83	18.99	20.37	21.54	23.30	24.29	25.22
30	25.49	21.01	20.58	22.15	---	18.35	19.11	20.45	21.60	23.36	24.32	25.15
31	25.48	---	20.59	22.18	---	17.92	---	20.53	---	23.42	24.37	---
LOW	25.77	25.48	21.45	22.18	23.07	23.37	19.11	20.53	21.60	23.42	24.37	25.26
HIGH	25.47	21.01	20.31	20.63	22.17	17.92	17.80	19.11	20.54	21.66	23.46	24.40



PENOBSCOT COUNTY—Continued

445319068560101 Local number, PEW 456—Continued

PERIOD OF RECORD.--CHEMICAL ANALYSES: September 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate of well, gal/min (00058)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)
SEP 09...	1400	24.64	1.1	130	765	7.8	66	7.1	6.9	119	116	8.2	42

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
SEP 09...	12.2	2.89	1.59	7.74	49	<.02	1.39	<.2	14.0	8.8	79	<.04	.18

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Total Arsenic water, fltrd, ug/L (01000)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Nickel, water, fltrd, ug/L (01065)	Silver, water, fltrd, ug/L (01075)
SEP 09...	<.008	E.01	<2	<.30	E.2	E.03	E.7	E.1	13	<.08	9.5	.90	<.2

Date	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
SEP 09...	M	.13

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified
mg/L -- milligrams per liter
ug/L -- micrograms per liter

PENOBSCOT COUNTY—Continued

453629068531801 Local number, PEW 594

LOCATION.--Lat 45°36'29", long 68°53'18", Hydrologic Unit 01020001, on abandoned dirt road, about 8.0 miles southwest of Millinocket, about 0.4 miles south of South Twin Lake and east of Sandy Brook, T4 Indian Purchase. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Wash-bored unconfined observation well, diameter 2 in., depth 30.5 ft., screened depth 10.5 to 30.5 ft, screen slot size 0.008 in.

INSTRUMENTATION.--Electronic water-level recorder.

DATUM.--Elevation of land-surface datum is 520 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.00 ft above land-surface datum. Prior to Sept. 17, 2003, top of casing, 3.50 ft above land-surface datum.

REMARKS.--Missing record, Dec. 14 to May 27.

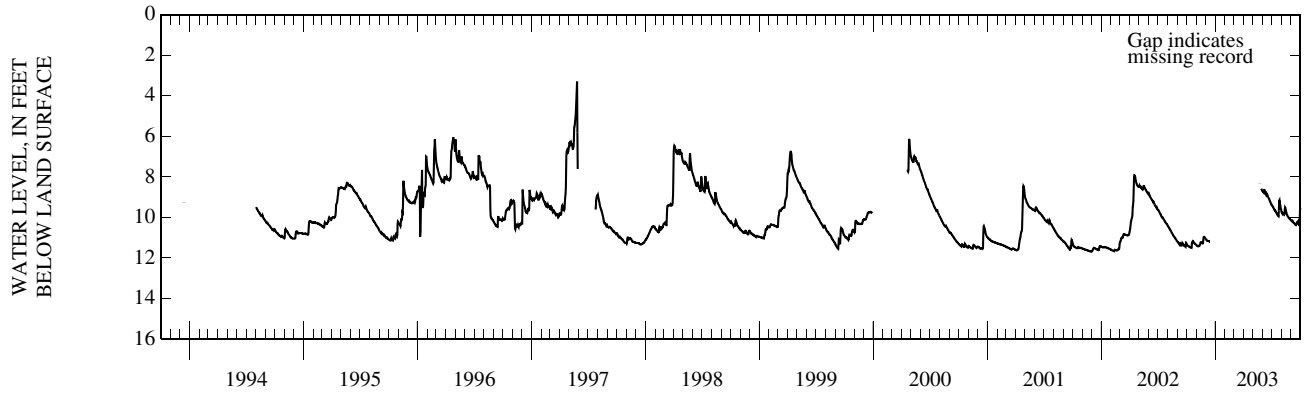
PERIOD OF RECORD.-- August 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.30 ft below land-surface datum, May 26, 1997; lowest recorded, 11.69 ft below land-surface datum, Nov. 30, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.30	11.37	11.06	---	---	---	---	---	8.70	9.39	9.70	10.16
2	11.34	11.38	11.09	---	---	---	---	---	8.70	9.42	9.75	10.18
3	11.37	11.40	11.11	---	---	---	---	---	8.74	9.46	9.79	10.20
4	11.39	11.41	11.13	---	---	---	---	---	8.78	9.48	9.82	10.18
5	11.40	11.42	11.15	---	---	---	---	---	8.79	9.48	9.78	10.16
6	11.41	11.42	11.16	---	---	---	---	---	8.64	9.52	9.79	10.19
7	11.42	11.40	11.16	---	---	---	---	---	8.64	9.55	9.82	10.22
8	11.44	11.40	11.16	---	---	---	---	---	8.68	9.58	9.84	10.25
9	11.45	11.41	11.16	---	---	---	---	---	8.73	9.61	9.87	10.27
10	11.46	11.42	11.17	---	---	---	---	---	8.78	9.65	9.84	10.28
11	11.47	11.40	11.17	---	---	---	---	---	8.82	9.66	9.58	10.30
12	11.48	11.38	11.17	---	---	---	---	---	8.86	9.65	9.50	10.32
13	11.48	11.33	m11.17	---	---	---	---	---	8.90	9.69	9.54	10.34
14	11.48	11.26	---	---	---	---	---	---	8.87	9.73	9.61	10.36
15	11.49	11.23	---	---	---	---	---	---	8.84	9.76	9.67	10.37
16	11.49	11.23	---	---	---	---	---	---	8.86	9.79	9.72	10.38
17	11.38	11.23	---	---	---	---	---	---	8.90	9.81	9.79	10.35
18	11.25	11.24	---	---	---	---	---	---	8.94	9.84	9.84	10.29
19	11.23	11.26	---	---	---	---	---	---	8.97	9.87	9.88	10.25
20	11.19	11.27	---	---	---	---	---	---	9.02	9.90	9.92	10.23
21	11.16	11.28	---	---	---	---	---	m8.31	9.05	9.93	9.95	10.24
22	11.18	11.26	---	---	---	---	---	---	9.09	9.94	9.97	10.21
23	11.21	11.11	---	---	---	---	---	---	9.12	9.67	10.0	10.19
24	11.24	10.99	---	---	---	---	---	---	9.16	9.19	10.02	10.34
25	11.26	10.96	---	---	---	---	---	---	9.20	9.16	10.04	10.36
26	11.29	10.96	---	---	---	---	---	---	9.24	9.24	10.06	10.36
27	11.30	10.97	---	---	---	---	---	---	9.28	9.31	10.06	10.38
28	11.30	10.99	---	---	---	---	---	m8.58	9.32	9.41	10.09	10.31
29	11.32	11.01	---	---	---	---	---	8.61	9.35	9.50	10.11	9.66
30	11.34	11.03	---	---	---	---	---	8.64	9.37	9.59	10.12	9.53
31	11.35	---	---	---	---	---	---	8.68	---	9.65	10.14	---
LOW	11.49	11.42	---	---	---	---	---	---	9.37	9.94	10.14	10.38
HIGH	11.16	10.96	---	---	---	---	---	---	8.64	9.16	9.50	9.53

m Measured



SOMERSET COUNTY

445148069513301 Local number, SMW 61

LOCATION.--Lat 44°51'48", long 69°51'33", Hydrologic Unit 01030003, approximately 3.0 mi northeast of Madison. Owner: U.S. Geological Survey.

AQUIFER.--Glaciomarine sand and silt of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored unconfined observation well, diameter 2 in, Sept. 1984 measured depth 40 ft, screened depth 35 to 40 ft, screen slot size 0.010 in.

INSTRUMENTATION.--Electronic water-level recorder. Prior to Dec. 1999, monthly measurements were published.

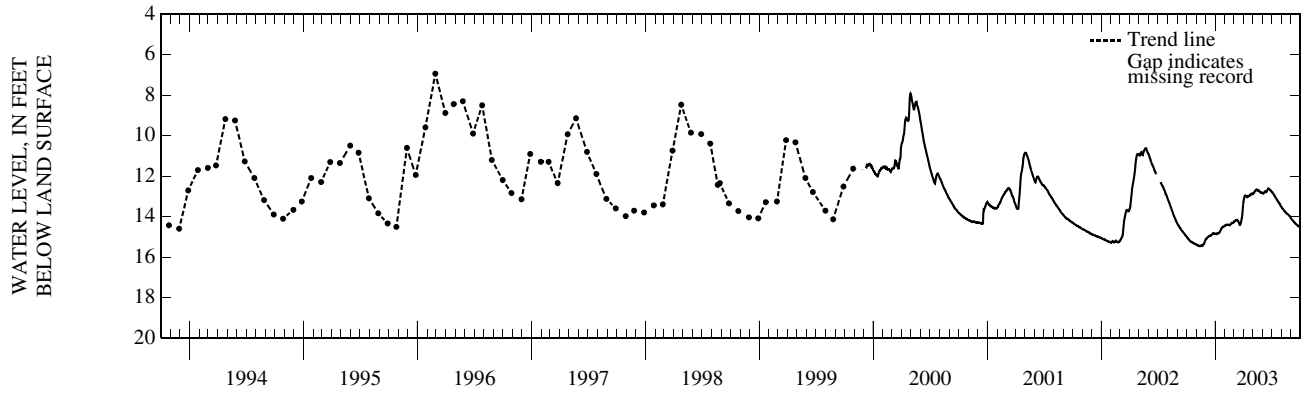
DATUM.--Elevation of land-surface datum is 280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 0.72 ft above land-surface datum. Prior to Dec. 1999, Top of casing, 3.50 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.94 ft below land-surface datum, Feb. 27, 1996; lowest measured, 15.45 ft below land-surface datum, Nov. 12, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.98	15.37	15.12	14.85	14.44	14.26	13.27	12.88	12.82	12.78	13.53	14.10
2	15.01	15.38	15.11	14.85	14.42	14.23	13.16	12.87	12.83	12.80	13.55	14.12
3	15.03	15.39	15.08	14.86	14.41	14.22	13.09	12.86	12.83	12.81	13.57	14.14
4	15.05	15.41	15.07	14.85	14.40	14.22	13.02	12.82	12.85	12.83	13.59	14.15
5	15.06	15.42	15.06	14.84	14.40	14.20	12.96	12.80	12.83	12.85	13.61	14.16
6	15.10	15.41	15.03	14.83	14.41	14.19	12.96	12.78	12.82	12.87	13.63	14.19
7	15.11	15.42	15.01	14.83	14.41	14.19	12.97	12.76	12.80	12.90	13.66	14.20
8	15.13	15.43	14.99	14.81	14.40	14.17	12.97	12.74	12.76	12.92	13.68	14.22
9	15.15	15.44	14.99	14.81	14.40	14.16	12.98	12.72	12.74	12.94	13.70	14.24
10	15.17	15.44	14.97	14.81	14.39	14.17	13.00	12.69	12.75	12.97	13.72	14.26
11	15.18	15.44	14.97	14.82	14.40	14.17	13.01	12.68	12.76	13.00	13.74	14.27
12	15.20	15.45	14.96	14.81	14.39	14.16	12.99	12.66	12.76	13.01	13.74	14.29
13	15.21	15.44	14.95	14.80	14.40	14.18	13.04	12.65	12.78	13.05	13.76	14.31
14	15.22	15.43	14.93	14.78	14.41	14.20	13.03	12.67	12.76	13.08	13.78	14.33
15	15.24	15.43	14.92	14.76	14.41	14.23	13.00	12.70	12.75	13.11	13.80	14.34
16	15.25	15.44	14.91	14.72	14.42	14.25	12.98	12.71	12.74	13.13	13.81	14.35
17	15.25	15.43	14.93	14.69	14.40	14.28	12.98	12.70	12.69	13.15	13.82	14.37
18	15.26	15.41	14.93	14.66	14.38	14.32	12.97	12.69	12.63	13.18	13.84	14.39
19	15.27	15.44	14.92	14.62	14.37	14.37	12.97	12.70	12.61	13.20	13.86	14.41
20	15.27	15.43	14.89	14.59	14.35	14.40	12.97	12.70	12.62	13.23	13.87	14.41
21	15.28	15.43	14.87	14.57	14.34	14.40	12.96	12.70	12.62	13.25	13.88	14.43
22	15.30	15.41	14.85	14.54	14.33	14.38	12.96	12.74	12.62	13.27	13.89	14.45
23	15.31	15.37	14.83	14.52	14.30	14.33	12.95	12.76	12.63	13.30	13.90	14.45
24	15.31	15.36	14.83	14.51	14.31	14.27	12.91	12.77	12.66	13.32	13.92	14.46
25	15.33	15.35	14.82	14.51	14.31	14.18	12.88	12.78	12.68	13.35	13.94	14.48
26	15.33	15.32	14.81	14.49	14.31	14.08	12.88	12.81	12.69	13.38	13.95	14.49
27	15.33	15.28	14.83	14.48	14.29	14.05	12.87	12.82	12.70	13.39	13.96	14.50
28	15.34	15.24	14.83	14.48	14.27	13.96	12.87	12.81	12.73	13.41	14.00	14.51
29	15.35	15.20	14.83	14.47	---	13.78	12.87	12.81	12.75	13.45	14.02	14.50
30	15.36	15.15	14.85	14.47	---	13.58	12.89	12.83	12.76	13.48	14.04	14.51
31	15.36	---	14.85	14.46	---	13.38	---	12.84	---	13.51	14.08	---
LOW	15.36	15.45	15.12	14.86	14.44	14.40	13.27	12.88	12.85	13.51	14.08	14.51
HIGH	14.98	15.15	14.81	14.46	14.27	13.38	12.87	12.65	12.61	12.78	13.53	14.10



WALDO COUNTY

442822069081301 Local number, WOW 85

LOCATION.--Lat 44°28'22", long 69°08'13", Hydrologic Unit 01050002, about 2.25 mi northeast of Morrill. Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Wash-bored unconfined observation 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.

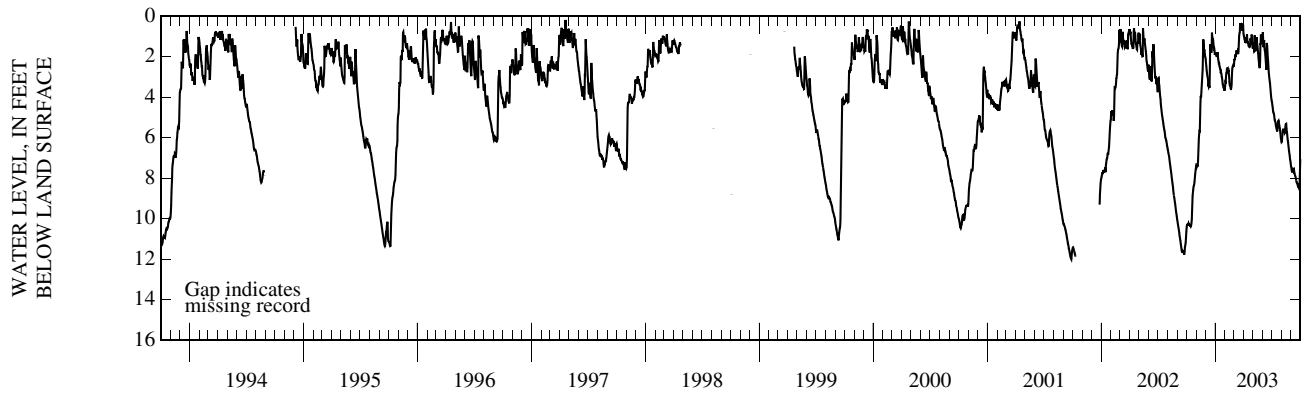
DATUM.--Elevation of land-surface datum is 334 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.06 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.05 ft below land-surface datum, Nov. 20, 1990; lowest recorded, 11.99 ft below land-surface datum, Sept. 26, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.42	7.33	2.12	1.87	3.49	2.49	0.86	1.59	1.09	4.24	6.21	7.46
2	10.31	7.34	2.34	1.86	3.24	2.23	0.96	1.48	0.79	4.36	6.19	7.58
3	10.31	7.42	2.49	1.91	3.25	2.12	1.01	1.29	1.23	4.48	5.96	7.68
4	10.30	7.38	2.69	1.80	2.96	2.17	1.14	1.57	1.54	4.60	5.75	7.72
5	10.22	7.38	2.81	2.02	2.81	2.02	1.17	1.75	1.40	4.71	5.65	7.67
6	10.29	7.15	2.93	1.95	2.78	1.89	1.28	1.74	1.18	4.73	5.60	7.58
7	10.23	6.90	3.02	1.88	2.55	2.01	1.28	0.95	1.54	4.81	5.61	7.49
8	10.27	6.38	3.12	1.78	2.64	1.92	1.09	1.22	1.69	4.85	5.62	7.55
9	10.30	6.05	3.35	1.97	2.66	1.72	1.08	1.40	1.78	4.99	5.67	7.64
10	10.30	5.82	3.33	2.13	2.63	1.73	1.13	1.53	1.96	5.13	5.69	7.61
11	10.33	5.67	3.50	2.23	2.72	1.82	1.12	1.73	2.19	5.16	5.77	7.73
12	10.35	5.68	3.47	2.33	2.70	1.80	0.90	1.18	2.42	5.21	5.74	7.80
13	10.35	5.11	3.53	2.33	2.90	1.75	1.21	1.04	2.65	5.32	5.47	7.85
14	10.38	4.27	2.92	2.47	3.07	1.83	1.33	1.21	1.84	5.43	5.35	7.90
15	10.33	3.94	1.48	2.51	3.24	1.88	1.24	1.42	1.32	5.48	5.33	7.95
16	10.21	4.02	1.39	2.59	3.41	1.72	1.31	1.53	1.47	5.56	5.32	8.01
17	10.04	3.72	1.53	2.63	3.42	1.31	1.45	1.70	1.75	5.62	5.55	8.12
18	9.66	3.43	1.71	2.82	3.44	0.97	1.48	1.87	2.03	5.69	5.71	8.20
19	9.19	3.17	1.81	2.77	3.58	0.86	1.46	2.09	2.23	5.48	5.84	8.22
20	8.87	2.93	1.67	2.82	3.59	0.81	1.48	2.23	2.52	5.26	6.01	8.25
21	8.70	2.62	0.82	2.99	3.53	0.35	1.52	2.42	2.78	5.18	6.15	8.33
22	8.55	1.89	1.02	3.04	3.36	0.46	1.50	2.53	2.94	5.16	6.25	8.36
23	8.43	1.15	1.17	3.20	2.88	0.44	1.13	2.57	3.08	5.25	6.42	8.35
24	8.37	1.42	1.29	3.34	2.60	0.58	1.13	2.21	3.22	5.35	6.56	8.43
25	8.31	1.64	1.26	3.42	2.50	0.59	1.22	1.36	3.34	5.44	6.69	8.44
26	8.17	1.67	1.43	3.44	2.48	0.60	1.40	1.40	3.51	5.52	6.79	8.49
27	7.99	1.65	1.61	3.50	2.42	0.57	0.91	0.91	3.69	5.57	6.89	8.43
28	7.80	1.80	1.59	3.49	2.44	0.73	1.03	1.12	3.92	5.74	7.06	8.22
29	7.66	1.98	1.72	3.56	---	0.59	1.27	1.23	4.07	5.91	7.15	7.64
30	7.52	2.04	1.92	3.69	---	0.37	1.55	1.34	4.17	6.05	7.26	7.07
31	7.45	---	1.87	3.61	---	0.47	---	1.03	---	6.14	7.39	---
LOW	10.42	7.42	3.53	3.69	3.59	2.49	1.55	2.57	4.17	6.14	7.39	8.49
HIGH	7.45	1.15	0.82	1.78	2.42	0.35	0.86	0.91	0.79	4.24	5.32	7.07



WASHINGTON COUNTY

450713067162801 Local number, WW 796

LOCATION.--Lat 45°07'13", long 67°16'28", Hydrologic Unit 01050001, in Calais, on Charlotte Road, about 2.25 mi south of U.S. Highway 1. Owner: U.S. Government (Moosehorn National Wildlife Refuge).

