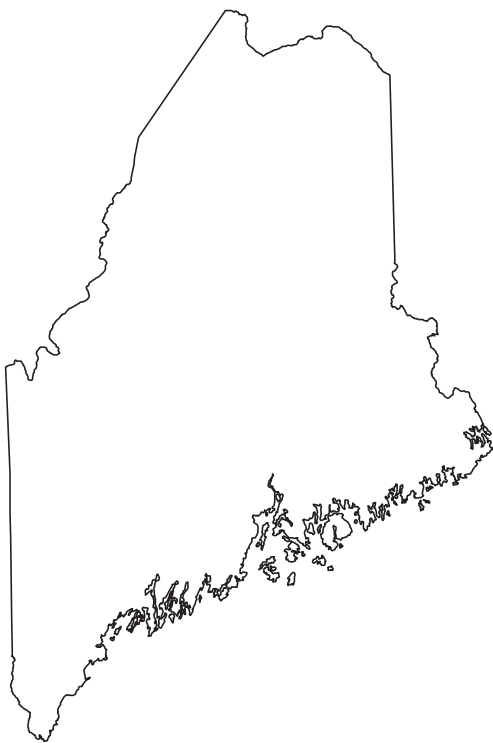


Water Resources Data Maine Water Year 2002

Water-Data Report ME-02-1



U.S. Department of the Interior
U.S. Geological Survey



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

CALENDAR FOR WATER YEAR 2002

2001

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

2002

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

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

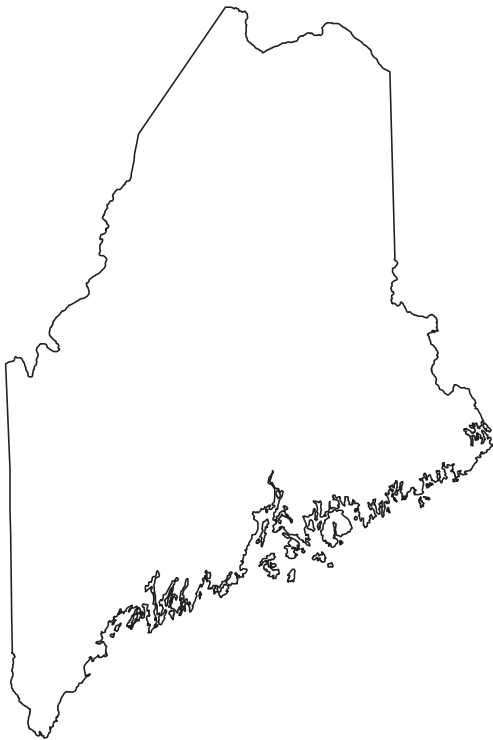
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29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

U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Maine Water Year 2002

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

Water-Data Report ME-02-1



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

U.S. DEPARTMENT OF THE INTERIOR

Gale Norton, Secretary

U.S. GEOLOGICAL SURVEY

Charles G. Groat, Director

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196 Whitten Road
Augusta, ME 04330

PREFACE

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

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

Jason R. Cyr	Josh P. Kempf
Laura E. Flight	Timothy C. Sargent
Sarah E. Giffen	

Gloria L. Morrill prepared the illustrations for the report.

This report was prepared in cooperation with the State of Maine and with other agencies under the general supervision of Robert M. Lent, Maine District Chief.

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12a. DISTRIBUTION / AVAILABILITY STATEMENT No restriction on distribution. This report may be purchased from: National Technical Information Service Springfield VA 22161			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) The Water Resources Division of the U.S. Geological Survey, in cooperation with State, Federal, and other local governmental agencies, obtains a large amount of data pertaining to the water resources of Maine each 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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CONTENTS

	Page
Preface	iii
List of surface-water stations, in downstream order, for which records are published in this volume	vi
List of ground-water wells, by county, for which records are published in this volume	viii
List of precipitation stations for which records are published in this volume	ix
List of discontinued surface-water discharge or gage-height stations	x
List of discontinued surface-water quality stations	xiii
List of discontinued ground-water observation wells	xvii
List of discontinued precipitation quantity stations	xviii
Introduction	1
Cooperation	1
Summary of hydrologic conditions	6
Streamflow	6
Floods and droughts	6
Reservoir storage	6
Water quality	9
Ground-water levels	9
Special networks and programs	9
Explanation of the records	9
Station identification numbers	9
Downstream order system	9
Latitude-longitude system	11
Records of stage and water discharge	11
Data collection and computation	11
Data presentation	12
Station manuscript	12
Data table of daily mean values	13
Statistics of monthly mean data	13
Summary statistics	14
Hydrograph	14
Identifying estimated daily discharge	15
Accuracy of the records	15
Special Study records	15
Other records available	15
Records of surface-water quality	15
Classification of records	15
Data presentation	15
Accuracy of the records	16
Remark codes	16
Records of ground-water levels	17
Data collection and computation	17
Data presentation	17
Records of ground-water quality	18
Classification of records	18
Arrangement of records	18
Laboratory measurements	18
Data presentation	18
Remark codes	18
Records of precipitation quantity	18
Data collection and computation	18
Data presentation	18
Records of snow quantity	19
Data collection and computation	19
Data presentation	19
Access to USGS water data	19
Definition of terms	19
Publications on Techniques of Water-Resources Investigations	34
Station records, surface water	40
Discharge at partial-record and special study stations	180
Station records, ground water	185
Ground-water quality analyses at special study stations	200
Station records, precipitation quantity	206
Station records, snow quantity	218
Index	228

ILLUSTRATIONS

Figure 1. Map showing location of active surface-water and water-quality gaging stations	2
2. Map showing location of active ground-water data-collection stations	3
3. Map showing location of active precipitation quantity stations	4
4. Map showing location of active snow quantity stations	5
5. Comparison of mean discharge at three long-term index gaging stations during 2001 water year with median discharge for period 1961-90	7
6. Maps showing monthly surface-water conditions during the 2001 water year in Maine	8
7. Maps showing monthly ground-water conditions during the 2001 water year in Maine	10
8. System for numbering wells and special study sites	11

TABLES

Table 1. Total usable storage in five Maine reservoir systems for the 2001 water year	6
2. Rating continuous water-quality records	16
3. Factors for converting inch-pound units to International System units (SI)	inside back cover

vi SURFACE-WATER AND WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS
ARE PUBLISHED IN THIS VOLUME

NOTE: Data for miscellaneous sites 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.]

NORTH ATLANTIC SLOPE BASINS	Station number	Page
<u>ST. JOHN RIVER BASIN</u>		
St. John River at Ninemile Bridge (d)	01010000	40
Big Black River near Depot Mountain (d)	01010070	42
St. John River at Dickey (d)	01010500	44
Allagash River near Allagash (d)	01011000	46
St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick (d)	01011500	48
Fish River near Fort Kent (d)	01013500	50
St. John River below Fish River, at Fort Kent (d)	01014000	52
Aroostook River near Masardis (d)	01015800	54
Aroostook River at Washburn (d)	01017000	56
Prestile Stream:		
Williams Brook at Phair (d)	01017550	58
<u>ST. CROIX RIVER BASIN</u>		
St. Croix River at Vanceboro (d)	01018500	60
Grand Lake Stream at Grand Lake Stream (d)	01019000	62
St. Croix River at Baring (d)	01021000	64
St. Croix River at Milltown (m)	01021050	66
<u>DENNYS RIVER BASIN</u>		
Dennys River at Dennysville (d)	01021200	70
<u>MACHIAS RIVER BASIN</u>		
Machias River:		
Mopang Stream near Beddington (d)	01021452	72
Black Brook near Northfield (d)	01021466	74
Libby Brook near Northfield (d)	01021470	76
Old Stream near Wesley (d)	01021480	80
Machias River at Whitneyville (d)	01021500	82
<u>PLEASANT RIVER BASIN</u>		
Pleasant River near Epping (d)	01022260	84
<u>NARRAGUAGUS RIVER BASIN</u>		
Narraguagus River:		
East Branch Bear Brook near Beddington (d)	01022294	86
West Branch Bear Brook near Beddington (d)	01022295	88
Narraguagus River at Cherryfield (d)	01022500	90
<u>OTTER CREEK BASIN</u>		
Otter Creek:		
Cadillac Brook near Bar Harbor (d)	01022835	92
<u>HADLOCK BROOK BASIN</u>		
Hadlock Brook near Cedar Swamp Mountain near Northeast Harbor (d)	01022860	94
<u>PENOBSCOT RIVER BASIN</u>		
Penobscot River:		
Seboeis River near Shin Pond (d)	01029200	96
East Branch Penobscot River at Grindstone (d)	01029500	98
Mattawamkeag River near Mattawamkeag (d)	01030500	100
Piscataquis River at Blanchard (d)	01031300	102
Kingsbury Stream at Abbot Village (d)	01031450	104
Piscataquis River near Dover-Foxcroft (d)	01031500	106
Piscataquis River at Medford (d)	01034000	108
Penobscot River at West Enfield (d)	01034500	110
Penobscot River at Eddington (g)	01036390	112
<u>DUCKTRAP RIVER BASIN</u>		
Ducktrap River near Lincolnville (d)	01037380	114

**SURFACE-WATER AND WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH
RECORDS ARE PUBLISHED IN THIS VOLUME**

NORTH ATLANTIC SLOPE BASINS--Continued	Station number	Page
<u>SHEEPSCOT RIVER BASIN</u>		
Sheepscot River at North Whitefield (d)	01038000	116
<u>KENNEBEC RIVER BASIN</u>		
Kennebec River at The Forks (d)	01042500	118
Spencer Stream near Grand Falls (d)	01044550	120
Kennebec River at Bingham (d)	01046500	122
Carrabassett River near North Anson (d)	01047000	124
Sandy River near Mercer (d)	01048000	126
Sebasticook River near Pittsfield (d)	01049000	128
Kennebec River at North Sidney (d)	01049265	130
Kennebec River at Father Curran Bridge at Augusta (g)	01049320	132
Cobbosseecontee Stream at Gardiner (d)	01049500	134
Kennebec River at Gardiner (g)	01049505	136
<u>ANDROSCOGGIN RIVER BASIN</u>		
Androscoggin River:		
Umbagog Lake:		
Magalloway River:		
Diamond River near Wentworth Location, NH (d)	01052500	138
Androscoggin River at Errol, NH (d)	01053500	140
Androscoggin River near Gorham, NH (d)	01054000	142
Wild River at Gilead (d,c,e,n)	01054200	144
Ellis River near South Andover (d)	01054300	146
Androscoggin River at Rumford (d)	01054500	148
Swift River near Roxbury (d)	01055000	150
Androscoggin River at Jay (m)	01055100	152
Nezinscot River at Turner Center (d)	01055500	154
The Basin outlet at North Auburn (d)	01056400	156
Townsend Brook near Auburn (d)	01056480	158
Bobbin Mill Brook near Auburn (d)	01056505	160
Little Androscoggin River near South Paris (d)	01057000	162
Androscoggin River near Auburn (d)	01059000	164
<u>ROYAL RIVER BASIN</u>		
Royal River:		
Royal River at Yarmouth (d)	01060000	166
<u>PRESUMPCOT RIVER BASIN</u>		
Sebago Lake:		
Stony Brook at East Sebago (d)	01063310	168
Sebago Lake near North Windham (g)	01063995	170
Presumpscot River at Westbrook (g)	01064118	172
<u>SACO RIVER BASIN</u>		
Saco River near Conway, NH (d)	01064500	174
Saco River at Cornish (d)	01066000	176
<u>PISCATAQUA RIVER BASIN</u>		
Salmon Falls River (head of Piscataqua River) at Milton, NH (d)	01072100	178
Discharge at partial-record and special study stations		180

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

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:(l) water level, (c) chemical,
(e) minor element, (n) nutrient, (m) continuous water-quality monitor]

	Page
<u>ANDROSCOGGIN COUNTY</u>	
Well 440213070203201 Local numbr ANW 1135 (l,c)	185
<u>AROOSTOOK COUNTY</u>	
Well 471457068353001 Local number ARW 890 (l)	187
Well 464259067572901 Local number ARW 906 (l)	188
<u>CUMBERLAND COUNTY</u>	
Well 435453070013601 Local number CW 26 (l)	189
Well 435039070261101 Local number CW 1983 (l)	190
<u>FRANKLIN COUNTY</u>	
Well 444302070252401 Local numbr FW 916 (l,c).....	191
<u>HANCOCK COUNTY</u>	
Well 444950068220602 Local numbr HW 1A (l)	193
<u>KENNEBEC COUNTY</u>	
Well 441849069442001 Local number KW 52 (l)	194
Well 440918069564001 Local number KW 766 (l)	195
Well 440810069553601 Local number KW 872A (l)	196
<u>OXFORD COUNTY</u>	
Well 443647070552302 Local number OW 400A (l)	197
Well 440823070291501 Local number OW 1214 (l)	198
<u>PENOBSCOT COUNTY</u>	
Well 445319068560101 Local number PEW 456 (l)	199
Well 453629068531801 Local number PEW 594 (l)	200
<u>SOMERSET COUNTY</u>	
Well 445148069513301 Local number SMW 61 (l)	201
<u>WALDO COUNTY</u>	
Well 442822069081301 Local number WOW 85 (l)	202
<u>WASHINGTON COUNTY</u>	
Well 450713067162801 Local number WW 796 (l)	203
Well 445227067520101 Local number WW 797 (l)	204
<u>YORK COUNTY</u>	
Well 432310070393301 Local number YW 807 (l)	205

	Station number	Page
<u>PENOBSCOT RIVER BASIN</u>		
Shirley Precipitation at Shirley Mills.....	452156069371801	206
Piscataquis River at Blanchard	01031300	207
Kingsbury Precipitation at Kingsbury	450705069384801	208
Kingsbury Stream at Abbot Village.....	01031450	209
Piscataquis River near Dover-Foxcroft.....	01031500	210
 <u>KENNEBEC RIVER BASIN</u>		
Kennebec River at The Forks	01042500	211
Kennebec River at Bingham	01046500	212
Carrabassett River near North Anson	01047000	213
Sandy River near Mercer	01048000	214
 <u>ANDROSCOGGIN RIVER BASIN</u>		
Androscoggin River at Errol, NH	01053500	215
Androscoggin River at Rumford.....	01054500	216
 <u>SACO RIVER BASIN</u>		
Saco River at Cornish	01066000	217
Snow quantity data.....		218

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			
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
Nezinscot River at Turner Center, ME (d)	01055500	169	1941-1996

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 sd	1975-80 1976
Allagash River near Allagash, ME	01011000	1,229	sc,wt sd	1975-80 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 pH	1989-95 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 sc	1966-78 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 sc	1958-71 1974-76 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 sc,do	1981, 1995 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 station-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)
Sheepscoot River basin				
Sheepscoot 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 station-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
444950068220602	HW 1A	"	Amherst	Glacial Till	1989-2000
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 61 gaging stations, gage-height at 5 gaging stations, water quality data at 2 gaging stations, water levels at 19 observation wells, precipitation totals for 12 sites, and snow quantity for 82 sites. Locations of these sites are shown on figures 1, 2, 3, and 4. Also included are data from 60 low-flow partial-record stations. 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 1968 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Maine were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface Water Supply of the United States, Part 1A." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States." Records of ground water levels for the 1935 through 1955 water years were published under the title "Water Levels and Artesian Pressures in Observation Wells in the United States" and from 1956 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States or may be purchased from Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and

the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report ME-02-1." 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:

Atlantic Salmon Commission

L. Perry, Chair

Lake Auburn Watershed Protection Commission

N. Lamie, General Manager, Auburn Water District

R. Burnham, Supervisor, Lewiston Water Division

Maine Department of Conservation,

R. Lovaglio, Commissioner

Maine Department of Defense, Veterans and Emergency Management,

J. E. Tinkham II, Commissioner

Maine Department of Transportation,

J. G. Melrose, Commissioner

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

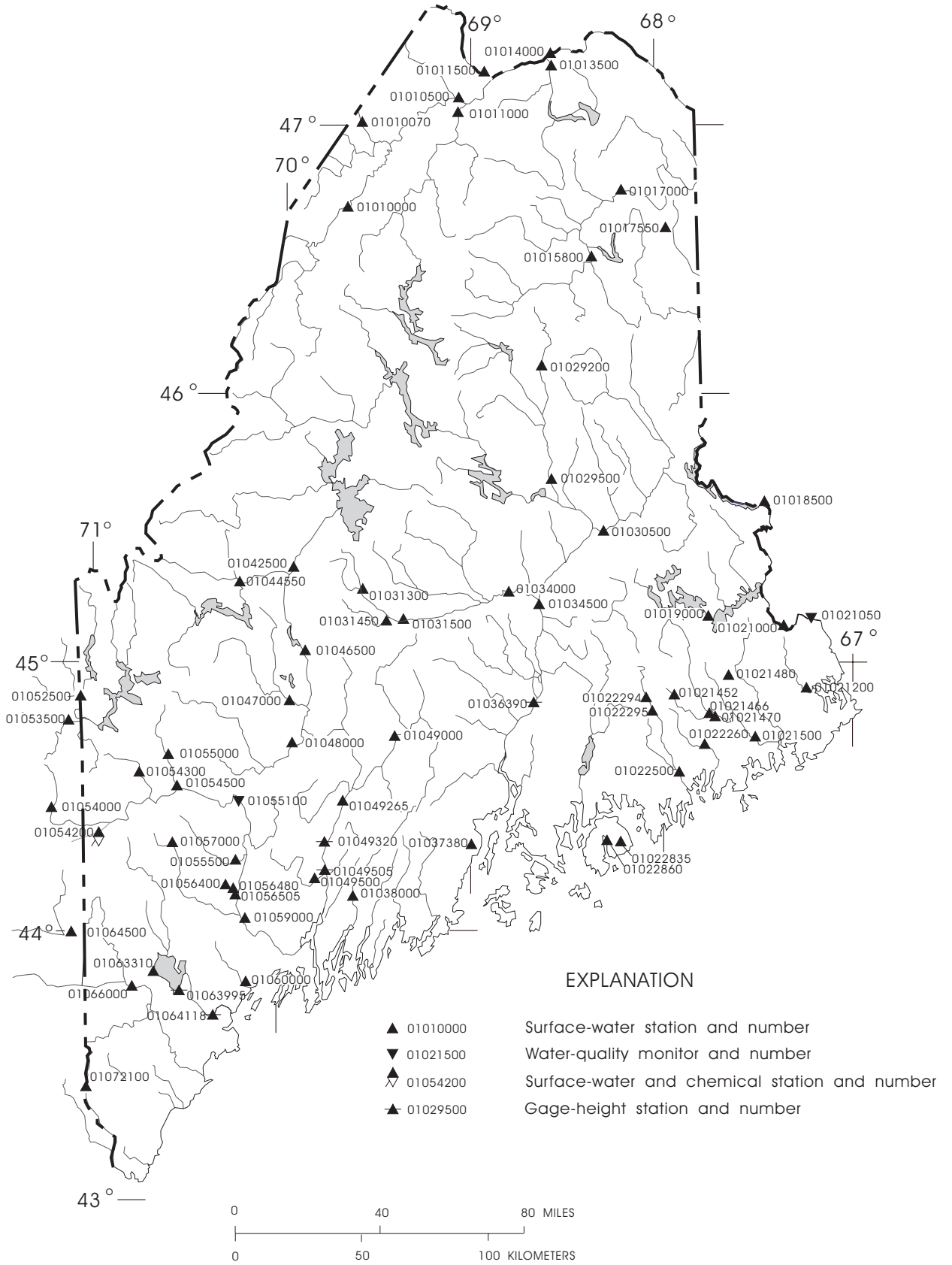


Figure 1.--Location of active surface-water and water-quality gaging stations.

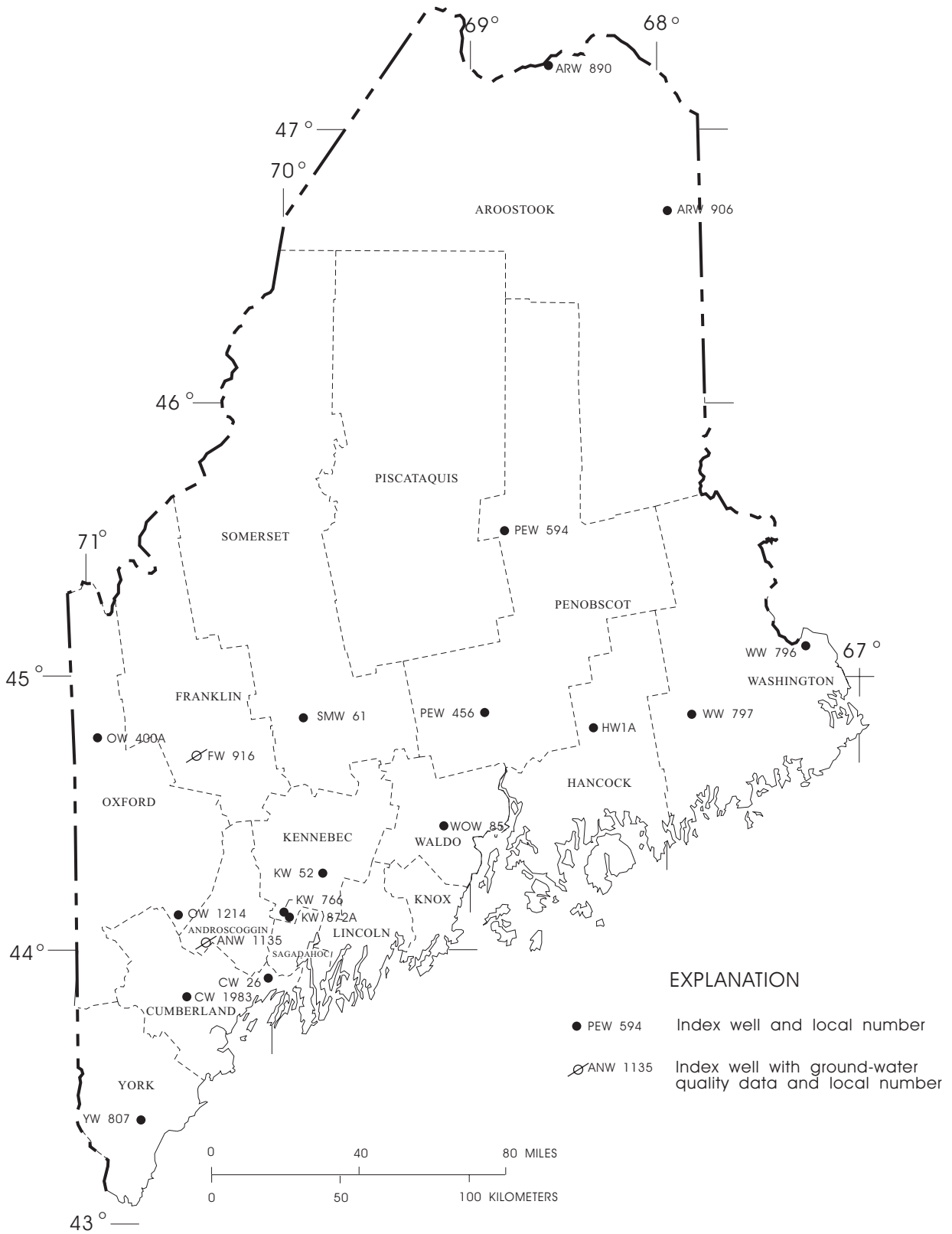


Figure 2.--Location of active ground-water data collection stations.

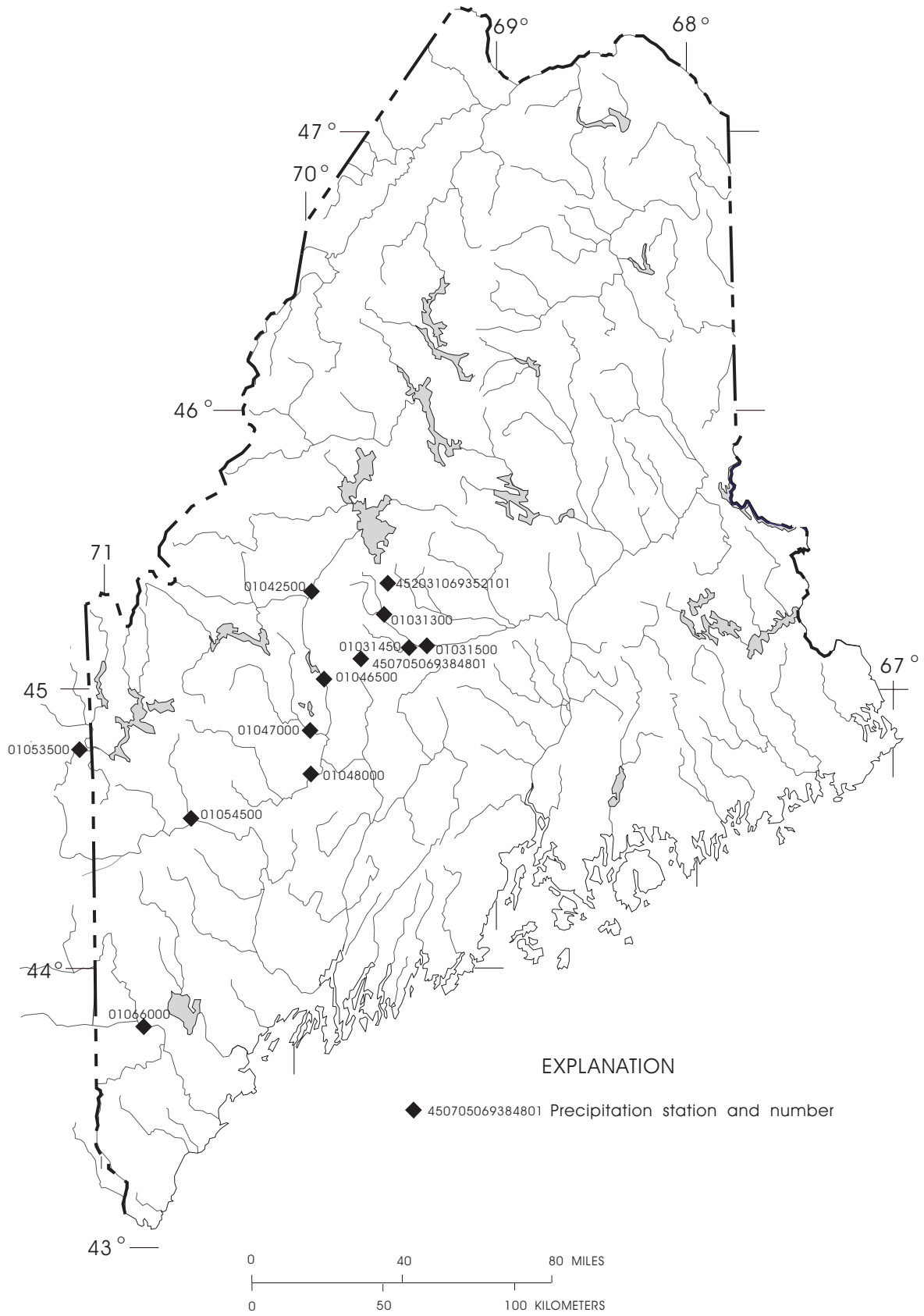


Figure 3.--Location of active precipitation quantity stations.

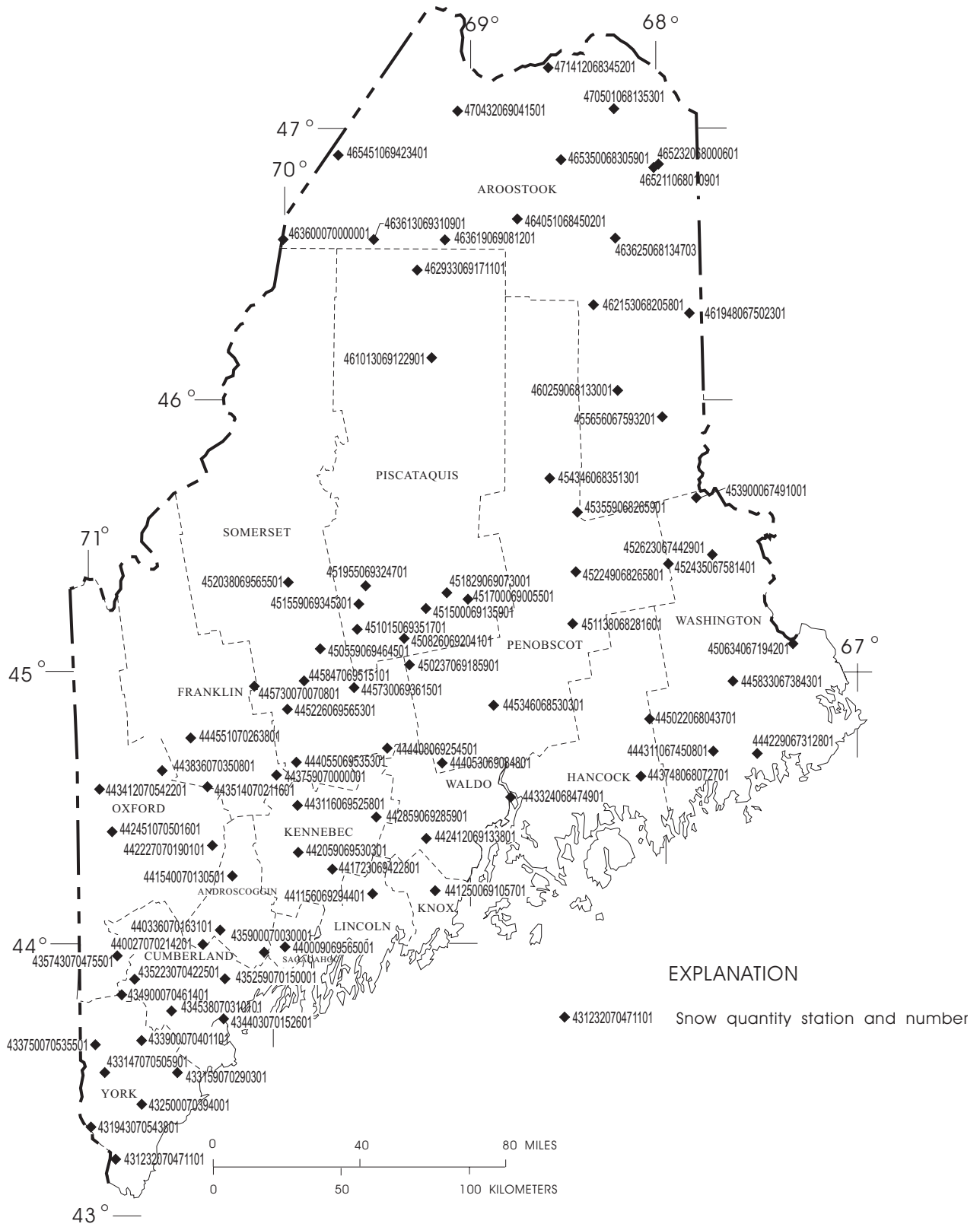


Figure 4.--Location of active snow quantity stations.

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 2002 water year was characterized by flows in the below normal range to the lower part of 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 29 of 35 sites and normal range at 5 sites. The 2002 monthly and annual mean discharges and the median monthly and annual discharges for the 1961-90 reference period are shown in figure 6 for three long-term index stations. Monthly runoff conditions for Maine are summarized in figure 7. 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 2002 water year in Maine. Annual peak flows had less than a 2-year recurrence interval at 27 sites, a 2- year to 5-year recurrence interval at 11 sites, a 5-year to 10-year recurrence interval at 2 sites, and a 10-year to 25-year recurrence interval at 1 site. The greatest recurrence interval peak flows were in the upper Androscoggin River basin and were associated with a rain event in April.

Minimum flows at most sites occurred in early to mid September. 21 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 2 sites, a 5-year to 10-year recurrence interval at 4 sites, a 10-year to 20-year recurrence interval at 1 site, a 20-year to 5-year recurrence interval at 5 sites, a 50-year to 100-year recurrence interval at 3 sites, and greater than a 100-year recurrence interval at 5 sites. The greatest recurrence interval minimum flows were

in the northwest portion of the state in the upper St. John, Kennebec, and Androscoggin basins.

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 82.846 billion cubic feet (ft³) at the beginning of the water year; this volume is 49 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 2002 occurred at the end of February when storage was 38.195 billion ft³. The maximum month-end storage during water year 2002 occurred at the end of June, when storage was 131.776 billion ft³. Usable storage at the end of the water year was 97.794 billion ft³ (58 percent of capacity and below the long-term average).

Table 1. Total usable storage in five Maine reservoir systems for the 2002 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	49	61
October	39	57
November	31	59
December	29	60
January	25	52
February	23	44
March	29	40
April	76	71
May	86	89
June	88	87
July	82	79
August	69	69
September	58	61

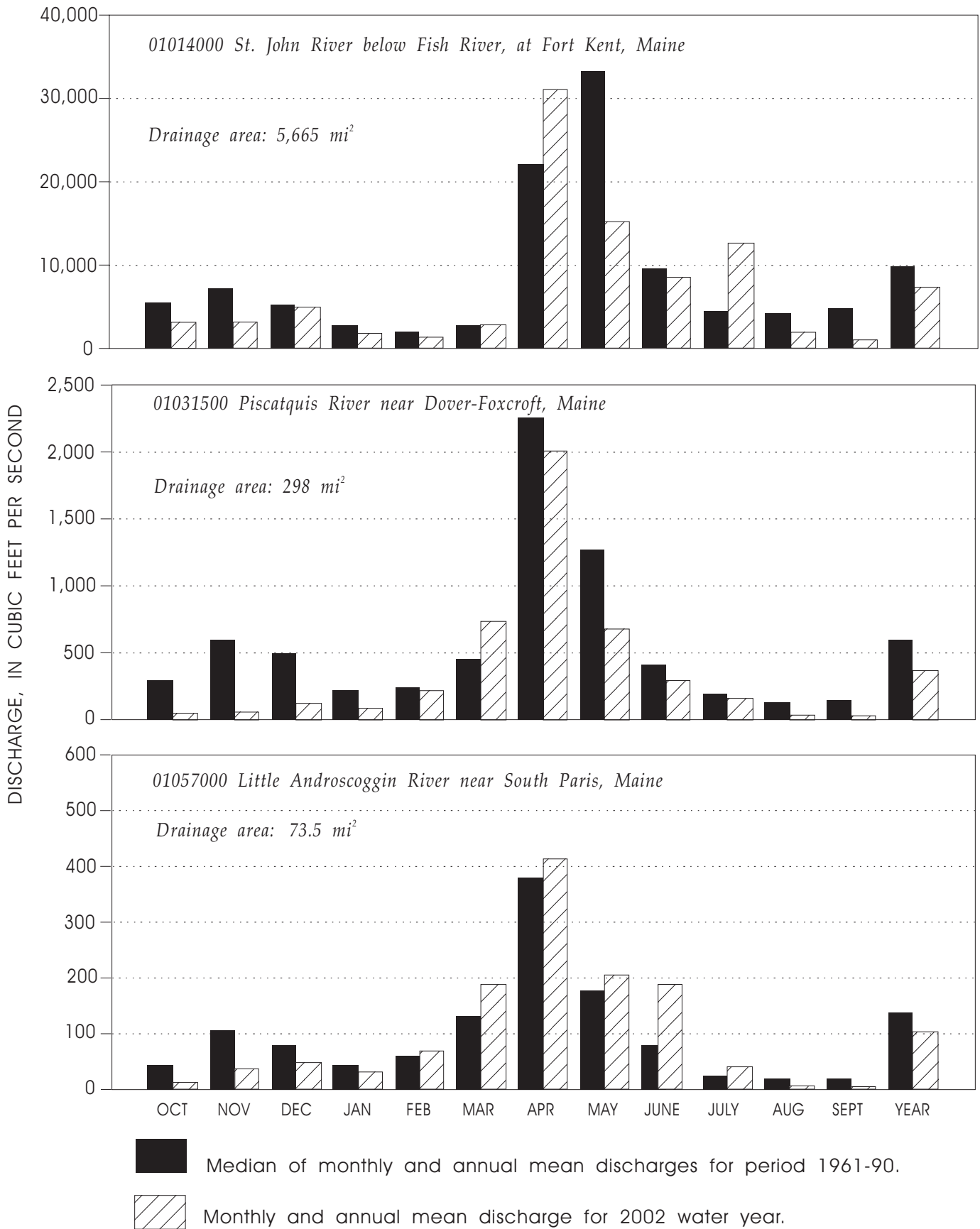


Figure 5.--Comparison of mean discharge at three long-term index gaging stations during 2002 water year with median discharge for period 1961-90.

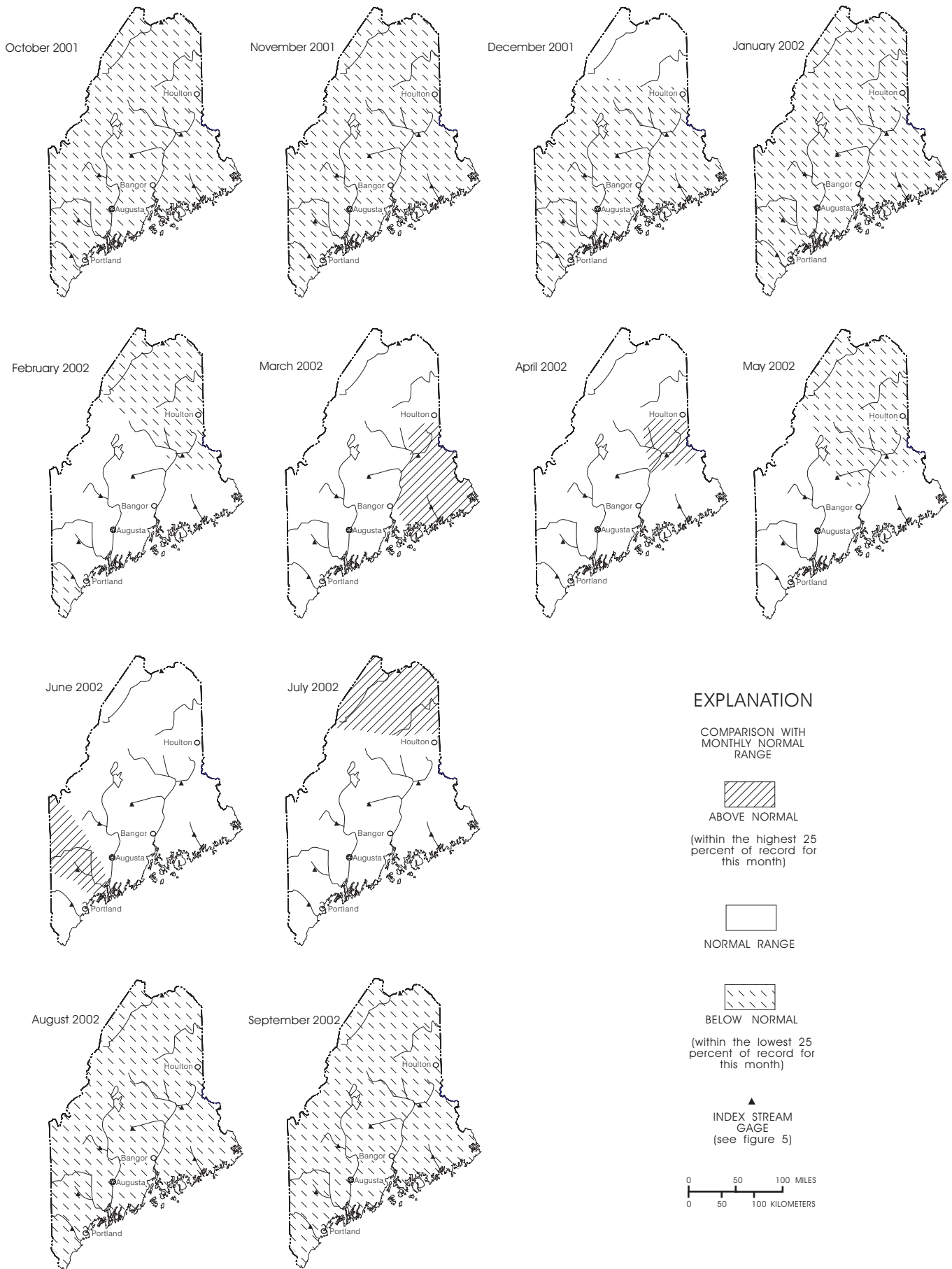


Figure 6.--Monthly surface-water conditions during the 2002 water year in Maine.

Water Quality

Two continuous recording monitoring stations for specific conductance, dissolved oxygen, water temperature and pH (at one monitor) were operated in water-year 2002. The water-quality monitor at Milltown, in the St. Croix River Basin, recorded a new maximum water temperature value. All other readings were within the previous extreme values for the period of daily record at these two sites.

Three water samples were collected at a newly drilled bedrock well in Weld, Maine and two water samples were collected at a bedrock well drilled in January, 2001 in Poland, Maine.

Ground-Water Levels

The ground-water observation well network consisted of 19 wells during the 2002 water year. Month-end ground-water level conditions for Maine are summarized in figure 7.

Record ground-water levels were recorded during the water year at the following wells where data have been collected for at least 10 years. The all-time record high of 15.61, at HW1A was tied in April. New all-time record lows were recorded at the following ten sites with the respective month: KW52 in November, KW766 in February, KW872A in September, OW400A in November, OW1214 in February, PEW 456 in December, SMW61 in January, WW797 in December, WW796 in February, YW807 in March.

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 82 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.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2002 water year that began October 1, 2001, and ended September 30, 2002. 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 indentation in the “List of Stations” in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

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

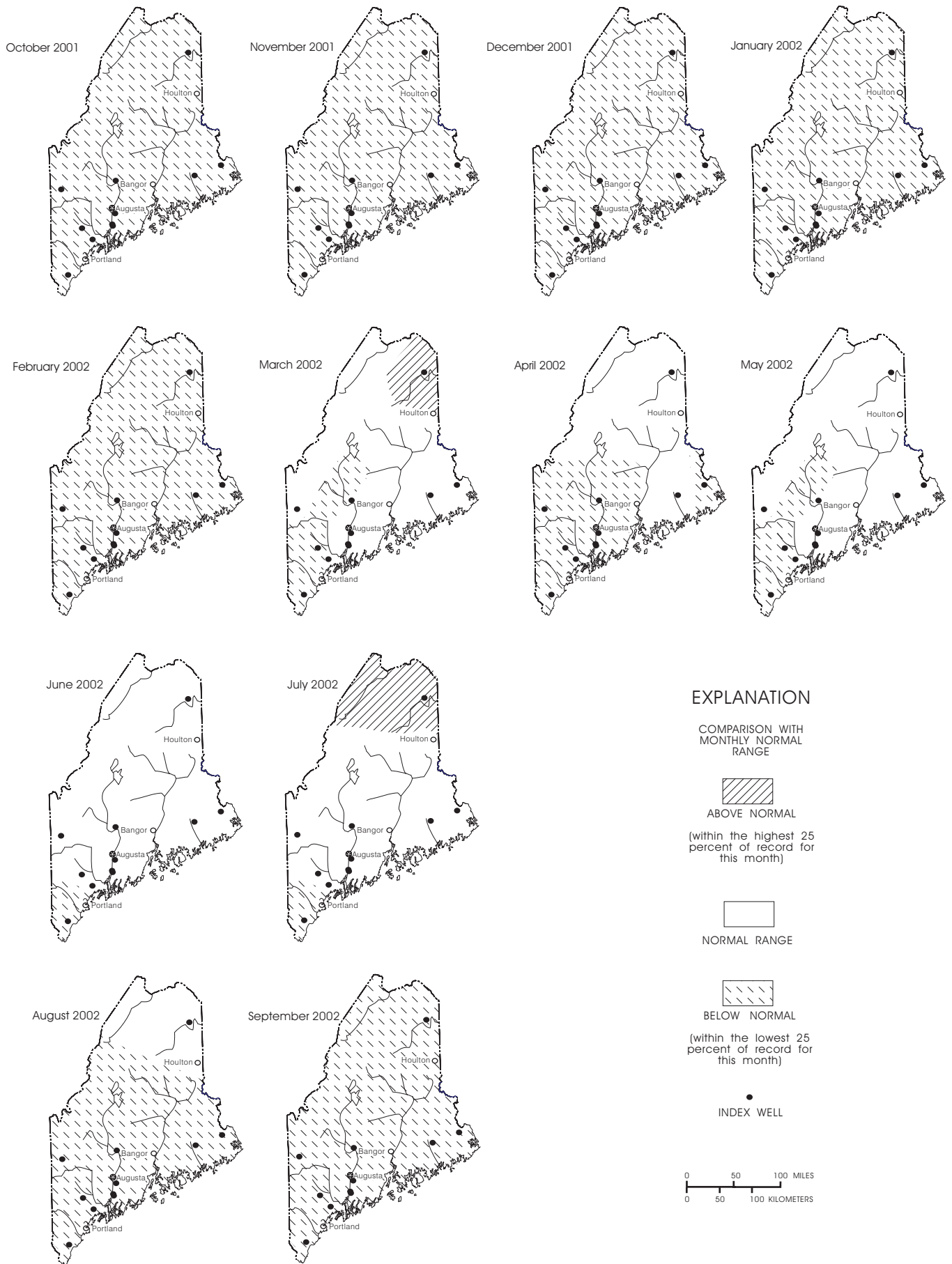


Figure 7.--Month-end ground-water conditions during the 2002 water year in Maine.

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.)

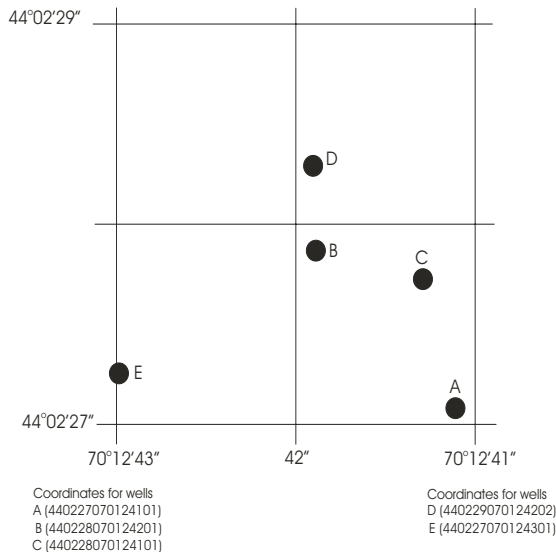


Figure 8.--System for numbering wells and special study sites (latitude and longitude).

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 characteris-

tics, 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 discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the stages (gauge 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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value.

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 ft³/s and to 3 significant figures for more than 10 ft³/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 ft³/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 head-

ings 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.

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

<i>E</i>	<i>Estimated value.</i>
<i>></i>	<i>Actual value is known to be greater than the value shown.</i>
<i><</i>	<i>Actual value is known to be less than the value shown.</i>

Table 2. Rating continuous water-quality records.

[\leq , less than or equal to; \pm , plus or minus value shown; $^{\circ}\text{C}$, degree Celsius; $>$, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit; Table from: Wagner, R. J., Matraw H. C., Ritz G. F., and Smith B. A., 2000, *Guidelines and Standard Procedures for Continuous Water-Quality Monitors: Site Selection, 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	$\leq \pm 0.2^{\circ}\text{C}$	$> \pm 0.2$ to 0.5°C	$> \pm 0.5$ to 0.8°C	$> \pm 0.8^{\circ}\text{C}$
Specific conductance	$\leq \pm 3\%$	$> \pm 3$ to 10%	$> \pm 10$ to 15%	$> \pm 15\%$
Dissolved oxygen	$\leq \pm 0.3$ mg/L	$> \pm 0.3$ to 0.5 mg/L	$> \pm 0.5$ to 0.8 mg/L	$> \pm 0.8$ mg/L
pH	$\leq \pm 0.2$ unit	$> \pm 0.2$ to 0.5 unit	$> \pm 0.5$ to 0.8 unit	$> \pm 0.8$ unit

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 hydrographs, the extremes listed in the station description may not be reflected in the hydrographs. Periods of missing records are indicated by blank spaces in the hydrograph.

Records of Ground-Water Quality

Water samples were collected at a newly drilled bedrock well in Weld, Maine and at an existing bedrock well drilled in January, 2001 in Poland, Maine. Samples were analyzed at the Geological Survey laboratory in Lakewood, Colorado for major ions, nutrients and arsenic.

Classification of records

Classification of ground-water quality records are arranged as described in "Records of Surface-Water Quality", located on page 15.

Arrangement of Records

Water-quality records collected at a ground-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records.

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

<i>E</i>	<i>Estimated value.</i>
<i>></i>	<i>Actual value is known to be greater than the value shown.</i>
<i><</i>	<i>Actual value is known to be less than the value shown.</i>
<i>M</i>	<i>Presence verified, not quantified</i>

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 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 snow-pack. 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 magnetic tape 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 Division 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.

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 is purposely 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 multi-plate 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 the 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.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that 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”)

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

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 is also called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

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 lithology and porosity of the rock.

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 are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used 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:

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

pi (π) is the ratio of the circumference to the diameter of a circle; $\pi = 3.14159\dots$

From cell volume, total algal biomass expressed as biovolume ($\mu\text{m}^3/\text{mL}$) 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.

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 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, [(ft³/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 are numerically 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, (ft³/s)/mi²] 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 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 periodic sample or 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 are usually 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 UTM coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

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, etc., 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 CaCO₃) 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:

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

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 are commonly 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 faecalis*, *Streptococcus faecium*, *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 are generally 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) concentration value 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 qualitatively identified 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 (<).

Euglenoids (*Euglenophyta*) are a group of algae that are usually 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 itself is not an actual physical object, the datum usually is 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 have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating “moss” in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

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 are typically 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 (CaCO₃).

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:

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

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.), 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 uniformly distributed on it. (See also “Annual runoff”)

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

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) is generally 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. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.]

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:

$$I = I_0 e^{-\lambda L} ,$$

where I_0 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

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0} .$$

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 con-

trols 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.

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.

Methylene blue active substances (MBAS) are apparent detergents. 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, $\mu\text{g/g}$) 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, $\mu\text{g/kg}$) 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, $\mu\text{g/L}$) 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, $\mu\text{S/cm}$) 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 of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly 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 Vertical Datum of 1988 (NAVD 1988) 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 (m²), 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 utilizes 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 are usually 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 organ-

isms (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 [$\text{mg C}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg C}/(\text{m}^3/\text{time})$] 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 [$\text{mg O}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg O}/(\text{m}^3/\text{time})$] 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 dissolution 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. See conversion factors and vertical datum page (inside back cover) for identification of the datum used in this report.

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 (<2mm, 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.

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 (ft³/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, 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”)

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.

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 hierarchical 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:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	<i>Hexagenia</i>
Species:	<i>Hexagenia limbata</i>

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 tons 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 due to 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 U.S. EPA 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 pathlength 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 are often 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."

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

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

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, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI Book 1, Chapter D2. 1976. 24 pages.

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, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI Book 2, Chapter D2. 1988. 86 pages.

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, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI Book 2, Chapter E2. 1990. 150 pages.

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, Chapter F1. 1989. 97 pages.

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, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS–TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A8. 1969. 65 pages.

- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS–TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing, Revised*, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS–TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS–TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS–TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS–TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS–TWRI Book 3, Chapter B4. 1990. 232 pages.
- 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, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-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, Chapter B7. 1992. 190 pages.
- 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, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI Book 3, Chapter C2. 1999. 89 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI Book 3, Chapter C3. 1972. 66 pages.

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, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H.C. Riggs: USGS-TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

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

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, Chapter D1. 1970. 17 pages.

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, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS-TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS-TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greenson, editors: USGS-TWRI Book 5, Chapter A4. 1989. 363 pages.

- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS-TWRI Book 5, Chapter A5. 1977. 95 pages.

- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS-TWRI Book 5, Chapter A6. 1982. 181 pages.

Section C. Sediment Analysis

- 5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS-TWRI Book 5, Chapter C1. 1969. 58 pages.

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, Chapter A1. 1988. 586 pages.
- 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, Chapter A2. 1991. 68 pages.
- 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, Chapter A3. 1993. 136 pages.
- 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, Chapter A4. 1992. 108 pages.
- 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. A5, 1996. 125 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.

- 9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by 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.



Kennebec River
Downtown Augusta, Maine
March 25, 2003



Kennebec River
Downtown Augusta, Maine
March 26, 2003

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

Remarks Codes

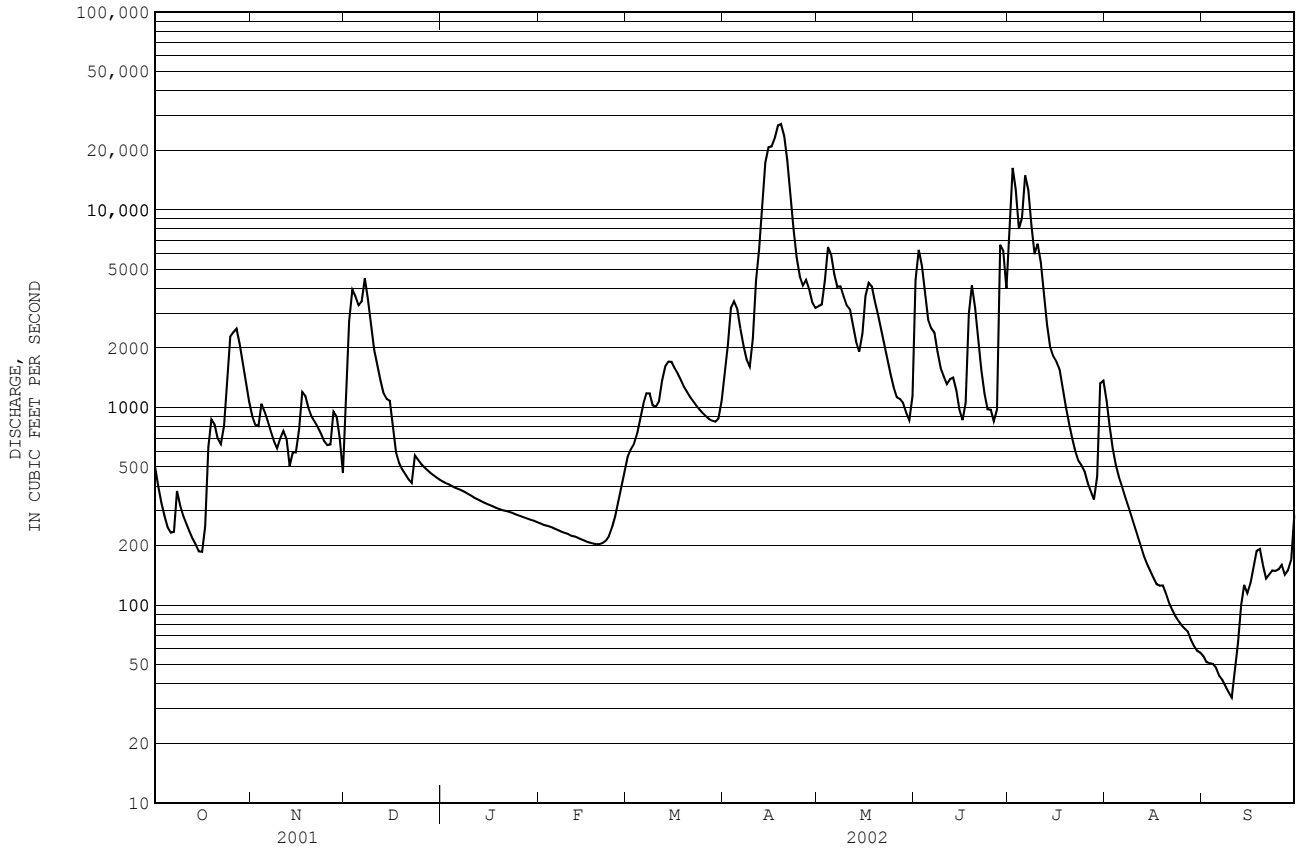
The following remark codes may appear with the water-quality data in this station:

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.

ST. JOHN RIVER BASIN

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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1951 - 2002	
ANNUAL TOTAL	647115		723299		2366	
ANNUAL MEAN	1773		1982		3548	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					1336	
HIGHEST DAILY MEAN	31200	Apr 26	27100	Apr 19	38600	May 1 1974
LOWEST DAILY MEAN	72	Sep 20	34	Sep 10	34	Sep 10 2002
ANNUAL SEVEN-DAY MINIMUM	84	Sep 16	42	Sep 5	42	Sep 5 2002
MAXIMUM PEAK FLOW			28900		44400	
MAXIMUM PEAK STAGE			9.83		23.00	
INSTANTANEOUS LOW FLOW			32		32	
ANNUAL RUNOFF (CFSM)	1.32		1.48		1.76	
ANNUAL RUNOFF (INCHES)	17.95		20.06		23.97	
10 PERCENT EXCEEDS	3470		4380		5950	
50 PERCENT EXCEEDS	666		789		970	
90 PERCENT EXCEEDS	175		149		257	



ST. JOHN RIVER BASIN

01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME

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

DRAINAGE AREA.--171 mi².

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

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

REMARKS.--Records good, except for periods of ice effect, Nov. 10-15, 21-24, Nov. 28 to Dec. 1, Dec. 8 to Apr. 12, and period of doubtful stage-discharge relation, Aug. 14 to Sept. 5, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,680 ft³/s Apr. 1, 1987; gage height, 15.62 ft; minimum daily discharge, 7.4 ft³/s, Sept. 24, 1985.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 18	0600	*5,660	*11.67	Jul 2	1745	2,770	9.09

Minimum discharge, 7.7 ft³/s, Sept. 9, gage height, 2.88 ft.