AQUIFER.--Bedrock of Devonian age.

WELL CHARACTERISTICS.--Drilled artesian observation 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.--Electronic water-level recorder. Prior to Dec. 1999, monthly measurements were published.

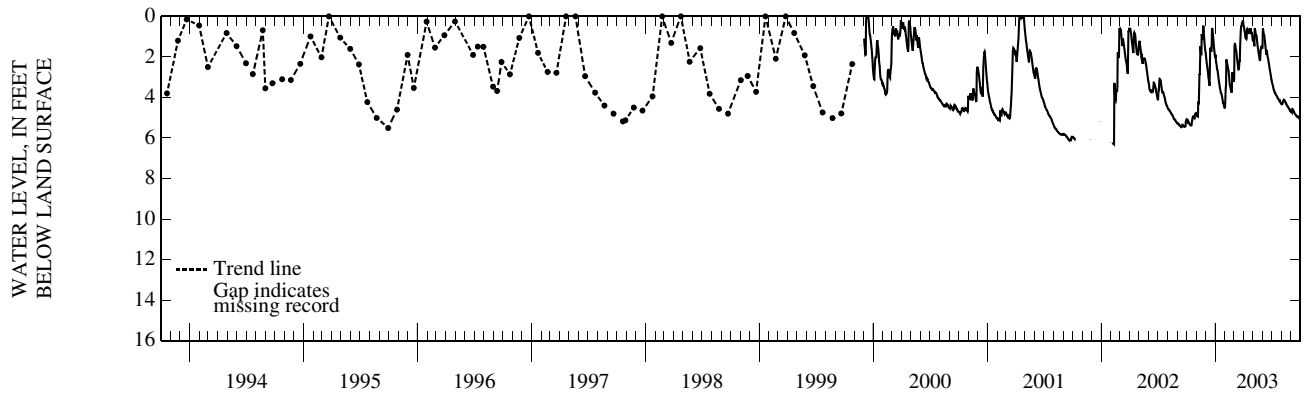
DATUM.--Elevation of land-surface datum is 130 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum, which is 0.80 ft above the general land surface.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed in 1981, 1982, 1983, 1984, 1997, 1998, 1999, 2000, and 2001; lowest recorded, 6.31 ft below land-surface datum, Feb. 6 and 10, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.07	4.80	1.78	1.88	4.48	3.23	0.44	1.23	1.50	3.23	4.33	4.69
2	5.09	4.83	1.99	2.10	3.95	3.03	0.51	1.19	0.59	3.31	4.32	4.72
3	5.14	4.91	2.13	2.26	3.54	1.45	0.55	1.11	0.64	3.36	4.31	4.74
4	5.19	4.92	2.29	2.32	3.41	1.36	0.68	1.24	0.81	3.42	4.31	4.68
5	5.17	4.94	2.41	2.46	2.13	1.37	0.76	1.38	0.94	3.47	4.26	4.58
6	5.23	4.76	2.52	2.56	2.24	1.43	0.86	1.47	0.87	3.54	4.19	4.58
7	5.22	4.24	2.64	2.62	2.28	1.60	1.02	0.62	1.04	3.62	4.13	4.60
8	5.25	4.24	2.75	2.65	2.37	1.69	1.08	0.62	1.17	3.65	4.11	4.65
9	5.29	4.25	2.94	2.79	2.45	1.70	1.08	0.73	1.30	3.68	4.13	4.70
10	5.32	3.62	3.04	2.94	2.53	1.85	1.11	0.86	1.45	3.76	4.14	4.71
11	5.34	2.84	3.18	3.06	2.62	2.02	1.03	0.99	1.61	3.77	4.15	4.76
12	5.36	2.89	3.28	3.19	2.72	2.12	0.64	0.94	1.75	3.78	4.21	4.79
13	5.37	2.13	3.42	3.28	2.87	2.28	0.61	0.97	1.90	3.83	4.23	4.81
14	5.36	1.47	2.75	3.38	3.03	2.40	0.66	1.13	1.77	3.87	4.25	4.83
15	5.38	1.67	1.58	3.49	3.19	2.54	0.65	1.30	1.67	3.90	4.28	4.85
16	5.37	1.82	1.57	3.58	3.34	2.62	0.68	1.44	1.83	3.92	4.29	4.87
17	5.26	1.83	1.58	3.64	3.44	2.61	0.76	1.55	1.94	3.94	4.34	4.90
18	5.17	0.87	1.66	3.75	3.47	2.44	0.81	1.66	2.02	3.97	4.38	4.93
19	5.10	0.99	1.74	3.78	3.58	2.19	0.83	1.77	2.09	4.01	4.40	4.94
20	5.00	1.09	1.61	3.81	3.65	2.25	0.81	1.87	2.19	4.04	4.43	4.94
21	4.95	1.16	0.64	3.88	3.71	1.52	0.80	1.97	2.30	4.07	4.46	4.95
22	4.93	0.85	0.58	3.96	3.76	1.16	0.77	2.08	2.39	4.09	4.46	4.97
23	4.94	0.46	0.72	4.06	3.53	0.72	0.58	2.15	2.49	4.11	4.49	4.96
24	4.97	0.67	0.89	4.14	2.76	0.51	0.65	2.19	2.60	4.14	4.53	4.98
25	5.01	0.92	1.06	4.24	2.83	0.47	0.75	1.84	2.69	4.15	4.56	4.99
26	5.02	1.11	1.23	4.27	2.96	0.45	0.88	1.71	2.78	4.17	4.58	5.01
27	4.90	1.27	1.48	4.30	3.04	0.35	0.77	1.59	2.88	4.15	4.59	5.03
28	4.82	1.45	1.62	4.35	3.13	0.35	0.82	1.56	2.99	4.18	4.65	4.98
29	4.79	1.62	1.76	4.42	---	0.35	0.95	1.46	3.09	4.23	4.68	4.88
30	4.78	1.73	1.95	4.50	---	0.18	1.12	1.51	3.16	4.28	4.66	4.89
31	4.79	---	2.04	4.51	---	0.25	---	1.60	---	4.31	4.69	---
LOW	5.38	4.94	3.42	4.51	4.48	3.23	1.12	2.19	3.16	4.31	4.69	5.03
HIGH	4.78	0.46	0.58	1.88	2.13	0.18	0.44	0.62	0.59	3.23	4.11	4.58



WASHINGTON COUNTY—Continued

445227067520101 Local number, WW 797

LOCATION.--Lat 44°52'27", long 67°52'01", Hydrologic Unit 01050002, about 0.35 mi south of State Highway 9 in Township T24MD, Hadley Lakes. Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--A wash-bored unconfined observation well, diameter 2 in., Sept. 1985 measured depth 30 ft, screened depth 25 to 30 ft, screen slot size 0.008 in.

INSTRUMENTATION.--Electronic water-level recorder. Prior to Oct. 1989, daily mean data were published every fifth day.

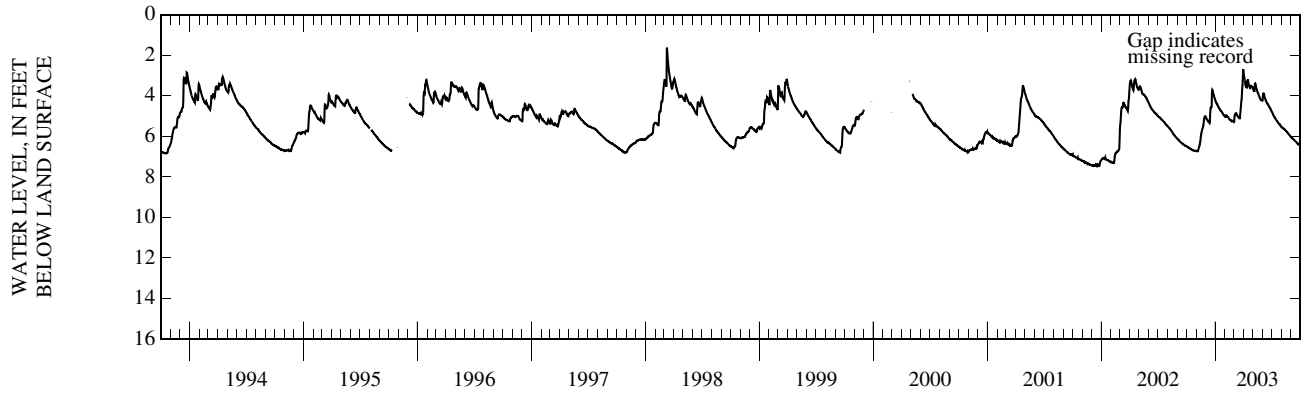
DATUM.--Elevation of land-surface datum is 250 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: V-notch on top of casing, north side of shelter, which is 3.42 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 1.63 ft below land-surface datum, Mar. 10, 1998; lowest recorded, 7.46 ft below land-surface datum, Dec. 16, 19, 21-23, 2001 (corrected).

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.49	6.73	5.02	4.23	5.02	5.29	2.81	3.65	4.23	4.80	5.55	6.05
2	6.50	6.72	5.08	4.28	5.00	5.27	2.95	3.67	4.05	4.83	5.56	6.07
3	6.51	6.73	5.11	4.32	5.04	5.01	3.06	3.71	3.91	4.86	5.57	6.09
4	6.53	6.73	5.15	4.34	5.04	4.95	3.15	3.75	3.89	4.89	5.58	6.09
5	6.53	6.74	5.17	4.38	4.99	4.92	3.24	3.78	3.89	4.92	5.59	6.10
6	6.55	6.72	5.19	4.41	5.01	4.88	3.32	3.80	3.93	4.95	5.60	6.12
7	6.55	6.69	5.21	4.43	5.00	4.87	3.42	3.55	4.02	4.98	5.62	6.13
8	6.57	6.64	5.23	4.44	5.02	4.86	3.50	3.40	4.07	5.01	5.63	6.14
9	6.58	6.58	5.26	4.48	5.05	4.85	3.56	3.39	4.11	5.03	5.64	6.16
10	6.59	6.53	5.28	4.51	5.06	4.90	3.58	3.44	4.16	5.07	5.65	6.17
11	6.60	6.47	5.30	4.55	5.07	4.93	3.58	3.53	4.20	5.09	5.67	6.19
12	6.61	6.39	5.31	4.58	5.08	4.95	3.38	3.59	4.24	5.11	5.68	6.21
13	6.62	6.30	5.33	4.60	5.11	4.99	3.25	3.64	4.29	5.14	5.70	6.22
14	6.63	6.20	5.26	4.63	5.13	5.02	3.23	3.70	4.32	5.17	5.71	6.24
15	6.64	6.05	4.85	4.66	5.15	5.04	3.22	3.76	4.34	5.20	5.73	6.26
16	6.65	5.92	4.65	4.69	5.17	5.06	3.26	3.82	4.37	5.22	5.74	6.27
17	6.66	5.83	4.60	4.71	5.19	5.07	3.38	3.85	4.39	5.24	5.76	6.28
18	6.67	5.77	4.59	4.74	5.19	5.09	3.46	3.89	4.41	5.26	5.78	6.30
19	6.67	5.72	4.58	4.75	5.21	5.11	3.50	3.93	4.43	5.28	5.80	6.32
20	6.68	5.65	4.55	4.76	5.22	5.11	3.54	3.97	4.46	5.31	5.81	6.33
21	6.69	5.60	3.87	4.79	5.23	4.97	3.57	4.00	4.49	5.33	5.83	6.34
22	6.69	5.55	3.70	4.81	5.25	4.77	3.61	4.05	4.51	5.35	5.85	6.36
23	6.70	5.47	3.73	4.84	5.23	4.62	3.60	4.09	4.54	5.37	5.87	6.37
24	6.70	5.34	3.81	4.86	5.23	4.41	3.51	4.13	4.58	5.38	5.89	6.38
25	6.71	5.21	3.87	4.89	5.24	4.26	3.50	4.16	4.60	5.40	5.91	6.40
26	6.71	5.12	3.92	4.91	5.26	4.15	3.54	4.19	4.63	5.42	5.93	6.41
27	6.71	5.06	4.00	4.93	5.27	3.93	3.55	4.21	4.66	5.43	5.95	6.42
28	6.72	5.03	4.05	4.95	5.28	3.65	3.55	4.21	4.70	5.45	5.97	6.43
29	6.72	5.01	4.09	4.97	---	3.48	3.55	4.21	4.74	5.48	6.00	6.43
30	6.72	5.00	4.16	5.00	---	3.06	3.62	4.22	4.76	5.50	6.01	6.45
31	6.73	---	4.20	5.02	---	2.69	---	4.24	---	5.53	6.03	---
LOW	6.73	6.74	5.33	5.02	5.28	5.29	3.62	4.24	4.76	5.53	6.03	6.45
HIGH	6.49	5.00	3.70	4.23	4.99	2.69	2.81	3.39	3.89	4.80	5.55	6.05



YORK COUNTY

432310070393301 Local number, YW 807

LOCATION.--Lat 43°23'10", long 70°39'33", Hydrologic Unit 01060003, about 4.5 mi southeast of South Sanford. Owner: U.S. Geological Survey.

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

WELL CHARACTERISTICS.--Wash-bored unconfined 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. Prior to Oct. 1989, daily mean data were published every fifth day.

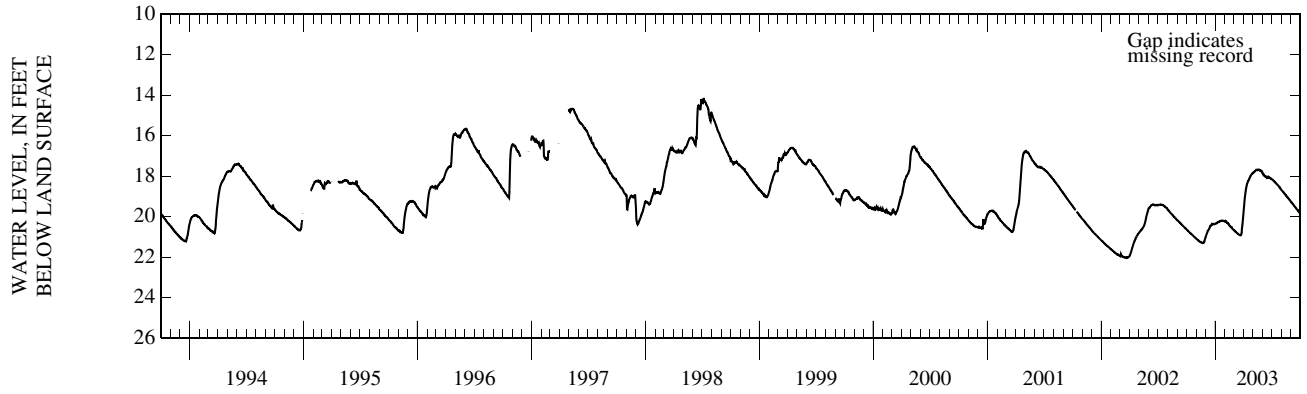
DATUM.--Elevation of land-surface datum is 202 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.90 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 14.18 ft below land-surface datum, July 5 and 6, 1998; lowest recorded, 22.02 ft below land-surface datum, Mar. 21-25, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.63	21.08	21.00	20.35	20.22	20.66	19.87	17.84	17.81	18.16	18.68	19.28
2	20.65	21.10	20.95	20.34	20.21	20.66	19.67	17.82	17.87	18.16	18.70	19.30
3	20.66	21.12	20.91	20.33	20.24	20.69	19.46	17.82	17.91	18.17	18.72	19.32
4	20.68	21.13	20.86	20.32	20.23	20.70	19.27	17.81	17.93	18.18	18.74	19.32
5	20.69	21.14	20.82	20.32	20.26	20.71	19.09	17.80	17.93	18.19	18.75	19.34
6	20.72	21.15	20.78	20.31	20.29	20.73	18.96	17.78	17.96	18.21	18.77	19.37
7	20.72	21.17	20.74	20.29	20.28	20.75	18.84	17.76	17.98	18.23	18.79	19.38
8	20.74	21.18	20.70	20.28	20.30	20.76	18.72	17.75	18.00	18.24	18.81	19.41
9	20.76	21.19	20.67	20.27	20.31	20.76	18.62	17.74	18.00	18.26	18.83	19.43
10	20.78	21.20	20.64	20.26	20.32	20.78	18.54	17.72	18.02	18.29	18.85	19.45
11	20.79	21.22	20.62	20.26	20.34	20.80	18.46	17.71	18.02	18.29	18.87	19.47
12	20.81	21.23	20.59	20.25	20.35	20.81	18.39	17.68	18.04	18.30	18.90	19.50
13	20.82	21.24	20.57	20.24	20.38	20.83	18.36	17.68	18.05	18.33	18.91	19.52
14	20.84	21.25	20.53	20.24	20.40	20.84	18.32	17.68	18.03	18.35	18.93	19.54
15	20.85	21.25	20.45	20.23	20.43	20.85	18.27	17.71	18.06	18.36	18.95	19.55
16	20.86	21.26	20.45	20.22	20.45	20.86	18.24	17.71	18.09	18.37	18.96	19.57
17	20.87	21.26	20.45	20.21	20.47	20.87	18.23	17.69	18.07	18.39	18.98	19.60
18	20.88	21.28	20.44	20.21	20.48	20.89	18.20	17.67	18.04	18.41	19.01	19.62
19	20.89	21.29	20.43	20.20	20.50	20.90	18.16	17.68	18.03	18.43	19.03	19.63
20	20.91	21.29	20.42	20.20	20.52	20.91	18.13	17.67	18.06	18.45	19.04	19.65
21	20.93	21.30	20.35	20.20	20.53	20.91	18.09	17.68	18.06	18.46	19.06	19.67
22	20.94	21.29	20.35	20.19	20.54	20.90	18.05	17.70	18.05	18.48	19.07	19.69
23	20.96	21.30	20.36	20.19	20.54	20.91	18.01	17.71	18.07	18.50	19.09	19.70
24	20.98	21.29	20.37	20.20	20.59	20.90	17.98	17.71	18.09	18.52	19.12	19.72
25	20.99	21.27	20.36	20.20	20.60	20.86	17.96	17.71	18.09	18.54	19.14	19.74
26	21.00	21.24	20.37	20.20	20.62	20.78	17.93	17.73	18.09	18.56	19.15	19.76
27	21.01	21.20	20.37	20.20	20.63	20.61	17.90	17.74	18.10	18.56	19.17	19.78
28	21.03	21.15	20.36	20.21	20.65	20.47	17.88	17.74	18.13	18.59	19.20	19.79
29	21.05	21.10	20.36	20.21	---	20.36	17.86	17.74	18.14	18.62	19.22	19.81
30	21.06	21.05	20.37	20.23	---	20.22	17.86	17.77	18.14	18.65	19.24	19.84
31	21.07	---	20.35	20.23	---	20.05	---	17.81	---	18.67	19.26	---
LOW	21.07	21.30	21.00	20.35	20.65	20.91	19.87	17.84	18.14	18.67	19.26	19.84
HIGH	20.63	21.05	20.35	20.19	20.21	20.05	17.86	17.67	17.81	18.16	18.68	19.28



CUMBERLAND COUNTY

Water-quality data from the Windham aquifer, Windham, Maine, Water Year October 2002 to September 2003

Samples were collected at 20 wells in the Windham sand and gravel aquifer as part of an ongoing cooperative monitoring program with the town of Windham. The ground water well CW 1983, station number 435039070261101, is equipped with an electronic water-level recorder that collects water level data. Those data are presented in the preceeding section, Ground-Water Records.

PERIOD OF RECORD.--CHEMICAL ANALYSES: Water year 1996, published in OFR 98-265; Water year 1998, published in WRIR 00-4048 and OFR 02-145; Water years 2000, 2001, published in OFR 02-145; except for two new wells drilled in June 2003, local id CW 2025, station number 435022070255401 and local id CW 2026, station number 434955070261401, which are give below.
All wells were sampled following USGS protocols as described in the Explanation of the records section in this report. Low-flow sampling procedures were used. The flow rates ranged from 0.13 to 0.48 gallons per minute and the pumping period from 28 to 72 minutes.

MULTIPLE STATION ANALYSES

Station number	Local ID	Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Sodium, water, fltrd, mg/L (00930)	Chlor-ide, water, fltrd, mg/L (00940)
434955070261401	2026	09-05-03	1515	22.5	11.64	750	9.4	93	5.6	216	14.3	--	--
435002070255601	1990	08-27-03	1000	80	27.50	746	.2	2	7.5	347	12.7	18.6	47.9
435002070255701	1971	08-27-03	1110	22	16.19	746	5.6	54	5.9	45	12.5	3.06	3.32
435004070262101	2012	09-03-03	1550	27	16.33	756	.2	2	6.9	588	12.0	32.6	88.2
435008070253901	1979	09-03-03	1045	109	37.84	758	4.8	45	6.6	318	12.6	23.6	50.7
435008070253902	2005	09-03-03	1215	48	36.10	758	9.4	92	5.7	281	14.2	36.5	53.7
435008070262901	1992	08-27-03	1330	54	13.69	744	4.2	40	5.7	108	12.0	--	--
435008070262902	1993	08-27-03	1430	27	10.50	744	3.4	32	5.8	99	10.9	9.96	15.3
435014070264901	2011	08-26-03	1530	27	14.23	748	10.2	102	5.7	104	14.6	15.0	23.5
435018070263201	2010	08-28-03	0940	32	16.27	755	7.0	66	5.4	359	12.3	44.1	90.3
435022070255401	2025	09-03-03	1420	55	34.63	758	.2	2	6.5	301	11.6	21.7	48.5
435026070264101	1999	09-05-03	1305	80	22.89	750	1.0	10	8.7	120	14.4	6.22	7.36
435026070264102	2009	09-04-03	1515	22	14.05	748	1.8	17	5.6	588	12.5	53.4	106
435040070264501	2007	08-26-03	1000	24	9.44	751	7.9	75	5.7	674	12.4	95.0	170
435041070262301	2000	09-04-03	1050	70	27.58	748	.2	2	6.8	329	10.6	20.8	40.2
435055070263601	1985	08-26-03	1345	25.7	3.74	750	.1	1	6.1	115	10.8	6.09	16.4
435056070263701	1984	08-26-03	1215	132	3.60	750	5.3	47	6.9	155	9.6	6.25	9.87
435131070261401	2001	08-28-03	1140	127	15.00	755	.2	2	7.0	138	9.3	--	--
435131070261402	2008	08-28-03	1250	27	13.71	754	6.4	56	5.4	35	8.8	3.52	3.58
435039070261101	1983	09-05-03	1005	37.6	17.18	748	4.6	41	6.3	150	9.9	--	--

Station number	Local ID	Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Boron, water, fltrd, ug/L (01020)
434955070261401	2026	09-05-03	<.41	3.33	<.080	<.18	<.004	--
435002070255601	1990	08-27-03	<.04	<.06	<.008	<.02	<.004	13
435002070255701	1971	08-27-03	<.04	.47	<.008	E.02	.020	E4.3
435004070262101	2012	09-03-03	<.04	3.11	<.008	<.02	.005	33
435008070253901	1979	09-03-03	<.04	2.55	E.004	<.02	.005	27
435008070253902	2005	09-03-03	<.04	5.10	<.008	<.02	.007	52
435008070262901	1992	08-27-03	<.04	1.57	<.008	<.02	<.004	--
435008070262902	1993	08-27-03	<.04	1.50	<.008	<.02	E.003	13
435014070264901	2011	08-26-03	<.04	.43	<.008	<.02	<.004	E5.0
435018070263201	2010	08-28-03	<.04	1.54	<.008	<.02	<.004	E6.3
435022070255401	2025	09-03-03	<.04	.06	<.008	<.02	.009	36
435026070264101	1999	09-05-03	<.41	<.60	<.080	<.18	.042	10
435026070264102	2009	09-04-03	8.73	15.7	.027	<.02	.011	26
435040070264501	2007	08-26-03	<.04	4.39	<.008	E.01	.012	8.7
435041070262301	2000	09-04-03	<.04	4.72	.056	<.02	.008	13
435055070263601	1985	08-26-03	<.04	<.06	<.008	<.02	E.003	E6.6
435056070263701	1984	08-26-03	<.04	1.13	<.008	<.02	.005	E6.1
435131070261401	2001	08-28-03	<.04	<.06	<.008	.03	.032	--
435131070261402	2008	08-28-03	<.04	.18	<.008	<.02	E.003	<7.0
435039070261101	1983	09-05-03	<.41	.83	<.008	<.18	E.003	--

Remark codes used in this report:
  < -- Less than
  E -- Estimated value

CUMBERLAND COUNTY—Continued

Water-quality data from the Windham aquifer, Windham, Maine, Water Year October 2002 to September 2003—Continued

Three of the twenty wells sampled in Windham in water year 2003 were also sampled for wastewater-related contaminants, analyzed by the National Water Quality Laboratory schedule 1433. The three wells sampled for this additional schedule were: local id CW 2005, station number 435008070253902, local id CW 2000, station number 435041070262301, and local id CW 2009, station number 435026070264102. The compounds analyzed are listed in the table below with the minimum reporting levels (LRL) and parameter codes (PCode). Water samples listed on the previous page for the these three wells were analyzed for all the compounds listed. Although the presence of some of these compounds was detected, all were below the laboratory reporting levels.

WASTEWATER-RELATED COMPOUNDS, SCHEDULE 1433

PCode	Compound name	LRL (µg/L)
62005	Cotinine	1
62052	Ethynyl estradiol	5
62063	5-Methyl-1H-benzotriazole	2
62066	Anthraquinone	0.5
62064	Acetophenone	0.5
62065	Acetyl hexamethyl tetrahydronaphthalene (AHTN)	0.5
34221	Anthracene	0.5
34572	1,4-Dichlorobenzene	0.5
34248	Benzo[a]pyrene	0.5
62067	Benzophenone	0.5
04029	Bromacil	0.5
34288	Bromoform	0.5
62059	3-tert-Butyl-4-hydroxy anisole (BHA)	5
50305	Caffeine	0.5
62070	Camphor	0.5
82680	Carbaryl	1
62071	Carbazole	0.5
38933	Chlorpyrifos	0.5
62072	Cholesterol	2
62057	3-beta-Coprostanol	2
62078	Isopropylbenzene	0.5
62082	N,N-diethyl-meta-toluamide (DEET)	0.5
39572	Diazinon	0.5
38775	Dichlorvos	1
62069	Bisphenol A	1
62074	Equilenin	5
62053	17-beta-Estradiol	5
62484	Estrone	5
62091	Triethyl citrate (ethyl citrate)	0.5
34476	Tetrachloroethylene	0.5
34377	Fluoranthene	0.5
62075	Hexadydrohexamethylcyclopentabenzopyran (HHCB)	0.5
62076	Indole	0.5
62077	Isoborneol	0.5
34409	Isophorone	0.5
62079	Isoquinoline	0.5
62073	d-Limonene	0.5
62080	Menthol	0.5
50359	Metalaxyl	0.5
39415	Metolachlor	0.5
34443	Naphthalene	0.5
62054	1-Methylnaphthalene	0.5
62055	2,6-Dimethylnaphthalene	0.5
62056	2-Methylnaphthalene	0.5
62083	Nonylphenol, diethoxy- (total)	5
62084	p-Cresol	1
62060	4-Cumylphenol	1
62085	para-Nonylphenol (total)	5
62061	4-n-Octylphenol	1
62062	4-tert-Octylphenol	1
34462	Phenanthrene	0.5
34466	Phenol	0.5
34459	Pentachlorophenol	2
62089	Tributyl phosphate	0.5
62092	Triphenyl phosphate	0.5
62093	Tri(2-butoxyethyl)phosphate	0.5
62087	Tri(2-chloroethyl)phosphate	0.5
04037	Prometon	0.5
34470	Pyrene	0.5
62081	Methyl salicylate	0.5
62058	3-Methyl-1(H)-indole (Skatole)	1
62068	beta-Sitosterol	2
62086	beta-Stigmastanol	2
62090	Triclosan	1
62088	Tris (dichlorisopropyl) phosphate	0.5

Organic pesticide compounds, Schedule 2001, and volatile organic compounds (VOC), Schedule 2020, are listed with minimum reporting levels below. Water samples listed on the next page were analyzed for all the compounds listed but only compounds that were detected in one or more samples will appear.

Organic Pesticide Table

PCode	Compound name	LRL (µg/L)
34253	alpha-HCH	0.005
49260	Acetochlor	0.006
46342	Alachlor	0.005
82660	2,6-Diethylaniline	0.006
39632	Atrazine	0.007
82686	Azinphos-methyl	0.05
82673	Benfluralin	0.01
4028	Butylate	0.004
82680	Carbaryl	0.041
82674	Carbofuran	0.02
38933	Chlorpyrifos	0.005
82687	cis-Permethrin	0.006
4041	Cyanazine	0.018
82682	Dacthal	0.003
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine	0.006
39572	Diazinon	0.005
39381	Dieldrin	0.009
82677	Disulfoton	0.021
82668	EPTC	0.004
82663	Ethalfluralin	0.009
82672	Ethoprophos	0.005
62169	Desulfinylfipronil amide	0.029
62167	Fipronil sulfide	0.013
62168	Fipronil sulfone	0.024
62170	Desulfinylfipronil	0.012
62166	Fipronil	0.016
4095	Fonofos	0.003
39341	Lindane	0.004
82666	Linuron	0.035
39532	Malathion	0.027
82667	Parathion-methyl	0.015
39415	Metolachlor	0.013
82630	Metribuzin	0.006
82671	Molinate	0.003
82684	Napropamide	0.007
34653	p,p'-DDE	0.003
39542	Parathion	0.01
82669	Pebulate	0.004
82683	Pendimethalin	0.022
82664	Phorate	0.011
4037	Prometon	0.005
82676	Propyzamide	0.004
4024	Propachlor	0.025
82679	Propanil	0.011
82685	Propargite	0.023
4035	Simazine	0.005
82670	Tebuthiuron	0.016
82665	Terbacil	0.034
82675	Terbufos	0.017
82681	Thiobencarb	0.01
82678	Tri-allate	0.002
82661	Trifluralin	0.009

Volatile Organic Compound Table

PCode	Compound name	LRL (µg/L)
49999	1,2,3,4-Tetramethylbenzene	0.14
50000	1,2,3,5-Tetramethylbenzene	0.14
81595	2-Butanone	4
73547	trans-1,4-Dichloro-2-butene	0.7
77103	2-Hexanone	0.7
78133	4-Methyl-2-pentanone	0.37
81552	Acetone	6
34215	Acrylonitrile	1.2
34030	Benzene	0.021
77613	1,2,3-Trichlorobenzene	0.27
77221	1,2,3-Trimethylbenzene	0.06
34551	1,2,4-Trichlorobenzene	0.12
81555	Bromobenzene	0.028
34301	Chlorobenzene	0.028

Volatile Organic Compounds Table --Continued

PCode	Compound name	LRL (µg/L)
34371	Ethylbenzene	0.03
34566	1,3-Dichlorobenzene	0.03
77342	Butylbenzene	0.12
77224	n-Propylbenzene	0.042
34536	1,2-Dichlorobenzene	0.048
34571	1,4-Dichlorobenzene	0.034
77350	sec-Butylbenzene	0.06
77353	tert-Butylbenzene	0.06
50002	Bromoethene	0.1
32104	Bromoform	0.1
39702	Hexachlorobutadiene	0.14
77041	Carbon disulfide	0.038
32102	Tetrachloromethane	0.06
32106	Chloroform	0.024
77223	Isopropylbenzene	0.038
77562	1,1,1,2-Tetrachloroethane	0.03
34506	1,1,1-Trichloroethane	0.032
77652	1,1,2-Trichlorotrifluoroethane	0.038
77651	1,2-Dibromoethane	0.036
32103	1,2-Dichloroethane	0.13
34396	Hexachloroethane	0.14
34516	1,1,2,2-Tetrachloroethane	0.16
34311	Chloroethane	0.12
81576	Diethyl ether	0.08
50004	Ethyl tert-butyl ether	0.05
77093	cis-1,2-Dichloroethylene	0.024
34475	Tetrachloroethylene	0.06
34546	trans-1,2-Dichloroethylene	0.032
39180	Trichloroethylene	0.038
34496	1,1-Dichloroethane	0.035
81607	Tetrahydrofuran	2.2
81577	Diisopropyl ether	0.1
85795	m- and p-Xylene	0.06
77226	1,3,5-Trimethylbenzene	0.044
73570	Ethyl methacrylate	0.18
81597	Methyl methacrylate	0.35
81593	Methyl acrylonitrile	0.76
77297	Bromochloromethane	0.12
32101	Bromodichloromethane	0.028
32105	Dibromochloromethane	0.1
34668	Dichlorodifluoromethane	0.18
34488	Trichlorofluoromethane	0.16
49991	Methyl acrylate	2
34413	Bromomethane	0.26
34418	Chloromethane	0.17
77424	Methyl iodide	0.35
78032	tert-Butyl methyl ether	0.17
30217	Dibromomethane	0.05
34423	Dichloromethane	0.06
34696	Naphthalene	0.52
77135	o-Xylene	0.038
77356	4-Isopropyl-1-methylbenzene	0.08
77443	1,2,3-Trichloropropane	0.18
77173	1,3-Dichloropropane	0.06
77170	2,2-Dichloropropane	0.05
82625	1,2-Dibromo-3-chloropropane	0.51
77168	1,1-Dichloropropene	0.026
78109	3-Chloropropene	0.5
34704	cis-1,3-Dichloropropene	0.05
34699	trans-1,3-Dichloropropene	0.09
34541	1,2-Dichloropropane	0.029
77222	1,2,4-Trimethylbenzene	0.056
77128	Styrene	0.042
50005	tert-Pentyl methyl ether	0.08
34010	Toluene	0.05
77275	2-Chlorotoluene	0.04
77220	o-Ethyl toluene	0.06
77277	4-Chlorotoluene	0.05
39175	Vinyl chloride	0.06
34511	1,1,2-Trichloroethane	0.064
34501	1,1-Dichloroethylene	0.024

WATER QUALITY AT MISCELLANEOUS GROUND-WATER WELLS
(WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003)

Remarks: PS, public-supply (gravel-packed) well; BEDROCK, crystalline-rock aquifer; 112SRFD, surficial aquifer; LSD, land-surface datum; gal/min, gallons per minute; NTU, nephelometric turbidity unit; mm Hg, millimeters mercury; mg/L, milligrams per liter; uS/cm, microsiemens per centimeter; deg C, degrees celcius; ug/L, micrograms per liter; "E", estimated concentrations; "<", less than; "M", presence verified, not quantified. Organic pesticide compounds, analyzed by NWQL Schedule 2001, and volatile organic compounds (VOCs), analyzed by NWQL Schedule 2020, are listed with laboratory reporting levels in the previous tables. Only pesticides and VOCs identified by the analyses (either as estimated values or values measured at or above the laboratory reporting level) for one or more samples are listed in the water-quality tables. Water-quality data presented in this table were collected by the New England Coastal Basins National Water-Quality Assessment Program (NAWQA) as part of a National Ground Water Network to determine long-term trends in ground-water quality. Accurate latitude and longitudal data are available for the wells, but are omitted from this table. Anyone interested in obtaining this locational data should contact the USGS Information Officer, NH/VT District, at dc_nh@usgs.gov.

Local identifier	Well Type	Geologic unit	Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Turbidity, water, unfltrd field, NTU (61028)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
ME-ANW 1131	domestic	BEDROCK	07-31-03	1000	262	--	500	1.0	.5	755	.4	4
ME-OW 387	PS	112SRFD	07-30-03	1000	82	--	354	.8	.1	758	6.0	52
ME-SMW 82	domestic	BEDROCK	07-29-03	1000	100	8.55	360	2.0	1.6	749	.1	0
ME-SMW 83	domestic	BEDROCK	07-29-03	1000	175	3.05	630	1.8	.1	--	10.0	88

Local identifier	Date	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)
ME-ANW 1131	07-31-03	7.7	170	25.0	11.4	74	21.2	5.09	.96	7.36	65
ME-OW 387	07-30-03	6.0	307	25.0	9.3	90	29.5	4.00	2.48	24.5	56
ME-SMW 82	07-29-03	7.3	393	25.0	10.8	180	42.9	18.6	2.67	8.79	139
ME-SMW 83	07-29-03	6.8	192	25.0	9.8	88	24.6	6.49	.61	3.64	61

Local identifier	Date	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, fltrd, field, mg/L (99118)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
ME-ANW 1131	07-31-03	79	E.01	3.52	.6	17.3	11.5	.003	107	<.10	<.04
ME-OW 387	07-30-03	68	.02	41.2	<.2	14.6	16.6	--	177	<.10	<.04
ME-SMW 82	07-29-03	169	.06	32.3	<.2	16.0	12.7	.006	218	<.10	<.04
ME-SMW 83	07-29-03	74	E.01	11.4	<.2	7.62	8.9	--	103	<.10	<.04

Local identifier	Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
ME-ANW 1131	07-31-03	<.06	<.008	<.02	72	<.30	<.3	38	<.06	<7	<.04
ME-OW 387	07-30-03	2.44	<.008	<.02	8	<.30	E.1	18	<.06	25	E.03
ME-SMW 82	07-29-03	<.06	<.008	<.02	<2	<.30	E.2	73	<.06	8	<.04
ME-SMW 83	07-29-03	.77	<.008	<.54	<2	<.30	.5	1	<.06	14	<.04

WATER QUALITY AT MISCELLANEOUS GROUND-WATER WELLS-- continued

Local identifier	Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron-(II), water, unfltrd ug/L (99032)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)
ME-ANW 1131	07-31-03	<.8	.04	<.2	30	20	<.08	10.0	33.8	2.7	.29
ME-OW 387	07-30-03	E.4	.30	1.0	--	26	.18	.9	5.0	<.3	1.30
ME-SMW 82	07-29-03	<.8	.10	E.2	270	299	.11	2.8	99.7	.9	.83
ME-SMW 83	07-29-03	<.8	.06	1.5	--	<8	.10	.5	<.2	E.2	.85