**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	87	113	e216	e52	e30	e61	e265	492	595	1050	49	e9.6
2	65	101	660	e50	e30	e74	e368	468	572	2260	40	e9.4
3	52	100	601	e48	e30	e89	e478	742	382	1690	35	e9.3
4	46	103	473	e46	e30	e122	e519	1070	252	754	37	e9.2
5	42	100	409	e45	e30	e165	e505	837	187	877	35	e8.8
6	49	89	465	e44	e30	e185	e457	597	183	1650	32	8.6
7	104	81	671	e43	e30	e181	e407	586	173	1510	30	8.9
8	135	73	e504	e42	e29	e158	e369	644	139	714	26	9.7
9	106	74	e309	e41	e29	e139	e356	544	118	394	24	8.7
10	84	e88	e234	e40	e29	e148	e643	484	108	249	22	8.7
11	70	e99	e195	e39	e29	e198	e1140	440	103	171	21	18
12	56	e93	e184	e38	e29	e235	e1610	354	112	126	19	25
13	49	e91	e179	e38	e29	e227	2270	282	108	97	17	38
14	43	e87	e168	e37	e29	e206	3070	271	88	82	e16	32
15	40	e82	e153	e37	e28	e187	3120	380	71	80	e14	29
16	40	171	e137	e36	e28	e171	2970	650	65	76	e13	27
17	82	246	e125	e36	e28	e155	4190	709	77	65	e13	27
18	183	195	e115	e35	e28	e142	5300	604	169	56	e12	25
19	186	156	e105	e35	e27	e130	4060	446	210	49	e15	21
20	140	136	e97	e34	e28	e122	3180	340	143	44	e14	20
21	109	e120	e91	e34	e29	e115	2170	273	96	38	e13	18
22	96	e106	e85	e34	e33	e112	1270	228	70	33	e13	18
23	90	e95	e81	e33	e39	e109	844	187	57	38	e12	17
24	232	e89	e79	e33	e42	e105	639	155	64	44	e12	17
25	380	86	e78	e32	e47	e100	542	140	74	43	e11	15
26	450	104	e76	e32	e53	e97	574	137	61	35	e11	13
27	387	154	e73	e32	e55	e100	802	158	71	31	e11	12
28	291	e142	e68	e31	e58	e102	712	157	128	29	e10	16
29	223	e114	e64	e31	---	e107	568	139	140	36	e10	15
30	170	e107	e60	e31	---	e135	535	147	92	59	e9.9	19
31	135	---	e56	e31	---	e191	---	230	---	62	e9.7	---
TOTAL	4222	3395	6811	1170	936	4368	43933	12891	4708	12442	606.6	512.9
MEAN	136	113	220	37.7	33.4	141	1464	416	157	401	19.6	17.1
MAX	450	246	671	52	58	235	5300	1070	595	2260	49	38
MIN	40	73	56	31	27	61	265	137	57	29	9.7	8.6
CFSM	0.80	0.66	1.28	0.22	0.20	0.82	8.56	2.43	0.92	2.35	0.11	0.10
IN.	0.92	0.74	1.48	0.25	0.20	0.95	9.56	2.80	1.02	2.71	0.13	0.11

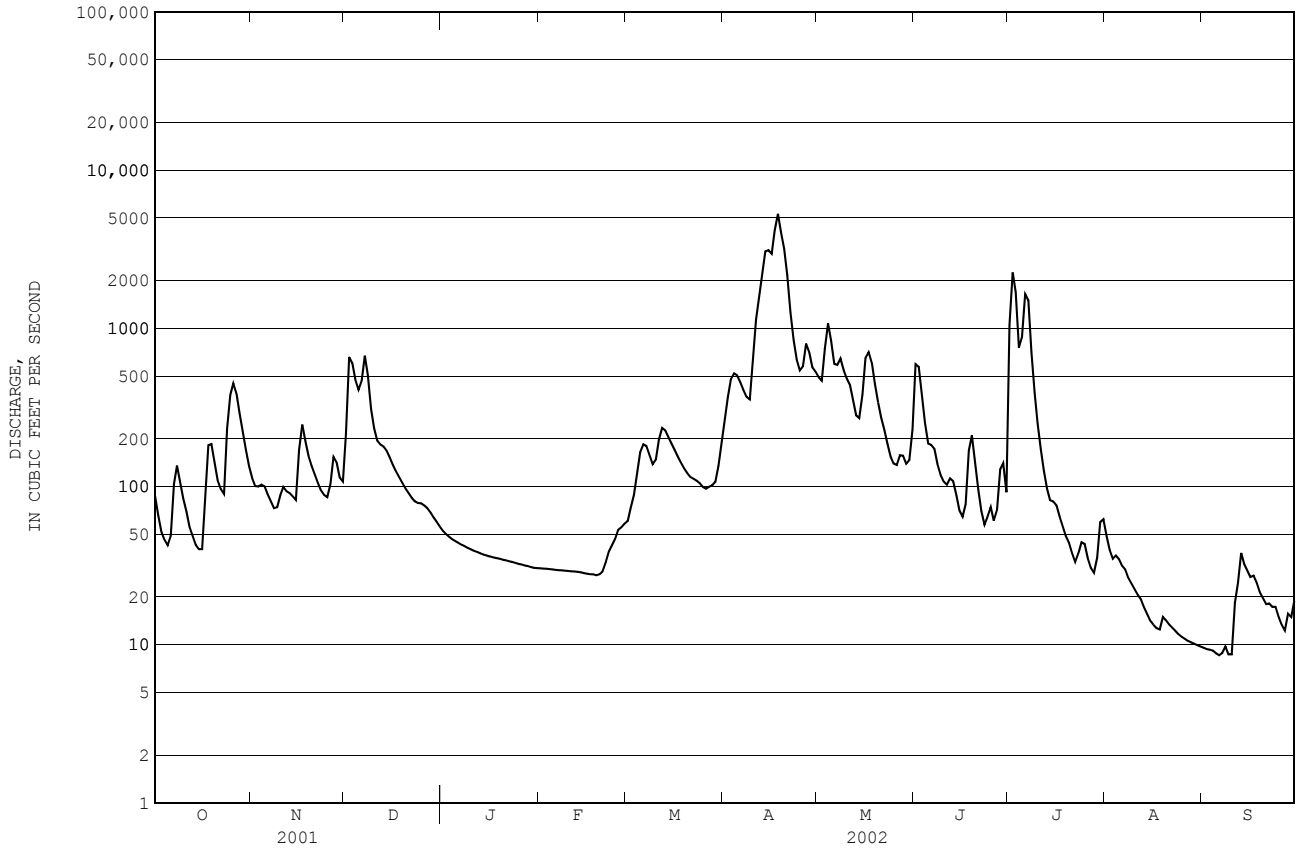
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	252	318	187	100	88.1	216	1263	714	238	200	114	114							
MAX	710	612	708	265	393	852	1807	1766	762	691	551	364							
(WY)	1991	1989	1991	1991	1996	1990	1991	1997	1994	1984	1986	1986							
MIN	40.0	113	41.8	27.5	13.6	25.9	678	152	57.2	38.5	17.6	17.1							
(WY)	1998	2002	1998	1985	1985	1993	1985	1987	1998	1997	2001	2002							

e Estimated

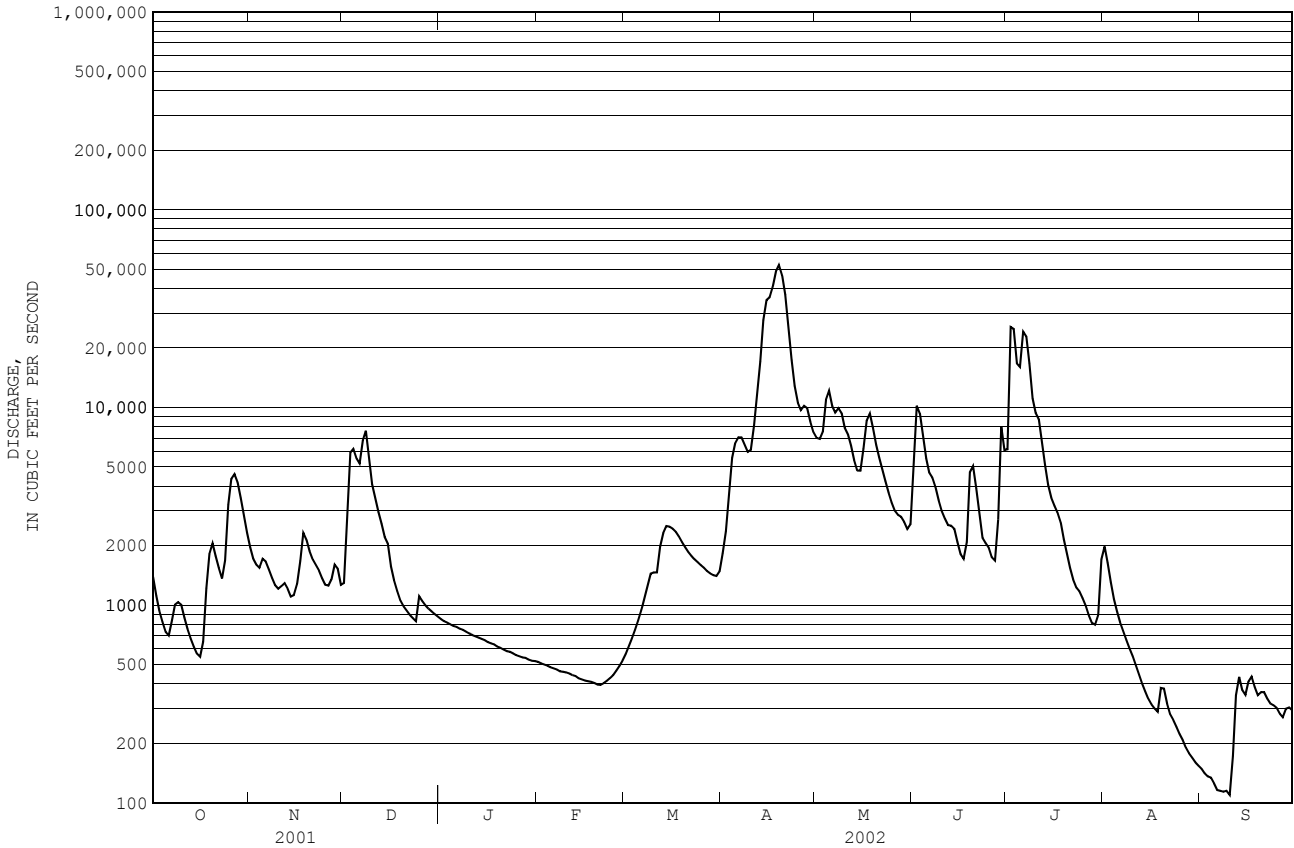
01010070 BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1984 - 2002	
ANNUAL TOTAL	88606		95995.5		317	
ANNUAL MEAN	243		263		438	
HIGHEST ANNUAL MEAN					157	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	5360	Apr 25	5300	Apr 18	6790	Apr 1 1987
LOWEST DAILY MEAN	10	Aug 16	8.6	Sep 6	7.4	Sep 24 1985
ANNUAL SEVEN-DAY MINIMUM	12	Aug 11	8.9	Sep 4	8.0	Sep 20 1985
MAXIMUM PEAK FLOW			5660		8680	
MAXIMUM PEAK STAGE			11.67		15.62	
INSTANTANEOUS LOW FLOW			7.7		Apr 1 1987	
ANNUAL RUNOFF (CFSM)	1.42		1.54		1.85	
ANNUAL RUNOFF (INCHES)	19.28		20.88		25.18	
10 PERCENT EXCEEDS	468		596		810	
50 PERCENT EXCEEDS	95		89		115	
90 PERCENT EXCEEDS	22		18		31	



01010500 ST. JOHN RIVER AT DICKEY, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1910 - 2002	
ANNUAL TOTAL	1326093		1349993		4750	
ANNUAL MEAN	3633		3699		7193	
HIGHEST ANNUAL MEAN					2844 1976	
LOWEST ANNUAL MEAN					86800 1965	
HIGHEST DAILY MEAN	59400	Apr 26	52600	Apr 19	86800	Apr 29 1979
LOWEST DAILY MEAN	212	Sep 20	110	Sep 10	110	Sep 10 2002
ANNUAL SEVEN-DAY MINIMUM	249	Sep 16	119	Sep 4	119	Sep 4 2002
MAXIMUM PEAK FLOW			54200		91700	
MAXIMUM PEAK STAGE			15.03		37.89	
INSTANTANEOUS LOW FLOW			106		106	
ANNUAL RUNOFF (CFSM)	1.36		1.38		1.77	
ANNUAL RUNOFF (INCHES)	18.41		18.74		24.08	
10 PERCENT EXCEEDS	7070		8620		11800	
50 PERCENT EXCEEDS	1390		1370		2000	
90 PERCENT EXCEEDS	464		350		555	



ST. JOHN RIVER BASIN

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

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

DRAINAGE AREA.---1,229 mi², not including 249 mi² drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.---Discharge: July 1910 to November 1910, May to November 1911, September 1931 to current year. 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, Nov. 13-14, Nov. 28 to Dec. 2, and Dec. 8 to Apr. 12, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft³, 58 mi upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 36,900 ft³/s, Apr. 18, 1983, gage height, 13.68 ft; maximum gage height, 19.78 ft, Apr. 10, 1991 (backwater from ice); minimum discharge, 87 ft³/s, Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 17,100 ft³/s, Apr. 19, gage height, 9.63 ft; minimum discharge, 209 ft³/s, Sept. 7, gage height, 1.84 ft.

**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	456	539	e554	e343	e241	e330	e721	3530	3530	1530	858	262
2	417	517	e817	e337	e236	e357	e829	3350	3660	1930	772	257
3	381	511	951	e330	e235	e389	e961	3510	3110	3520	733	251
4	359	493	911	e324	e234	e421	e1150	3840	2730	3540	673	248
5	340	463	949	e318	e233	e441	e1410	3760	2410	6520	621	240
6	338	439	1070	e313	e232	e452	e1490	3560	2450	10100	585	227
7	339	413	1520	e308	e231	e449	e1450	3560	2360	9600	545	214
8	333	387	e1530	e303	e228	e433	e1310	3780	2150	7730	521	215
9	304	391	e1160	e299	e227	e408	e1270	3600	2080	6120	510	219
10	287	422	e948	e296	e225	e466	e1760	3570	2050	5290	490	218
11	279	436	e833	e294	e223	e516	e2510	3570	1830	4580	474	277
12	269	419	e755	e291	e223	e565	e3650	3320	1730	3940	447	402
13	259	e389	e681	e290	e220	e596	5230	3110	1590	3450	430	409
14	248	e390	e626	e289	e219	e615	7700	2950	1400	3090	413	356
15	247	383	e567	e285	e218	e622	9460	3010	1250	2860	401	348
16	248	407	e448	e282	e216	e614	9990	3410	1170	2770	396	352
17	330	452	e419	e277	e215	e600	12600	3670	1170	2470	390	347
18	684	450	e399	e275	e214	e578	15600	3520	1250	2250	374	323
19	658	443	e382	e273	e211	e551	16600	3160	1230	1990	390	298
20	517	449	e367	e270	e210	e537	16500	2960	1150	1860	379	288
21	461	443	e351	e267	e212	e531	13900	2760	1060	1730	354	291
22	471	420	e340	e262	e237	e534	11500	2570	953	1630	342	301
23	493	409	e331	e259	e266	e506	9330	2370	875	1600	339	302
24	520	391	e335	e259	e277	e482	7780	2200	1080	1520	326	289
25	604	381	e409	e257	e271	e462	6680	2060	1010	1340	318	271
26	739	406	e395	e254	e265	e450	5860	1950	863	1120	313	253
27	830	420	e384	e253	e284	e458	5400	1930	1040	927	298	243
28	753	e411	e373	e250	e307	e473	4840	1830	1640	803	282	267
29	682	e292	e364	e248	---	e487	4340	1720	1670	785	267	271
30	631	e299	e356	e244	---	e536	3870	1600	1630	986	265	262
31	580	---	e349	e242	---	e615	---	1660	---	984	267	---
TOTAL	14057	12665	19874	8792	6610	15474	185691	91390	52121	98525	13773	8501
MEAN	453	422	641	284	236	499	6190	2948	1737	3178	444	283
MAX	830	539	1530	343	307	622	16600	3840	3660	10100	858	409
MIN	247	292	331	242	210	330	721	1600	863	785	265	214
CFSM	0.37	0.34	0.52	0.23	0.19	0.41	5.04	2.40	1.41	2.59	0.36	0.23
IN.	0.43	0.38	0.60	0.27	0.20	0.47	5.62	2.77	1.58	2.98	0.42	0.26

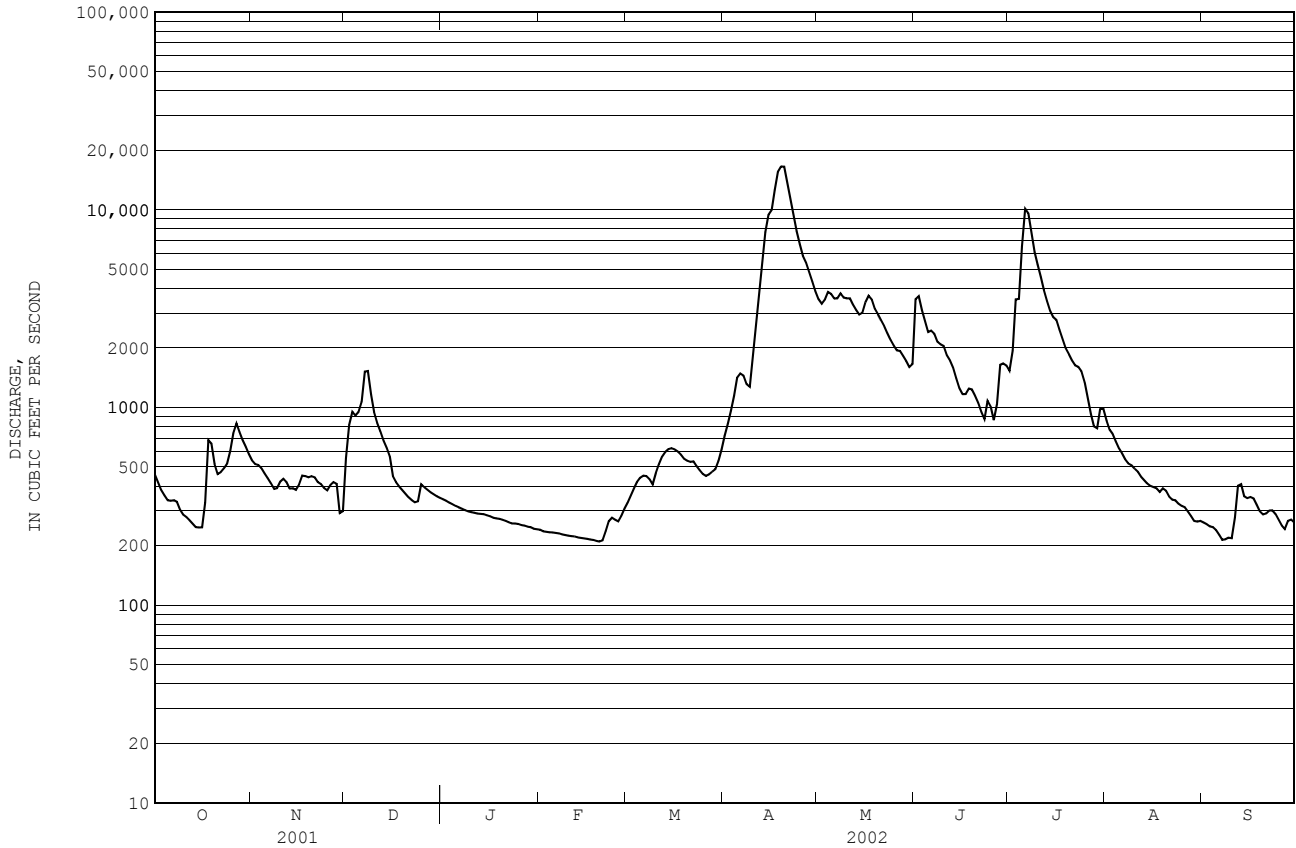
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2002, BY WATER YEAR (WY)

	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1254	1563	1180	721	595	785	4785	6418	2219	1409	1074	1050																																																																																	
MAX	5068	4628	4549	1865	2400	3610	10100	13550	4544	4053	5292	3419																																																																																	
(WY)	1991	1964	1951	1958	1996	1979	1976	1961	1947	1954	1976	1999																																																																																	
MIN	149	235	252	192	119	181	623	1269	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1910 - 2002	
ANNUAL TOTAL	477932		527473		1934	
ANNUAL MEAN	1309		1445		2899	
HIGHEST ANNUAL MEAN					1976	
LOWEST ANNUAL MEAN					989	
HIGHEST DAILY MEAN	16600	Apr 26	16600	Apr 19	32100	Apr 18 1983
LOWEST DAILY MEAN	232	Sep 20	210	Feb 20	91	Mar 9 1948
ANNUAL SEVEN-DAY MINIMUM	246	Sep 15	214	Feb 15	91	Mar 9 1948
MAXIMUM PEAK FLOW			17100		36900	
MAXIMUM PEAK STAGE			9.63		19.78	
INSTANTANEOUS LOW FLOW			209		87	
ANNUAL RUNOFF (CFSM)	1.07		1.18		1.57	
ANNUAL RUNOFF (INCHES)	14.47		15.97		21.39	
10 PERCENT EXCEEDS	2470		3560		4670	
50 PERCENT EXCEEDS	555		471		969	
90 PERCENT EXCEEDS	335		249		316	



ST. JOHN RIVER BASIN

01011500 ST. FRANCIS RIVER AT OUTLET OF GLASIER LAKE, NEAR
CONNORS, NEW BRUNSWICK

(International gaging station)

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

DRAINAGE AREA.--524 mi².

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

REVISED RECORDS.--WDR ME-82-1: Drainage area. 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.--No estimated daily discharges. Records good. 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 ft³/s, Apr. 30, 1979, gage height, 15.39 ft; minimum daily discharge, 60 ft³/s, Oct. 11, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,130 ft³/s, Apr. 20, gage height, 10.48 ft; minimum daily discharge, 79 ft³/s, Sept. 7-8.

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

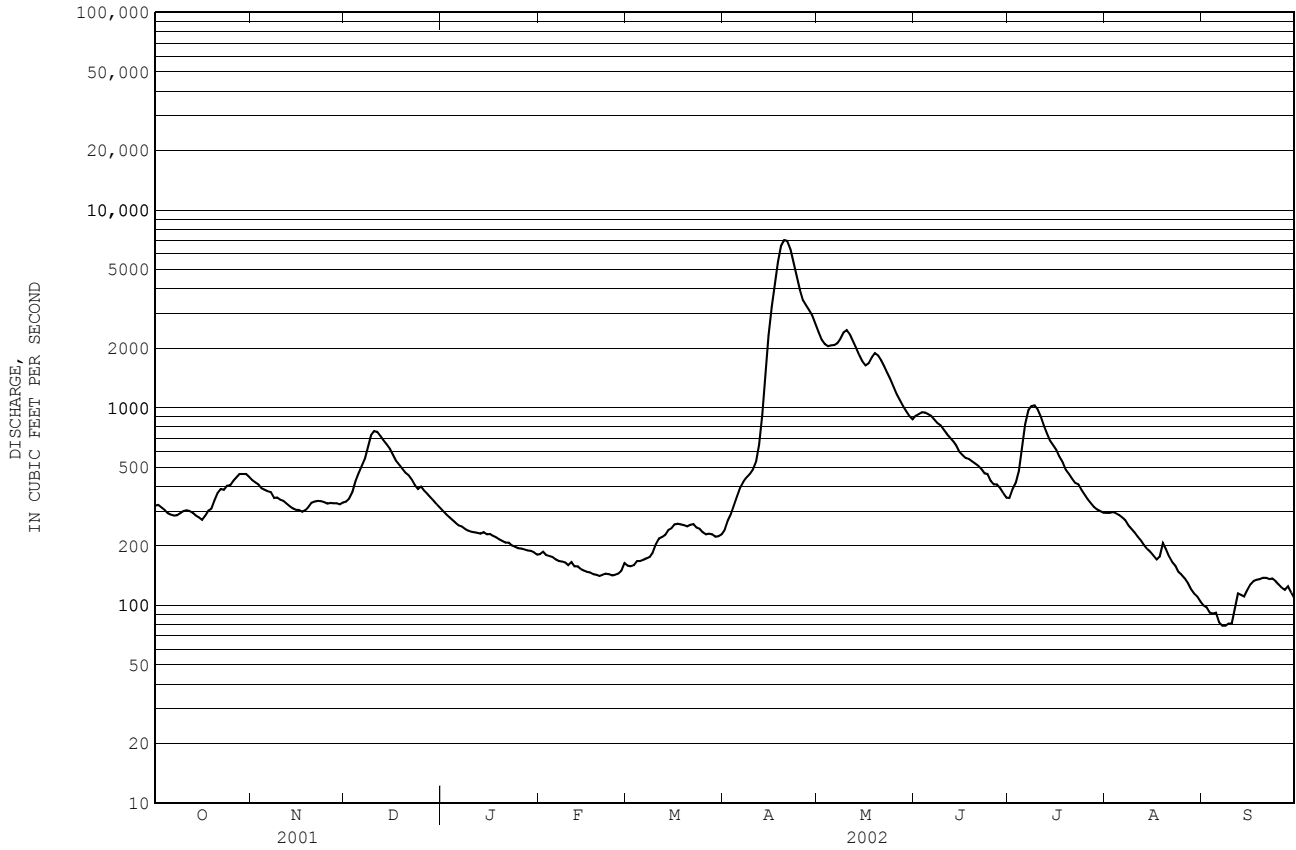
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	431	335	301	182	159	241	2420	911	350	294	100
2	323	420	347	290	187	158	269	2210	929	388	294	98
3	314	410	374	280	180	160	290	2100	950	417	297	92
4	305	392	424	271	178	168	322	2050	946	480	293	91
5	293	385	466	262	176	168	357	2070	929	625	287	92
6	288	378	505	254	171	170	396	2080	911	826	279	82
7	285	374	551	251	168	173	424	2120	872	971	270	79
8	286	350	632	244	167	176	445	2240	837	1020	255	79
9	293	352	727	239	165	185	463	2410	816	1030	244	81
10	300	343	763	236	160	204	487	2470	777	985	234	81
11	303	338	756	235	166	218	533	2350	738	904	223	97
12	301	328	720	233	158	222	650	2180	706	816	213	115
13	295	318	685	231	158	228	922	2010	678	742	202	113
14	285	310	653	235	153	241	1480	1850	643	682	193	111
15	279	305	622	229	150	246	2320	1720	600	646	187	120
16	271	304	579	230	148	257	3230	1640	576	611	179	128
17	284	298	540	225	147	259	4240	1680	558	565	171	133
18	302	303	516	221	144	257	5470	1800	551	530	177	135
19	309	315	491	216	143	255	6570	1890	537	487	207	136
20	341	331	470	212	141	251	7060	1840	523	463	193	138
21	371	336	456	208	143	256	6990	1740	509	438	177	138
22	388	338	434	208	145	258	6360	1620	491	417	166	136
23	385	337	406	201	144	248	5440	1500	466	410	159	137
24	403	333	388	198	142	244	4630	1390	463	385	148	133
25	406	328	399	195	143	235	3960	1280	427	364	143	128
26	427	330	381	194	145	229	3510	1170	410	345	137	123
27	445	329	367	192	150	231	3300	1090	410	329	130	120
28	463	329	352	190	164	229	3120	1020	392	315	121	125
29	463	325	339	189	---	223	2930	961	371	306	115	116
30	463	332	325	186	---	224	2670	911	351	300	111	109
31	448	---	313	181	---	229	---	876	---	295	105	---
TOTAL	10639	10302	15316	7037	4418	6761	79079	54688	19278	17442	6204	3366
MEAN	343	343	494	227	158	218	2636	1764	643	563	200	112
MAX	463	431	763	301	187	259	7060	2470	950	1030	297	138
MIN	271	298	313	181	141	158	241	876	351	295	105	79
CFSM	0.65	0.66	0.94	0.43	0.30	0.42	5.03	3.37	1.23	1.07	0.38	0.21
IN.	0.76	0.73	1.09	0.50	0.31	0.48	5.61	3.88	1.37	1.24	0.44	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2002, BY WATER YEAR (WY)

	524	704	540	326	277	324	2198	3312	956	516	430	374
MEAN	524	704	540	326	277	324	2198	3312	956	516	430	374
MAX	1650	1889	1393	839	1072	1116	4554	6360	1954	1730	2055	1222
(WY)	1955	1964	1958	1958	1981	1981	1983	1974	1994	1992	1981	1971
MIN	84.3	97.4	102	115	117	107	558	606	438	206	101	83.4
(WY)	1969	1979	1979	1990	1961	1962	1967	1987	1998	1991	1978	1978

01011500 ST. FRANCIS RIVER AT OUTLET OF GLASIER LAKE, NEAR--Continued
CONNORS, NEW BRUNSWICK

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1952 - 2002	
ANNUAL TOTAL	265012		234530			
ANNUAL MEAN	726		643		876	
HIGHEST ANNUAL MEAN					1285	1958
LOWEST ANNUAL MEAN					485	1965
HIGHEST DAILY MEAN	6460	Apr 28	7060	Apr 20	14500	Apr 30 1979
LOWEST DAILY MEAN	130	Sep 20	79	Sep 7	60	Oct 11 1978
ANNUAL SEVEN-DAY MINIMUM	135	Sep 19	84	Sep 4	64	Oct 3 2000
MAXIMUM PEAK FLOW			7130	Apr 20	15000	Apr 30 1979
MAXIMUM PEAK STAGE			10.48	Apr 20	15.39	Apr 30 1979
ANNUAL RUNOFF (CFSM)	1.39		1.23		1.67	
ANNUAL RUNOFF (INCHES)	18.81		16.65		22.71	
10 PERCENT EXCEEDS	1340		1660		2090	
50 PERCENT EXCEEDS	367		318		422	
90 PERCENT EXCEEDS	202		140		150	



ST. JOHN RIVER BASIN

01013500 FISH RIVER NEAR FORT KENT, ME

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

DRAINAGE AREA.--873 mi².

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

REVISED RECORDS.--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 period of ice effect, Dec. 16 to Mar. 31, which is fair. Satellite gage-height telemeter at station.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,320 ft³/s, Apr. 20, gage height, 7.93 ft; minimum discharge, 79 ft³/s, Sept. 10, gage height, 2.10 ft.

**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	275	481	443	e488	e307	e298	409	4450	2360	824	684	116
2	272	487	488	e474	e305	e296	487	4180	2260	873	664	113
3	267	477	490	e462	e301	e304	544	4090	2210	852	640	108
4	269	470	506	e447	e298	e305	590	3920	2170	919	601	110
5	264	461	528	e434	e294	e293	623	3760	2110	1060	571	99
6	273	450	568	e423	e291	e291	652	3590	2070	1100	523	86
7	268	430	615	e412	e287	e292	685	3600	1980	1230	476	86
8	259	431	628	e400	e284	e297	722	3500	1890	1350	452	85
9	251	451	643	e389	e281	e305	785	3390	1820	1450	426	85
10	245	438	661	e380	e278	e321	1000	3350	1710	1440	403	84
11	240	428	681	e370	e275	e331	1160	3220	1660	1400	385	106
12	233	414	678	e363	e273	e336	1430	3080	1590	1380	363	170
13	227	401	702	e357	e271	e339	2010	2940	1500	1360	340	157
14	226	403	717	e390	e269	e340	2560	2840	1410	1330	324	143
15	222	398	694	e389	e266	e334	3230	2890	1320	1310	310	153
16	217	397	e646	e383	e265	e334	3870	2980	1280	1320	290	148
17	271	386	e635	e377	e261	e333	5060	3030	1230	1350	272	143
18	317	388	e628	e371	e259	e341	6160	3020	1220	1320	271	133
19	282	386	e620	e366	e263	e352	6790	3000	1160	1290	267	130
20	281	388	e612	e361	e268	e368	7230	2950	1110	1300	242	129
21	288	383	e606	e355	e267	e368	7180	2870	1050	1250	226	128
22	319	380	e597	e350	e270	e361	6960	2770	979	1210	218	132
23	323	374	e589	e346	e251	e348	6660	2650	935	1150	203	145
24	373	375	e586	e340	e241	e335	6320	2530	901	1090	194	136
25	385	378	e593	e336	e243	e331	6010	2390	885	1020	184	133
26	459	381	e578	e332	e259	e326	5760	2300	858	963	174	131
27	469	365	e559	e328	e261	e322	5600	2200	944	904	157	129
28	471	366	e544	e324	e294	e318	5280	2110	923	848	146	132
29	483	358	e531	e320	---	e317	4990	2010	877	814	142	125
30	474	393	e516	e315	---	e340	4730	1940	839	771	134	121
31	477	---	e501	e311	---	e368	---	1950	---	722	122	---
TOTAL	9680	12318	18383	11693	7682	10144	105487	93500	43251	35200	10404	3696
MEAN	312	411	593	377	274	327	3516	3016	1442	1135	336	123
MAX	483	487	717	488	307	368	7230	4450	2360	1450	684	170
MIN	217	358	443	311	241	291	409	1940	839	722	122	84
CFSM	0.36	0.47	0.68	0.43	0.31	0.37	4.03	3.45	1.65	1.30	0.38	0.14
IN.	0.41	0.52	0.78	0.50	0.33	0.43	4.49	3.98	1.84	1.50	0.44	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2002, BY WATER YEAR (WY)

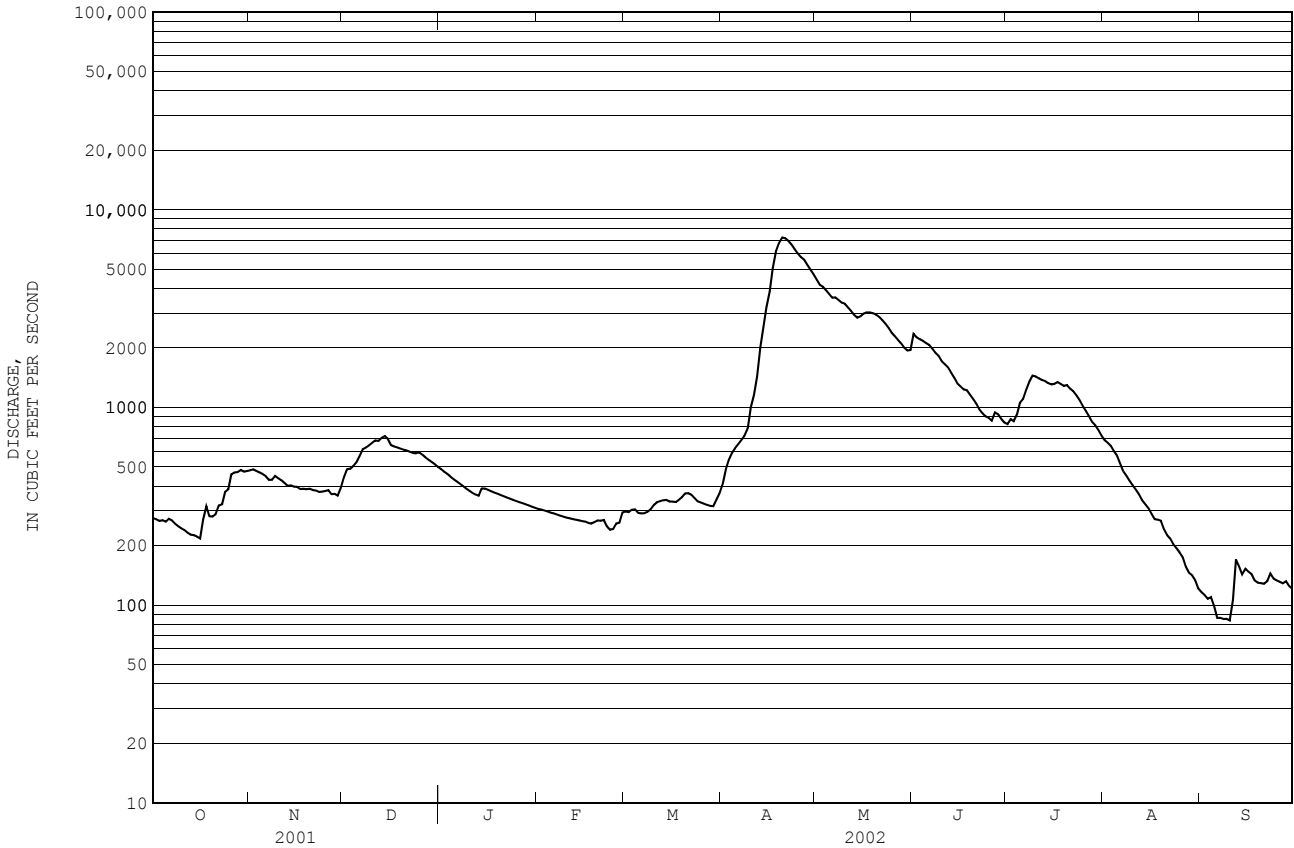
	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	751	1175	1059	623	496	577	3137	5086	1777	950	669	566																																																																																								
MAX	2776	4116	4688	1891	1750	3104	7495	8951	3696	3075	3571	2492																																																																																								
(WY)	1991	1964	1951	1958	1996	1936	1953	1969	1961	1954	1954	1963																																																																																								
MIN	63.1	98.2	103	149	116	107	390	1327	652	294	112	51.7																																																																																								
(WY)	1906	1906	1956	1904	1904	1944	1944	1987	1988	1965	1968	1968																																																																																								

e Estimated

ST. JOHN RIVER BASIN

01013500 FISH RIVER NEAR FORT KENT, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	348443		361438		1413	
ANNUAL MEAN	955		990		2175	
HIGHEST ANNUAL MEAN					773	
LOWEST ANNUAL MEAN					15600	
HIGHEST DAILY MEAN	7500	May 4	7230	Apr 20	15600	Apr 30 1973
LOWEST DAILY MEAN	88	Sep 20	84	Sep 10	42	Oct 4 1995
ANNUAL SEVEN-DAY MINIMUM	96	Sep 16	90	Sep 5	44	Oct 1 1995
MAXIMUM PEAK FLOW			7320		15800	
MAXIMUM PEAK STAGE			7.93		12.43	
INSTANTANEOUS LOW FLOW			79		34	
ANNUAL RUNOFF (CFSM)	1.09		1.13		1.62	
ANNUAL RUNOFF (INCHES)	14.85		15.40		22.00	
10 PERCENT EXCEEDS	1870		2850		3570	
50 PERCENT EXCEEDS	471		426		720	
90 PERCENT EXCEEDS	196		180		225	



ST. JOHN RIVER BASIN

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

(International gaging station)

LOCATION.--Lat 47°15'35", long 68°35'45", Hydrologic Unit 01010001, on left bank at Clair, New Brunswick, Canada and 0.3 miles downstream from Fish River.

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 488.81 ft above National Geodetic Vertical Datum of 1929. October 10, 1933 to August 23, 2001 water stage recorder on right bank in Fort Kent, Maine, at same datum.

REMARKS.--Records good, except for periods of ice effect, Nov. 12-16, Nov.28 to Dec. 2, Dec. 9 to Apr. 13, and period of no gage-height record, Jan. 24 to Feb. 12, 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 ft³/s, Apr. 30, 1979, gage height, 27.31 ft; minimum daily discharge, 510 ft³/s, Mar. 13-15, 1948.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 19	1130	*86,600	*20.50	No other peak greater than base discharge.			

Minimum discharge, 539 ft³/s, Sept. 8-10, gage height, 0.60 ft.

**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	3000	4040	e2850	e2170	e1350	e1440	e2840	18800	11000	8380	4290	714
2	2600	3710	e3400	e2110	e1340	e1500	e4230	17800	16900	21600	4000	691
3	2270	3480	6880	e2070	e1330	e1590	e5870	18000	17300	30500	3560	662
4	2080	3340	8800	e2030	e1310	e1720	e8060	20300	14800	24000	3150	655
5	1900	3280	8220	e1990	e1300	e1860	e9450	22600	12600	21900	2830	641
6	1830	3440	7900	e1940	e1280	e1970	e10300	20900	11300	32800	2580	593
7	1800	3260	8890	e1900	e1270	e2120	e10400	19800	10600	35700	2360	563
8	1980	2980	11100	e1870	e1260	e2260	e9750	20300	9970	29000	2190	547
9	2070	2900	e9420	e1840	e1240	e2460	e9190	20000	9210	21700	2060	560
10	2080	2790	e7610	e1800	e1230	e2640	e8790	18600	8550	17700	1940	557
11	1970	2760	e6590	e1770	e1220	e2790	e9400	17600	7910	16600	1830	663
12	1810	e2740	e5830	e1740	e1200	e2830	e15400	16400	7430	14100	1710	1100
13	1670	e2650	e5260	e1710	e1190	e3490	e25600	14700	7050	11800	1610	1290
14	1560	e2550	e5170	e1690	e1180	e3760	37500	13600	6740	10100	1530	1250
15	1490	e2470	e4980	e1660	e1160	e3830	49200	13300	6200	8960	1460	1160
16	1430	e2600	e4460	e1640	e1150	e3860	54600	14500	5740	8550	1370	1140
17	1720	2790	e3740	e1610	e1140	e3820	62600	17300	5480	7930	1330	1200
18	2360	3460	e3450	e1580	e1130	e3670	75900	18800	5600	7390	1350	1170
19	3240	3760	e3190	e1560	e1130	e3490	85300	17500	6890	6660	1480	1080
20	3590	3530	e2970	e1540	e1120	e3320	82000	15800	8760	6180	1430	1030
21	3460	3300	e2790	e1520	e1130	e3200	72000	14300	7720	5610	1320	1020
22	3250	3120	e2620	e1500	e1140	e3100	56400	13100	6400	5180	1200	1040
23	3030	2990	e2450	e1480	e1170	e2970	42900	11900	5370	4900	1140	1030
24	3160	2860	e2350	e1470	e1190	e2900	34300	10900	5070	4720	1070	988
25	3950	2710	e2730	e1450	e1210	e2810	29100	10100	5060	4370	1010	959
26	6240	2670	e2620	e1430	e1220	e2730	26300	9400	4560	3980	962	918
27	6760	2690	e2520	e1420	e1280	e2670	25600	8960	4610	3570	903	870
28	6710	e2910	e2440	e1400	e1350	e2620	24700	8620	5130	3240	845	888
29	5960	e2830	e2360	e1390	---	e2590	22400	8240	9650	3020	804	907
30	5170	e2480	e2290	e1380	---	e2570	20300	7860	10300	3040	763	896
31	4510	---	e2230	e1360	---	e2550	---	7850	---	3440	729	---
TOTAL	94650	91090	148110	52020	34220	85130	930380	467830	253900	386620	54806	26782
MEAN	3053	3036	4778	1678	1222	2746	31010	15090	8463	12470	1768	893
MAX	6760	4040	11100	2170	1350	3860	85300	22600	17300	35700	4290	1290
MIN	1430	2470	2230	1360	1120	1440	2840	7850	4560	3020	729	547
CFSM	0.54	0.54	0.84	0.30	0.22	0.48	5.47	2.66	1.49	2.20	0.31	0.16
IN.	0.62	0.60	0.97	0.34	0.22	0.56	6.11	3.07	1.67	2.54	0.36	0.18

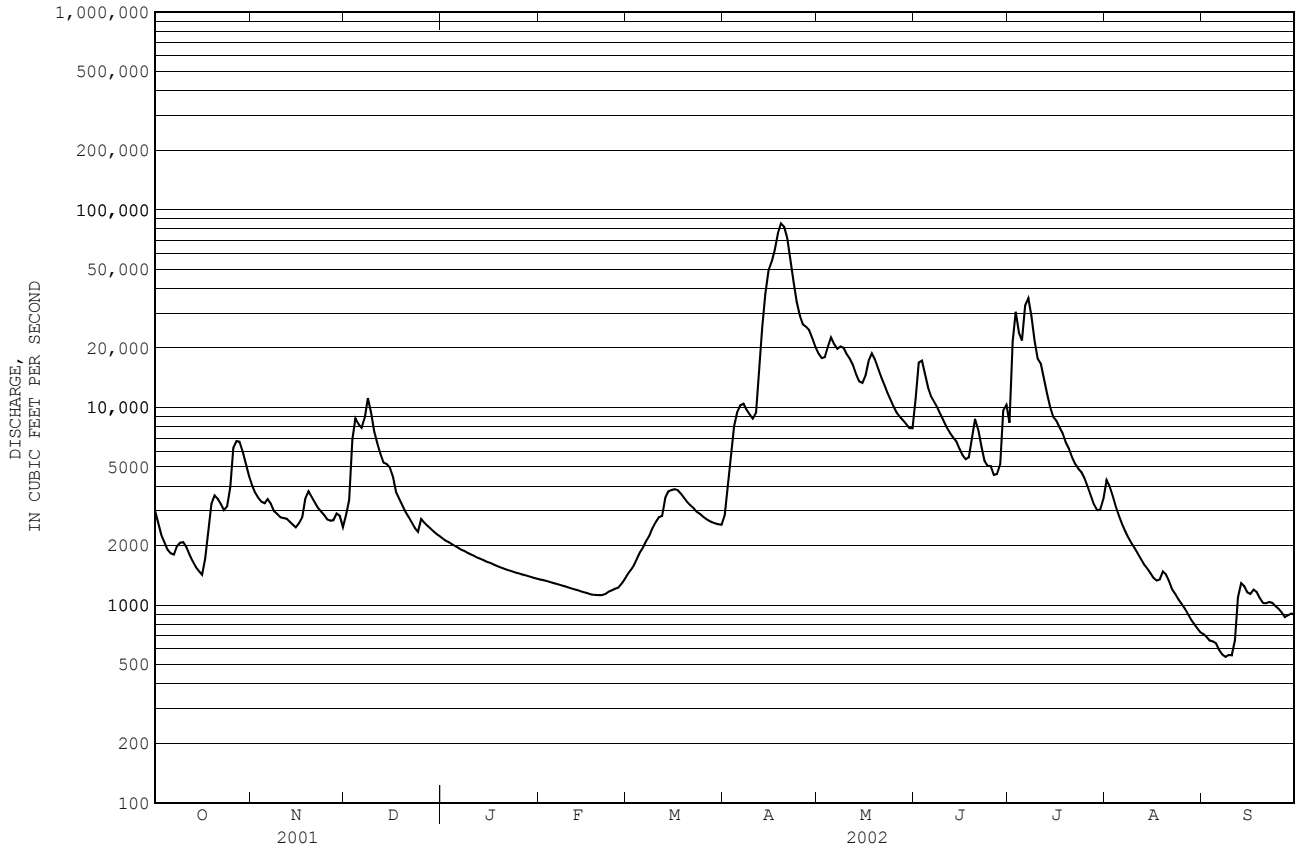
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2002, BY WATER YEAR (WY)

MEAN	6568	8501	5738	3278	2560	3622	25290	33440	10540	6377	5023	4711
MAX	19840	24220	22900	8093	12010	23590	49210	68160	21800	17250	24640	14700
(WY)	1991	1928	1951	1995	1996	1936	1983	1974	1947	1984	1981	1954
MIN	1116	1367	1232	871	562	669	3298	6464	3374	2077	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1927 - 2002	
ANNUAL TOTAL	2582506		2625538		9661	
ANNUAL MEAN	7075		7193		14100	
HIGHEST ANNUAL MEAN					1928	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	93700	Apr 26	85300	Apr 19	146000	Apr 30 1979
LOWEST DAILY MEAN	742	Sep 20	547	Sep 8	510	Mar 13 1948
ANNUAL SEVEN-DAY MINIMUM	808	Sep 16	588	Sep 4	513	Mar 9 1948
MAXIMUM PEAK FLOW			86600		151000	Apr 30 1979
MAXIMUM PEAK STAGE			20.50		27.31	Apr 30 1979
INSTANTANEOUS LOW FLOW			539			
ANNUAL RUNOFF (CFSM)	1.25		1.27		1.71	
ANNUAL RUNOFF (INCHES)	16.96		17.24		23.17	
10 PERCENT EXCEEDS	12300		17900		22900	
50 PERCENT EXCEEDS	3180		2970		4590	
90 PERCENT EXCEEDS	1490		1140		1500	



ST. JOHN RIVER BASIN

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

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

DRAINAGE AREA.---892 mi².

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

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

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

REMARKS.---Records good, except for periods of ice effect, Nov. 7-14, Nov. 21 to Dec. 3, and Dec. 9 to Apr. 12, which are poor. Slight regulation by Millinocket Lake, capacity 1.11 billion ft³, used for power. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 23,100 ft³/s, Apr. 19, 1983, gage height, 17.70 ft; maximum gage height, 18.00 ft, Apr. 18, 1994 (backwater from ice); minimum discharge, 41 ft³/s, Sept. 26-27, 1968, gage height, 1.89 ft.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 13,000 ft³/s, Apr. 19, gage height, 13.87 ft; minimum discharge, 82 ft³/s, Sept. 3, gage height, 2.57 ft.

**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	492	406	e343	e456	e204	e272	e1470	2610	1260	590	483	89
2	399	368	e521	e426	e199	e297	e2000	2510	1560	727	438	86
3	327	353	e731	e407	e197	e345	e2630	2550	1470	1100	387	84
4	273	332	881	e392	e194	e416	e3580	2680	1260	1750	350	104
5	225	317	906	e377	e192	e469	e4750	2540	1080	5110	318	127
6	208	300	980	e365	e189	e487	e5600	2290	972	6530	285	130
7	200	e286	1230	e354	e185	e497	e4680	2130	892	5870	276	114
8	196	e272	1320	e342	e183	e487	e3240	2110	801	4430	276	103
9	189	e280	e978	e333	e180	e469	e2470	2040	740	3360	282	102
10	189	e277	e876	e324	e178	e594	e2930	1970	725	2950	266	100
11	175	e310	e794	e313	e176	e974	e4080	1950	690	2390	240	106
12	161	e297	e715	e303	e174	e1210	e5230	1780	721	1870	216	185
13	148	e276	e647	e298	e171	e1350	6540	1570	719	1480	199	309
14	138	e263	e660	e292	e170	e1370	8750	1480	665	1220	182	311
15	132	286	e559	e284	e168	e1360	11000	2030	592	1080	170	282
16	126	281	e496	e276	e166	e1280	10900	2930	575	1090	165	262
17	143	282	e442	e269	e165	e1160	10900	3200	620	1060	167	266
18	182	284	e403	e264	e162	e1050	12000	2990	642	950	172	264
19	253	274	e371	e258	e162	e986	12800	2670	686	813	170	240
20	300	275	e345	e253	e161	e918	11200	2440	650	724	171	214
21	298	e280	e324	e247	e164	e874	9200	2190	570	671	151	194
22	306	e269	e307	e242	e170	e834	7230	1990	491	603	142	181
23	304	e271	e292	e236	e175	e767	5550	1780	437	555	137	188
24	336	e262	e282	e233	e180	e728	4400	1590	406	702	132	197
25	408	e255	e719	e229	e180	e678	3700	1440	380	725	124	186
26	565	e265	e794	e224	e184	e638	3320	1290	335	617	118	169
27	715	e280	e789	e220	e198	e678	3400	1180	485	508	110	155
28	693	e307	e692	e218	e232	e744	3240	1090	871	442	104	184
29	618	e288	e600	e213	---	e838	2910	989	900	418	98	232
30	524	e268	e537	e211	---	e911	2770	924	729	472	95	244
31	457	---	e492	e207	---	e1110	---	1030	---	512	92	---
TOTAL	9680	8764	20026	9066	5059	24791	172470	61963	22924	51319	6516	5408
MEAN	312	292	646	292	181	800	5749	1999	764	1655	210	180
MAX	715	406	1320	456	232	1370	12800	3200	1560	6530	483	311
MIN	126	255	282	207	161	272	1470	924	335	418	92	84
CFSM	0.35	0.33	0.72	0.33	0.20	0.90	6.45	2.24	0.86	1.86	0.24	0.20
IN.	0.40	0.37	0.84	0.38	0.21	1.03	7.19	2.58	0.96	2.14	0.27	0.23

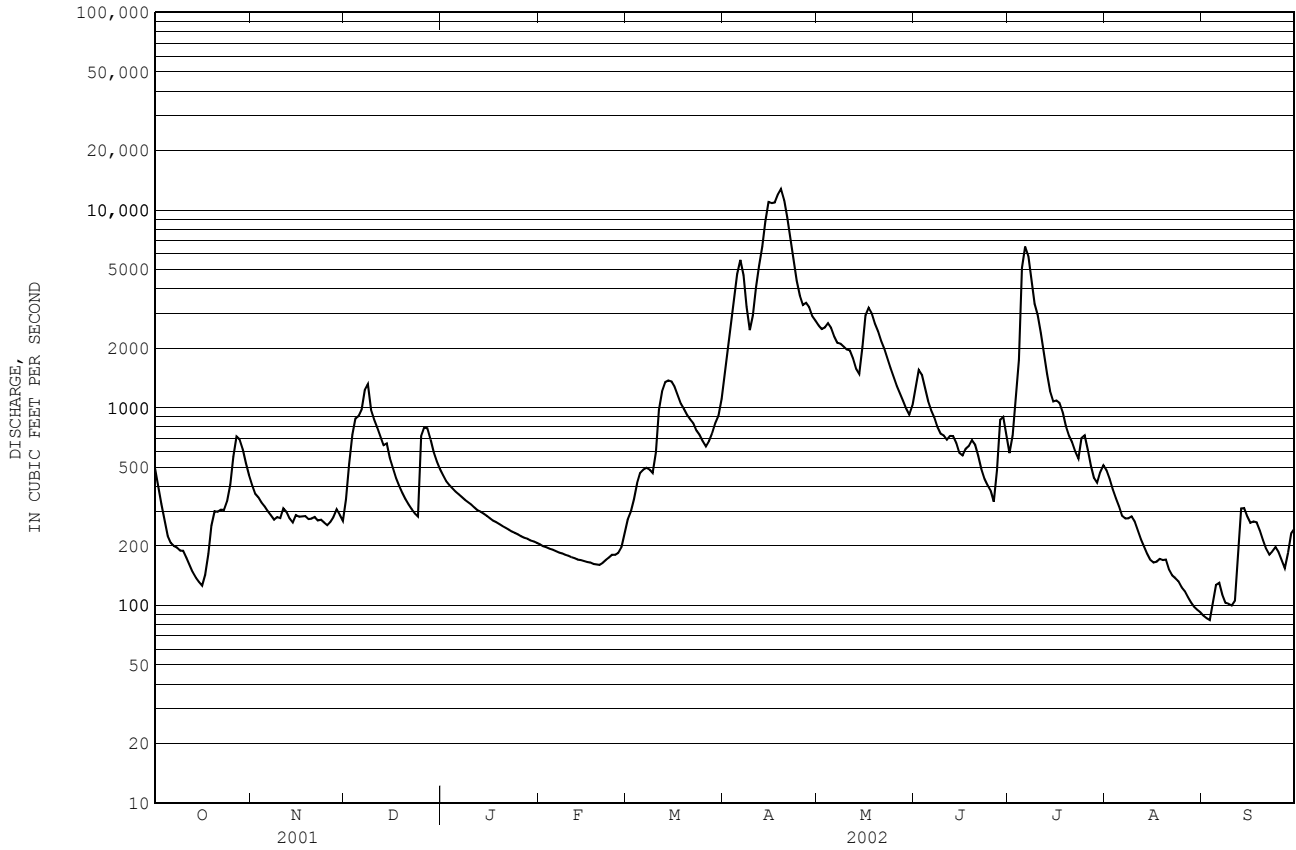
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2002, BY WATER YEAR (WY)

MEAN	1009	1396	1036	608	603	820	4567	4361	1286	697	592	657
MAX	4451	5212	2823	1576	2085	3749	10380	11250	3591	2089	2380	2939
(WY)	1982	1964	1958	1996	1996	1979	1976	1961	1984	1962	1981	1999
MIN	201	292	242	257	181	198	1055	1061	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

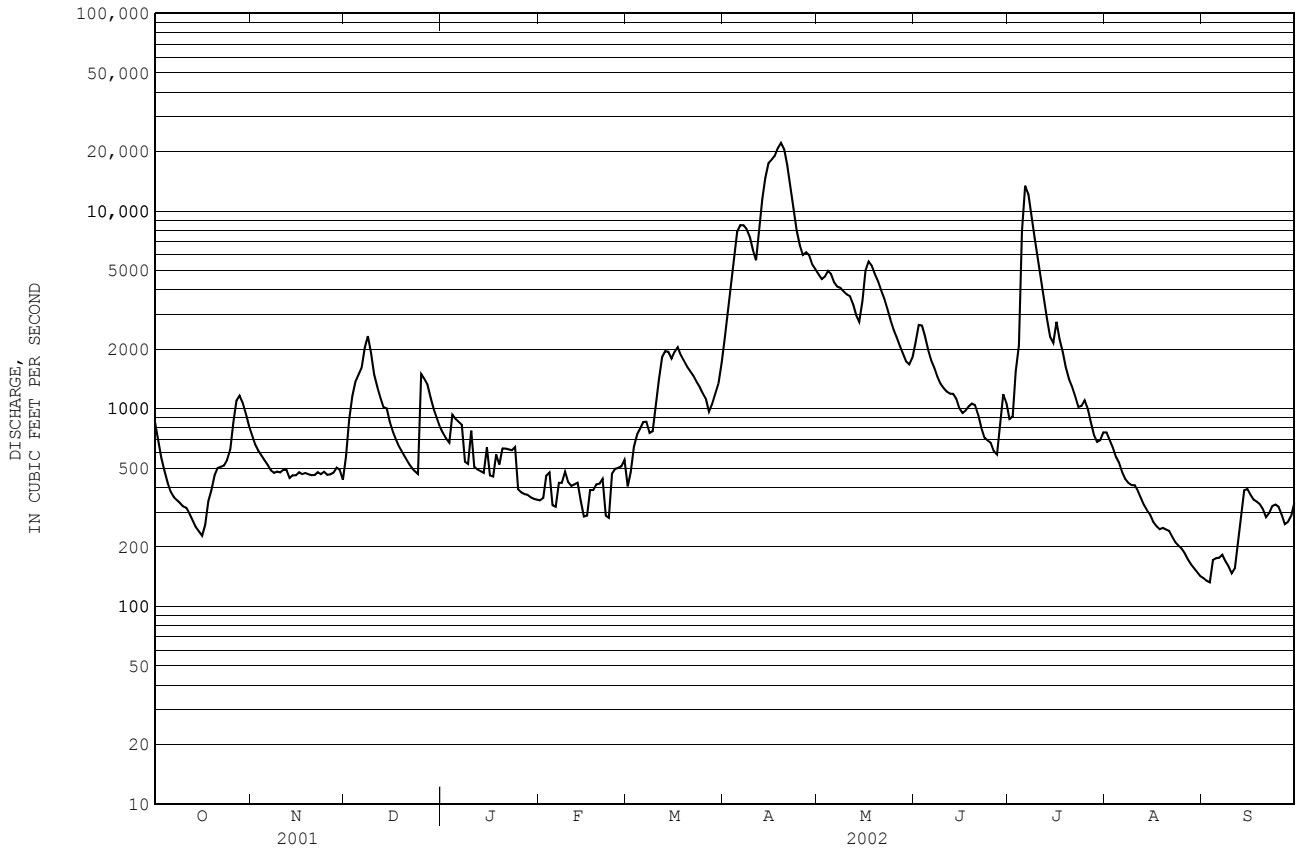
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1957 - 2002	
ANNUAL TOTAL	319469		397986		1470	
ANNUAL MEAN	875		1090		2133	
HIGHEST ANNUAL MEAN					818	
LOWEST ANNUAL MEAN					2133	
HIGHEST DAILY MEAN	15000	Apr 26	12800	Apr 19	22100	Apr 19 1983
LOWEST DAILY MEAN	57	Aug 26	84	Sep 3	42	Sep 27 1968
ANNUAL SEVEN-DAY MINIMUM	68	Aug 21	93	Aug 28	44	Sep 26 1968
MAXIMUM PEAK FLOW			13000		23100	
MAXIMUM PEAK STAGE			13.87		18.00	
INSTANTANEOUS LOW FLOW			82		41	
ANNUAL RUNOFF (CFSM)	0.98		1.22		1.65	
ANNUAL RUNOFF (INCHES)	13.32		16.60		22.40	
10 PERCENT EXCEEDS	1590		2670		3660	
50 PERCENT EXCEEDS	374		407		650	
90 PERCENT EXCEEDS	106		167		219	



ST. JOHN RIVER BASIN

01017000 AROOSTOOK RIVER AT WASHBURN, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1930 - 2002	
ANNUAL TOTAL	586733		705603		2646	
ANNUAL MEAN	1607		1933		4145	
HIGHEST ANNUAL MEAN					1954	
LOWEST ANNUAL MEAN					1409	
HIGHEST DAILY MEAN	25400	Apr 26	22200	Apr 19	42500	Apr 19 1983
LOWEST DAILY MEAN	106	Sep 19	133	Sep 3	75	Feb 13 1948
ANNUAL SEVEN-DAY MINIMUM	114	Sep 16	145	Aug 28	78	Feb 9 1948
MAXIMUM PEAK FLOW			22500		43400	
MAXIMUM PEAK STAGE			9.90		20.91	
10 PERCENT EXCEEDS	2890		4990	Apr 19		Dec 24 1973
50 PERCENT EXCEEDS	813		699			
90 PERCENT EXCEEDS	191		281			



ST. JOHN RIVER BASIN

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 mi².

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

GAGES.--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 periods of ice effect, Dec. 17 to Mar. 11, Mar.23-29, period of no gage-height record, Jan. 2-15, and periods of doubtful stage-discharge relation, May 28 to July 1, July 10-16, and Aug.3-12, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135 ft³/s, Apr. 23, 2001, gage height, 4.22 ft; minimum discharge, 0.19 ft³/s, Aug. 16 and 25, 2001, gage height, 1.10 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 4	2230	*100	*3.64	No other peak greater than base discharge.			

Minimum daily discharge, 0.32 ft³/s, Jan. 9.