Local identifier	Date	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Thallium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	1,2-Dichlorobenzene water unfltrd ug/L (34536)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	Chlorobenzene water unfltrd ug/L (34301)
ME-ANW 1131	07-31-03	<.5	<.20	186	<.04	E.1	<1	<.02	<.03	<.05	<.03
ME-OW 387	07-30-03	<.5	<.20	211	<.04	.4	3	.06	E.09	E.04	E.10
ME-SMW 82	07-29-03	<.5	<.20	452	<.04	.7	M	<.02	<.03	<.05	<.03
ME-SMW 83	07-29-03	<.5	<.20	144	<.04	E.1	M	<.02	<.03	<.05	<.03

Local identifier	Date	Dichlorodifluoromethane wat unf ug/L (34668)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	Tetrachloroethene, water, unfltrd ug/L (34475)	Trichloroethene, water, unfltrd ug/L (39180)	Trichloromethane water unfltrd ug/L (32106)	Rn-222, water, unfltrd pCi/L (82303)	Uranium natural water, fltrd, ug/L (22703)
ME-ANW 1131	07-31-03	<.18	.6	<.03	<.04	<.02	920	.26
ME-OW 387	07-30-03	<.18	.4	.10	E.04	E.02	1,290	13.8
ME-SMW 82	07-29-03	E.30	<.2	<.03	<.04	<.02	3,400	.69
ME-SMW 83	07-29-03	E.27	<.2	<.03	<.04	<.02	760	.28

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

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

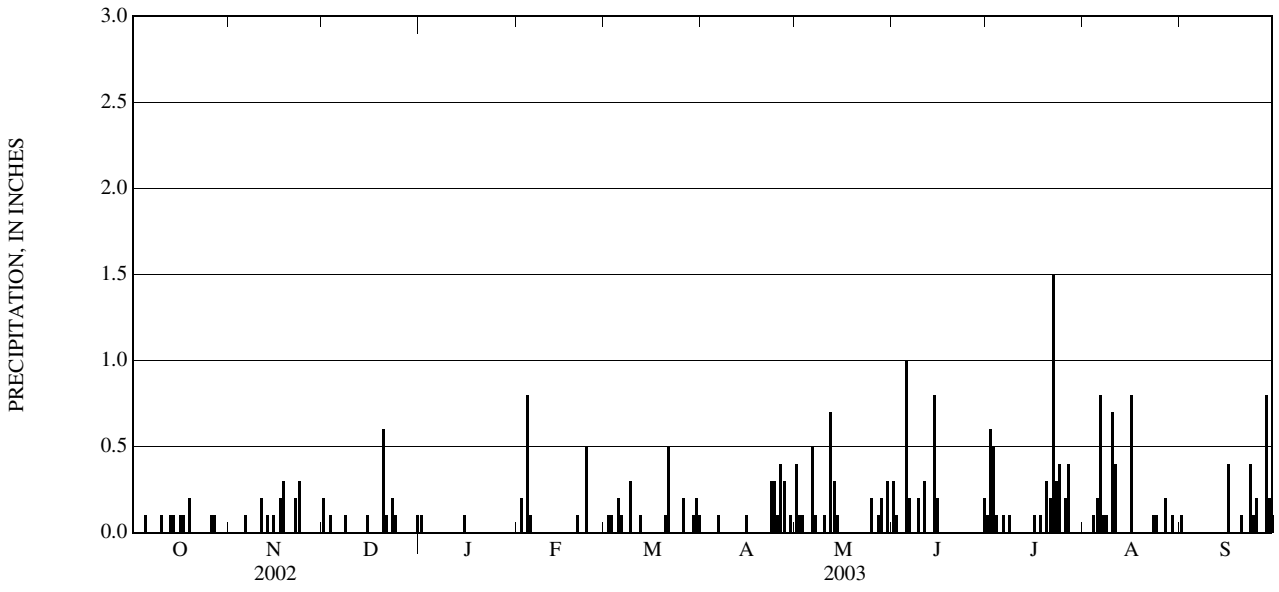
PERIOD OF RECORD.--October 2002 to September 2003.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, mounted on top of gage house with the top of the collector 12 ft above the ground. Elevation of gage is 960 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.4	0.3	0.1	0.0	0.1
2	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.1	0.6	0.0	0.0
3	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.5	0.0	0.0
4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.1	0.1	0.0
5	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.0	1.0	0.0	0.2	0.0
6	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.5	0.2	0.1	0.8	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
9	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0
10	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.7	0.0
11	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.0
12	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.0	0.0	0.0
13	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
14	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.0	0.0	0.0
15	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0
16	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.4
17	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
19	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.6	0.0	0.1	0.1	0.0	0.0	0.0	0.3	0.0	0.1
21	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.0
22	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
23	0.0	0.3	0.2	0.0	0.5	0.0	0.3	0.0	0.0	0.3	0.1	0.4
24	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.4	0.1	0.1
25	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.2
26	0.1	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.2	0.0	0.0
27	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.4	0.2	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8
29	0.0	0.0	0.0	0.0	---	0.1	0.1	0.0	0.0	0.0	0.1	0.2
30	0.0	0.0	0.0	0.0	---	0.2	0.0	0.3	0.2	0.0	0.0	0.1
31	0.0	---	0.1	0.0	---	0.1	---	0.0	---	0.0	0.0	---
TOTAL	1.0	1.5	1.6	0.2	1.7	2.1	1.7	3.2	3.3	5.0	3.7	2.4



01010500 ST. JOHN RIVER AT DICKEY, ME

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, Hydrologic Unit 01010001, on right bank at downstream side of State Route 161 highway bridge at Dickey, 0.4 mi downstream from Little Black River, and 2.8 mi upstream from Allagash River.

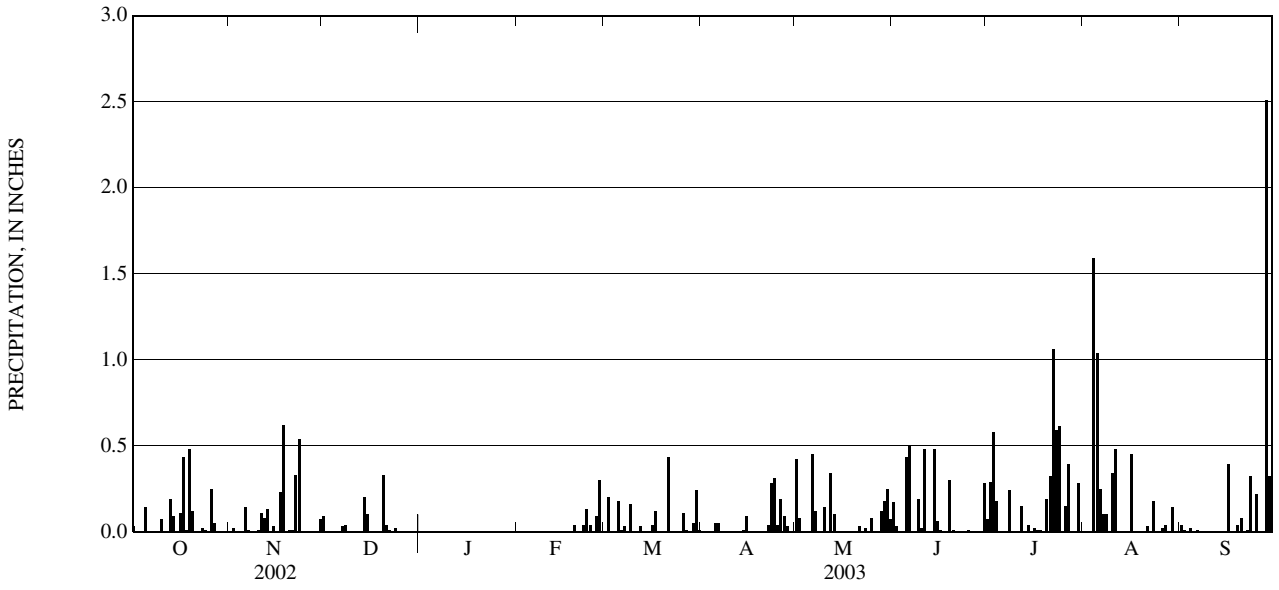
PERIOD OF RECORD.--October 2002 to September 2003.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of gage house with the top of the collector 10 ft above the ground. Elevation of gage is 636 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No precipitation record, Dec. 25 to Feb. 11. Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.00	0.09	---	---	0.00	0.00	0.42	0.17	0.07	0.00	0.04
2	0.00	0.02	0.00	---	---	0.20	0.00	0.08	0.03	0.29	0.00	0.01
3	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.58	0.00	0.00
4	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.18	1.59	0.02
5	0.14	0.00	0.00	---	---	0.18	0.05	0.00	0.43	0.00	1.04	0.00
6	0.00	0.14	0.00	---	---	0.01	0.05	0.45	0.50	0.00	0.25	0.01
7	0.00	0.01	0.03	---	---	0.03	0.00	0.12	0.00	0.00	0.10	0.00
8	0.00	0.00	0.04	---	---	0.00	0.00	0.00	0.00	0.24	0.10	0.00
9	0.00	0.00	0.00	---	---	0.16	0.00	0.00	0.19	0.00	0.00	0.00
10	0.07	0.01	0.00	---	---	0.00	0.00	0.14	0.02	0.00	0.34	0.00
11	0.00	0.11	0.00	---	---	0.00	0.00	0.00	0.48	0.00	0.48	0.00
12	0.00	0.08	0.00	---	0.00	0.03	0.00	0.34	0.00	0.15	0.00	0.00
13	0.19	0.13	0.00	---	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
14	0.09	0.00	0.20	---	0.00	0.00	0.01	0.00	0.48	0.04	0.00	0.00
15	0.00	0.03	0.10	---	0.00	0.00	0.09	0.00	0.06	0.00	0.00	0.00
16	0.11	0.00	0.00	---	0.00	0.04	0.00	0.00	0.01	0.02	0.45	0.39
17	0.43	0.23	0.00	---	0.00	0.12	0.00	0.00	0.00	0.01	0.00	0.00
18	0.01	0.62	0.00	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
19	0.48	0.00	0.00	---	0.04	0.00	0.00	0.00	0.30	0.00	0.00	0.04
20	0.12	0.01	0.33	---	0.00	0.00	0.00	0.00	0.01	0.19	0.00	0.08
21	0.00	0.01	0.04	---	0.00	0.43	0.00	0.03	0.00	0.32	0.03	0.00
22	0.00	0.33	0.01	---	0.04	0.00	0.04	0.00	0.00	1.06	0.00	0.01
23	0.02	0.54	0.00	---	0.13	0.00	0.28	0.02	0.00	0.59	0.18	0.32
24	0.01	0.00	0.02	---	0.04	0.00	0.31	0.00	0.00	0.61	0.00	0.00
25	0.00	0.00	---	---	0.00	0.00	0.04	0.08	0.01	0.00	0.00	0.22
26	0.25	0.00	---	---	0.09	0.11	0.19	0.00	0.00	0.15	0.02	0.00
27	0.05	0.00	---	---	0.30	0.01	0.09	0.00	0.00	0.39	0.04	0.00
28	0.00	0.00	---	---	0.00	0.00	0.03	0.12	0.00	0.00	0.00	2.51
29	0.00	0.00	---	---	---	0.05	0.00	0.18	0.00	0.00	0.14	0.32
30	0.00	0.07	---	---	---	0.24	0.00	0.25	0.28	0.28	0.00	0.00
31	0.00	---	---	---	---	0.01	---	0.07	---	0.00	0.00	---
TOTAL	2.00	2.34	---	---	---	1.62	1.18	2.40	2.97	5.18	4.76	3.97



452156069371801 SHIRLEY PRECIPITATION AT SHIRLEY MILLS, ME

LOCATION.--Lat 45°21'56", long 69°37'18", Piscataquis County, Hydrologic Unit 01020004, in clearing east of Shirley Mills Volunteer Fire Department in Shirley Mills.

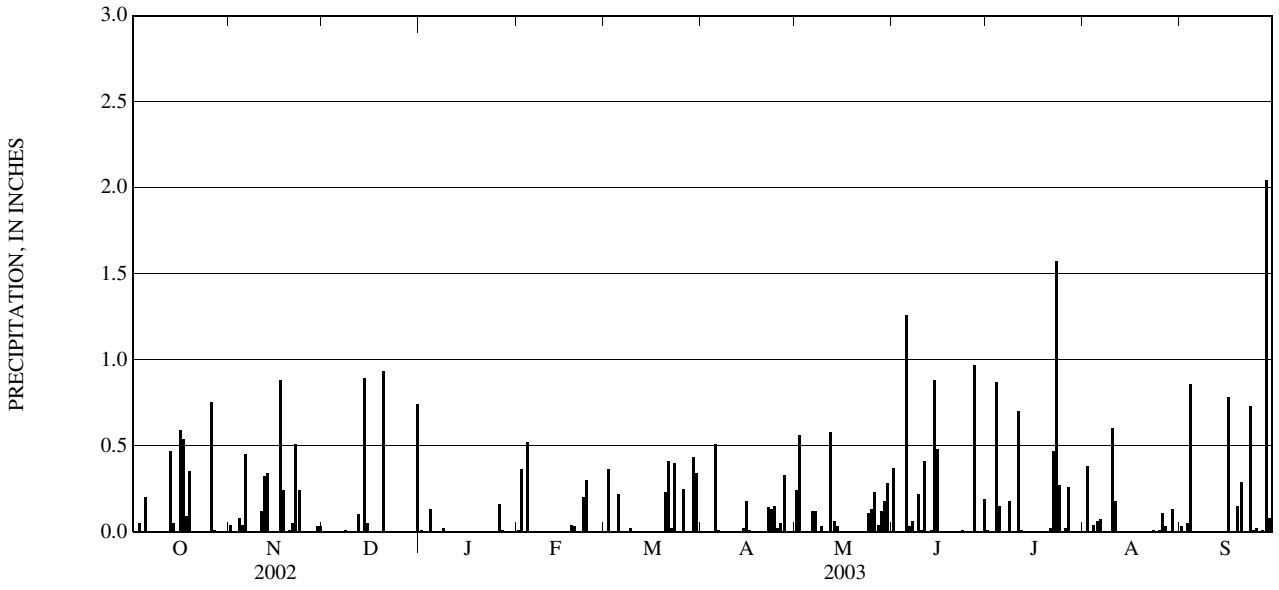
PERIOD OF RECORD.--November 2000 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of a 6 ft platform with the top of the collector 7 ft above the ground. Elevation of gage is 1030 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Gage is operated as part of the upper Piscataquis River flood warning system. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.04	0.00	0.01	0.01	0.00	0.00	0.24	0.37	0.01	0.00	0.03
2	0.00	0.00	0.00	0.00	0.36	0.36	0.00	0.56	0.00	0.00	0.38	0.00
3	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
4	0.00	0.08	0.00	0.13	0.52	0.00	0.00	0.00	0.00	0.87	0.04	0.86
5	0.20	0.04	0.00	0.00	0.00	0.22	0.51	0.00	1.26	0.15	0.06	0.00
6	0.00	0.45	0.00	0.00	0.00	0.00	0.01	0.12	0.03	0.00	0.07	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.00	0.00	0.00
8	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.22	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.60	0.00
11	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.70	0.18	0.00
12	0.00	0.32	0.10	0.00	0.00	0.00	0.00	0.58	0.00	0.01	0.00	0.00
13	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00
14	0.05	0.00	0.89	0.00	0.00	0.00	0.02	0.03	0.88	0.00	0.00	0.00
15	0.00	0.00	0.05	0.00	0.00	0.00	0.18	0.00	0.48	0.00	0.00	0.00
16	0.59	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.78
17	0.54	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.09	0.24	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.35	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.15
20	0.00	0.01	0.93	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.29
21	0.00	0.05	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.02	0.00	0.00
22	0.00	0.51	0.00	0.00	0.20	0.02	0.14	0.00	0.00	0.47	0.00	0.00
23	0.00	0.24	0.00	0.00	0.30	0.40	0.13	0.00	0.01	1.57	0.01	0.73
24	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.11	0.00	0.27	0.00	0.01
25	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.00	0.00	0.01	0.02
26	0.75	0.00	0.00	0.16	0.00	0.25	0.05	0.23	0.00	0.02	0.11	0.00
27	0.01	0.00	0.00	0.01	0.00	0.00	0.33	0.04	0.97	0.26	0.03	0.01
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	2.04
29	0.00	0.03	0.00	0.00	---	0.43	0.00	0.18	0.00	0.00	0.13	0.08
30	0.00	0.03	0.00	0.00	---	0.34	0.00	0.28	0.19	0.00	0.00	0.00
31	0.00	---	0.74	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	3.10	3.38	2.72	0.33	1.46	2.68	1.55	2.83	4.90	4.53	1.62	5.05



01031300 PISCATAQUIS RIVER AT BLANCHARD, ME

LOCATION.--Lat 45°16'02", long 69°35'03", Piscataquis County, Hydrologic Unit 01020004, on left bank at upstream side of bridge in the Town of Blanchard, and 1.0 miles downstream of the confluence of the East and West Branches of the Piscataquis River.

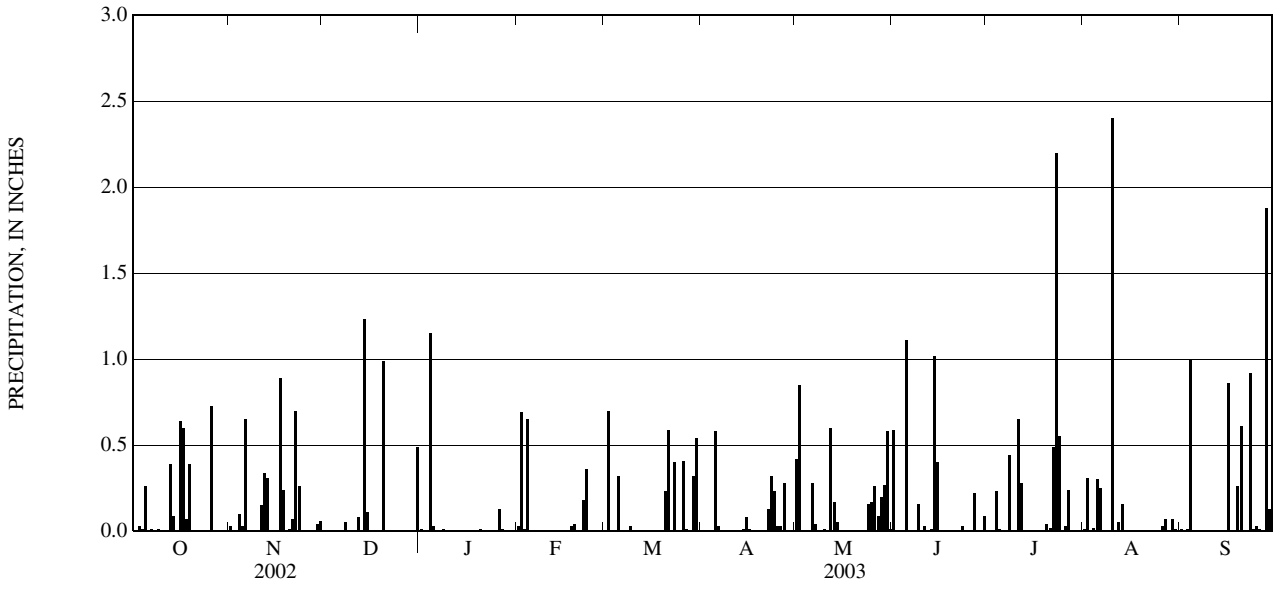
PERIOD OF RECORD.--October 1997 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of a 6 ft platform with the top of the collector 7 ft above the ground. Elevation of gage is 592 ft above National Geodetic Vertical Datum of 1929. Prior to May 15, 2000, unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, at same location.