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	0.81	1.1	1.6	e0.47	e0.39	e1.9	14	7.7	e5.5	e0.95	1.3	0.52
2	0.81	1.1	3.6	e0.43	e0.38	e2.9	33	7.3	e4.7	4.5	1.3	0.51
3	0.63	1.1	2.5	e0.42	e0.38	e3.8	41	8.9	e4.2	2.8	e1.2	0.53
4	0.66	1.0	2.2	e0.40	e0.38	e4.8	47	8.1	e3.9	23	e1.1	1.4
5	0.64	1.0	2.2	e0.38	e0.38	e5.5	37	6.7	e4.1	34	e1.1	1.4
6	0.78	1.0	2.9	e0.36	e0.38	e5.8	26	6.4	e4.3	9.8	e1.6	0.78
7	1.3	1.1	3.0	e0.35	e0.37	e5.4	18	6.6	e3.5	6.2	e7.1	0.57
8	0.92	0.92	1.9	e0.33	e0.37	e5.4	14	8.9	e2.9	4.4	e2.8	0.55
9	0.73	0.94	1.3	e0.32	e0.37	e4.2	22	6.7	e2.6	4.6	e1.9	0.61
10	0.68	1.3	1.1	e0.35	e0.37	e4.8	65	8.2	e2.4	e3.3	e1.5	0.59
11	0.62	1.1	1.1	e0.39	e0.39	e7.8	48	6.5	e2.8	e2.5	e1.2	2.4
12	0.64	0.94	1.1	e0.42	e0.38	12	36	5.1	e3.3	e2.0	e1.0	4.8
13	0.57	0.75	1.0	e0.46	e0.37	12	42	4.5	e2.7	e1.9	0.99	1.8
14	0.58	0.69	1.3	e0.50	e0.36	8.3	34	6.4	e2.3	e2.5	1.0	1.3
15	0.60	0.77	1.2	e0.49	e0.36	7.0	23	15	e2.0	e4.0	0.73	1.2
16	0.67	1.1	0.97	e0.47	e0.36	6.2	22	13	e2.7	e5.7	0.61	1.4
17	1.1	1.0	e0.77	e0.45	e0.37	5.8	28	8.6	e2.9	3.9	0.62	1.3
18	2.3	0.77	e0.67	e0.44	e0.36	4.4	34	6.6	e2.9	2.8	0.59	0.98
19	1.3	0.83	e0.61	e0.43	e0.35	3.6	22	8.9	e2.7	2.2	0.60	0.84
20	1.1	1.0	e0.55	e0.42	e0.36	3.2	18	7.2	e1.9	2.6	0.56	0.73
21	1.2	1.0	e0.51	e0.42	e0.37	3.0	13	6.2	e1.4	1.9	0.72	0.74
22	1.4	0.80	e0.47	e0.41	e0.38	2.9	11	5.6	e1.2	1.7	0.54	0.66
23	0.81	0.72	e0.45	e0.41	e0.36	e2.6	9.7	4.8	e1.1	2.1	0.62	0.77
24	1.4	0.74	e0.46	e0.41	e0.36	e2.3	9.1	4.9	e1.7	2.2	0.53	0.78
25	1.8	0.88	e1.2	e0.41	e0.36	e2.0	8.6	4.9	e1.5	1.6	0.53	0.64
26	4.7	1.2	e1.0	e0.40	e0.37	e1.9	8.9	4.6	e1.3	1.4	0.51	0.60
27	2.1	1.3	e0.85	e0.40	e0.44	e2.6	10	4.5	e1.7	1.4	0.52	0.58
28	1.6	1.1	e0.72	e0.39	e0.95	e2.2	7.8	e4.0	e1.5	1.4	0.47	1.6
29	1.3	0.81	e0.63	e0.40	---	e2.2	8.6	e3.9	e1.3	1.5	0.37	1.1
30	1.2	0.79	e0.57	e0.39	---	3.4	8.4	e3.8	e1.1	1.5	0.39	0.82
31	1.1	---	e0.51	e0.39	---	6.9	---	e6.1	---	1.4	0.54	---
TOTAL	36.05	28.85	38.94	12.71	11.02	146.8	719.1	210.6	78.1	141.75	34.54	32.50
MEAN	1.16	0.96	1.26	0.41	0.39	4.74	24.0	6.79	2.60	4.57	1.11	1.08
MAX	4.7	1.3	3.6	0.50	0.95	12	65	15	5.5	34	7.1	4.8
MIN	0.57	0.69	0.45	0.32	0.35	1.9	7.8	3.8	1.1	0.95	0.37	0.51
CFSM	0.30	0.25	0.33	0.11	0.10	1.24	6.27	1.78	0.68	1.20	0.29	0.28
IN.	0.35	0.28	0.38	0.12	0.11	1.43	7.00	2.05	0.76	1.38	0.34	0.32

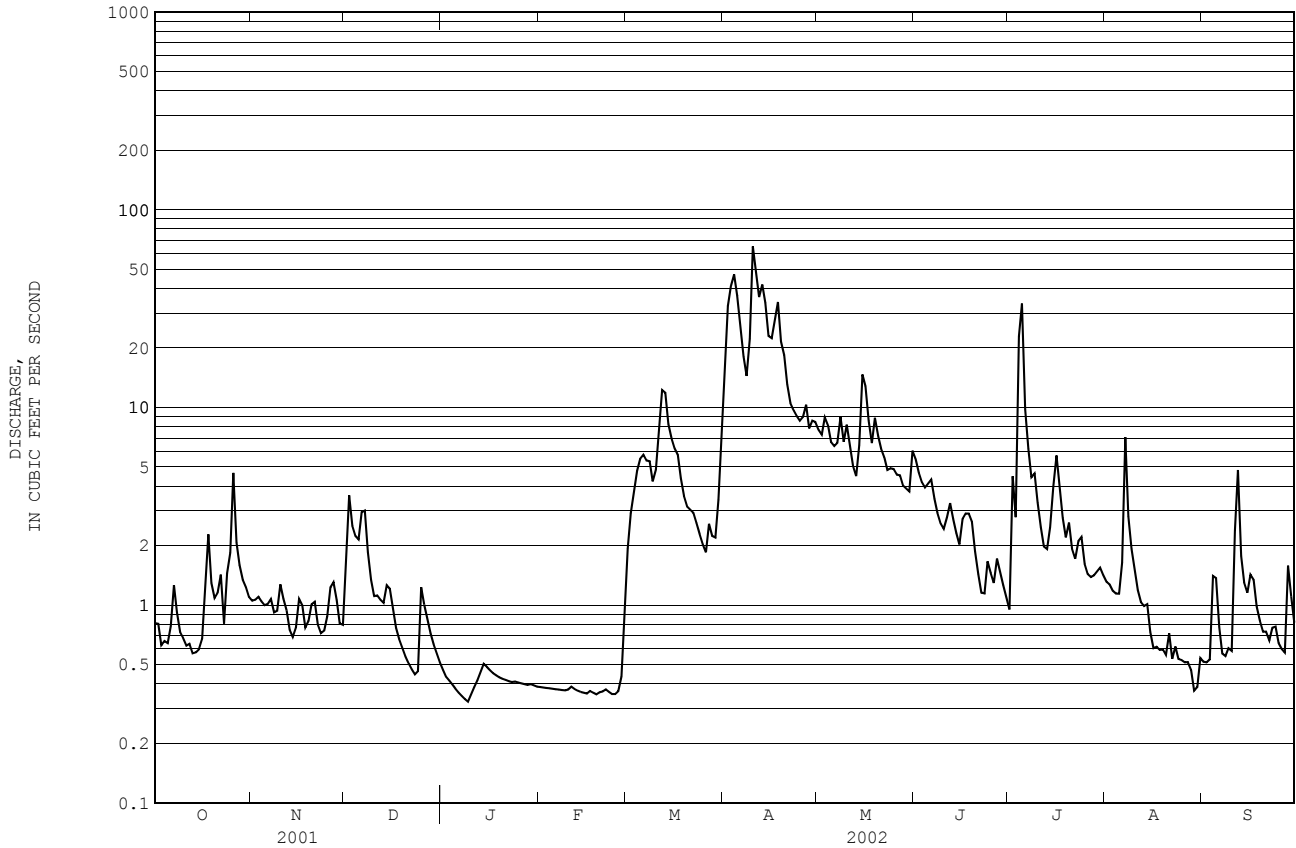
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	1.12	3.85	4.46	1.33	0.99	7.22	24.2	8.30	2.81	2.70	0.87	0.96
MAX	1.16	8.16	8.19	2.33	1.62	16.2	28.3	12.4	3.12	4.57	1.11	1.16
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2001	2002	2002	2001
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

e Estimated

01017550 WILLIAMS BROOK AT PHAIR, ME--Continued

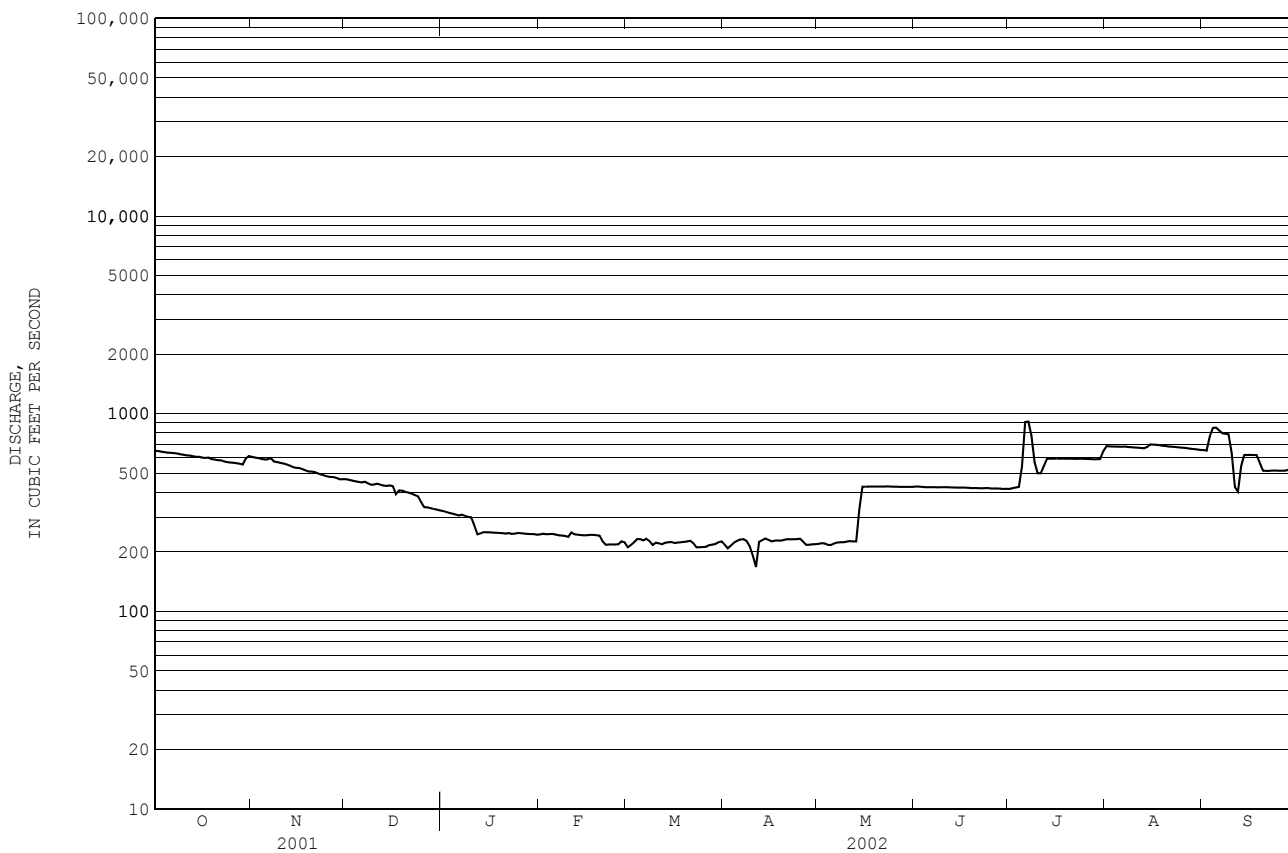
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2000 - 2002	
ANNUAL TOTAL	1165.82		1490.96		3.81	
ANNUAL MEAN	3.19		4.08		4.08	
HIGHEST ANNUAL MEAN					3.53	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	117	Apr 23	65	Apr 10	117	Apr 23 2001
LOWEST DAILY MEAN	0.24	Aug 25	0.32	Jan 9	0.24	Aug 25 2001
ANNUAL SEVEN-DAY MINIMUM	0.27	Sep 14	0.35	Jan 5	0.27	Sep 14 2001
MAXIMUM PEAK FLOW			100	Jul 4	135	Apr 23 2001
MAXIMUM PEAK STAGE			3.64	Jul 4	4.22	Apr 23 2001
INSTANTANEOUS LOW FLOW					0.19	Aug 16 2001
ANNUAL RUNOFF (CFSM)	0.84		1.07		1.00	
ANNUAL RUNOFF (INCHES)	11.35		14.52		13.55	
10 PERCENT EXCEEDS	5.8		8.7		7.8	
50 PERCENT EXCEEDS	1.0		1.3		1.2	
90 PERCENT EXCEEDS	0.44		0.39		0.40	



ST. CROIX RIVER BASIN

01018500 ST. CROIX RIVER AT VANCEBORO, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	164369		156741		715	
ANNUAL MEAN	450		429		1203	
HIGHEST ANNUAL MEAN					335 1985	
LOWEST ANNUAL MEAN					6210 Jun 3 1984	
HIGHEST DAILY MEAN	930	Sep 1	913	Jul 7	1.9 Oct 12 1936	
LOWEST DAILY MEAN	215	Apr 18	168	Apr 11	2.0 Oct 11 1936	
ANNUAL SEVEN-DAY MINIMUM	225	Apr 17	213	Apr 7	6730 Jun 3 1984	
MAXIMUM PEAK FLOW			1330 Apr 12		11.28 Jun 3 1984	
MAXIMUM PEAK STAGE			6.29 Apr 12			
10 PERCENT EXCEEDS	658		669		1360	
50 PERCENT EXCEEDS	454		427		590	
90 PERCENT EXCEEDS	237		223		225	



ST. CROIX RIVER BASIN

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

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

DRAINAGE AREA.--227 mi².

PERIOD OF RECORD.--Discharge: October 1928 to current year. 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. 23, Jan. 8, 13-14, 17, 19, 24, 30, Feb. 2-3, 5-6, and Feb.10-14. Flow completely regulated by Grand Lake, 0.8 mi upstream, and other lakes, combined usable capacity about 8.25 billion ft³. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft³/s, Apr. 25, 1983, gage height, 6.69 ft; minimum daily discharge, 5 ft³/s, Dec. 3-6, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 685 ft³/s, Sept. 30, gage height, 3.26 ft; minimum daily discharge, 105 ft³/s, Jan. 9-13.

**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	222	122	114	109	112	122	120	126	240	247	201	221
2	203	122	113	108	e111	122	109	127	240	248	201	221
3	203	122	113	107	e112	126	113	128	242	247	202	219
4	203	122	113	108	112	128	114	127	244	248	202	204
5	202	122	113	107	e112	119	113	126	244	250	202	203
6	200	124	113	106	e112	111	113	128	246	219	203	201
7	200	124	113	106	113	111	113	128	244	203	203	200
8	199	120	113	e106	111	111	113	128	244	203	203	200
9	195	120	111	105	111	111	114	125	244	203	202	200
10	194	120	111	105	e111	115	115	301	244	203	202	200
11	194	120	111	105	e113	115	115	520	246	203	202	202
12	193	120	111	105	e113	116	115	514	248	202	202	317
13	192	117	111	e105	e113	117	117	448	248	201	202	408
14	192	117	111	e111	e113	117	120	384	247	201	202	406
15	192	115	112	111	113	117	121	388	248	202	202	407
16	192	116	111	111	113	120	120	359	250	203	202	408
17	181	115	111	e111	113	120	122	282	250	203	202	468
18	150	113	111	111	113	120	122	240	250	202	202	521
19	133	113	111	e111	113	120	122	240	250	202	201	517
20	128	114	111	110	112	120	122	240	249	203	201	514
21	128	114	111	109	113	119	121	240	249	202	201	511
22	128	113	111	110	113	116	120	240	249	202	201	508
23	128	113	e111	109	113	117	121	241	249	203	201	508
24	128	113	108	e110	113	117	122	244	250	203	200	508
25	128	113	111	111	113	117	122	242	247	203	200	506
26	128	113	111	111	113	117	123	240	247	202	200	503
27	128	113	111	111	120	124	123	240	247	202	199	502
28	127	113	109	111	125	124	122	240	248	201	197	508
29	126	113	109	111	---	124	124	240	247	202	197	505
30	126	113	109	e111	---	127	125	240	247	202	213	614
31	123	---	109	111	---	128	---	240	---	202	222	---
TOTAL	5166	3509	3448	3373	3169	3688	3556	7706	7398	6517	6270	11410
MEAN	167	117	111	109	113	119	119	249	247	210	202	380
MAX	222	124	114	111	125	128	125	520	250	250	222	614
MIN	123	113	108	105	111	111	109	125	240	201	197	200

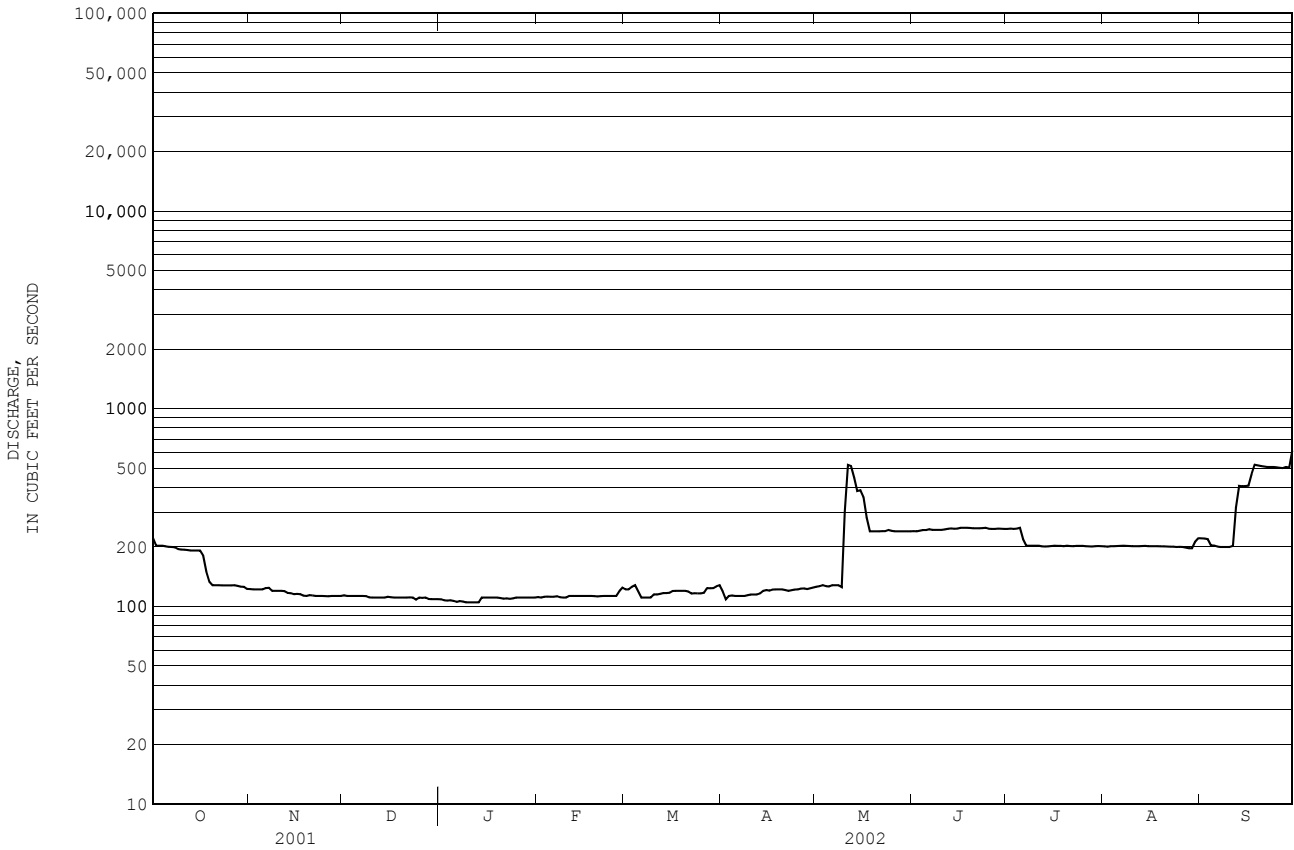
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	339	211	243	359	472	456	337	402	445	421	471	453	890	666	1261	1096	1330	1117	1248	1127	1159	843	1173	933	1948	1982	1960	1970	1964	1960	1936	1945	1971	1959	1952	1942	84.5	39.4	20.3	87.8	47.5	39.4	49.7	17.7	54.9	102	129	103	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	71479		65210			
ANNUAL MEAN	196		179		385	
HIGHEST ANNUAL MEAN					697 1960	
LOWEST ANNUAL MEAN					178 1931	
HIGHEST DAILY MEAN	461	Aug 21	614	Sep 30	2580	Apr 26 1983
LOWEST DAILY MEAN	108	Dec 24	105	Jan 9	5.0	Dec 3 1945
ANNUAL SEVEN-DAY MINIMUM	110	Dec 24	105	Jan 7	6.4	Dec 1 1945
MAXIMUM PEAK FLOW			685 Sep 30		2870 Apr 25 1983	
MAXIMUM PEAK STAGE			3.26 Sep 30		6.69 Apr 25 1983	
10 PERCENT EXCEEDS	338		249		810	
50 PERCENT EXCEEDS	140		126		288	
90 PERCENT EXCEEDS	113		111		120	



ST. CROIX RIVER BASIN

01021000 ST. CROIX RIVER AT BARING, ME

(International gaging station)

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

DRAINAGE AREA.--1,374 mi².

PERIOD OF RECORD.--Discharge: October 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. 1-5, 24-26, Feb. 1-3, 6-7, and 10-14, which are fair. Flow regulated by Chiputneticook Lakes, Grand Lake, and other lakes, combined capacity 25 billion ft³. Final regulation is at Woodland, 5.6 mi upstream from gage. Telephone and satellite gage-height telemeters at station.

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 1, 1923 has been estimated as 24,100 ft³/s at Baring, based on flows for the St. Croix River near Baileyville (station 01020000); gage height unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,010 ft³/s, Apr. 5, gage height, 9.56 ft; minimum daily discharge, 543 ft³/s, Feb. 7 and 10-11.

**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	948	872	868	e774	e578	3690	4550	1330	1180	787	1170	889
2	952	930	866	e774	e578	3910	6660	1270	981	997	1040	945
3	1040	895	861	e774	e578	5060	8210	1420	968	881	957	950
4	1050	887	868	e774	580	5970	8580	1930	951	865	1150	924
5	1030	895	868	e774	573	5230	8690	2360	953	1760	1050	898
6	976	907	834	781	e553	4490	8560	2480	929	3220	1370	892
7	917	887	854	787	e543	3830	7590	2720	924	3410	1370	894
8	994	883	850	783	547	3540	5540	2510	908	3200	1250	895
9	981	876	813	787	546	3390	4380	2480	931	3060	1290	897
10	1010	872	813	770	e543	3130	3160	2350	889	2260	1260	914
11	1360	884	807	621	e543	3370	3150	2190	891	1830	1260	1260
12	1110	885	799	592	e553	3340	3050	2050	895	1860	1350	1130
13	982	893	793	592	e573	3280	3130	1670	894	1840	1340	937
14	982	877	794	609	e603	3240	3430	2110	890	1650	1350	1030
15	1020	1380	810	589	612	3180	3970	2040	891	1580	1120	987
16	1090	958	808	584	666	3170	4450	2090	920	1540	972	1360
17	1090	886	805	571	598	2970	4420	2350	927	1590	848	1830
18	1010	887	829	563	608	2800	4370	2330	948	1590	834	1520
19	1200	875	834	563	588	2190	3900	2000	849	1530	848	1520
20	988	895	828	561	638	2360	3450	1840	823	1580	879	1490
21	1100	879	816	560	629	2320	3250	2120	819	1580	930	1500
22	1010	868	792	565	708	2290	3180	2010	816	1580	1000	1390
23	996	871	808	558	801	2080	3130	1810	800	1570	1060	1520
24	968	874	797	e563	800	2020	3050	1960	808	1410	994	1610
25	962	874	823	e563	681	1930	3030	1730	820	1360	946	1510
26	1010	874	805	e563	673	2050	3040	1370	820	1300	988	1580
27	976	877	806	563	1250	3060	2880	1140	804	1020	942	2050
28	925	899	785	563	4020	3490	2520	1170	795	1040	886	2110
29	907	913	781	563	---	3330	2160	1250	805	1220	889	1960
30	873	883	779	597	---	3280	1330	1360	802	1120	890	1740
31	862	---	774	616	---	3490	---	1230	---	952	889	---
TOTAL	31319	27136	25368	19897	21163	101480	130810	58670	26631	51182	33122	39132
MEAN	1010	905	818	642	756	3274	4360	1893	888	1651	1068	1304
MAX	1360	1380	868	787	4020	5970	8690	2720	1180	3410	1370	2110
MIN	862	868	774	558	543	1930	1330	1140	795	787	834	889

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY)

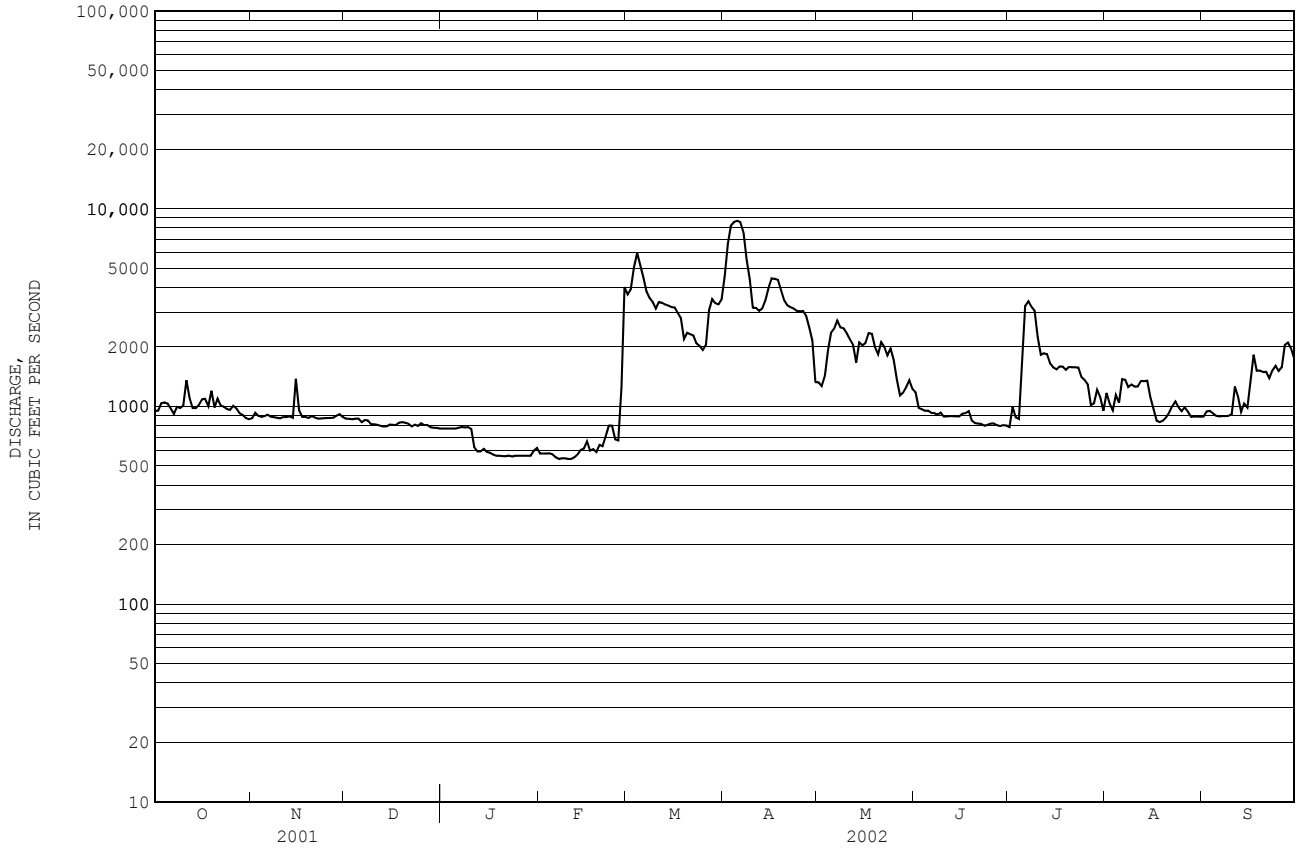
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002					
MEAN	1794	2248	2637	2307	2643	3091	5232	3679	2311	1714	1591	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656					
MAX	3865	5679	8397	5303	6031	8009	9438	7403	6054	5042	2987	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269	3269
(WY)	1982	1964	1960	1978	1978	1998	1976	1989	1977	1996	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981
MIN	555	381	818	642	756	1236	2024	1076	888	652	636	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855	855
(WY)	1965	1965	2002	2002	2002	1993	1985	1987	2002	1966	1966	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978	1978

e Estimated

ST. CROIX RIVER BASIN

01021000 ST. CROIX RIVER AT BARING, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1960 - 2002	
ANNUAL TOTAL	492984		565910		2572	
ANNUAL MEAN	1351		1550		3863	
HIGHEST ANNUAL MEAN					1280	
LOWEST ANNUAL MEAN					1960	
HIGHEST DAILY MEAN	11000	Apr 26	8690	Apr 5	23200	May 29 1961
LOWEST DAILY MEAN	774	Dec 31	543	Feb 7	262	Oct 20 1964
ANNUAL SEVEN-DAY MINIMUM	793	Dec 25	547	Feb 6	327	Nov 6 1964
MAXIMUM PEAK FLOW			9010	Apr 5	23500	May 29 1961
MAXIMUM PEAK STAGE			9.56	Apr 5	12.76	May 29 1961
10 PERCENT EXCEEDS	1940		3230		4790	
50 PERCENT EXCEEDS	976		976		2100	
90 PERCENT EXCEEDS	829		611		948	



ST. CROIX RIVER BASIN

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 mi².

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 July 2-12 and Aug. 20 to Sept. 9, which are fair, June 24-28, July 13-23, July 31 to Aug. 14, which are poor, for dissolved oxygen.

EXTREMES FOR PERIOD OF DAILY RECORD.--

Specific conductance: Maximum, 375 mS/cm, Mar. 6, 1989; minimum, 23 mS/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, 141 mS/cm, June 24; minimum, 61 mS/cm, July 7-8.
pH: Maximum, 7.1 units, on many days during period; minimum, 6.5 units, on many days during period.
Water temperature: Maximum, 28.4°C, July 4; minimum, 15.1°C, June 6.
Dissolved oxygen: Maximum, 8.5 mg/L, Sept. 29-30; minimum, 4.9 mg/L, Aug. 19.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	95	78	87	139	107	128	117	106	112	114	109	112
2	100	85	92	138	114	127	113	94	100	114	108	111
3	114	100	108	122	111	117	114	96	108	113	106	109
4	117	109	114	124	118	121	119	108	115	110	105	108
5	127	114	123	132	122	126	110	93	99	116	110	114
6	128	120	123	123	65	76	115	93	106	116	108	113
7	131	125	128	66	61	65	95	90	92	110	105	107
8	131	124	128	64	61	63	100	95	98	112	105	109
9	125	120	123	67	62	65	110	99	105	116	108	110
10	124	116	120	68	63	66	109	101	103	119	112	114
11	122	115	119	77	68	74	111	106	108	117	110	114
12	119	114	117	80	75	78	110	102	106	110	79	90
13	120	114	118	79	74	77	104	98	102	111	78	91
14	121	114	118	83	77	80	101	97	99	121	111	118
15	120	112	117	92	83	88	103	97	101	119	112	116
16	117	107	111	96	91	93	117	103	111	125	117	120
17	120	115	118	99	91	95	126	114	119	126	85	106
18	118	110	114	96	92	94	136	126	131	97	84	88
19	114	110	112	99	92	95	138	133	135	103	96	99
20	119	109	114	99	94	96	136	130	133	100	94	97
21	124	116	120	96	92	94	136	134	135	102	92	98
22	132	122	126	94	89	92	134	123	129	102	92	97
23	134	124	128	92	86	89	124	114	119	105	100	102
24	141	132	136	92	85	89	121	112	114	102	97	100
25	135	126	130	96	91	94	126	121	123	100	90	93
26	128	119	124	95	91	93	129	124	126	95	89	92
27	133	118	126	100	90	94	124	119	123	95	78	85
28	139	128	133	109	100	107	122	118	119	78	75	77
29	138	129	132	112	107	109	120	114	118	81	75	78
30	137	133	135	109	96	101	119	114	116	86	74	79
31	---	---	---	106	95	102	116	113	114	---	---	---
MONTH	141	78	120	139	61	93	138	90	114	126	74	102

ST. CROIX RIVER BASIN

67

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.8	18.0	18.3	24.1	21.9	23.3	24.6	23.4	24.2	22.2	20.9	21.5
2	18.5	16.8	17.9	23.3	19.2	21.7	23.7	22.9	23.3	21.4	20.4	20.9
3	16.8	15.8	16.3	27.2	23.3	25.1	23.4	23.0	23.2	21.2	20.6	20.9
4	17.6	15.3	16.5	28.4	25.7	27.0	24.4	23.0	23.8	20.9	20.6	20.8
5	17.8	15.3	16.9	27.3	25.4	26.4	25.1	24.3	24.6	21.3	20.5	20.9
6	16.3	15.1	15.6	25.4	23.3	23.8	24.6	22.8	23.6	21.0	19.7	20.4
7	17.0	16.1	16.5	24.0	22.8	23.4	22.8	22.4	22.6	21.6	19.9	20.6
8	18.0	16.1	17.1	24.6	22.7	23.6	23.4	22.3	22.8	22.6	20.8	21.5
9	19.0	17.6	18.0	24.3	23.0	23.7	23.7	23.1	23.4	23.2	21.6	22.2
10	18.9	17.5	18.2	24.0	22.7	23.3	23.8	23.3	23.6	23.8	21.8	22.7
11	18.4	16.4	17.8	23.3	21.5	22.0	24.7	23.3	23.9	22.9	20.1	22.2
12	16.4	15.5	15.8	22.9	20.8	21.7	24.7	23.9	24.3	20.1	18.2	18.8
13	18.1	15.2	16.5	22.9	21.7	22.4	25.3	24.0	24.4	18.6	17.6	18.0
14	19.8	18.1	19.0	22.9	21.7	22.4	25.9	25.2	25.4	19.1	17.7	18.4
15	19.1	16.4	18.3	22.9	22.0	22.3	26.3	25.9	26.0	19.2	18.6	18.9
16	16.4	15.6	15.8	22.2	21.2	21.7	26.3	25.2	26.0	18.6	17.8	18.3
17	16.3	15.7	16.0	23.2	21.5	22.2	27.0	25.2	26.0	19.2	17.6	18.3
18	17.3	16.1	16.6	23.3	22.3	22.8	27.4	26.2	26.7	19.2	18.2	18.7
19	19.3	17.1	18.3	23.1	22.3	22.5	27.8	26.4	26.9	19.1	18.1	18.6
20	21.3	18.5	19.8	22.4	21.3	21.7	26.7	25.4	26.4	19.2	18.4	18.8
21	22.6	20.4	21.3	23.2	20.9	21.8	25.7	24.5	25.1	19.9	18.8	19.1
22	22.7	20.5	21.7	23.2	21.8	22.6	25.3	23.8	24.7	20.0	19.4	19.7
23	22.2	20.0	20.9	24.2	22.4	23.1	24.0	23.0	23.6	20.2	19.4	19.8
24	22.1	19.9	21.1	24.1	22.6	23.3	23.9	22.7	23.3	19.4	18.9	19.0
25	21.8	19.5	20.6	24.0	23.3	23.6	23.1	22.3	22.6	19.4	18.3	18.8
26	23.2	20.6	21.7	23.9	23.2	23.5	23.6	22.0	22.9	19.4	18.5	18.9
27	24.3	22.1	23.0	23.2	21.6	22.6	24.0	23.0	23.4	19.0	18.1	18.4
28	25.6	23.2	24.0	23.0	21.6	22.3	23.3	22.2	22.8	18.5	17.8	18.1
29	25.1	23.4	24.2	23.2	21.7	22.6	23.4	22.0	22.6	18.1	16.5	17.1
30	25.3	23.6	24.4	22.4	21.7	22.1	23.4	22.1	22.6	17.1	15.8	16.4
31	---	---	---	24.2	22.2	23.2	22.4	21.5	22.0	---	---	---
MONTH	25.6	15.1	18.9	28.4	19.2	23.0	27.8	21.5	24.1	23.8	15.8	19.6

ST. CROIX RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.2	7.8	7.9	6.4	5.7	6.1	6.8	6.4	6.7	8.3	7.1	7.7
2	7.9	7.2	7.6	6.8	5.8	6.4	7.0	6.6	6.8	8.2	7.0	7.7
3	8.2	7.6	8.0	6.6	5.8	6.2	7.1	6.3	6.7	7.9	6.8	7.4
4	8.3	7.9	8.1	6.2	5.5	6.0	6.8	6.3	6.6	7.2	6.4	6.9
5	8.1	7.5	7.8	6.8	5.8	6.1	6.8	6.3	6.6	7.4	6.4	6.8
6	7.8	7.4	7.6	6.7	6.2	6.5	6.9	6.4	6.6	7.9	7.1	7.4
7	7.7	7.4	7.6	7.2	6.3	6.8	7.1	6.8	7.0	8.2	6.9	7.6
8	8.0	7.6	7.8	7.3	6.6	6.9	7.2	6.7	6.9	8.1	6.3	7.3
9	8.0	7.5	7.8	7.1	6.7	6.9	7.1	6.6	6.8	7.9	6.5	7.3
10	7.9	7.6	7.7	7.0	6.6	6.8	7.1	6.4	6.7	8.0	6.5	7.2
11	7.8	7.3	7.6	7.1	6.6	6.8	7.0	6.4	6.7	7.4	6.1	6.9
12	7.7	7.4	7.6	7.2	6.8	7.0	7.0	6.1	6.5	8.0	7.0	7.5
13	8.0	7.6	7.8	7.2	6.8	7.0	6.7	6.1	6.4	8.4	7.3	7.9
14	7.7	7.2	7.5	7.0	6.7	6.9	6.7	5.8	6.2	7.7	6.6	7.3
15	7.8	7.2	7.4	7.0	6.6	6.8	6.3	5.6	5.9	7.2	6.6	6.9
16	7.8	7.4	7.6	6.8	6.6	6.7	6.1	5.3	5.8	7.3	6.8	7.1
17	7.8	7.4	7.5	7.0	6.7	6.8	6.0	5.2	5.7	8.0	7.3	7.6
18	7.7	7.4	7.5	7.0	6.6	6.8	6.1	5.2	5.7	8.0	7.6	7.7
19	7.7	7.0	7.4	6.9	6.5	6.7	5.9	4.9	5.5	8.0	7.5	7.7
20	7.4	6.7	7.1	6.9	6.6	6.7	5.9	5.1	5.6	8.0	7.4	7.6
21	7.2	6.7	7.0	7.0	6.7	6.8	6.2	5.2	5.9	7.8	7.4	7.6
22	7.3	6.5	6.9	7.1	6.6	6.8	6.5	5.8	6.2	7.8	7.3	7.5
23	7.4	6.6	7.1	7.2	6.7	6.9	7.0	6.2	6.5	7.5	7.1	7.3
24	7.3	6.8	7.1	7.2	6.6	6.9	7.2	6.4	6.9	7.4	6.9	7.2
25	7.5	6.8	7.2	7.3	6.6	6.9	7.1	6.1	6.6	7.7	7.2	7.4
26	7.5	6.8	7.1	7.2	6.6	6.9	7.2	6.2	6.7	7.8	7.3	7.5
27	7.3	6.4	6.9	7.2	6.4	6.8	7.4	6.9	7.2	7.7	7.3	7.5
28	7.2	6.2	6.7	6.9	6.5	6.7	7.8	6.9	7.4	8.1	7.7	7.9
29	6.8	6.2	6.5	6.8	6.2	6.5	8.2	6.9	7.5	8.5	7.8	8.1
30	6.8	6.0	6.4	6.4	6.3	6.4	8.1	6.9	7.5	8.5	8.1	8.3
31	---	---	---	6.8	6.4	6.6	7.9	7.0	7.5	---	---	---
MONTH	8.3	6.0	7.4	7.3	5.5	6.7	8.2	4.9	6.6	8.5	6.1	7.5



Water-quality station
St. Croix River at Milltown, Maine
October, 2002

DENNYS RIVER BASIN

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 mi².

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 doubtful stage-discharge relation, Oct. 5-10, Nov. 9-15, and Sept. 20-25, which are fair. Flow regulated by dam at outlet of Meddybemps Lake, 14 mi upstream, usable capacity about 1.507 billion ft³. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 3,930 ft³/s, Apr. 29, 1973, gage height, 9.35 ft (from rating curve extended above 1,600 ft³/s); minimum daily discharge, 8.6 ft³/s, Sept. 30, 1957.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 1,830 ft³/s, Feb. 28, gage height, 6.16 ft; minimum daily discharge, 16 ft³/s, Nov. 5-6.

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	38	37	58	50	59	1070	599	348	121	87	50	43
2	38	35	58	45	60	642	695	332	117	154	48	42
3	37	23	54	44	58	508	533	359	115	173	46	43
4	37	17	50	41	57	859	491	336	109	118	46	47
5	e37	16	48	37	55	588	373	268	107	105	45	46
6	e36	16	46	38	54	350	288	223	116	88	45	44
7	e35	19	44	41	54	239	223	195	111	81	49	42
8	e37	37	42	42	53	180	179	185	96	78	47	42
9	e36	e37	40	40	52	148	165	168	92	72	45	42
10	e35	e37	37	40	52	221	184	173	113	68	43	42
11	35	e41	35	39	118	373	173	175	108	63	44	43
12	37	e40	33	39	211	280	146	157	131	60	51	55
13	37	e38	34	40	225	207	135	147	141	58	54	50
14	36	e37	36	51	193	175	417	190	124	56	53	45
15	37	e37	39	55	170	159	524	275	109	57	52	42
16	37	37	36	54	151	143	490	249	144	62	52	50
17	60	37	35	52	150	122	387	221	158	64	51	54
18	58	36	34	50	139	109	338	213	138	60	50	49
19	50	34	36	48	122	95	305	234	118	57	50	45
20	42	34	37	47	108	85	288	210	104	57	50	e42
21	40	35	36	45	107	87	254	184	98	55	49	e41
22	38	35	34	44	191	94	222	166	94	53	48	e39
23	37	33	32	45	259	86	203	150	89	51	48	e44
24	37	32	34	52	235	80	201	140	87	50	47	e51
25	38	31	82	67	195	74	192	134	82	49	51	e44
26	38	31	109	74	168	75	205	128	79	48	51	39
27	37	33	96	71	482	382	267	127	92	48	48	38
28	37	34	80	67	1580	876	252	124	96	48	46	67
29	36	35	70	66	---	632	249	120	99	49	44	82
30	35	47	60	64	---	492	306	118	92	54	45	67
31	35	---	55	62	---	562	---	121	---	53	44	---
TOTAL	1203	991	1520	1550	5358	9993	9284	6170	3280	2176	1492	1420
MEAN	38.8	33.0	49.0	50.0	191	322	309	199	109	70.2	48.1	47.3
MAX	60	47	109	74	1580	1070	695	359	158	173	54	82
MIN	35	16	32	37	52	74	135	118	79	48	43	38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2002, BY WATER YEAR (WY)

MEAN	111	192	213	190	191	262	437	275	166	101	73.6	78.4
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

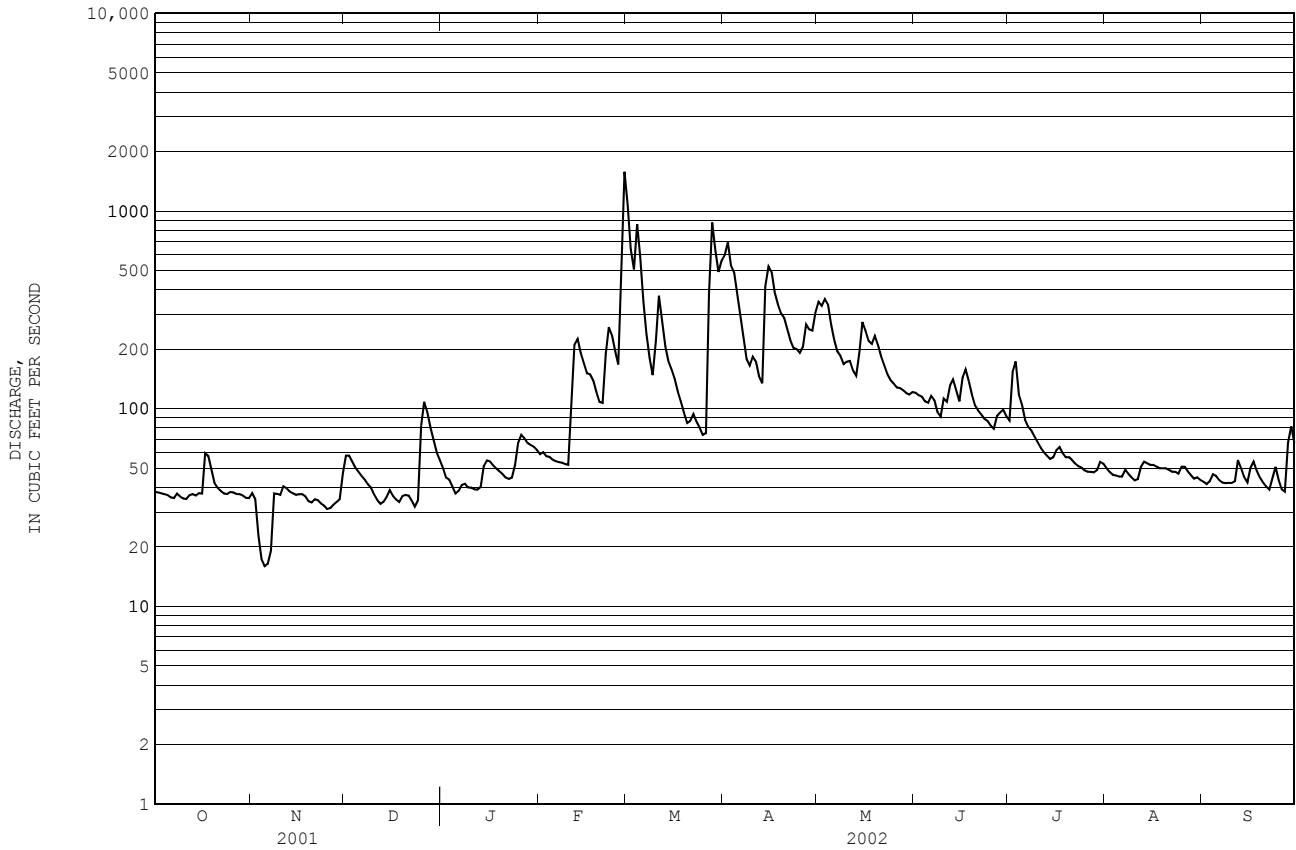
01021200 DENNY'S RIVER AT DENNYVILLE, ME--Continued

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1956 - 2002

ANNUAL TOTAL	44437		
ANNUAL MEAN	122		191
HIGHEST ANNUAL MEAN			292 1973
LOWEST ANNUAL MEAN			96.0 1985
HIGHEST DAILY MEAN	1580	Feb 28	3350 Apr 29 1973
LOWEST DAILY MEAN	16	Nov 5	8.6 Sep 30 1957
ANNUAL SEVEN-DAY MINIMUM	23	Nov 1	9.5 Sep 25 1957
MAXIMUM PEAK FLOW	1830	Feb 28	3930 Apr 29 1973
MAXIMUM PEAK STAGE	6.16	Feb 28	9.35 Apr 29 1973
10 PERCENT EXCEEDS	262		415
50 PERCENT EXCEEDS	57		130
90 PERCENT EXCEEDS	36		44



MACHIAS RIVER BASIN

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 mi².

PERIOD OF RECORD.---Discharge: October 2001 to September 2002.

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 ft³/s, period of doubtful stage-discharge relation, Oct. 6-11, which are fair, and period of ice effect, Dec. 30 to Feb. 26, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 12	0815	Ice Jam	*4.25	Apr 1	2215	*164	3.44

Minimum discharge, 0.71 ft³/s, Oct. 4-6 and 12, gage height, 1.45 ft.

**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	1.3	2.9	8.2	e8.7	e9.0	89	136	75	27	13	7.0	1.4
2	1.1	3.1	7.8	e8.2	e8.6	72	154	74	26	19	6.3	1.2
3	0.86	3.0	6.5	e7.8	e8.3	87	147	81	24	22	6.1	1.4
4	0.75	2.9	5.4	e7.4	e8.0	124	154	77	22	21	6.0	2.1
5	0.74	2.4	4.5	e7.1	e7.7	108	138	68	22	28	5.8	2.0
6	e0.90	3.3	3.8	e6.7	e7.6	91	124	61	27	24	5.0	1.5
7	e0.92	3.3	3.3	e6.6	e7.4	81	114	56	27	22	3.6	1.3
8	e0.85	2.1	2.9	e6.3	e7.3	73	103	53	24	19	2.7	1.2
9	e0.88	3.4	2.8	e6.0	e7.3	68	98	49	22	17	2.7	1.0
10	e0.83	3.2	2.6	e5.8	e8.5	89	98	54	21	15	2.8	0.92
11	e0.84	3.3	2.5	e5.6	e29	107	90	52	21	13	2.8	1.0
12	0.81	2.8	2.5	e5.5	e77	92	82	47	27	12	2.8	2.5
13	0.82	2.5	2.9	e5.4	e65	82	77	44	29	10	2.7	1.7
14	0.94	2.4	3.5	e8.7	e56	78	120	59	25	9.7	2.6	1.4
15	1.2	2.3	4.0	e9.7	e48	74	142	68	23	9.8	2.3	1.3
16	1.2	2.4	3.6	e9.4	e42	70	138	59	27	11	2.2	2.5
17	2.9	2.1	3.3	e9.0	e36	65	125	55	26	10	2.3	2.4
18	2.3	2.0	4.7	e8.6	e31	60	127	53	24	9.8	2.1	1.8
19	2.0	2.0	5.3	e8.3	e27	56	119	54	24	9.3	2.0	1.5
20	1.8	2.2	4.1	e8.1	e24	53	108	49	22	9.1	1.9	1.3
21	1.5	2.2	5.0	e7.9	e25	58	97	45	19	8.6	1.9	1.2
22	1.5	2.1	4.4	e7.7	e25	57	87	43	18	8.0	1.6	1.2
23	1.4	2.0	4.4	e7.7	e24	52	80	40	17	7.7	1.7	1.8
24	1.8	2.0	6.1	e9.6	e23	49	74	37	16	7.7	1.6	2.0
25	1.8	2.1	25	e12	e23	47	68	36	14	7.2	1.8	1.7
26	2.1	2.5	23	e12	e22	45	73	33	13	6.7	2.1	1.4
27	2.0	2.7	18	e11	52	84	77	31	19	6.5	1.7	1.2
28	1.8	2.8	13	e11	105	109	69	30	18	6.3	1.4	4.7
29	1.5	2.8	11	e10	---	96	72	28	16	6.9	1.4	4.6
30	1.5	6.0	e9.9	e9.7	---	101	75	28	14	7.8	1.7	3.0
31	1.6	---	e9.2	e9.4	---	120	---	27	---	7.7	1.7	---
TOTAL	42.44	80.8	213.2	256.9	813.7	2437	3166	1566	654	384.8	90.3	54.22
MEAN	1.37	2.69	6.88	8.29	29.1	78.6	106	50.5	21.8	12.4	2.91	1.81
MAX	2.9	6.0	25	12	105	124	154	81	29	28	7.0	4.7
MIN	0.74	2.0	2.5	5.4	7.3	45	68	27	13	6.3	1.4	0.92
CFSM	0.07	0.14	0.37	0.44	1.55	4.18	5.61	2.69	1.16	0.66	0.15	0.10
IN.	0.08	0.16	0.42	0.51	1.61	4.82	6.26	3.10	1.29	0.76	0.18	0.11

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

	2001	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MEAN	1.37	2.69	6.88	8.29	29.1	78.6	106	50.5	21.8	12.4	2.91	1.81
MAX	1.37	2.69	6.88	8.29	29.1	78.6	106	50.5	21.8	12.4	2.91	1.81
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	1.37	2.69	6.88	8.29	29.1	78.6	106	50.5	21.8	12.4	2.91	1.81
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

e Estimated

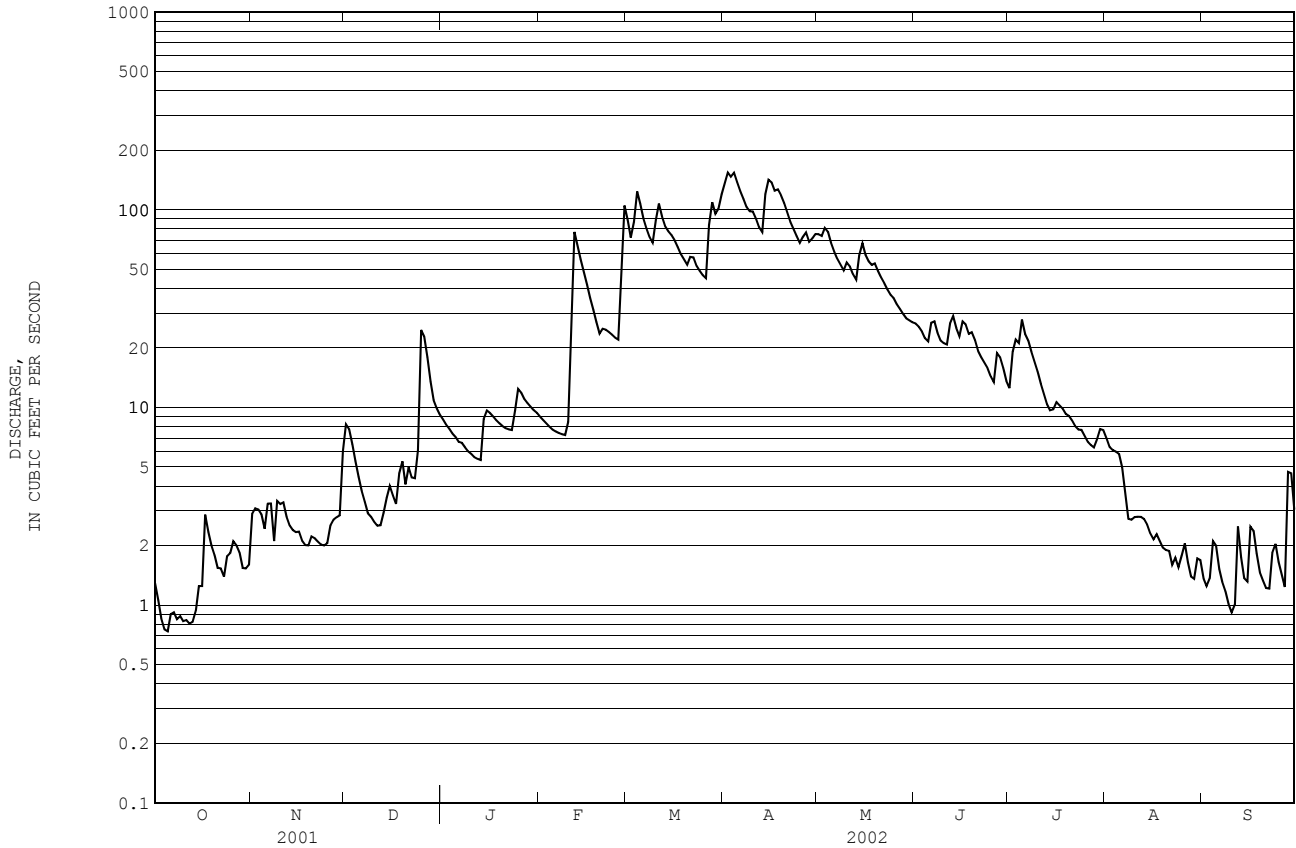
01021452 MOPANG STREAM NEAR BEDDINGTON, ME--Continued

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	9759.36		
ANNUAL MEAN	26.7		26.7
HIGHEST ANNUAL MEAN			26.7 2002
LOWEST ANNUAL MEAN			26.7 2002
HIGHEST DAILY MEAN	154	Apr 2	154 Apr 2 2002
LOWEST DAILY MEAN	0.74	Oct 5	0.74 Oct 5 2001
ANNUAL SEVEN-DAY MINIMUM	0.84	Oct 4	0.84 Oct 4 2001
MAXIMUM PEAK FLOW	164	Apr 1	164 Apr 1 2002
MAXIMUM PEAK STAGE	4.25	Feb 12	4.25 Feb 12 2002
INSTANTANEOUS LOW FLOW	0.71	Oct 4	0.71 Oct 4 2001
ANNUAL RUNOFF (CFSM)	1.42		1.42
ANNUAL RUNOFF (INCHES)	19.31		19.32
10 PERCENT EXCEEDS	81		81
50 PERCENT EXCEEDS	8.6		8.6
90 PERCENT EXCEEDS	1.5		1.5



MACHIAS RIVER BASIN

01021466 BLACK BROOK NEAR NORTHFIELD, ME

LOCATION.--Lat 44°48'30", long 67°45'07", Washington County, Hydrologic Unit 01050002, on right bank 0.9 mi upstream of mouth.

DRAINAGE AREA.--1.59 mi².

PERIOD OF RECORD.--Discharge: July 2000 to September 2001 (Discontinued).

GAGE.--Water-stage recorder. Datum of gage is 177.59 ft above North American Vertical Datum of 1988.

REMARKS.--Records fair, except for period of doubtful stage-discharge relation, July 29 to Sept. 30, 2001, which is poor. Satellite gage-height telemeter at station. Records for water years 2000 and 2001 have not been previously published and are given below.

EXTREMES FOR PERIOD.--Maximum discharge, 6.7 ft³/s, Dec. 17, gage height, 1.63 ft; maximum gage height, 2.05 ft, Sept. 26, 2001 (backwater from debris); minimum discharge, 0.20 ft³/s, Sept. 11-13, 2001.

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	0.68	1.2	0.74	1.5	2.2	0.93	2.3	3.1	1.4	0.92	e0.49	e0.49
2	0.59	1.1	0.66	1.2	1.4	0.91	1.7	3.2	1.8	0.93	e0.45	e0.39
3	0.56	0.89	0.59	1.2	1.1	0.89	1.5	3.0	3.8	0.92	e0.43	e0.33
4	0.60	0.71	0.57	1.1	0.95	0.85	1.4	2.6	3.9	0.81	e0.42	e0.28
5	0.54	0.87	0.61	1.1	0.96	0.86	2.2	2.7	3.4	0.88	e0.47	e0.24
6	2.2	1.0	0.78	2.0	2.4	1.2	2.4	2.9	2.5	0.97	e0.51	e0.22
7	1.6	0.92	0.71	2.3	1.3	0.96	2.3	3.0	1.8	0.88	e0.46	e0.21
8	0.90	0.86	0.64	1.2	1.1	0.83	2.4	2.7	1.6	0.96	e0.40	e0.21
9	0.80	0.76	0.63	1.2	1.1	0.84	3.2	2.8	1.6	1.1	e0.36	e0.21
10	1.4	0.71	0.64	1.4	3.1	2.5	4.2	3.0	1.2	1.2	e0.43	e0.23
11	0.95	0.71	0.80	1.5	2.2	1.5	4.4	2.7	1.0	1.1	e0.30	e0.20
12	0.75	0.58	2.6	1.4	1.2	1.1	4.7	3.0	1.5	0.72	e0.30	e0.20
13	0.65	0.55	1.6	1.3	1.1	1.4	5.6	2.7	1.5	0.71	e0.32	e0.20
14	0.68	0.84	1.5	1.2	1.2	1.5	5.0	2.8	1.2	0.62	e0.36	e0.21
15	0.50	2.9	1.1	1.1	3.1	1.2	4.7	2.9	1.0	0.91	e0.32	e0.23
16	0.47	1.3	0.80	1.1	1.6	0.99	4.6	2.9	0.91	0.93	e0.28	e0.24
17	0.48	0.90	4.5	0.99	1.4	1.0	4.4	2.7	1.2	0.85	e0.26	e0.22
18	0.55	0.63	5.0	1.0	1.1	1.0	5.1	2.6	3.1	1.0	e0.42	e0.22
19	1.7	0.56	1.8	1.1	0.99	0.91	4.9	3.8	1.6	0.96	e0.31	e0.24
20	0.91	0.65	4.3	1.1	0.95	2.2	4.5	3.3	1.3	0.94	e0.30	e0.27
21	0.62	0.77	2.5	0.94	1.1	2.2	4.3	2.6	1.1	0.70	e0.32	e0.37
22	0.46	0.84	1.9	0.89	0.96	3.1	4.5	2.1	0.95	0.60	e0.38	e1.5
23	0.62	0.75	1.8	0.89	0.96	4.1	4.3	1.6	1.4	0.62	e0.27	e0.93
24	0.65	0.69	1.4	0.96	0.93	2.0	4.3	1.5	1.4	0.56	e0.25	e0.57
25	0.55	0.62	1.7	0.94	0.97	2.5	3.9	1.8	2.0	0.58	e0.23	e0.47
26	0.50	1.2	1.6	0.89	1.5	1.6	3.7	1.6	1.3	0.64	e0.23	e2.7
27	0.70	3.9	1.4	0.89	1.2	1.5	3.7	1.5	0.88	0.57	e0.26	e1.7
28	0.60	1.8	1.4	0.91	1.0	1.6	3.2	2.2	0.88	0.64	e0.30	e1.1
29	0.81	1.2	1.3	0.88	---	1.2	2.9	2.8	0.87	e0.68	e0.41	e0.86
30	1.6	0.91	1.1	1.1	---	1.9	3.0	1.9	0.85	e0.62	e0.33	e0.73
31	1.9	---	2.6	1.8	---	4.3	---	1.6	---	e0.55	e0.29	---
TOTAL	26.52	31.32	49.27	37.08	39.07	49.57	109.3	79.6	48.94	25.07	10.86	15.97
MEAN	0.86	1.04	1.59	1.20	1.40	1.60	3.64	2.57	1.63	0.81	0.35	0.53
MAX	2.2	3.9	5.0	2.3	3.1	4.3	5.6	3.8	3.9	1.2	0.51	2.7
MIN	0.46	0.55	0.57	0.88	0.93	0.83	1.4	1.5	0.85	0.55	0.23	0.20
CFSM	0.54	0.66	1.00	0.75	0.88	1.01	2.29	1.61	1.03	0.51	0.22	0.33
IN.	0.62	0.73	1.15	0.87	0.91	1.16	2.56	1.86	1.15	0.59	0.25	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	0.86	1.04	1.59	1.20	1.40	1.60	3.64	2.57	1.63	1.83	0.96	0.77
MAX	0.86	1.04	1.59	1.20	1.40	1.60	3.64	2.57	1.63	2.85	1.56	1.00
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000
MIN	0.86	1.04	1.59	1.20	1.40	1.60	3.64	2.57	1.63	0.81	0.35	0.53
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