REMARKS.--Gage is operated in conjunction with a co-located streamflow gage as part of the upper Piscataquis River flood warning system. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.03	0.00	0.01	0.03	0.00	0.00	0.42	0.59	0.00	0.01	0.01
2	0.00	0.00	0.00	0.00	0.69	0.70	0.00	0.85	0.00	0.00	0.31	0.00
3	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
4	0.01	0.10	0.00	1.15	0.65	0.00	0.00	0.00	0.00	0.23	0.02	1.00
5	0.26	0.03	0.00	0.03	0.00	0.32	0.58	0.00	1.11	0.01	0.30	0.00
6	0.00	0.65	0.00	0.00	0.00	0.00	0.03	0.28	0.00	0.00	0.25	0.00
7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
8	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.16	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	2.40	0.00
11	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.65	0.00	0.00
12	0.00	0.34	0.08	0.00	0.00	0.00	0.00	0.60	0.00	0.28	0.05	0.00
13	0.39	0.31	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.00	0.16	0.00
14	0.09	0.00	1.23	0.00	0.00	0.00	0.01	0.05	1.02	0.00	0.00	0.00
15	0.00	0.00	0.11	0.00	0.00	0.00	0.08	0.00	0.40	0.00	0.00	0.00
16	0.64	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.86
17	0.60	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.07	0.24	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.39	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.26
20	0.00	0.01	0.99	0.01	0.00	0.23	0.00	0.00	0.00	0.04	0.00	0.61
21	0.00	0.07	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.02	0.00	0.00
22	0.00	0.70	0.00	0.00	0.18	0.00	0.13	0.00	0.00	0.49	0.00	0.00
23	0.00	0.26	0.00	0.00	0.36	0.40	0.32	0.00	0.03	2.20	0.00	0.92
24	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.16	0.00	0.55	0.00	0.01
25	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.17	0.00	0.00	0.00	0.03
26	0.73	0.00	0.00	0.13	0.00	0.41	0.03	0.26	0.00	0.03	0.03	0.01
27	0.00	0.00	0.00	0.01	0.00	0.01	0.28	0.09	0.22	0.24	0.07	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	1.88
29	0.00	0.04	0.00	0.00	---	0.32	0.00	0.27	0.00	0.00	0.07	0.13
30	0.00	0.06	0.00	0.00	---	0.54	0.00	0.58	0.09	0.00	0.01	0.00
31	0.00	---	0.49	0.00	---	0.00	---	0.01	---	0.00	0.00	---
TOTAL	3.23	3.88	2.95	1.35	1.99	3.55	1.73	4.16	3.66	5.18	3.68	5.73



450705069384801 KINGSBURY PRECIPITATION AT KINGSBURY, ME

LOCATION.--Lat 45°07'05", long 69°38'48", Piscataquis County, Hydrologic Unit 01020004, on left bank of Kingsbury Stream 350 ft downstream of Kingsbury Pond dam, in clearing at private residence.

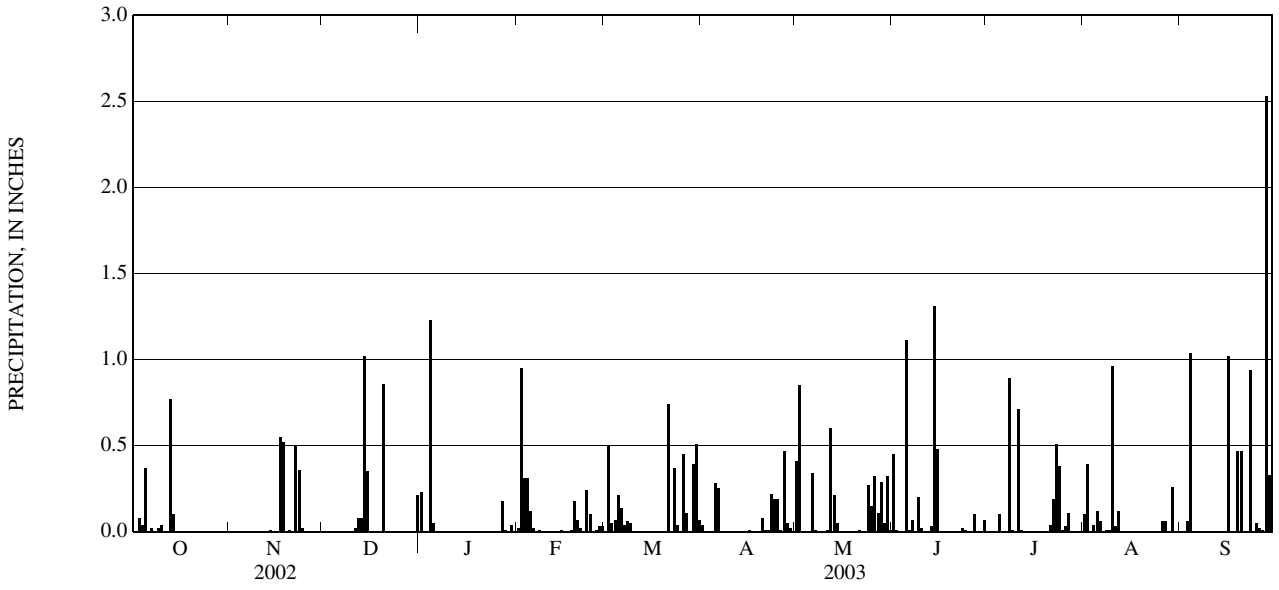
PERIOD OF RECORD.--October 1997 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage and attached snowfall adapter, with 0.01 in. tip increment, mounted on top of a 6 ft platform with the top of the collector 7 ft above the ground. Elevation of gage is 915 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to August 14, 2001, unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, at same location.

REMARKS.--No precipitation record, Oct. 16 to Nov. 13. Gage is operated as part of the upper Piscataquis River flood warning system. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	0.00	0.23	0.02	0.00	0.04	0.41	0.45	0.00	0.10	0.00
2	0.00	---	0.00	0.00	0.95	0.50	0.00	0.85	0.01	0.00	0.39	0.00
3	0.08	---	0.00	0.00	0.31	0.05	0.00	0.00	0.00	0.00	0.00	0.06
4	0.04	---	0.00	1.23	0.31	0.07	0.00	0.00	0.00	0.00	0.04	1.04
5	0.37	---	0.00	0.05	0.12	0.21	0.28	0.00	1.11	0.10	0.12	0.00
6	0.00	---	0.00	0.00	0.02	0.14	0.25	0.34	0.01	0.00	0.06	0.00
7	0.02	---	0.00	0.00	0.00	0.04	0.00	0.01	0.07	0.00	0.00	0.00
8	0.00	---	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.89	0.01	0.00
9	0.02	---	0.00	0.00	0.00	0.05	0.00	0.00	0.20	0.01	0.01	0.00
10	0.04	---	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.96	0.00
11	0.00	---	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.71	0.03	0.00
12	0.00	---	0.08	0.00	0.00	0.00	0.00	0.60	0.00	0.01	0.12	0.00
13	0.77	---	0.08	0.00	0.00	0.00	0.00	0.21	0.03	0.00	0.00	0.00
14	0.10	0.01	1.02	0.00	0.00	0.00	0.00	0.05	1.31	0.00	0.00	0.00
15	0.00	0.00	0.35	0.00	0.01	0.00	0.00	0.00	0.48	0.00	0.00	0.00
16	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	1.02
17	---	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	---	0.52	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	---	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.47
20	---	0.01	0.86	0.00	0.07	0.00	0.08	0.00	0.00	0.00	0.00	0.47
21	---	0.00	0.00	0.00	0.02	0.74	0.01	0.01	0.00	0.04	0.00	0.00
22	---	0.50	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.19	0.00	0.00
23	---	0.36	0.00	0.00	0.24	0.37	0.22	0.00	0.02	0.51	0.00	0.94
24	---	0.02	0.00	0.00	0.10	0.04	0.19	0.27	0.01	0.38	0.00	0.00
25	---	0.00	0.00	0.00	0.00	0.00	0.19	0.15	0.00	0.01	0.00	0.05
26	---	0.00	0.00	0.00	0.01	0.45	0.01	0.32	0.00	0.03	0.06	0.02
27	---	0.00	0.00	0.18	0.03	0.11	0.47	0.11	0.10	0.11	0.06	0.01
28	---	0.00	0.00	0.01	0.03	0.00	0.05	0.29	0.00	0.00	0.00	2.53
29	---	0.00	0.00	0.00	---	0.39	0.02	0.05	0.00	0.00	0.26	0.33
30	---	0.00	0.00	0.04	---	0.51	0.00	0.32	0.07	0.00	0.00	0.00
31	---	---	0.21	0.00	---	0.07	---	0.01	---	0.00	0.00	---
TOTAL	---	---	2.62	1.74	2.44	3.80	1.83	4.01	3.89	2.99	2.22	6.94



01031450 KINGSBURY STREAM AT ABBOT VILLAGE, ME

LOCATION.--Lat 45°11'05", long 69°27'10", Piscataquis County, Hydrologic Unit 01020004, on left bank 200 ft upstream from State Route 15/16 highway bridge in Abbot Village, and 0.9 mi upstream from mouth.

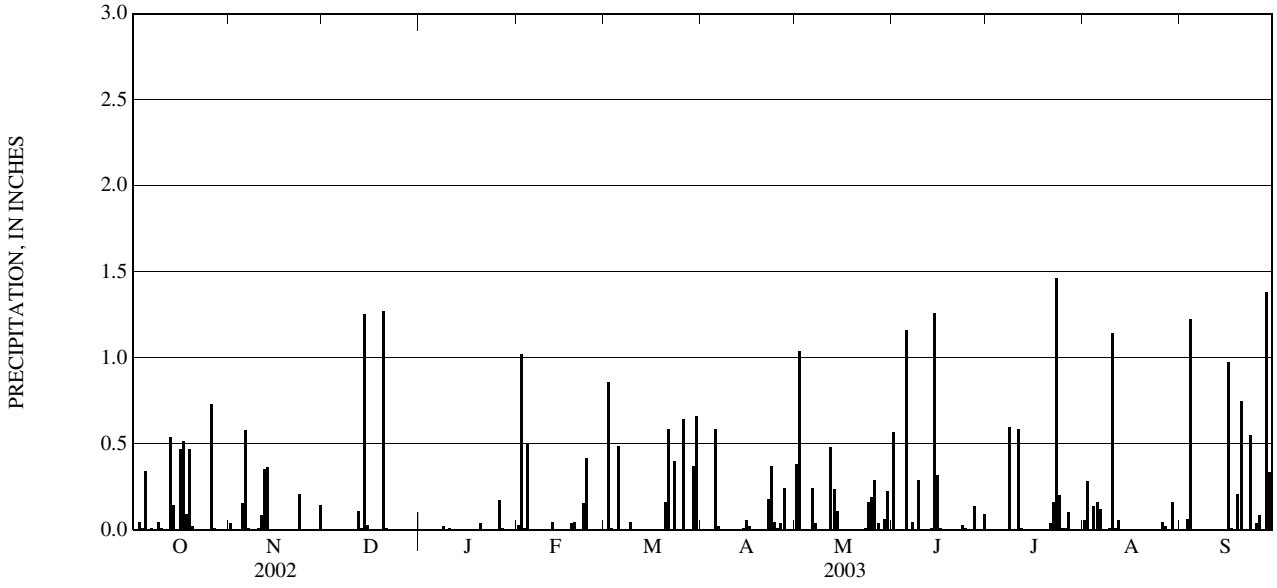
PERIOD OF RECORD.--October 1997 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of a 6 ft platform with the top of the collector 7 ft above the ground. Elevation of gage is 451 ft above National Geodetic Vertical Datum of 1929. Prior to May 15, 2000, unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, at same location.

REMARKS.--No precipitation record, Nov. 17-22 and Dec. 31 to Jan. 6. Gage is operated in conjunction with a co-located streamflow gage as part of the upper Piscataquis River flood warning system. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.04	0.00	---	0.03	0.00	0.00	0.38	0.57	0.00	0.05	0.00
2	0.00	0.00	0.00	---	1.02	0.85	0.00	1.04	0.00	0.00	0.28	0.00
3	0.04	0.00	0.00	---	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.06
4	0.01	0.00	0.00	---	0.50	0.00	0.00	0.00	0.00	0.00	0.14	1.22
5	0.34	0.15	0.00	---	0.00	0.49	0.58	0.00	1.16	0.00	0.16	0.00
6	0.00	0.58	0.00	---	0.00	0.00	0.02	0.24	0.00	0.00	0.12	0.00
7	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00
8	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00
9	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.29	0.00	0.01	0.00
10	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00
11	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.01	0.00
12	0.00	0.35	0.11	0.00	0.04	0.00	0.00	0.48	0.00	0.01	0.05	0.00
13	0.54	0.36	0.01	0.00	0.00	0.00	0.00	0.23	0.01	0.00	0.00	0.00
14	0.14	0.00	1.25	0.00	0.00	0.00	0.01	0.11	1.26	0.00	0.00	0.00
15	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.32	0.00	0.00	0.00
16	0.47	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.97
17	0.51	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
18	0.09	---	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.47	---	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.21
20	0.02	---	1.27	0.04	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.75
21	0.00	---	0.01	0.00	0.00	0.58	0.00	0.00	0.00	0.04	0.00	0.00
22	0.00	---	0.00	0.00	0.15	0.00	0.18	0.00	0.00	0.16	0.00	0.00
23	0.00	0.21	0.00	0.00	0.41	0.40	0.37	0.01	0.03	1.46	0.00	0.55
24	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.16	0.01	0.20	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.19	0.00	0.01	0.00	0.04
26	0.73	0.00	0.00	0.17	0.00	0.64	0.04	0.29	0.00	0.01	0.04	0.08
27	0.01	0.00	0.00	0.01	0.00	0.00	0.24	0.04	0.14	0.10	0.02	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38
29	0.00	0.00	0.00	0.00	---	0.37	0.00	0.06	0.00	0.00	0.16	0.33
30	0.00	0.14	0.00	0.00	---	0.66	0.00	0.23	0.09	0.00	0.00	0.00
31	0.00	---	---	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	3.43	---	---	---	2.24	4.20	1.56	3.50	3.93	3.16	2.18	5.60



01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, Hydrologic Unit 01020004, on left bank 30 ft downstream from Lows Bridge, 1.0 mi upstream from Black Stream, and 4.7 mi upstream from Dover-Foxcroft.

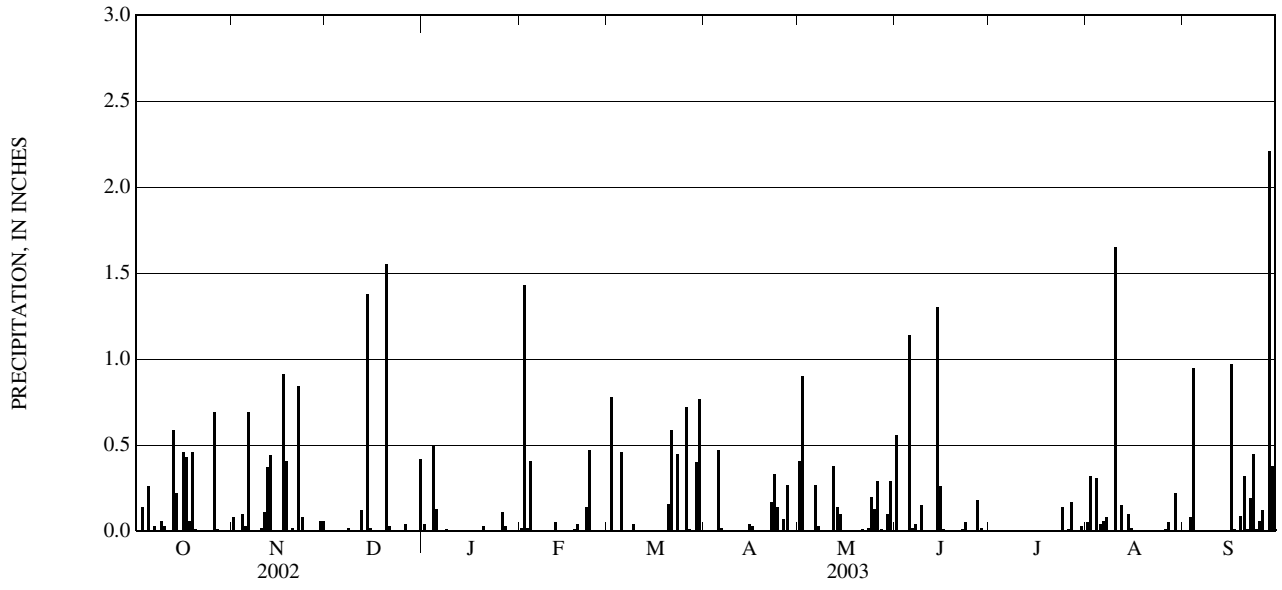
PERIOD OF RECORD.--October 1997 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of gage house with the top of the collector 14 ft above the ground. Elevation of gage is 387 ft above National Geodetic Vertical Datum of 1929. Prior to June 26, 2000, unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, at same location.

REMARKS.--No precipitation record, June 30 to July 23. Gage is operated in conjunction with a co-located streamflow gage as part of the upper Piscataquis River flood warning system. Records for streamflow are located in the Surface-Water-Discharge section in this report. Telephone and satellite telemeters at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.08	0.00	0.04	0.02	0.00	0.00	0.41	0.56	---	0.05	0.00
2	0.00	0.00	0.00	0.00	1.43	0.78	0.00	0.90	0.00	---	0.32	0.00
3	0.14	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	---	0.00	0.08
4	0.00	0.10	0.00	0.50	0.41	0.00	0.00	0.00	0.00	---	0.31	0.95
5	0.26	0.03	0.00	0.13	0.00	0.46	0.47	0.00	1.14	---	0.04	0.00
6	0.00	0.69	0.00	0.00	0.00	0.00	0.02	0.27	0.02	---	0.06	0.00
7	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	---	0.08	0.00
8	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
9	0.06	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.15	---	0.00	0.00
10	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	1.65	0.00
11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
12	0.00	0.37	0.12	0.00	0.05	0.00	0.00	0.38	0.00	---	0.15	0.00
13	0.59	0.44	0.00	0.00	0.00	0.00	0.00	0.14	0.00	---	0.00	0.00
14	0.22	0.00	1.38	0.00	0.00	0.00	0.00	0.10	1.30	---	0.10	0.00
15	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.26	---	0.02	0.00
16	0.46	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	---	0.00	0.97
17	0.43	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.01
18	0.06	0.41	0.00	0.00	0.01	0.00	0.00	0.00	0.00	---	0.00	0.00
19	0.46	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	---	0.00	0.09
20	0.01	0.02	1.55	0.03	0.00	0.16	0.00	0.00	0.00	---	0.00	0.32
21	0.00	0.00	0.03	0.00	0.00	0.59	0.00	0.01	0.00	---	0.00	0.01
22	0.00	0.84	0.00	0.00	0.14	0.00	0.17	0.00	0.01	---	0.00	0.19
23	0.00	0.08	0.00	0.00	0.47	0.45	0.33	0.02	0.05	---	0.00	0.45
24	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.20	0.00	0.14	0.00	0.01
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.06
26	0.69	0.00	0.04	0.11	0.00	0.72	0.07	0.29	0.00	0.01	0.01	0.12
27	0.01	0.00	0.00	0.03	0.00	0.01	0.27	0.01	0.18	0.17	0.05	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	2.21
29	0.00	0.06	0.00	0.00	---	0.40	0.00	0.10	0.00	0.00	0.22	0.38
30	0.00	0.06	0.00	0.00	---	0.77	0.00	0.29	---	0.03	0.00	0.01
31	0.00	---	0.42	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	3.45	4.22	3.58	0.85	2.59	4.38	1.54	3.28	---	---	3.06	5.86



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 U.S. Route 201 highway bridge, and 0.7 mi upstream from Dead River.

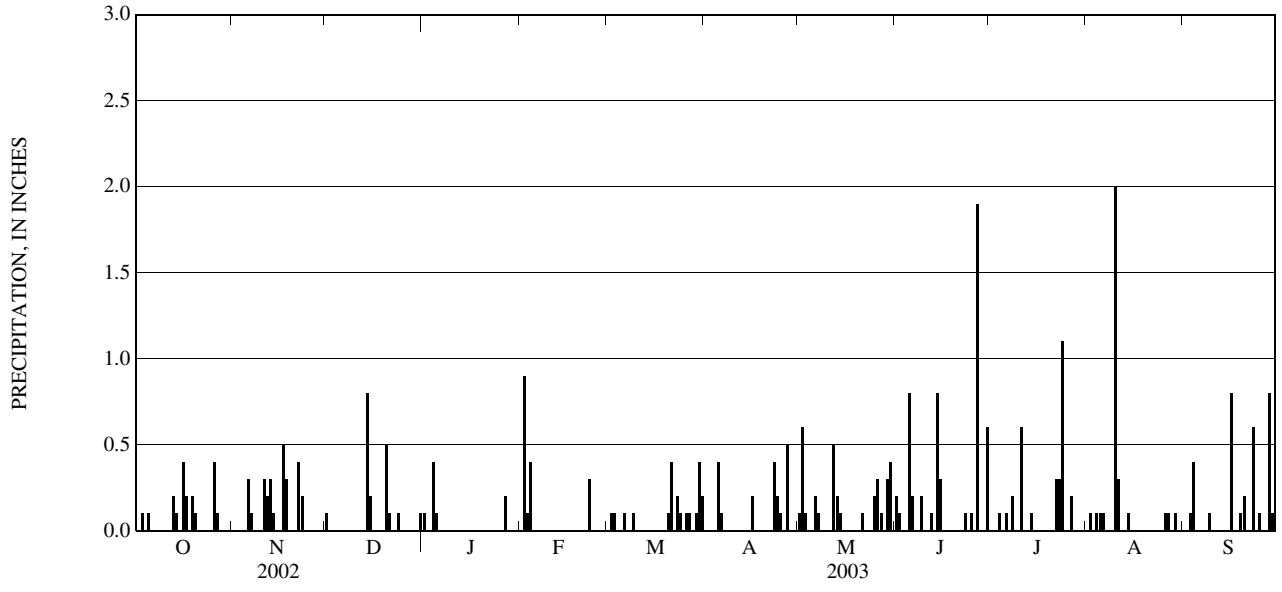
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, mounted on top of gage house with the top of the collector 11 ft above the ground. Elevation of gage is 592 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.9	0.1	0.0	0.6	0.1	0.0	0.1	0.0
3	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1
4	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.4
5	0.1	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.8	0.0	0.1	0.0
6	0.0	0.3	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.0
7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.1
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
11	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0
12	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0
13	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
14	0.1	0.1	0.8	0.0	0.0	0.0	0.0	0.1	0.8	0.1	0.1	0.0
15	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
16	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.8
17	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20	0.1	0.0	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
21	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0
22	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
23	0.0	0.2	0.0	0.0	0.3	0.2	0.4	0.0	0.1	0.3	0.0	0.6
24	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.0	0.0	1.1	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.1
26	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.1	0.0
27	0.1	0.0	0.0	0.2	0.0	0.1	0.5	0.1	1.9	0.2	0.1	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
29	0.0	0.0	0.0	0.0	---	0.1	0.0	0.3	0.0	0.0	0.1	0.1
30	0.0	0.0	0.0	0.0	---	0.4	0.0	0.4	0.6	0.0	0.0	0.0
31	0.0	---	0.1	0.0	---	0.2	---	0.0	---	0.0	0.0	---
TOTAL	1.9	2.7	1.9	0.8	1.7	2.1	1.9	3.3	5.4	3.0	3.1	3.3



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, 50 ft downstream from State Route 16 highway bridge, 0.4 mi downstream from Austin Stream, and 1.6 mi downstream from Wyman Dam.

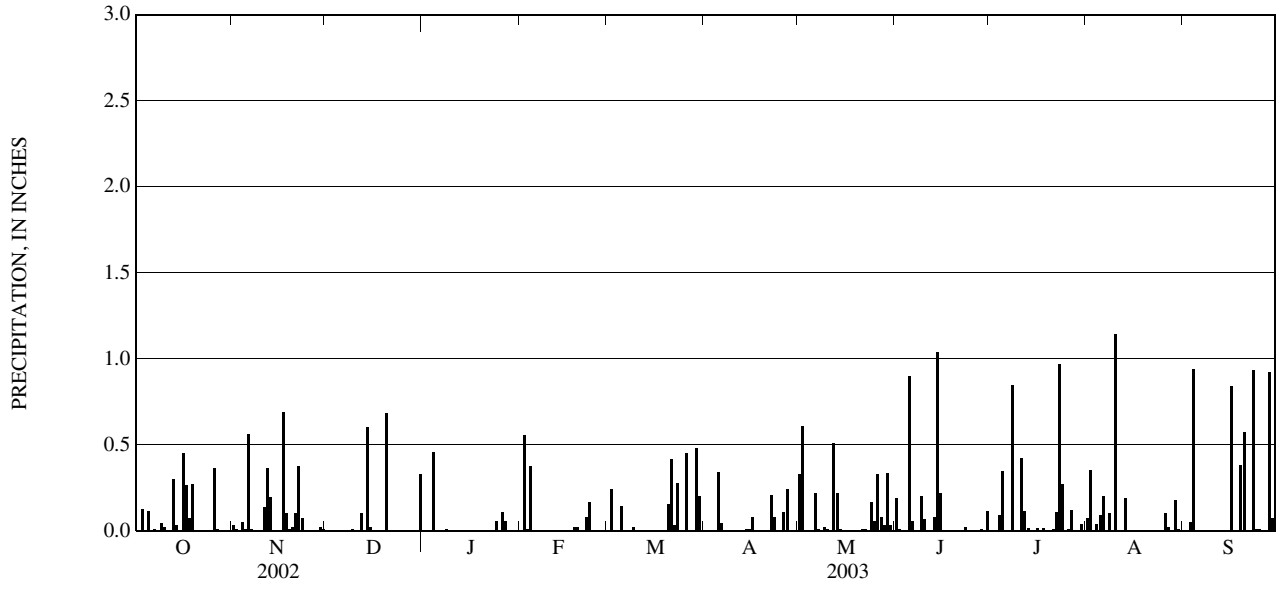
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of gage house with the top of the collector 11 ft above the ground. Elevation of gage is 366 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.33	0.19	0.00	0.07	0.00
2	0.00	0.01	0.00	0.00	0.56	0.24	0.00	0.60	0.01	0.00	0.35	0.00
3	0.12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.05
4	0.00	0.05	0.00	0.45	0.38	0.00	0.00	0.00	0.00	0.09	0.04	0.94
5	0.11	0.01	0.00	0.00	0.00	0.14	0.34	0.00	0.90	0.35	0.09	0.00
6	0.00	0.56	0.00	0.00	0.00	0.00	0.04	0.22	0.06	0.00	0.20	0.00
7	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.84	0.10	0.00
9	0.04	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.20	0.00	0.00	0.00
10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.00	1.14	0.00
11	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00
12	0.00	0.36	0.10	0.00	0.00	0.00	0.00	0.51	0.00	0.12	0.00	0.00
13	0.30	0.19	0.00	0.00	0.00	0.00	0.00	0.22	0.08	0.01	0.19	0.00
14	0.03	0.00	0.60	0.00	0.00	0.00	0.01	0.01	1.04	0.00	0.00	0.00
15	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.21	0.00	0.00	0.00
16	0.45	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.01	0.00	0.84
17	0.27	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.07	0.10	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00
19	0.27	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38
20	0.00	0.02	0.68	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.57
21	0.00	0.10	0.00	0.00	0.00	0.42	0.00	0.01	0.00	0.01	0.00	0.00
22	0.00	0.38	0.00	0.00	0.08	0.03	0.21	0.01	0.00	0.11	0.00	0.00
23	0.00	0.07	0.00	0.00	0.16	0.28	0.08	0.00	0.02	0.97	0.00	0.93
24	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.17	0.00	0.27	0.00	0.01
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.01
26	0.36	0.00	0.00	0.11	0.00	0.45	0.11	0.33	0.00	0.01	0.10	0.00
27	0.01	0.00	0.00	0.06	0.00	0.00	0.24	0.08	0.00	0.12	0.02	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.92
29	0.00	0.02	0.00	0.00	---	0.48	0.00	0.34	0.00	0.00	0.18	0.07
30	0.00	0.01	0.00	0.00	---	0.20	0.00	0.03	0.11	0.04	0.01	0.00
31	0.00	---	0.33	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	2.06	2.75	1.74	0.68	1.23	2.41	1.12	2.99	2.90	3.38	2.49	4.72



01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

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

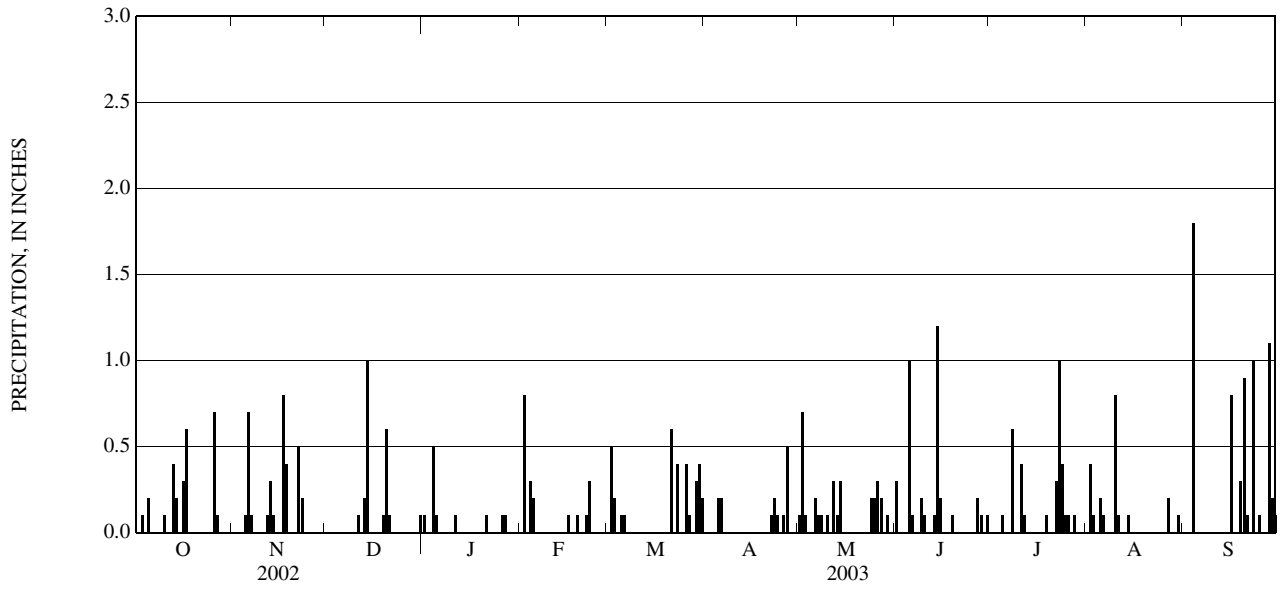
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in diameter, weighing bucket gage with 20 in. capacity, mounted on top of gage house with the top of the collector 12 ft above the ground. Elevation of gage is 333 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.8	0.5	0.0	0.7	0.0	0.0	0.4	0.0
3	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.1	0.0
4	0.0	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.8
5	0.2	0.1	0.0	0.1	0.2	0.1	0.2	0.0	1.0	0.1	0.2	0.0
6	0.0	0.7	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.0	0.1	0.0
7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
10	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.8	0.0
11	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0
12	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0
13	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
14	0.2	0.1	1.0	0.0	0.0	0.0	0.0	0.3	1.2	0.0	0.1	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
16	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8
17	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.3
20	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
21	0.0	0.0	0.1	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1
22	0.0	0.5	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.3	0.0	0.0
23	0.0	0.2	0.0	0.0	0.3	0.4	0.2	0.0	0.0	1.0	0.0	1.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.4	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.1
26	0.7	0.0	0.0	0.1	0.0	0.4	0.1	0.3	0.0	0.1	0.0	0.0
27	0.1	0.0	0.0	0.1	0.0	0.1	0.5	0.2	0.2	0.0	0.2	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	1.1
29	0.0	0.0	0.0	0.0	---	0.3	0.0	0.1	0.0	0.0	0.0	0.2
30	0.0	0.0	0.0	0.0	---	0.4	0.0	0.0	0.1	0.0	0.1	0.1
31	0.0	---	0.1	0.0	---	0.2	---	0.0	---	0.0	0.0	---
TOTAL	2.7	3.3	2.2	1.1	1.9	3.3	1.4	3.1	3.7	3.3	2.1	6.4



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.

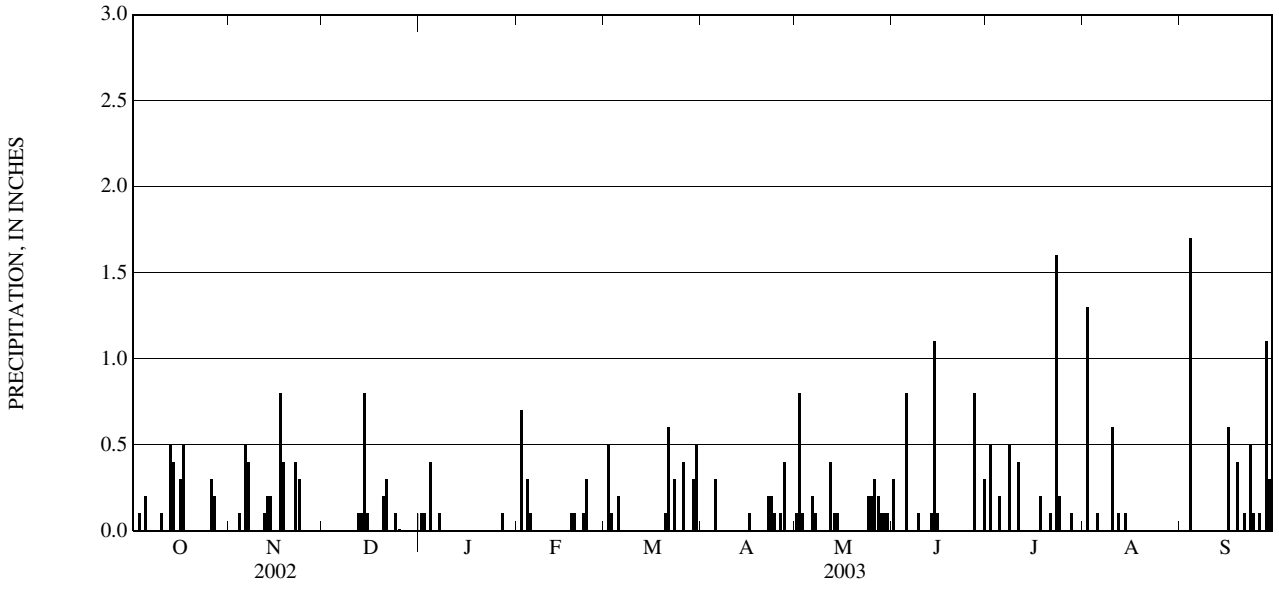
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, mounted on top of gage house with the top of the collector 12 ft above the ground. Elevation of gage is 225 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0
2	0.0	0.0	0.0	0.1	0.7	0.5	0.0	0.8	0.0	0.5	1.3	0.0
3	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
4	0.0	0.1	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7
5	0.2	0.0	0.0	0.0	0.1	0.2	0.3	0.0	0.8	0.2	0.1	0.0
6	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
7	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
10	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
12	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.0
13	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
14	0.4	0.2	0.8	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.1	0.0
15	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
16	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6
17	0.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0
19	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4
20	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.3	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0.0	0.1
22	0.0	0.4	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
23	0.0	0.3	0.0	0.0	0.3	0.3	0.2	0.0	0.0	1.6	0.0	0.5
24	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.0	0.1
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
26	0.3	0.0	0.0	0.0	0.0	0.4	0.1	0.3	0.0	0.0	0.0	0.1
27	0.2	0.0	0.0	0.1	0.0	0.0	0.4	0.2	0.8	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	1.1
29	0.0	0.0	0.0	0.0	---	0.3	0.0	0.1	0.0	0.0	0.0	0.3
30	0.0	0.0	0.0	0.0	---	0.5	0.0	0.1	0.3	0.0	0.0	0.0
31	0.0	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
TOTAL	2.6	3.4	1.7	0.8	1.7	3.0	1.4	3.1	3.6	3.8	2.2	4.9



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.