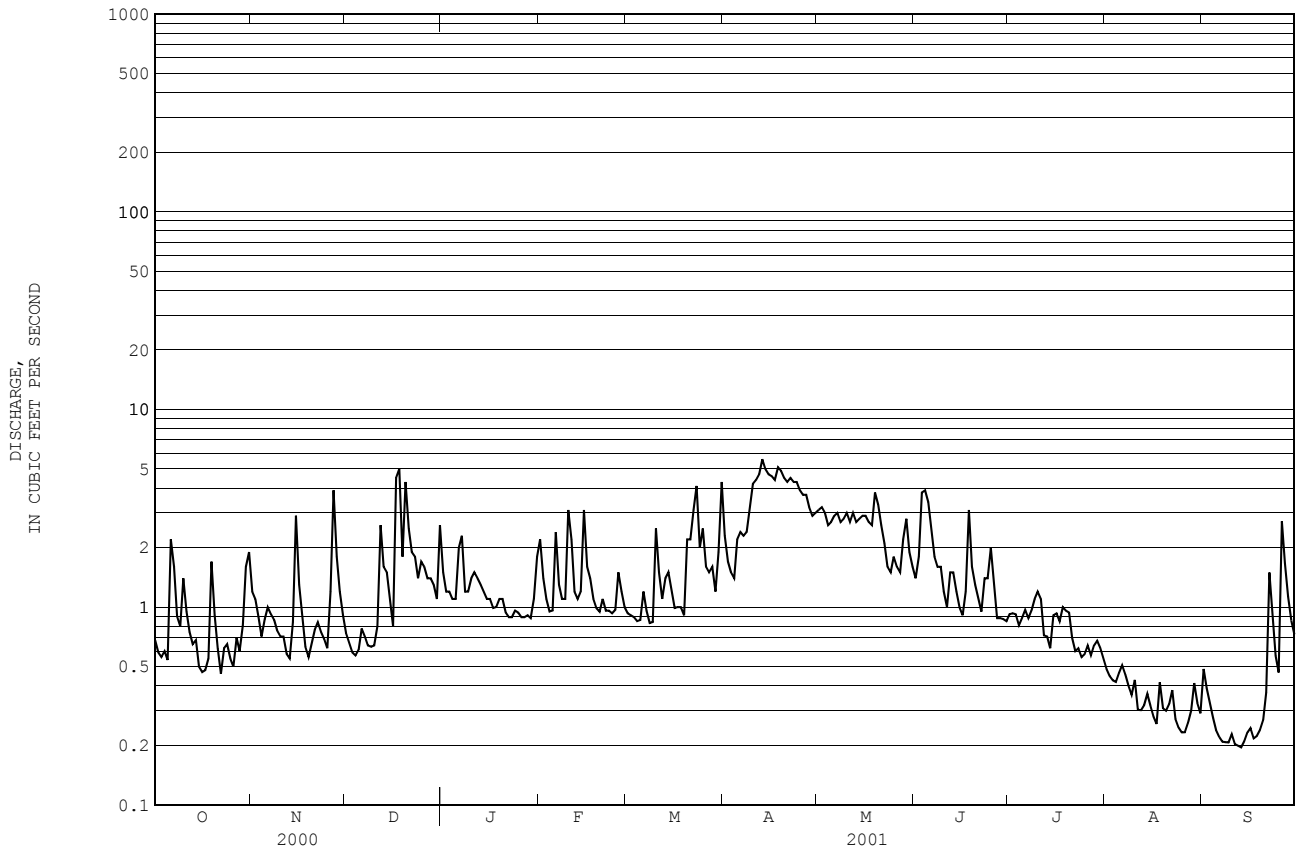
ANNUAL TOTAL	522.57		
ANNUAL MEAN	1.43	1.43	
HIGHEST ANNUAL MEAN		1.43	2001
LOWEST ANNUAL MEAN		1.43	2001
HIGHEST DAILY MEAN	5.6	Apr 13	2001
LOWEST DAILY MEAN	0.20	Sep 11	2001
ANNUAL SEVEN-DAY MINIMUM	0.21	Sep 7	2001
MAXIMUM PEAK FLOW	6.7	Dec 17	2000
MAXIMUM PEAK STAGE	2.05	Sep 26	2001
ANNUAL RUNOFF (CFSM)	0.90		
ANNUAL RUNOFF (INCHES)	12.23		
10 PERCENT EXCEEDS	3.1		
50 PERCENT EXCEEDS	1.0		
90 PERCENT EXCEEDS	0.36		

e Estimated

01021466 BLACK BROOK NEAR NORTHFIELD, ME--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	4.5	1.4	0.78
2	---	---	---	---	---	---	---	---	---	3.8	1.7	1.3
3	---	---	---	---	---	---	---	---	---	3.0	2.3	1.3
4	---	---	---	---	---	---	---	---	---	3.3	2.2	1.4
5	---	---	---	---	---	---	---	---	---	3.2	1.9	1.1
6	---	---	---	---	---	---	---	---	---	3.1	1.6	1.1
7	---	---	---	---	---	---	---	---	---	3.7	1.8	1.0
8	---	---	---	---	---	---	---	---	---	3.4	2.1	0.97
9	---	---	---	---	---	---	---	---	---	2.7	2.0	0.77
10	---	---	---	---	---	---	---	---	---	3.8	2.7	0.78
11	---	---	---	---	---	---	---	---	---	4.9	1.8	0.76
12	---	---	---	---	---	---	---	---	---	3.8	1.5	0.85
13	---	---	---	---	---	---	---	---	---	2.8	1.7	1.9
14	---	---	---	---	---	---	---	---	---	2.8	1.5	1.0
15	---	---	---	---	---	---	---	---	3.7	2.7	1.9	1.7
16	---	---	---	---	---	---	---	---	3.7	3.5	2.3	3.2
17	---	---	---	---	---	---	---	---	3.7	5.2	2.3	1.3
18	---	---	---	---	---	---	---	---	3.7	3.4	1.4	0.82
19	---	---	---	---	---	---	---	---	3.3	3.2	1.7	0.67
20	---	---	---	---	---	---	---	---	3.0	2.6	2.2	0.72
21	---	---	---	---	---	---	---	---	2.7	2.6	1.8	0.70
22	---	---	---	---	---	---	---	---	4.1	2.3	1.1	0.61
23	---	---	---	---	---	---	---	---	2.9	2.0	0.86	0.63
24	---	---	---	---	---	---	---	---	2.2	1.4	1.6	0.86
25	---	---	---	---	---	---	---	---	2.5	1.7	1.1	0.71
26	---	---	---	---	---	---	---	---	2.6	1.3	0.76	0.68
27	---	---	---	---	---	---	---	---	2.6	1.3	0.64	0.72
28	---	---	---	---	---	---	---	---	2.9	1.7	0.69	0.65
29	---	---	---	---	---	---	---	---	3.0	1.6	0.65	0.54
30	---	---	---	---	---	---	---	---	3.6	1.4	0.64	0.53
31	---	---	---	---	---	---	---	---	---	1.7	0.61	---
TOTAL	---	---	---	---	---	---	---	---	---	88.4	48.45	30.05
MEAN	---	---	---	---	---	---	---	---	---	2.85	1.56	1.00
MAX	---	---	---	---	---	---	---	---	---	5.2	2.7	3.2
MIN	---	---	---	---	---	---	---	---	---	1.3	0.61	0.53
CFSM	---	---	---	---	---	---	---	---	---	1.79	0.98	0.63
IN.	---	---	---	---	---	---	---	---	---	2.07	1.13	0.70



MACHIAS RIVER BASIN

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 mi².

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. 25, and Dec. 4 to Mar. 21, 2001, Dec. 18-24, Jan. 13-14, 24-25, 30-31, Feb. 11-26 and Mar. 6, 2002, and periods of no gage-height record, Dec. 10, Dec. 29 to Jan. 1, Jan. 4-5, 8-9, 17, 19, Feb. 3-4, and 6, 2002, which are fair. Satellite gage-height telemeter at station. Records for water years 2000 and 2001 have not been previously published and are given below.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 12	1100	Ice Jam	*4.91	Mar 5	0930	129 ^a	3.15
Mar 1	1030	*190 ^a	3.48				

Minimum discharge, 2.2 ft³/s, July 26, gage height, 1.48 ft.

^a From rating curve extended above 60 ft³/s

**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	3.9	5.8	7.0	e5.0	6.0	97	55	27	7.6	5.7	3.3	3.8
2	3.9	5.1	5.8	e4.8	6.0	46	62	25	7.2	8.7	3.0	3.7
3	3.7	4.8	5.0	4.6	e5.8	52	46	27	7.3	7.1	2.7	4.2
4	3.7	4.6	4.2	e4.4	e5.6	90	40	22	7.1	5.9	3.0	5.6
5	3.9	4.5	4.3	e4.3	5.3	64	31	17	7.3	7.0	3.6	4.8
6	3.6	5.2	4.5	4.1	e5.0	e38	23	14	9.5	5.7	3.8	3.9
7	3.6	4.9	4.1	4.5	4.7	22	19	12	8.8	5.7	4.4	3.5
8	3.8	4.4	3.9	e4.7	4.7	16	15	9.9	7.8	5.6	3.9	3.7
9	3.9	5.4	3.8	e4.4	4.2	14	14	9.3	7.5	5.1	3.7	3.7
10	3.8	4.9	e3.8	4.1	4.2	26	15	11	7.9	4.9	3.6	3.6
11	3.9	4.6	3.8	4.2	e10	32	14	10	7.7	4.2	3.5	3.6
12	3.9	4.3	3.7	4.3	e28	25	12	9.3	13	3.8	3.4	5.1
13	3.9	4.0	4.1	e4.7	e22	19	12	9.0	14	3.7	3.4	3.7
14	3.9	4.0	4.7	e5.4	e19	16	42	21	11	3.8	3.4	3.1
15	4.2	4.1	4.5	4.6	e15	15	51	27	9.7	4.1	3.4	2.8
16	4.2	4.1	4.0	4.7	e12	13	46	22	15	4.9	3.6	4.9
17	8.1	4.1	3.9	e4.6	e11	11	33	17	12	5.0	3.6	5.5
18	5.9	4.0	e4.1	4.2	e9.5	10	29	16	10	5.1	3.3	3.7
19	4.8	4.0	e3.9	e4.2	e8.5	9.2	24	19	8.7	4.7	3.4	3.2
20	4.6	4.2	e3.9	4.2	e7.5	8.4	20	16	7.8	5.4	3.6	3.4
21	4.6	4.1	e3.8	4.0	e11	9.8	16	13	6.7	4.9	3.6	4.0
22	4.4	3.9	e3.8	4.3	e20	11	13	11	6.5	4.8	3.5	4.0
23	4.4	3.9	e3.8	4.6	e18	9.7	12	9.6	6.3	4.3	4.2	6.2
24	4.8	3.8	e5.6	e5.7	e15	9.1	11	9.0	6.3	3.6	3.9	7.5
25	4.9	3.7	20	e7.5	e12	8.5	9.9	8.5	5.4	3.1	5.8	5.0
26	5.1	4.3	13	7.0	e12	8.2	14	8.1	5.6	2.7	5.3	4.2
27	5.0	4.4	10	6.6	48	47	19	8.1	8.0	3.0	4.1	4.1
28	4.5	4.2	7.5	6.3	113	81	18	7.8	6.5	3.4	4.0	13
29	4.2	4.1	e6.5	6.2	---	52	21	7.7	5.8	4.4	4.0	9.6
30	4.5	7.6	e5.8	e6.2	---	43	25	7.7	5.5	4.9	4.8	6.3
31	4.4	---	e5.3	e6.1	---	51	---	8.0	---	4.4	4.1	---
TOTAL	136.0	135.0	172.1	154.5	443.0	953.9	761.9	439.0	249.5	149.6	116.9	143.4
MEAN	4.39	4.50	5.55	4.98	15.8	30.8	25.4	14.2	8.32	4.83	3.77	4.78
MAX	8.1	7.6	20	7.5	113	97	62	27	15	8.7	5.8	13
MIN	3.6	3.7	3.7	4.0	4.2	8.2	9.9	7.7	5.4	2.7	2.7	2.8
CFSM	0.56	0.58	0.71	0.64	2.03	3.95	3.26	1.82	1.07	0.62	0.48	0.61
IN.	0.65	0.64	0.82	0.74	2.12	4.56	3.64	2.10	1.19	0.71	0.56	0.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

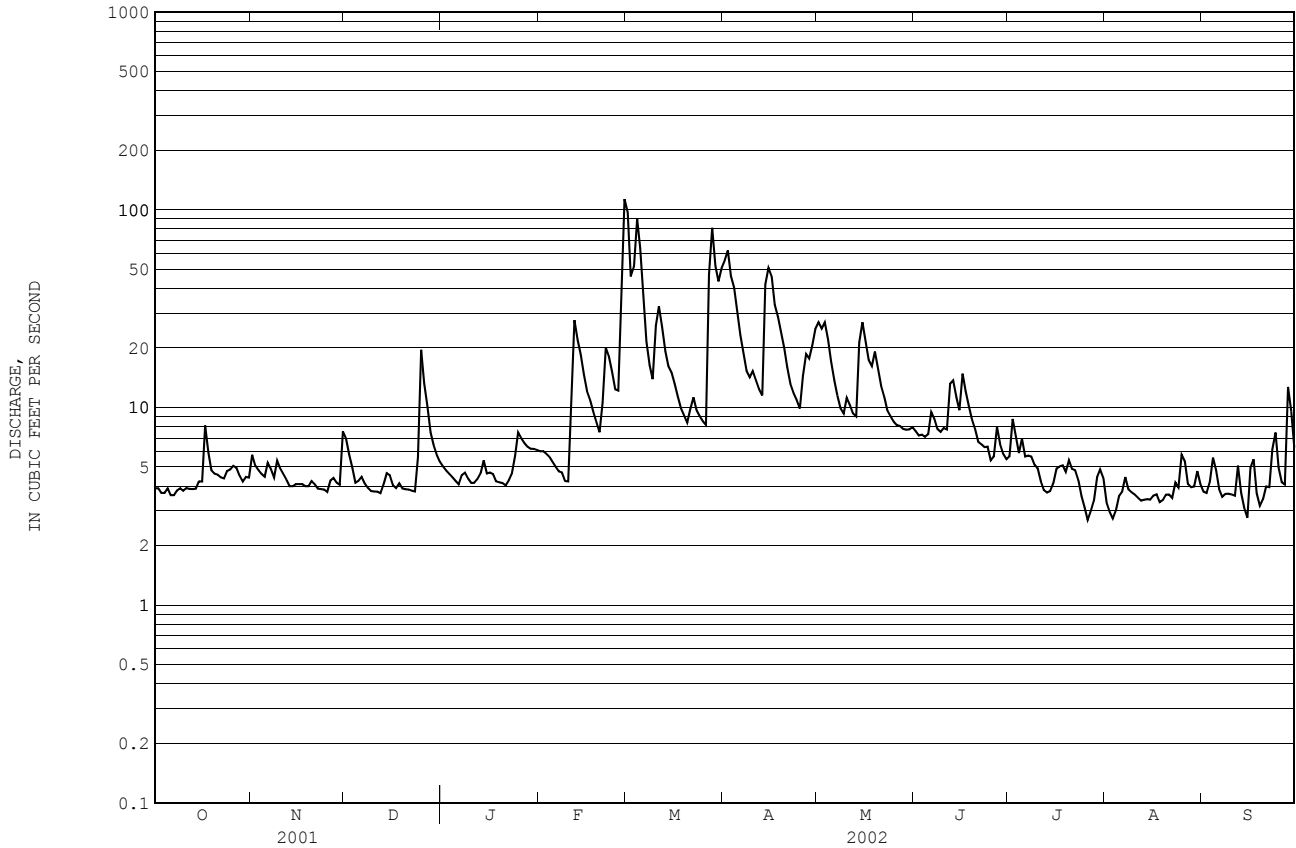
	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	6.05	7.25	8.72	5.49	11.5	19.7	27.4	11.4	8.26	5.24	4.28	4.85
MAX	7.72	10.0	11.9	5.99	15.8	30.8	29.4	14.2	8.32	6.46	5.21	5.53
(WY)	2001	2001	2001	2001	2002	2002	2001	2002	2002	2000	2000	2000
MIN	4.39	4.50	5.55	4.98	7.14	8.71	25.4	8.64	8.20	4.43	3.77	4.23
(WY)	2002	2002	2002	2002	2001	2001	2002	2001	2001	2001	2002	2001

e Estimated

MACHIAS RIVER BASIN

01021470 LIBBY BROOK NEAR NORTHFIELD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2000 - 2002	
ANNUAL TOTAL	2879.7		3854.8			
ANNUAL MEAN	7.89		10.6		9.86	
HIGHEST ANNUAL MEAN					10.6 2002	
LOWEST ANNUAL MEAN					9.16 2001	
HIGHEST DAILY MEAN	54	Apr 15	113	Feb 28	113	Feb 28 2002
LOWEST DAILY MEAN	3.5	Aug 11	2.7	Jul 26	2.7	Jul 26 2002
ANNUAL SEVEN-DAY MINIMUM	3.7	Aug 10	3.4	Jul 31	3.4	Jul 31 2002
MAXIMUM PEAK FLOW			190		190 Mar 1 2002	
MAXIMUM PEAK STAGE			4.91		4.91 Feb 12 2002	
INSTANTANEOUS LOW FLOW			2.2		2.2 Jul 26 2002	
ANNUAL RUNOFF (CFSM)	1.01		1.36		1.27	
ANNUAL RUNOFF (INCHES)	13.75		18.41		17.20	
10 PERCENT EXCEEDS	13		22		19	
50 PERCENT EXCEEDS	5.4		5.4		6.1	
90 PERCENT EXCEEDS	3.8		3.7		3.8	



MACHIAS RIVER BASIN

01021470 LIBBY BROOK NEAR NORTHFIELD, ME--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	7.6	4.8	4.6
2	---	---	---	---	---	---	---	---	---	6.8	4.8	5.0
3	---	---	---	---	---	---	---	---	---	6.7	5.5	5.3
4	---	---	---	---	---	---	---	---	---	6.7	5.5	5.2
5	---	---	---	---	---	---	---	---	---	6.9	5.1	5.0
6	---	---	---	---	---	---	---	---	---	6.3	5.0	4.7
7	---	---	---	---	---	---	---	---	---	5.7	5.4	4.7
8	---	---	---	---	---	---	---	---	---	5.3	5.7	4.7
9	---	---	---	---	---	---	---	---	---	4.8	5.3	4.5
10	---	---	---	---	---	---	---	---	---	7.1	6.3	4.6
11	---	---	---	---	---	---	---	---	---	9.6	5.8	4.8
12	---	---	---	---	---	---	---	---	---	7.2	5.2	4.9
13	---	---	---	---	---	---	---	---	---	6.5	5.4	6.6
14	---	---	---	---	---	---	---	---	---	9.1	6.4	5.9
15	---	---	---	---	---	---	---	---	---	8.6	5.9	6.2
16	---	---	---	---	---	---	---	---	---	8.4	5.7	5.8
17	---	---	---	---	---	---	---	---	---	8.3	10	7.0
18	---	---	---	---	---	---	---	---	---	8.5	8.9	4.9
19	---	---	---	---	---	---	---	---	---	7.8	8.0	4.9
20	---	---	---	---	---	---	---	---	---	6.8	6.9	5.8
21	---	---	---	---	---	---	---	---	---	7.0	6.5	6.1
22	---	---	---	---	---	---	---	---	---	8.4	6.8	5.1
23	---	---	---	---	---	---	---	---	---	7.6	7.0	4.9
24	---	---	---	---	---	---	---	---	---	6.9	6.5	5.6
25	---	---	---	---	---	---	---	---	---	6.7	6.0	5.1
26	---	---	---	---	---	---	---	---	---	6.5	5.1	4.6
27	---	---	---	---	---	---	---	---	---	6.7	4.3	4.5
28	---	---	---	---	---	---	---	---	---	6.6	5.0	4.6
29	---	---	---	---	---	---	---	---	---	6.5	4.7	4.5
30	---	---	---	---	---	---	---	---	---	7.0	4.3	4.6
31	---	---	---	---	---	---	---	---	---	5.1	4.5	---
TOTAL	---	---	---	---	---	---	---	---	---	200.3	161.6	165.9
MEAN	---	---	---	---	---	---	---	---	---	6.46	5.21	5.53
MAX	---	---	---	---	---	---	---	---	---	10	6.3	11
MIN	---	---	---	---	---	---	---	---	---	4.3	4.5	4.5
CFSM	---	---	---	---	---	---	---	---	---	0.83	0.67	0.71
IN.	---	---	---	---	---	---	---	---	---	0.96	0.77	0.79

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	6.46	5.21	5.53
MAX	---	---	---	---	---	---	---	---	---	6.46	5.21	5.53
(WY)	---	---	---	---	---	---	---	---	---	2000	2000	2000
MIN	---	---	---	---	---	---	---	---	---	6.46	5.21	5.53
(WY)	---	---	---	---	---	---	---	---	---	2000	2000	2000

01021470 LIBBY BROOK NEAR NORTHFIELD, 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	5.2	13	11	e7.7	e6.2	e6.3	9.9	13	6.1	4.6	3.9	4.8
2	5.4	11	9.2	e7.3	e5.9	e6.1	9.0	12	6.1	4.7	3.8	4.7
3	5.5	9.6	8.0	e6.9	e5.8	e6.0	8.5	12	13	4.3	3.8	4.2
4	5.2	8.4	e7.2	e6.7	e5.4	e5.7	8.9	11	21	4.7	3.8	4.0
5	5.3	8.1	e6.8	e6.5	e5.5	e5.6	11	11	21	4.7	3.9	3.9
6	9.5	9.1	e6.4	e6.4	e6.6	e5.5	14	11	21	4.7	4.0	3.7
7	11	9.1	e6.1	e6.7	e5.9	e5.4	14	9.6	15	4.4	3.9	3.7
8	9.0	9.5	e5.9	e6.2	e5.4	e5.4	16	8.5	10	4.9	3.8	3.8
9	7.4	9.5	e5.7	e6.2	e5.6	e5.3	17	8.0	8.0	5.0	3.7	3.8
10	9.7	8.9	e5.5	e6.2	e8.1	e6.1	25	7.8	6.8	4.9	3.8	3.8
11	8.9	7.8	e6.3	e6.1	e8.8	e5.9	32	7.5	6.1	4.9	3.5	3.7
12	7.8	6.8	e7.5	e6.0	e7.9	e5.6	36	7.2	6.5	4.7	3.6	3.6
13	7.3	6.3	e9.1	e6.0	e7.3	e5.6	49	7.1	7.1	4.6	3.6	3.7
14	6.7	6.4	e8.7	e5.9	e6.8	e6.5	53	7.3	6.1	4.3	3.8	3.7
15	6.4	13	e7.6	e5.8	e13	e6.4	54	7.7	5.4	4.6	3.7	3.7
16	6.3	14	e7.5	e5.8	e11	e6.3	49	8.1	5.1	4.6	3.6	3.7
17	6.2	12	e29	e5.7	e9.3	e6.1	45	7.7	5.2	4.5	3.8	3.8
18	6.6	9.5	e37	e5.7	e8.4	e6.3	39	7.1	9.0	4.8	4.0	3.9
19	10	8.3	e31	e5.7	e7.8	e7.0	34	12	6.9	5.0	3.9	3.9
20	10	7.7	e27	e5.7	e7.1	e8.8	34	13	5.6	4.4	3.8	3.9
21	8.1	7.7	e22	e5.6	e6.8	e11	35	10	5.0	4.0	4.0	4.2
22	7.3	7.4	e18	e5.5	e6.6	13	45	8.5	5.1	3.9	4.1	5.7
23	6.9	7.1	e14	e5.4	e6.3	17	52	7.2	6.0	4.0	4.0	4.8
24	6.8	6.7	e12	e5.5	e6.0	17	46	6.6	6.6	3.9	3.7	4.2
25	6.7	e6.3	e11	e5.5	e5.9	16	39	6.2	7.7	4.3	3.8	4.1
26	6.7	6.7	e9.8	e5.5	e7.0	15	31	5.8	6.2	3.9	3.8	7.8
27	6.4	21	e8.9	e5.5	e6.9	13	25	5.9	5.0	3.9	3.9	5.1
28	6.5	20	e8.1	e5.4	e6.5	12	20	6.7	4.6	4.0	4.0	4.5
29	6.5	16	e7.4	e5.3	---	11	17	8.9	4.4	4.1	4.4	4.3
30	11	13	e6.8	e5.2	---	11	15	7.2	4.5	4.1	4.2	4.2
31	17	---	e8.2	e6.1	---	12	---	6.3	---	4.0	4.0	---
TOTAL	239.3	299.9	368.7	185.7	199.8	269.9	883.3	267.9	246.1	137.4	119.6	126.9
MEAN	7.72	10.0	11.9	5.99	7.14	8.71	29.4	8.64	8.20	4.43	3.86	4.23
MAX	17	21	37	7.7	13	17	54	13	21	5.0	4.4	7.8
MIN	5.2	6.3	5.5	5.2	5.4	5.3	8.5	5.8	4.4	3.9	3.5	3.6
CFSM	0.99	1.28	1.53	0.77	0.92	1.12	3.78	1.11	1.05	0.57	0.50	0.54
IN.	1.14	1.43	1.76	0.89	0.95	1.29	4.22	1.28	1.18	0.66	0.57	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	7.72	10.0	11.9	5.99	7.14	8.76	29.4	8.64	8.20	5.45	4.54	4.88
MAX	7.72	10.0	11.9	5.99	7.14	8.76	29.4	8.64	8.20	6.46	5.21	5.53
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000
MIN	7.72	10.0	11.9	5.99	7.14	8.76	29.4	8.64	8.20	4.43	3.86	4.23
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

ANNUAL TOTAL	3346.1	
ANNUAL MEAN	9.17	9.17
HIGHEST ANNUAL MEAN		9.17 2001
LOWEST ANNUAL MEAN		9.17 2001
HIGHEST DAILY MEAN	54	Apr 15 2001
LOWEST DAILY MEAN	3.5	Aug 11 2001
ANNUAL SEVEN-DAY MINIMUM	3.7	Aug 10 2001
MAXIMUM PEAK FLOW	60	Apr 15 2001
MAXIMUM PEAK STAGE	3.49	Dec 26 2000
INSTANTANEOUS LOW FLOW	2.8	Sep 14 2001
ANNUAL RUNOFF (CFSM)	1.18	1.18
ANNUAL RUNOFF (INCHES)	15.98	15.99
10 PERCENT EXCEEDS	16	16
50 PERCENT EXCEEDS	6.5	6.5
90 PERCENT EXCEEDS	3.9	3.9

e Estimated

MACHIAS RIVER BASIN

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 mi².

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 period of ice effect, Dec. 27 to Feb. 28, and periods of doubtful gage-height record, Mar. 4-31, and Apr. 22 to June 4, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--- Maximum discharge, 526 ft³/s, Mar. 29, 2000, gage height 6.45 ft; maximum gage height, 6.76ft, Dec. 23, 1998 (backwater from ice); minimum discharge 1.5 ft³/s, Sept. 7 and 14, 2001, gage height 3.37 ft.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 260 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 1	0900	*354	*5.90	Apr 2	0400	344	5.86
Mar 5	1100	314	5.74	Apr 15	2145	262	5.51

Minimum discharge, 2.4 ft³/s, Oct. 13-15, gage height, 3.42 ft.

**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	3.3	5.6	11	e11	e11	279	288	106	22	12	6.7	3.4
2	3.1	5.6	11	e9.9	e10	214	337	114	23	19	6.1	3.3
3	2.9	5.4	11	e9.0	e9.7	196	314	126	22	19	6.4	3.5
4	2.7	5.7	10	e8.4	e9.2	267	314	119	20	18	6.7	4.7
5	2.5	5.4	9.7	e7.8	e8.9	253	264	95	22	22	6.5	4.3
6	2.7	6.0	8.7	e7.3	e8.6	194	209	82	26	19	7.1	3.7
7	2.6	6.2	7.9	e6.9	e8.3	148	166	67	26	18	8.9	3.3
8	2.8	6.6	7.0	e6.9	e8.2	113	136	60	23	16	7.2	3.2
9	2.8	5.7	6.6	e6.7	e8.0	93	121	53	21	14	6.2	3.0
10	2.7	6.0	6.0	e6.4	e7.9	127	122	56	21	12	5.7	2.9
11	2.5	5.6	5.7	e6.1	e32	171	111	54	21	10	5.5	2.8
12	2.5	5.5	5.4	e5.9	e103	160	97	48	27	9.0	5.3	5.0
13	2.5	5.1	5.5	e6.1	e87	131	90	44	29	8.0	5.1	4.0
14	2.4	5.0	6.1	e9.4	e73	113	170	68	25	7.1	5.0	3.2
15	2.6	4.9	6.4	e10	e64	100	229	87	24	7.0	4.9	3.5
16	2.6	4.8	6.3	e10	e56	91	247	87	30	7.8	4.6	5.8
17	8.6	4.7	6.3	e9.7	e47	79	210	81	31	9.3	4.5	5.1
18	5.7	4.5	7.5	e9.4	e39	67	183	73	31	8.3	4.2	4.1
19	4.6	4.4	7.6	e9.0	e33	59	157	73	26	7.8	4.0	3.7
20	3.8	4.5	6.9	e8.7	e28	53	136	64	23	7.6	4.0	3.6
21	3.8	4.9	7.0	e8.4	e28	54	116	57	21	7.1	3.9	3.6
22	3.9	4.6	6.5	e8.2	e36	54	97	50	19	6.5	3.7	3.4
23	3.8	4.4	6.2	e8.4	e38	49	86	44	17	6.0	3.8	5.1
24	3.9	4.4	7.1	e11	e38	45	76	39	16	6.5	3.6	5.0
25	4.5	4.2	24	e13	e35	41	65	36	14	6.5	4.1	3.9
26	4.6	4.0	22	e13	e34	39	74	32	13	6.0	4.0	3.6
27	4.7	4.1	e21	e13	e90	108	85	31	19	5.7	3.6	3.5
28	4.4	4.2	e19	e12	e249	199	78	29	18	5.6	3.5	13
29	4.5	4.3	e17	e12	---	213	83	27	16	10	3.4	7.1
30	4.2	8.0	e14	e12	---	218	96	26	14	9.6	3.9	4.7
31	4.1	---	e12	e11	---	253	---	23	---	7.7	3.7	---
TOTAL	112.3	154.3	308.4	286.6	1199.8	4181	4757	1951	660	328.1	155.8	129.0
MEAN	3.62	5.14	9.95	9.25	42.9	135	159	62.9	22.0	10.6	5.03	4.30
MAX	8.6	8.0	24	13	249	279	337	126	31	22	8.9	13
MIN	2.4	4.0	5.4	5.9	7.9	39	65	23	13	5.6	3.4	2.8
CFSM	0.12	0.18	0.34	0.32	1.47	4.63	5.45	2.16	0.76	0.36	0.17	0.15
IN.	0.14	0.20	0.39	0.37	1.53	5.34	6.08	2.49	0.84	0.42	0.20	0.16