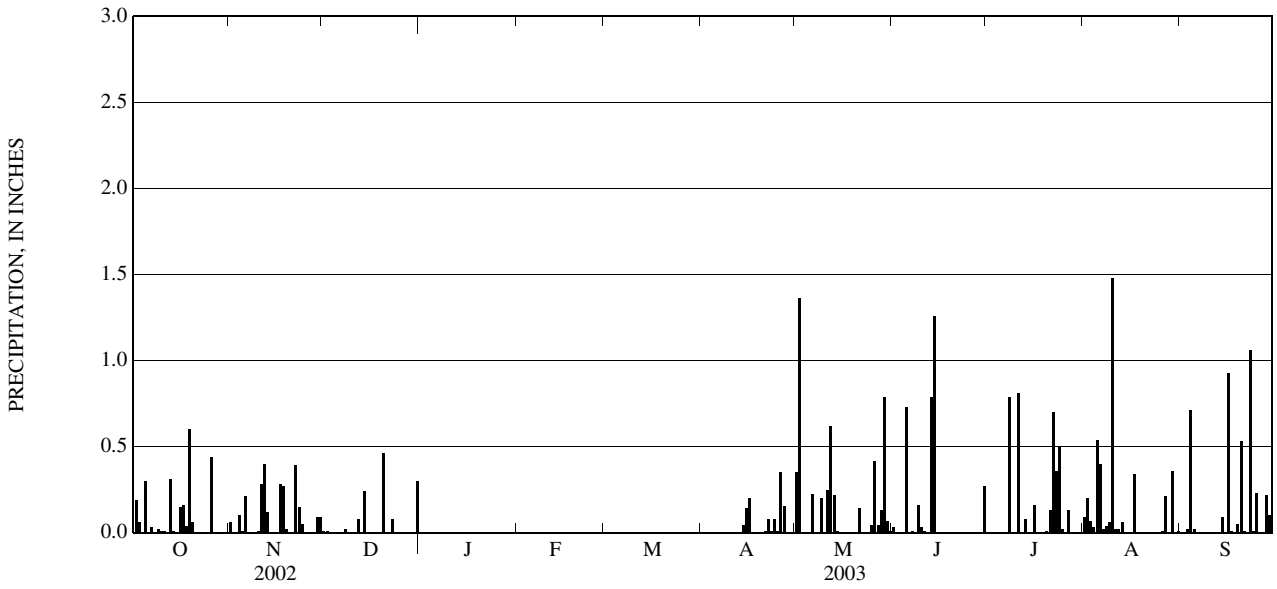
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of gage house with the top of the collector 15 ft above the ground. Elevation of gage is 1,246 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No precipitation record, Jan. 1 to Apr. 10. Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Telephone and satellite telemeters at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.06	0.01	---	---	---	---	0.35	0.03	0.00	0.09	0.00
2	0.19	0.00	0.01	---	---	---	---	1.36	0.00	0.00	0.20	0.00
3	0.06	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.07	0.02
4	0.00	0.10	0.00	---	---	---	---	0.00	0.00	0.00	0.03	0.71
5	0.30	0.01	0.00	---	---	---	---	0.00	0.73	0.00	0.54	0.02
6	0.00	0.21	0.00	---	---	---	---	0.22	0.00	0.00	0.40	0.00
7	0.03	0.00	0.00	---	---	---	---	0.00	0.01	0.00	0.02	0.00
8	0.00	0.00	0.02	---	---	---	---	0.00	0.00	0.79	0.04	0.00
9	0.02	0.00	0.00	---	---	---	---	0.20	0.16	0.00	0.06	0.00
10	0.01	0.01	0.00	---	---	---	---	0.00	0.03	0.00	1.48	0.00
11	0.01	0.28	0.00	---	---	---	0.00	0.24	0.01	0.81	0.02	0.00
12	0.00	0.40	0.08	---	---	---	0.00	0.62	0.00	0.00	0.02	0.00
13	0.31	0.12	0.00	---	---	---	0.00	0.22	0.79	0.08	0.06	0.00
14	0.01	0.00	0.24	---	---	---	0.04	0.01	1.26	0.00	0.00	0.09
15	0.00	0.00	0.00	---	---	---	0.14	0.00	0.00	0.00	0.00	0.00
16	0.15	0.00	0.00	---	---	---	0.20	0.00	0.00	0.16	0.00	0.93
17	0.16	0.28	0.00	---	---	---	0.00	0.00	0.00	0.00	0.34	0.01
18	0.04	0.27	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
19	0.60	0.02	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.05
20	0.06	0.00	0.46	---	---	---	0.00	0.00	0.00	0.01	0.00	0.53
21	0.00	0.00	0.00	---	---	---	0.01	0.14	0.00	0.13	0.00	0.01
22	0.00	0.39	0.00	---	---	---	0.08	0.00	0.00	0.70	0.00	0.00
23	0.00	0.15	0.08	---	---	---	0.01	0.00	0.00	0.36	0.00	1.06
24	0.00	0.05	0.00	---	---	---	0.08	0.00	0.00	0.50	0.00	0.01
25	0.00	0.00	0.00	---	---	---	0.01	0.04	0.00	0.02	0.00	0.23
26	0.44	0.00	0.00	---	---	---	0.35	0.42	0.00	0.00	0.01	0.00
27	0.00	0.00	0.00	---	---	---	0.15	0.04	0.00	0.13	0.21	0.00
28	0.00	0.00	0.00	---	---	---	0.00	0.13	0.00	0.00	0.00	0.22
29	0.00	0.09	0.00	---	---	---	0.00	0.79	0.00	0.00	0.36	0.10
30	0.00	0.09	0.00	---	---	---	0.00	0.07	0.27	0.00	0.00	0.00
31	0.00	---	0.30	---	---	---	---	0.01	---	0.00	0.01	---
TOTAL	2.39	2.53	1.20	---	---	---	---	4.86	3.29	3.69	3.96	3.99



01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°33'04", long 70°32'38", 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.

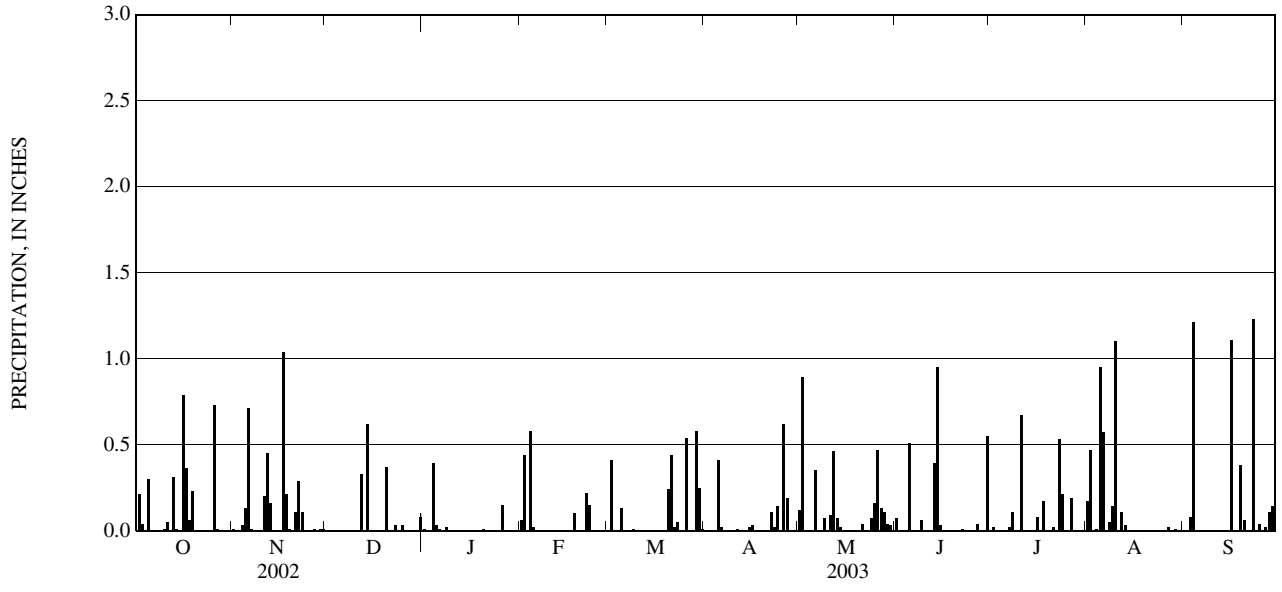
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on side of gage house with the top of the collector 6 ft above the ground. Elevation of gage is 466 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.01	0.00	0.01	0.06	0.00	0.00	0.12	0.07	0.00	0.17	0.00
2	0.21	0.00	0.00	0.00	0.44	0.41	0.00	0.89	0.00	0.02	0.47	0.00
3	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
4	0.00	0.03	0.00	0.39	0.58	0.00	0.00	0.00	0.00	0.00	0.01	1.21
5	0.30	0.13	0.00	0.03	0.02	0.13	0.41	0.00	0.51	0.00	0.95	0.00
6	0.00	0.71	0.00	0.01	0.00	0.00	0.02	0.35	0.00	0.00	0.57	0.00
7	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
8	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.11	0.05	0.00
9	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.06	0.00	0.14	0.00
10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00
11	0.05	0.20	0.00	0.00	0.00	0.00	0.01	0.09	0.00	0.67	0.00	0.00
12	0.00	0.45	0.33	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.11	0.00
13	0.31	0.16	0.00	0.00	0.00	0.00	0.00	0.07	0.39	0.00	0.03	0.00
14	0.01	0.00	0.62	0.00	0.00	0.00	0.00	0.02	0.95	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00
16	0.79	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.08	0.00	1.11
17	0.36	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.06	0.21	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.17	0.00	0.00
19	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
20	0.00	0.00	0.37	0.01	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.06
21	0.00	0.11	0.00	0.00	0.00	0.44	0.00	0.04	0.00	0.02	0.00	0.00
22	0.00	0.29	0.00	0.00	0.22	0.02	0.11	0.00	0.01	0.00	0.00	0.00
23	0.00	0.11	0.03	0.00	0.15	0.05	0.02	0.00	0.00	0.53	0.00	1.23
24	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.07	0.00	0.21	0.00	0.00
25	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.04
26	0.73	0.00	0.00	0.15	0.00	0.54	0.62	0.47	0.00	0.00	0.00	0.00
27	0.01	0.01	0.00	0.00	0.00	0.00	0.19	0.13	0.04	0.19	0.02	0.02
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.11
29	0.00	0.01	0.00	0.00	---	0.58	0.00	0.04	0.00	0.00	0.01	0.14
30	0.00	0.01	0.00	0.00	---	0.25	0.00	0.03	0.55	0.00	0.00	0.00
31	0.00	---	0.08	0.00	---	0.01	---	0.00	---	0.00	0.00	---
TOTAL	3.11	3.50	1.46	0.62	1.57	2.68	1.57	3.12	2.61	2.02	3.63	4.38



01066000 SACO RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'29", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft upstream from State Route 117 highway bridge at Cornish, and 0.4 mi downstream from Ossipee River.

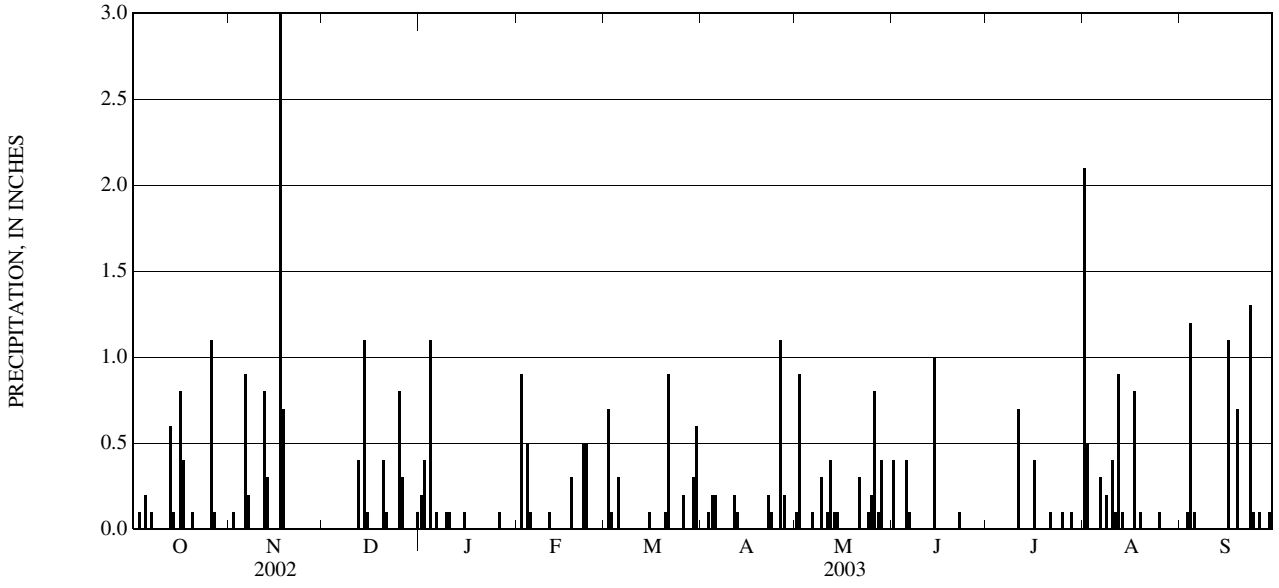
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, mounted on top of gage house with the top of the collector 15 ft above the ground. Elevation of gage is 292 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No precipitation record, Nov. 22 to Dec. 5. Gage is operated in conjunction with a co-located streamflow gage. Records for streamflow are located in the Surface-Water-Discharge section in this report. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	---	0.2	0.0	0.0	0.0	0.1	0.4	0.0	2.1	0.0
2	0.0	0.1	---	0.4	0.9	0.7	0.0	0.9	0.0	0.0	0.5	0.0
3	0.1	0.0	---	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
4	0.0	0.0	---	1.1	0.5	0.0	0.2	0.0	0.0	0.0	0.0	1.2
5	0.2	0.0	---	0.0	0.1	0.3	0.2	0.0	0.4	0.0	0.0	0.1
6	0.0	0.9	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.3	0.0
7	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
11	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.0	0.7	0.1	0.0
12	0.0	0.8	0.4	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.9	0.0
13	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
14	0.1	0.0	1.1	0.0	0.0	0.0	0.0	0.1	1.0	0.0	0.0	0.0
15	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
16	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.1
17	0.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
18	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7
20	0.1	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.1	0.0	0.0	0.9	0.0	0.3	0.0	0.1	0.0	0.0
22	0.0	---	0.0	0.0	0.5	0.0	0.2	0.0	0.1	0.0	0.0	0.0
23	0.0	---	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.0	1.3
24	0.0	---	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
25	0.0	---	0.8	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.0
26	1.1	---	0.3	0.1	0.0	0.2	1.1	0.8	0.0	0.0	0.0	0.1
27	0.1	---	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0
28	0.0	---	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0
29	0.0	---	0.0	0.0	---	0.3	0.0	0.0	0.0	0.0	0.0	0.1
30	0.0	---	0.0	0.0	---	0.6	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	---	0.1	0.0	---	0.0	---	0.0	---	0.0	0.0	---
TOTAL	3.6	---	---	2.2	2.9	3.3	2.4	4.0	2.0	1.4	5.6	4.8



DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
431232070471101 SOUTH BERWICK SNOW SITE (1324-143) (LAT 43 12 32N LONG 070 47 11W)					
JAN 2003			MAR 2003		
06...	22	3.5	04...	20	6.2
FEB			10...	20	6.4
05...	16	4.7	17...	18	7.0
			24...	11	4.2
431943070543801 SOUTH LEBANON SNOW SITE (1069-128) (LAT 43 19 43N LONG 070 54 38W)					
JAN 2003			MAR 2003		
06...	14	2.6	04...	20	5.6
FEB			10...	18	6.1
05...	13	3.5	17...	18	6.2
			24...	11	4.0
432500070394001 WEST KENNEBUNK SNOW SITE (1121-129) (LAT 43 25 00N LONG 070 39 40W)					
JAN 2003			MAR 2003		
06...	16	2.4	04...	18	5.5
FEB			10...	16	5.7
05...	14	3.7	17...	15	5.8
			24...	8.3	2.8
433147070505901 SHAPLEIGH SNOW SITE (1322-142) (LAT 43 31 47N LONG 070 50 59W)					
MAR 2003					
03...	24	5.2			
433159070290301 SACO (TANNERY SITE) SNOW SITE (1490-240) (LAT 43 31 59N LONG 070 29 03W)					
JAN 2003			MAR 2003		
06...	14	2.2	10...	15	5.0
FEB			17...	14	5.1
05...	12	3.1	24...	6.0	2.8
MAR			APR		
04...	15	4.4	01...	.0	.0
433750070535501 NEWFIELD SNOW SITE (1192-117) (LAT 43 37 50N LONG 070 53 55W)					
JAN 2003			MAR 2003		
07...	21	4.6	11...	25	7.6
FEB			17...	22	7.5
05...	19	5.3	24...	12	4.3
MAR			APR		
03...	23	4.6	01...	2.6	.8
			08...	4.7	1.1
433900070401101 HOLLIS (NWS) SNOW SITE (1510-000) (LAT 43 39 00N LONG 070 40 11W)					
JAN 2003			MAR 2003		
07...	22	4.5	11...	25	7.4
FEB			17...	22	7.3
05...	20	5.7	24...	13	4.1
MAR			APR		
04...	24	6.9	01...	3.2	1.2
			08...	4.5	1.1
434403070152601 FALMOUTH SNOW SITE (1183-112) (LAT 43 44 03N LONG 070 15 26W)					
JAN 2003			MAR 2003		
06...	15	2.5	10...	15	4.6
FEB			17...	15	4.4
05...	14	3.5	24...	6.7	2.2
MAR			APR		
04...	15	4.6	01...	.0	.0
434538070310101 SEBAGO SNOW SITE (1083-111) (LAT 43 45 38N LONG 070 31 01W)					
JAN 2003			APR 2003		
08...	16	3.2	01...	2.5	1.0
FEB			08...	3.5	.9
05...	16	3.6			
MAR					
04...	23	5.8			
11...	21	5.9			
17...	20	6.7			

434900070461401 CORNISH SNOW SITE (1056-114) (LAT 43 49 00N LONG 070 46 14W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			MAR 2003		
08...	18	4.0	11...	22	6.2
FEB			17...	20	6.4
05...	20	5.4	24...	14	4.3
MAR			APR		
03...	25	5.6	01...	4.5	1.4
			08...	6.5	2.2

435223070422501 DOUGLAS MOUNTAIN (NWS) SNOW SITE (1526-000) (LAT 43 52 23N LONG 070 42 25W)

JAN 2003			MAR 2003		
07...	29	5.0	11...	30	8.2
FEB			18...	26	8.2
05...	26	6.6	25...	17	5.8
MAR			APR		
04...	32	7.6	01...	9.0	3.3
			07...	8.0	3.4

435244070375701 NORTH SEBAGO (NWS) SNOW SITE (1527) (LAT 43 52 44N LONG 070 37 57W)

JAN 2003			MAR 2003		
07...	27	4.1	11...	21	7.4
FEB			18...	20	5.1
05...	21	4.1	25...	14	5.1
MAR			APR		
04...	24	7.5	01...	2.8	1.7

435259070150001 GRAY (NWS) SNOW SITE (1509-000) (LAT 43 52 59N LONG 070 15 00W)

JAN 2003			MAR 2003		
06...	17	2.7	11...	19	6.0
FEB			17...	18	5.3
05...	17	4.0	24...	8.3	3.1
MAR			31...	.2	.1
04...	20	5.2	APR		
			08...	1.0	.5

435743070475501 DENMARK SNOW SITE (1184-115) (LAT 43 57 43N LONG 070 47 55W)

MAR 2003		
03...	30	6.6

435900070030001 DURHAM (NWS) SNOW SITE (1494-000) (LAT 43 59 00N LONG 070 03 00W)

JAN 2003			MAR 2003		
07...	21	3.4	04...	19	6.8
FEB			18...	14	5.5
05...	16	3.5	24...	9.0	2.9

440009069565001 TOPSHAM SNOW SITE (1170-104) (LAT 44 00 09N LONG 069 56 50W)

JAN 2003			MAR 2003		
06...	16	2.3	10...	18	5.5
FEB			17...	17	5.6
05...	16	4.4	24...	7.4	2.4
MAR			APR		
04...	18	5.2	01...	.0	.0

440336070163101 AUBURN SNOW SITE (1136-095) (LAT 44 03 36N LONG 070 16 31W)

MAR 2003		
03...	21	4.9

441156069294401 JEFFERSON SNOW SITE (1318-137) (LAT 44 11 56N LONG 069 29 44W)

JAN 2003			APR 2003		
06...	16	2.5	01...	.0	.0
FEB			08...	.0	.0
05...	13	2.0	15...	.0	.0
MAR			22...	.0	.0
04...	14	4.3			
11...	15	5.1			
18...	13	4.1			
25...	4.8	1.9			

QUANTITY OF SNOW

441250069105701 SOUTH HOPE SNOW SITE (1325-127) (LAT 44 12 50N LONG 069 10 57W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
06...	20	2.5	01...	.0	.0
FEB			08...	.0	.0
05...	11	1.8	15...	.0	.0
MAR			22...	.0	.0
04...	13	4.3			
11...	15	4.8			
18...	12	3.7			
25...	.8	.3			

441723069422801 AUGUSTA SNOW SITE (1008-066) (LAT 44 17 23N LONG 069 42 28W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
06...	14	2.5	01...	.0	.0
FEB			08...	.0	.0
05...	13	1.6	15...	.0	.0
MAR			22...	.0	.0
04...	17	4.7			
11...	17	6.1			
18...	14	4.2			
25...	6.3	2.0			

442059069530301 MANCHESTER SNOW SITE (1118-084) (LAT 44 20 59N LONG 069 53 03W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	21	4.2

442227070190101 HARTFORD (NWS) SNOW SITE (1516-000) (LAT 44 22 27N LONG 070 19 01W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			MAR 2003		
06...	22	3.6	11...	26	6.1
FEB			18...	23	6.7
05...	24	4.2	24...	13	4.1
MAR			APR		
04...	31	6.5	01...	5.5	1.8
			07...	1.7	.5

442412069133801 SEARSMONT SNOW SITE (1093-126) (LAT 44 24 12N LONG 069 13 38W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
06...	15	2.8	01...	.0	.0
FEB			08...	.0	.0
05...	15	2.4	15...	.0	.0
MAR			22...	.0	.0
04...	16	4.7			
11...	16	4.1			
18...	15	4.4			
25...	5.2	2.0			

442451070501601 BETHEL SNOW SITE (1045-097) (LAT 44 24 51N LONG 070 50 16W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			MAR 2003		
06...	14	3.4	17...	21	5.7
FEB			24...	16	4.2
05...	20	4.5	31...	9.7	3.0
MAR			APR		
03...	23	5.3	07...	9.5	3.3
10...	24	4.8	14...	2.9	1.1
			21...	.0	.0

443116069525801 BELGRADE SNOW SITE (1123-067) (LAT 44 31 16N LONG 069 52 58W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
07...	13	1.9	01...	3.2	1.1
FEB			08...	2.2	.4
05...	12	1.6	14...	.0	.0
MAR			22...	.0	.0
04...	20	3.0			
11...	17	3.5			
18...	14	3.0			
25...	7.2	1.9			

QUANTITY OF SNOW

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)

443324068474901 BUCKSPORT SNOW SITE (1146-027) (LAT 44 33 24N LONG 068 47 49W)

JAN 2003			APR 2003		
07...	10	1.8	01...	.0	.0
FEB			08...	.0	.0
05...	12	1.4	15...	.0	.0
MAR			22...	.0	.0
04...	14	4.2			
11...	13	3.7			
18...	9.6	2.2			
25...	1.9	.6			

443412070542201 NEWRY (SCREW AUGER FALLS) SNOW SITE (1169-180) (LAT 44 34 12N LONG 070 54 22W)

JAN 2003			MAR 2003		
06...	17	4.0	17...	24	6.1
FEB			24...	17	4.5
05...	28	6.0	31...	14	3.6
MAR			APR		
03...	25	6.2	07...	12	4.0
10...	26	6.2	14...	5.6	1.7
			21...	.2	.1

443514070211601 DIXFIELD SNOW SITE (1151-098) (LAT 44 35 14N LONG 070 21 16W)

JAN 2003			MAR 2003		
06...	12	3.1	17...	20	4.5
FEB			24...	12	4.3
05...	19	4.5	31...	8.2	2.8
MAR			APR		
03...	24	4.5	07...	7.2	2.5
10...	22	4.8	14...	.8	.3
			21...	.0	.0

443748068072701 FRANKLIN SNOW SITE (1112-124) (LAT 44 37 48N LONG 068 07 27W)

MAR 2003		
04...	18	4.4

443759070000001 NEW SHARON (NWS) SNOW SITE (1493-000) (LAT 44 37 59N LONG 070 00 00W)

MAR 2003			MAR 2003		
04...	20	5.3	10...	22	5.8

443836070350801 ROXBURY SNOW SITE (1051-102) (LAT 44 38 36N LONG 070 35 08W)

JAN 2003			MAR 2003		
06...	10	2.1	17...	16	4.5
FEB			24...	8.7	2.9
05...	18	4.6	31...	3.6	1.0
MAR			APR		
03...	19	4.5	07...	4.1	1.3
10...	17	4.6	14...	.0	.0
			21...	.0	.0

444053069084801 DIXMONT SNOW SITE (1205-032) (LAT 44 40 53N LONG 069 08 48W)

JAN 2003			APR 2003		
07...	15	2.6	01...	3.0	1.2
FEB			08...	2.7	.8
05...	17	4.0	15...	.0	.0
MAR			22...	.0	.0
04...	23	4.0			
11...	22	3.8			
18...	19	3.6			
25...	10	2.4			

444055069535301 MERCER SNOW SITE (1015-085) (LAT 44 40 55N LONG 069 53 53W)

JAN 2003			MAR 2003		
06...	12	1.1	17...	18	3.3
FEB			25...	9.9	2.4
06...	16	2.2	31...	2.6	.7
MAR			APR		
04...	19	3.0	07...	3.5	.8
11...	21	4.2	15...	.0	.0
			21...	.0	.0

QUANTITY OF SNOW

444229067312801 WHITNEYVILLE SNOW SITE (1041-130) (LAT 44 42 29N LONG 067 31 28W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	18	4.2

444311067450801 COLUMBIA FALLS/EPPING SNOW SITE (1317-145) (LAT 44 43 11N LONG 067 45 08W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	18	4.2

444408069254501 PITTSFIELD (B) SNOW SITE (1050-091) (LAT 44 44 08N LONG 069 25 45W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
FEB 2003			APR 2003		
06...	12	2.7	15...	.0	.0
MAR			21...	.0	.0
04...	15	3.1			
11...	21	3.8			
17...	15	2.9			
25...	9.0	2.6			
31...	1.1	.4			

444551070263801 WELD-PHILLIPS SNOW SITE (1133-107) (LAT 44 45 51N LONG 070 26 38W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			MAR 2003		
06...	15	3.5	17...	24	6.2
FEB			24...	14	4.5
05...	25	6.0	31...	12	3.5
MAR			APR		
03...	27	6.5	07...	12	4.0
10...	26	6.3	14...	2.9	1.0
			21...	.0	.0

445022068043701 BEDDINGTON SNOW SITE (1117-131) (LAT 44 50 22N LONG 068 04 37W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
07...	16	3.0	01...	4.8	1.5
FEB			08...	8.8	2.7
05...	18	2.8	15...	1.2	.5
MAR			22...	.0	.0
04...	20	5.0			
11...	21	5.5			
18...	17	3.6			
25...	15	3.8			

445226069565301 NORTH ANSON SNOW SITE (1024-088) (LAT 44 52 26N LONG 069 56 53W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			MAR 2003		
06...	13	3.2	17...	17	4.4
FEB			24...	12	4.3
05...	18	3.9	31...	4.2	1.5
MAR			APR		
03...	22	4.5	07...	4.4	1.5
10...	20	4.7	14...	.0	.0
			21...	.0	.0

445346068530301 KENDUSKEAG SNOW SITE (1099-040) (LAT 44 53 46N LONG 068 53 03W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
07...	11	1.6	08...	7.0	1.8
FEB			15...	.4	.1
05...	14	2.2	22...	.0	.0
MAR					
04...	18	3.4			
11...	20	3.9			
18...	17	2.8			
25...	13	2.2			

445730069361501 HARMONY-ATHENS SNOW SITE (1159-161) (LAT 44 57 30N LONG 069 36 15W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	18	2.1

445730070070801 KINGFIELD SNOW SITE (1187-159) (LAT 44 57 30N LONG 070 07 08W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			FEB 2003		
06...	13	3.1	05...	22	4.8

QUANTITY OF SNOW

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)

445833067384301 WESLEY SNOW SITE (1327-147) (LAT 44 58 33N LONG 067 38 43W)

JAN 2003			APR 2003		
04...	14	2.4	01...	5.6	1.6
FEB			08...	6.0	1.5
05...	19	3.7	15...	.3	.1
MAR			22...	.0	.0
04...	21	4.6			
11...	23	5.1			
18...	20	4.3			
25...	13	2.9			

445847069515101 SOLON (BINGHAM) SNOW SITE (1153-069) (LAT 44 58 47N LONG 069 51 51W)

JAN 2003			MAR 2003		
06...	9.3	.9	17...	16	3.0
FEB			25...	7.5	2.2
06...	14	2.7	31...	4.7	1.1
MAR			APR		
04...	19	3.3	07...	4.8	1.0
11...	19	4.1	15...	.0	.0
			21...	.0	.0

450237069185901 DEXTER SNOW SITE (1165-077) (LAT 45 02 37N LONG 069 18 59W)

JAN 2003			MAR 2003		
06...	9.1	3.2	17...	18	3.1
FEB			25...	11	3.1
06...	14	2.6	31...	4.8	1.5
MAR			APR		
04...	19	2.5	07...	7.5	1.7
11...	21	4.0	15...	.0	.0
			21...	.0	.0

450559069464501 MAYFIELD (BINGHAM UPPER) SNOW SITE (1066-068) (LAT 45 05 59N LONG 069 46 45W)

MAR 2003		
04...	33	5.8

450634067194201 BARING SNOW SITE (1152-023) (LAT 45 06 34N LONG 067 19 42W)

JAN 2003			APR 2003		
07...	18	3.0	01...	15	4.3
FEB			08...	16	5.3
05...	24	3.8	15...	8.4	3.1
MAR			22...	.2	.1
04...	23	7.2			
11...	25	8.4			
18...	23	6.3			
25...	20	4.7			

450826069204101 DOVER-FOXCROFT (B) SNOW SITE (1020-034) (LAT 45 08 26N LONG 069 20 41W)

MAR 2003		
04...	19	2.9

451015069351701 KINGSBURY SNOW SITE (1195-041) (LAT 45 10 15N LONG 069 35 17W)

JAN 2003			MAR 2003		
06...	15	3.6	17...	21	5.1
FEB			25...	16	5.4
06...	20	4.1	31...	11	3.2
MAR			APR		
04...	22	5.1	07...	12	3.7
11...	24	6.0	15...	4.6	1.7
			21...	.0	.0

451138068281601 LOWELL SNOW SITE (1005-046) (LAT 45 11 38N LONG 068 28 16W)

MAR 2003		
04...	18	4.2

QUANTITY OF SNOW

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)

451500069135901 GREELEY'S LANDING (NWS) SNOW SITE (1492-000) (LAT 45 15 00N LONG 069 13 59W)

FEB 2003			APR 2003		
03...	13	2.1	01...	10	2.9
MAR			07...	14	2.9
04...	17	3.3	14...	9.0	3.0
11...	21	4.2			
18...	23	4.4			
24...	13	3.7			

451700069005501 MILO SNOW SITE (1006-052) (LAT 45 17 00N LONG 069 00 55W)

JAN 2003			MAR 2003		
06...	7.1	2.3	17...	19	4.0
FEB			25...	12	3.6
06...	14	2.5	31...	9.5	2.3
MAR			APR		
04...	22	4.3	07...	11	3.0
11...	22	4.5	15...	2.2	.8
			21...	.0	.0

451829069073001 BARNARD PLT. (NWS) SNOW SITE (1384-061) (LAT 45 18 29N LONG 069 07 30W)

FEB 2003			APR 2003		
05...	14	3.5	01...	8.8	2.9
MAR			07...	7.4	2.3
04...	22	5.3			
11...	21	5.4			
18...	20	5.4			
25...	11	4.1			

451955069324701 MONSON SNOW SITE (1190-053) (LAT 45 19 55N LONG 069 32 47W)

MAR 2003		
04...	30	5.2

452038069565501 THE FORKS SNOW SITE (1002-094) (LAT 45 20 38N LONG 069 56 55W)

JAN 2003			MAR 2003		
06...	13	3.8	17...	20	5.1
FEB			25...	13	4.8
06...	23	4.3	31...	10	3.0
MAR			APR		
04...	21	5.2	07...	12	2.9
11...	22	4.6	15...	2.3	.8
			21...	.2	.1

452249068265801 LINCOLN SNOW SITE (1132-045) (LAT 45 22 49N LONG 068 26 58W)

JAN 2003			APR 2003		
07...	10	1.9	01...	11	2.3
FEB			08...	8.0	2.2
05...	20	3.1	15...	3.6	1.7
MAR			22...	.2	.1
04...	20	4.3			
11...	25	3.8			
18...	22	3.8			
25...	16	3.6			

452435067581401 CARROL-KOSSUTH SNOW SITE (1075-028) (LAT 45 24 35N LONG 067 58 14W)

MAR 2003		
04...	22	5.4

452623067442901 TOPSFIELD SNOW SITE (1154-025) (LAT 45 26 23N LONG 067 44 29W)

JAN 2003			APR 2003		
07...	16	2.4	01...	17	3.2
FEB			08...	18	6.5
05...	24	3.6	15...	8.4	3.0
MAR			22...	.2	.1
04...	17	4.3			
11...	32	5.5			
18...	30	7.2			
25...	21	3.3			

453559068265901 MATTACEUNK SNOW SITE (1201-047) (LAT 45 35 59N LONG 068 26 59W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	25	5.6

453900067491001 DANFORTH SNOW SITE (1331-036) (LAT 45 39 00N LONG 067 49 10W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	25	5.6

454346068351301 GRINDSTONE SNOW SITE (1004-038) (LAT 45 43 46N LONG 068 35 13W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	30	6.9

455656067593201 HOULTON (B) SNOW SITE (1208-011) (LAT 45 56 56N LONG 067 59 32W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
MAR 2003		
04...	33	7.6

460259068133001 DYER BROOK SNOW SITE (1110-035) (LAT 46 02 59N LONG 068 13 30W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
07...	12	2.9	01...	22	7.5
FEB			08...	22	7.3
06...	26	6.4	15...	17	6.3
MAR			22...	6.6	2.9
04...	33	7.7			
09...	35	9.0			
18...	30	7.9			
24...	25	7.6			

461013069122901 CHAMBERLAIN BRIDGE (NWS) SNOW SITE (1522-000) (LAT 46 10 13N LONG 069 12 29W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
07...	18	3.1	01...	20	3.6
FEB			07...	17	4.9
03...	28	5.3	14...	7.8	2.6
MAR					
04...	33	6.8			
11...	34	7.1			
18...	29	6.9			
25...	23	6.6			

461948067502301 MONTICELLO SNOW SITE (1500-000) (LAT 46 19 48N LONG 067 50 23W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
07...	14	3.6	01...	28	8.0
FEB			08...	26	8.1
06...	32	7.2	15...	16	5.3
MAR			22...	.2	.1
04...	39	9.6			
09...	40	10.0			
18...	37	9.7			
24...	30	9.4			

462153068205801 KNOWLES CORNER SNOW SITE (1080-012) (LAT 46 21 53N LONG 068 20 58W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			APR 2003		
07...	19	4.0	01...	30	8.7
FEB			08...	26	8.8
06...	39	8.4	15...	17	6.1
MAR			22...	11	3.9
04...	42	9.6			
09...	45	10.4			
18...	37	10.4			
24...	33	9.0			

462933069171101 CHURCHILL DAM (NWS) SNOW SITE (1521-000) (LAT 46 29 33N LONG 069 17 11W)

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)
JAN 2003			MAR 2003		
07...	14	2.0	18...	33	5.5
FEB			25...	25	5.3
03...	26	4.3	31...	20	3.1
MAR			APR		
04...	31	5.0	07...	18	5.5
11...	36	6.3	14...	12	3.8

QUANTITY OF SNOW

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)

463300068191201 SQUA PAN (E) SNOW SITE (1544) (LAT 46 33 00N LONG 068 19 12W)

MAR 2003			APR 2003		
04...	33	6.4	01...	25	4.7
11...	38	6.4	08...	21	7.1
18...	36	8.1	15...	13	5.1
24...	28	8.2			

463600070000001 DAAQUAM (B) (US) SNOW SITE (1426-134) (LAT 46 36 00N LONG 070 00 00W)

JAN 2003			MAR 2003		
07...	13	3.1	11...	35	7.8
FEB			18...	32	8.4
06...	28	5.6	25...	33	8.4
MAR			APR		
04...	29	7.4	01...	18	4.0
			08...	20	7.2

463613069310901 CLAYTON LAKE SNOW SITE (1206-003) (LAT 46 36 13N LONG 069 31 09W)

JAN 2003			MAR 2003		
07...	13	3.4	11...	35	9.4
FEB			18...	32	8.9
06...	29	5.8	25...	32	8.9
MAR			APR		
04...	30	7.7	01...	19	3.7
			08...	20	7.3

463619069081201 MUSQUACOOK SNOW SITE (1297-133) (LAT 46 36 19N LONG 069 08 12W)

JAN 2003			MAR 2003		
07...	15	3.3	11...	36	8.7
FEB			18...	33	8.8
06...	32	6.0	25...	33	8.8
MAR			APR		
04...	32	7.8	01...	23	4.8
			08...	23	7.2

463625068134703 SQUA PAN (MPSC) (AVERAGE) SNOW SITE (1487-000) (LAT 46 36 25N LONG 068 13 47W)

FEB 2003		
03...	37	6.6

464051068450201 MACHIAS LAKE SNOW SITE (1064-132) (LAT 46 40 51N LONG 068 45 02W)

JAN 2003			MAR 2003		
07...	16	3.6	11...	36	8.9
FEB			18...	34	8.7
06...	33	6.5	25...	34	8.7
MAR			APR		
04...	32	8.9	01...	23	5.1
			08...	21	7.5

465232068000601 CARIBOU (B) (MEDICAL CENTER) SNOW SITE (1520-000) (LAT 46 52 32N LONG 068 00 06W)

JAN 2003			APR 2003		
07...	13	2.8	01...	22	6.7
FEB			08...	24	8.0
06...	34	7.8	15...	16	5.4
MAR			22...	5.3	1.9
04...	34	8.8			
10...	40	10.4			
18...	38	9.9			
24...	31	9.9			

465350068305901 WINTERVILLE SNOW SITE (1090-021) (LAT 46 53 50N LONG 068 30 59W)

JAN 2003			APR 2003		
07...	15	3.1	01...	34	10.0
FEB			08...	32	9.8
05...	37	8.1	15...	25	9.1
MAR			22...	18	6.7
04...	40	8.2			
09...	47	11.3			
18...	46	11.8			
24...	38	10.7			

QUANTITY OF SNOW

DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)	DATE	SNOW DEPTH INCHES	WATER CONTENT (IN)

465451069423401 SEVEN ISLANDS (CHARLIE POND) SNOW SITE (1266-136) (LAT 46 54 51N LONG 069 42 34W)

JAN 2003			APR 2003		
08...	13	2.2	01...	18	3.6
FEB			08...	16	4.4
05...	25	4.6	15...	11	4.4
MAR					
04...	27	5.0			
11...	31	5.6			
18...	29	5.6			

470432069041501 ALLAGASH SNOW SITE (1038-001) (LAT 47 04 32N LONG 069 04 15W)

JAN 2003			APR 2003		
07...	8.8	2.2	01...	18	5.1
FEB			08...	17	5.8
05...	28	4.8	15...	9.9	3.3
MAR			22...	.0	.0
04...	28	6.9			
11...	33	7.6			
18...	32	8.4			
25...	22	6.7			

470501068135301 GUERETTE SNOW SITE (1061-135) (LAT 47 05 01N LONG 068 13 53W)

JAN 2003			APR 2003		
07...	17	3.2	01...	34	10.4
FEB			08...	32	9.7
05...	45	8.7	15...	21	9.4
MAR			22...	12	4.4
04...	43	10.6			
09...	46	11.4			
18...	42	10.8			
24...	37	11.0			

471412068345201 FORT KENT SNOW SITE (1022-008) (LAT 47 14 12N LONG 068 34 52W)

JAN 2003			APR 2003		
07...	14	2.7	01...	22	6.1
FEB			08...	24	7.0
05...	31	6.2	15...	16	5.3
MAR			22...	.2	.1
04...	33	7.4			
09...	38	8.5			
18...	31	9.0			
24...	28	7.6			

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