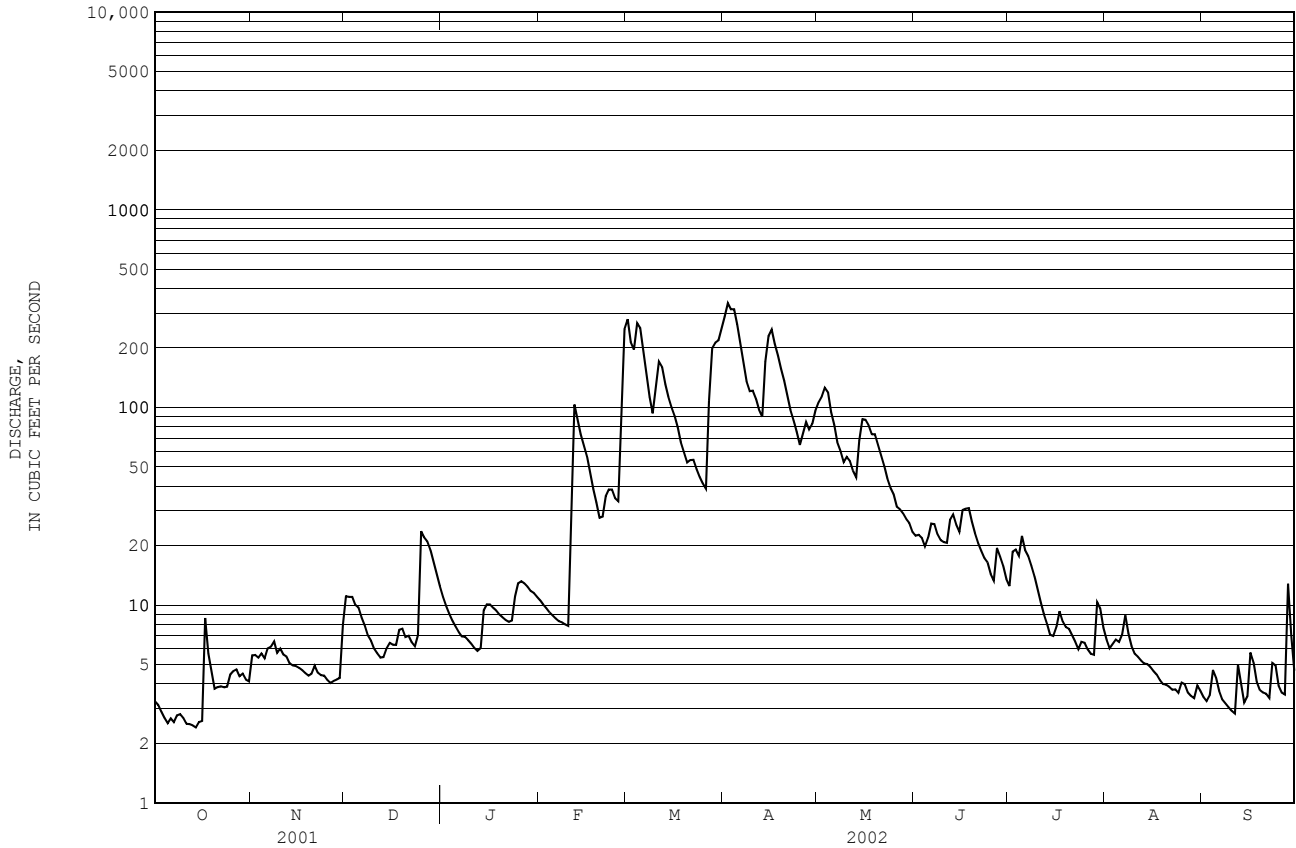
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

MEAN	20.6	36.6	48.7	50.6	47.7	125	138	56.6	21.6	10.9	5.64	11.3
MAX	35.5	70.9	112	121	81.6	174	167	75.0	26.9	17.8	8.73	40.3
(WY)	2000	2000	2000	1999	1999	1999	2000	2000	2000	2000	2000	1999
MIN	3.61	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	8908.6		14222.9		47.9	
ANNUAL MEAN	24.4		39.0		66.5	
HIGHEST ANNUAL MEAN					29.1	
LOWEST ANNUAL MEAN					29.1	
HIGHEST DAILY MEAN	321	Apr 23	337	Apr 2	487	Mar 29 2000
LOWEST DAILY MEAN	1.6	Sep 12	2.4	Oct 14	1.6	Sep 12 2001
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 9	2.5	Oct 10	1.6	Sep 9 2001
MAXIMUM PEAK FLOW			354	Mar 1	526	Mar 29 2000
MAXIMUM PEAK STAGE			5.90	Mar 1	6.76	Dec 23 1998
INSTANTANEOUS LOW FLOW			2.4	Oct 13	1.5	Sep 7 2001
ANNUAL RUNOFF (CFSM)	0.84		1.34		1.65	
ANNUAL RUNOFF (INCHES)	11.39		18.18		22.37	
10 PERCENT EXCEEDS	44		115		124	
50 PERCENT EXCEEDS	12		9.4		22	
90 PERCENT EXCEEDS	2.1		3.7		4.0	



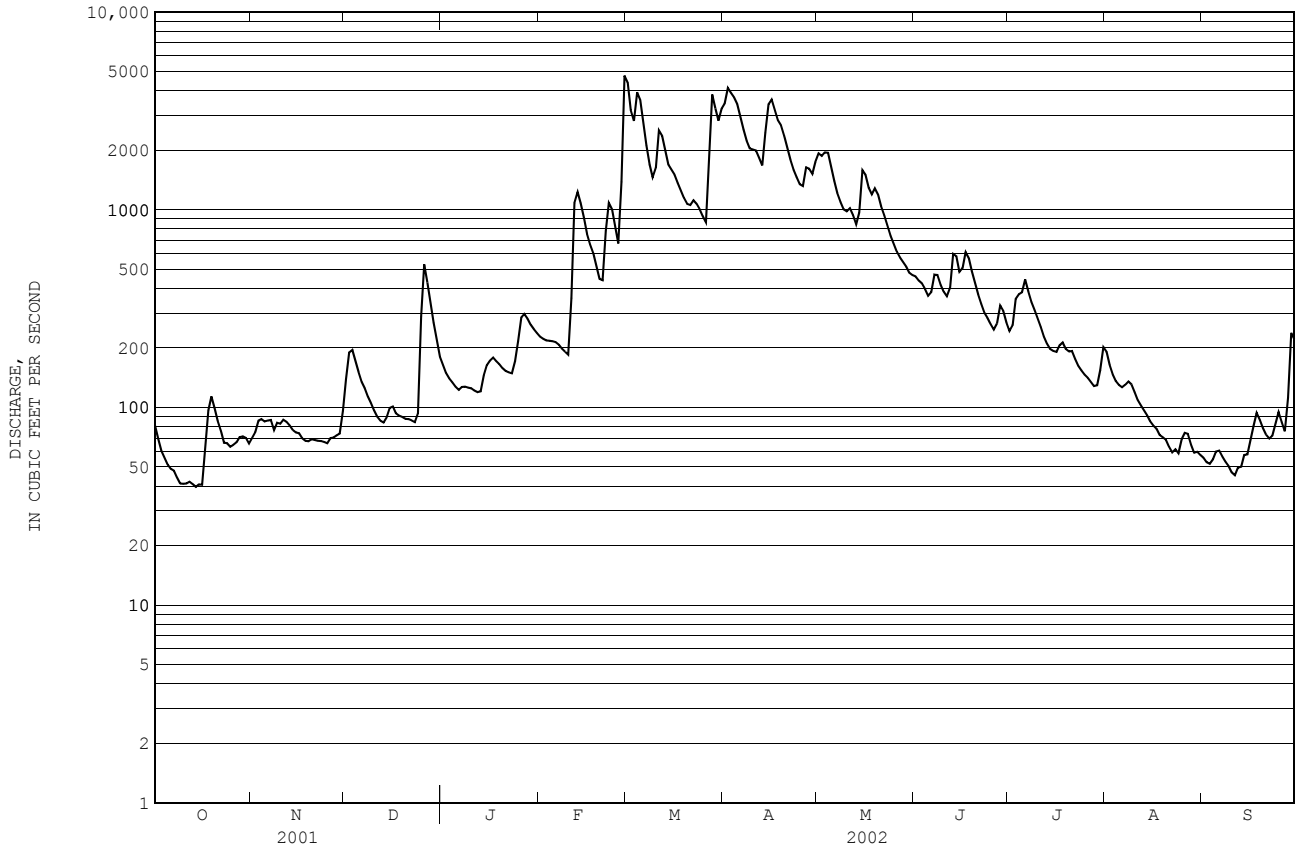
01021500 MACHIAS RIVER AT WHITNEYVILLE, ME--Continued

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1906 - 2002

ANNUAL TOTAL	232228		
ANNUAL MEAN	636		930
HIGHEST ANNUAL MEAN			1498 1973
LOWEST ANNUAL MEAN			542 1966
HIGHEST DAILY MEAN	4780	Feb 28	13900 May 29 1961
LOWEST DAILY MEAN	40	Oct 14	3.5 Oct 12 1939
ANNUAL SEVEN-DAY MINIMUM	41	Oct 9	27 Sep 15 2001
MAXIMUM PEAK FLOW	5040	Feb 28	14800 May 29 1961
MAXIMUM PEAK STAGE	9.13	Feb 28	16.92 May 29 1961
INSTANTANEOUS LOW FLOW	38	Oct 14	
ANNUAL RUNOFF (CFSM)	1.39		2.03
ANNUAL RUNOFF (INCHES)	18.86		27.60
10 PERCENT EXCEEDS	1940		2230
50 PERCENT EXCEEDS	193		553
90 PERCENT EXCEEDS	63		172



PLEASANT RIVER BASIN

01022260 PLEASANT RIVER NEAR EPPING, ME

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

DRAINAGE AREA.--60.6 mi².

PERIOD OF RECORD.--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. 21-24, Dec. 28 to Feb. 24, and Mar. 1-2, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft³/s, May 13, 1989, gage height, 10.77 ft; minimum discharge, 12 ft³/s, Sept. 16, 2001, gage height, 4.87 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	0900	Ice Jam	*9.18	Apr 3	1045	*585	8.49
Mar 5	0530	569	8.42	Apr 17	1300	457	7.98

Minimum discharge, 13 ft³/s, Oct. 12, gage height, 4.90 ft.

**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	21	20	47	e46	e46	e372	480	236	77	38	39	19
2	19	25	48	e41	e44	e496	536	249	71	46	33	18
3	17	26	40	e37	e42	485	575	258	70	66	28	18
4	16	24	35	e35	e41	491	540	260	67	95	27	20
5	16	23	31	e33	e39	551	501	253	62	142	25	22
6	15	24	29	e30	e39	502	453	230	69	142	24	22
7	14	24	28	e32	e38	419	399	201	89	113	22	20
8	14	24	26	e34	e38	354	349	177	83	90	21	18
9	13	23	24	e33	e37	298	305	157	73	74	21	17
10	13	26	23	e30	e37	265	271	150	71	61	20	16
11	13	27	22	e30	e157	258	247	151	65	52	19	15
12	13	25	22	e29	e384	278	227	141	83	44	19	16
13	13	23	22	e32	e369	285	209	129	128	38	18	18
14	13	22	25	e40	e312	266	235	151	122	35	17	18
15	14	22	29	e43	e272	240	287	199	101	33	17	17
16	15	22	28	e42	e233	219	382	221	112	33	17	25
17	25	21	26	e41	e193	199	445	213	121	37	17	37
18	40	21	26	e40	e161	179	430	198	108	37	17	33
19	31	21	26	e39	e132	160	395	198	92	34	16	27
20	25	21	26	e35	e109	144	366	196	81	35	16	22
21	22	21	e26	e34	e105	139	330	178	69	35	16	21
22	20	21	e26	e33	e143	155	287	154	60	33	15	19
23	19	20	e26	e35	e168	151	246	136	55	29	15	25
24	18	20	e28	e44	e179	139	214	122	53	27	16	39
25	19	20	101	e71	167	130	190	111	49	25	19	37
26	20	21	132	e79	152	123	182	100	44	22	26	28
27	21	22	109	e68	212	199	201	93	45	21	26	24
28	21	23	e86	e61	326	302	214	87	52	22	21	55
29	20	23	e71	e55	---	425	213	81	48	22	19	96
30	19	32	e58	e51	---	468	219	78	42	29	18	64
31	18	---	e52	e48	---	439	---	78	---	42	19	---
TOTAL	577	687	1298	1301	4175	9131	9928	5186	2262	1552	643	826
MEAN	18.6	22.9	41.9	42.0	149	295	331	167	75.4	50.1	20.7	27.5
MAX	40	32	132	79	384	551	575	260	128	142	39	96
MIN	13	20	22	29	37	123	182	78	42	21	15	15
CFSM	0.31	0.38	0.69	0.69	2.46	4.86	5.46	2.76	1.24	0.83	0.34	0.45
IN.	0.35	0.42	0.80	0.80	2.56	5.61	6.09	3.18	1.39	0.95	0.39	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

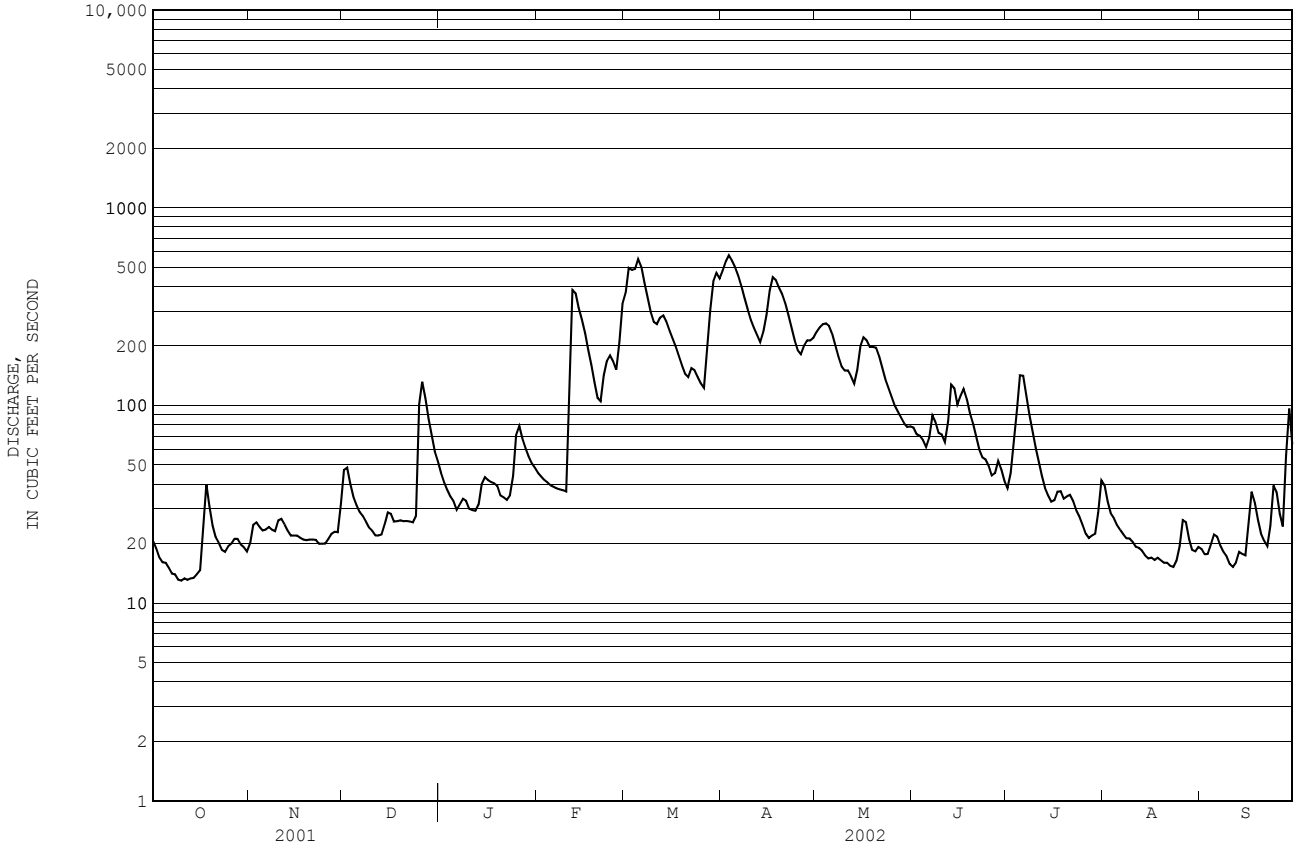
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	77.2	141	158	96.5	153	198	309	182	112	64.8	60.6	58.2												
MAX	180	267	315	159	352	314	477	459	270	149	144	140												
(WY)	1982	1989	1984	1982	1981	1991	1982	1989	1984	1984	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

PLEASANT RIVER BASIN

01022260 PLEASANT RIVER NEAR EPPING, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1980 - 2002	
ANNUAL TOTAL	26626		37566			
ANNUAL MEAN	72.9		103		134	
HIGHEST ANNUAL MEAN					194	1984
LOWEST ANNUAL MEAN					83.9	2001
HIGHEST DAILY MEAN	470	Apr 15	575	Apr 3	1210	May 13 1989
LOWEST DAILY MEAN	12	Sep 14	13	Oct 9	12	Sep 14 2001
ANNUAL SEVEN-DAY MINIMUM	12	Sep 14	13	Oct 8	12	Sep 14 2001
MAXIMUM PEAK FLOW			585	Apr 3	1240	May 13 1989
MAXIMUM PEAK STAGE			9.18	Feb 14	10.77	May 13 1989
INSTANTANEOUS LOW FLOW			13	Oct 12	12	Sep 16 2001
ANNUAL RUNOFF (CFSM)	1.20		1.70		2.21	
ANNUAL RUNOFF (INCHES)	16.34		23.06		30.08	
10 PERCENT EXCEEDS	173		274		297	
50 PERCENT EXCEEDS	45		40		90	
90 PERCENT EXCEEDS	15		18		33	



NARRAGUAGUS RIVER BASIN

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 mi². 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 ft³/s and 0.050 ft³/s, which are fair, and for flows below 0.050 ft³/s, periods of ice effect, Dec. 26 to Jan. 11, Jan. 26-27, periods of doubtful stage-discharge relation, Mar. 5-6, May 31 to June 2, periods of no gage-height record, May 7, June 7, and July 3-10, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18.6 ft³/s, Mar. 9, 1998, gage height, 6.91 ft; no flow for many days in 1988-2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2.20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 27	1850	*5.33	*6.08	Mar 10	0955	2.74	5.83
Mar 3	1435	2.60	5.81				

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

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	0.000	0.000	0.044	e0.032	0.043	0.29	0.88	0.29	e0.028	0.003	0.000	0.000
2	0.000	0.000	0.044	e0.030	0.039	0.19	0.45	0.35	e0.025	0.023	0.000	0.000
3	0.000	0.000	0.030	e0.028	0.035	1.33	0.51	0.35	0.022	e0.018	0.000	0.000
4	0.000	0.000	0.022	e0.026	0.034	0.85	0.42	0.22	0.018	e0.018	0.000	0.000
5	0.000	0.000	0.018	e0.024	0.031	e0.30	0.26	0.15	0.018	e0.020	0.000	0.000
6	0.000	0.000	0.016	e0.024	0.029	e0.18	0.19	0.12	0.068	e0.020	0.000	0.000
7	0.000	0.000	0.014	e0.024	0.027	0.14	0.14	e0.10	e0.041	e0.020	0.000	0.000
8	0.000	0.000	0.011	e0.024	0.026	0.11	0.12	0.089	0.026	e0.019	0.000	0.000
9	0.000	0.000	0.009	e0.023	0.024	0.11	0.12	0.078	0.022	e0.018	0.000	0.000
10	0.000	0.000	0.008	e0.023	0.025	1.07	0.13	0.17	0.018	e0.016	0.000	0.000
11	0.000	0.000	0.007	e0.022	0.81	0.40	0.10	0.11	0.017	0.013	0.000	0.000
12	0.000	0.000	0.006	0.022	0.24	0.21	0.094	0.090	0.071	0.010	0.000	0.000
13	0.000	0.000	0.012	0.025	0.14	0.16	0.095	0.080	0.066	0.007	0.000	0.000
14	0.000	0.000	0.028	0.022	0.098	0.17	0.85	0.31	0.039	0.004	0.000	0.000
15	0.000	0.000	0.021	0.022	0.083	0.15	0.69	0.25	0.033	0.008	0.000	0.000
16	0.000	0.000	0.015	0.023	0.100	0.12	0.40	0.16	0.081	0.012	0.000	0.000
17	0.000	0.000	0.014	0.022	0.10	0.091	0.27	0.15	0.065	0.011	0.000	0.000
18	0.000	0.000	0.016	0.022	0.082	0.081	0.31	0.15	0.045	0.009	0.000	0.000
19	0.000	0.000	0.013	0.021	0.072	0.075	0.23	0.16	0.035	0.006	0.000	0.000
20	0.000	0.000	0.012	0.021	0.065	0.070	0.20	0.12	0.026	0.006	0.000	0.000
21	0.000	0.000	0.013	0.021	0.13	0.076	0.15	0.098	0.020	0.004	0.000	0.000
22	0.000	0.000	0.011	0.021	0.24	0.071	0.12	0.084	0.016	0.003	0.000	0.000
23	0.000	0.000	0.011	0.024	0.20	0.061	0.10	0.072	0.013	0.003	0.000	0.001
24	0.000	0.000	0.18	0.068	0.15	0.055	0.091	0.064	0.012	0.002	0.000	0.001
25	0.000	0.000	0.57	0.079	0.12	0.051	0.081	0.054	0.009	0.000	0.000	0.000
26	0.000	0.000	e0.16	e0.051	0.12	0.050	0.10	0.049	0.009	0.000	0.000	0.000
27	0.000	0.000	e0.092	e0.040	2.31	0.70	0.14	0.044	0.020	0.000	0.000	0.000
28	0.000	0.000	e0.062	0.044	0.86	0.40	0.14	0.038	0.012	0.000	0.000	0.007
29	0.000	0.000	e0.050	0.052	---	0.28	0.12	0.033	0.008	0.000	0.000	0.000
30	0.000	0.017	e0.040	0.047	---	0.67	0.14	0.029	0.004	0.002	0.000	0.000
31	0.000	---	e0.035	0.041	---	0.56	---	e0.029	---	0.002	0.000	---
TOTAL	0.000	0.017	1.584	0.968	6.233	9.071	7.641	4.091	0.887	0.277	0.000	0.009
MEAN	0.000	0.001	0.051	0.031	0.22	0.29	0.25	0.13	0.030	0.009	0.000	0.000
MAX	0.000	0.017	0.57	0.079	2.31	1.33	0.88	0.35	0.081	0.023	0.000	0.007
MIN	0.000	0.000	0.006	0.021	0.024	0.050	0.081	0.029	0.004	0.000	0.000	0.000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

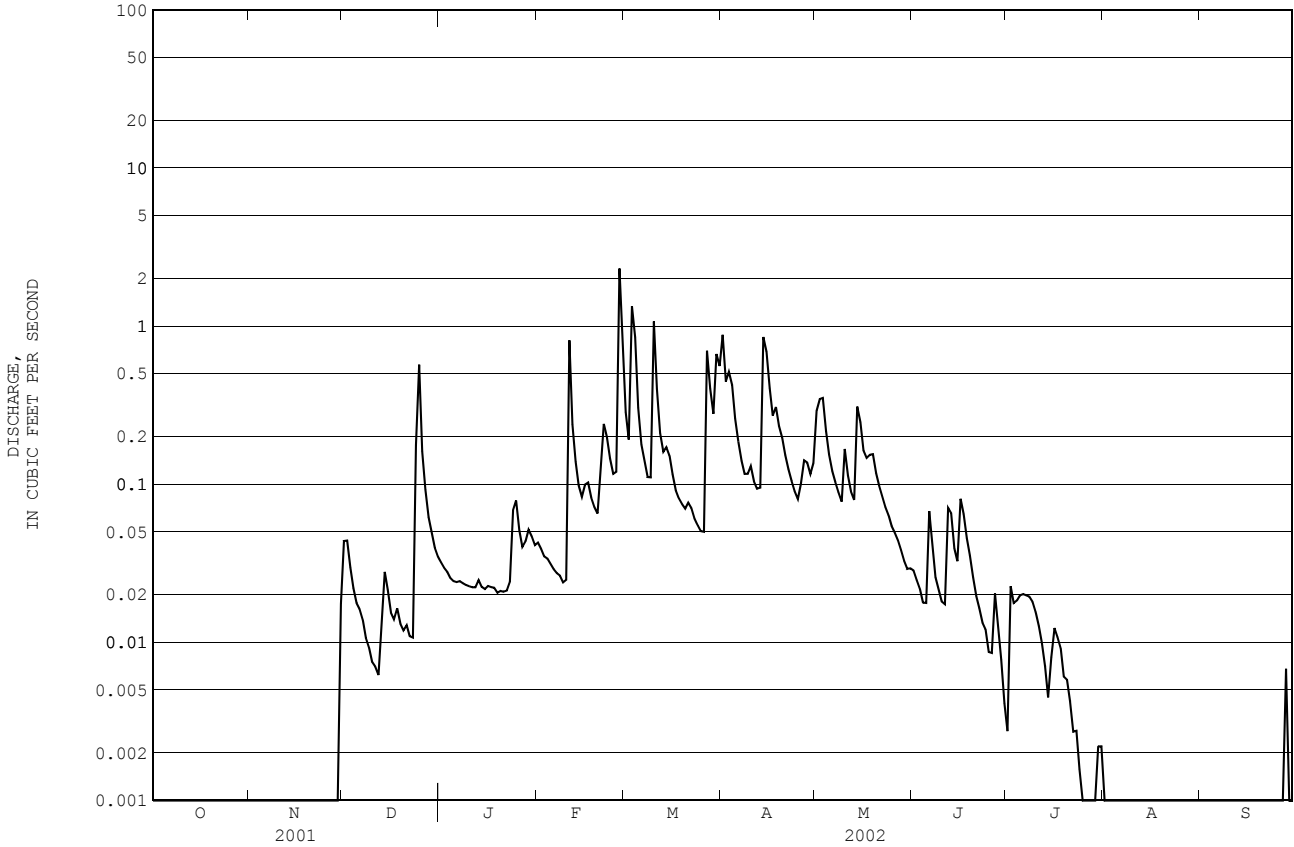
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	0.069	0.16	0.13	0.13	0.092	0.22	0.25	0.15	0.055	0.024	0.003	0.015			
MAX	0.16	0.34	0.39	0.37	0.22	0.49	0.45	0.49	0.18	0.25	0.016	0.071			
(WY)	1992	1996	1997	1996	2002	1998	1993	1989	1998	1996	1992	1999			
MIN	0.000	0.001	0.032	0.016	0.021	0.022	0.10	0.035	0.007	0.000	0.000	0.000			
(WY)	2002	2002	1990	2001	2001	2001	1999	2001	1991	1991	1993	1993			

e Estimated

NARRAGUAGUS RIVER BASIN

01022294 EAST BRANCH BEAR BROOK NEAR BEDDINGTON, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1988 - 2002
ANNUAL TOTAL	16.480	30.700	
ANNUAL MEAN	0.045	0.084	0.11
HIGHEST ANNUAL MEAN			0.17 1996
LOWEST ANNUAL MEAN			0.060 2001
HIGHEST DAILY MEAN	1.74 Apr 22	2.31 Feb 27	4.95 Mar 27 1988
LOWEST DAILY MEAN	0.000 Jun 27	0.000 Oct 1	0.000 Jun 14 1988
ANNUAL SEVEN-DAY MINIMUM	0.00 Jun 27	0.00 Oct 1	0.000 Jun 14 1988
MAXIMUM PEAK FLOW		5.33 Feb 27	18.6 Mar 9 1998
MAXIMUM PEAK STAGE		6.08 Feb 27	6.91 Mar 9 1998
INSTANTANEOUS LOW FLOW		0.00 Oct 1	0.00 Jun 20 1988
10 PERCENT EXCEEDS	0.062	0.200	0.250
50 PERCENT EXCEEDS	0.011	0.020	0.043
90 PERCENT EXCEEDS	0.000	0.000	0.000



NARRAGUAGUS RIVER BASIN

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 mi². 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 ft³/s and 0.050 ft³/s, which are fair, and flows below 0.050 ft³/s, periods of ice effect, Dec. 25-30, Jan. 8-12, 24-25, Feb. 2-3, 5, 7-10, periods of doubtful stage-discharge relation, Oct. 2-17, Nov. 4-6, 13-20, May 26 to June 6, June 8-10, 13-15, July 19-24, Aug. 8-9, periods of no gage-height record, May 7, June 7, and July 3-10, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16.4 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 27	1840	*4.78	*6.04	No other peak greater than base discharge.			

Minimum discharge, 0.001 ft³/s, Aug. 31, gage height, 5.03 ft.

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	0.003	0.006	0.039	0.031	0.031	0.28	0.85	0.24	e0.029	0.011	0.007	0.001
2	e0.002	0.005	0.033	0.028	e0.028	0.20	0.47	0.30	e0.029	0.030	0.006	0.001
3	e0.002	0.005	0.026	0.026	e0.026	1.12	0.52	0.33	e0.028	e0.020	0.007	0.003
4	e0.001	e0.004	0.021	0.024	0.026	0.85	0.45	0.21	e0.025	e0.022	0.008	0.005
5	e0.001	e0.004	0.019	0.023	e0.025	0.30	0.26	0.15	e0.027	e0.023	0.007	0.003
6	e0.003	e0.007	0.019	0.023	0.024	0.18	0.19	0.13	e0.057	e0.024	0.007	0.002
7	e0.005	0.004	0.017	0.024	e0.023	0.14	0.15	e0.11	e0.040	e0.023	0.006	0.002
8	e0.004	0.004	0.014	e0.021	e0.022	0.12	0.13	0.096	e0.032	e0.022	e0.005	0.001
9	e0.004	0.006	0.013	e0.021	e0.022	0.11	0.13	0.086	e0.029	e0.022	e0.004	0.001
10	e0.003	0.005	0.012	e0.021	e0.022	0.94	0.14	0.16	e0.026	e0.021	0.003	0.001
11	e0.003	0.005	0.012	e0.021	0.63	0.40	0.13	0.11	0.026	0.019	0.003	0.002
12	e0.002	0.004	0.011	e0.020	0.21	0.20	0.11	0.090	0.063	0.018	0.003	0.004
13	e0.002	e0.004	0.015	0.022	0.12	0.16	0.11	0.082	e0.055	0.016	0.002	0.003
14	e0.002	e0.004	0.022	0.020	0.082	0.18	0.82	0.25	e0.035	0.015	0.002	0.002
15	e0.004	e0.004	0.019	0.019	0.070	0.16	0.64	0.19	e0.029	0.021	0.002	0.003
16	e0.003	e0.004	0.016	0.020	0.082	0.12	0.39	0.14	0.067	0.022	0.002	0.007
17	e0.008	e0.004	0.015	0.020	0.079	0.10	0.27	0.14	0.058	0.019	0.002	0.004
18	0.004	e0.004	0.016	0.020	0.064	0.093	0.30	0.14	0.043	0.016	0.002	0.002
19	0.003	e0.004	0.014	0.019	0.058	0.085	0.22	0.14	0.036	e0.013	0.001	0.002
20	0.003	e0.005	0.014	0.019	0.055	0.079	0.19	0.11	0.030	e0.015	0.001	0.002
21	0.003	0.004	0.015	0.019	0.12	0.085	0.16	0.098	0.024	e0.012	0.001	0.002
22	0.003	0.004	0.013	0.019	0.20	0.078	0.13	0.087	0.021	e0.010	0.001	0.002
23	0.003	0.004	0.013	0.023	0.16	0.066	0.12	0.079	0.018	e0.011	0.001	0.011
24	0.004	0.004	0.15	e0.042	0.12	0.061	0.10	0.071	0.017	e0.008	0.002	0.005
25	0.005	0.004	e0.42	e0.046	0.095	0.057	0.095	0.062	0.015	0.008	0.003	0.003
26	0.005	0.008	e0.14	0.034	0.096	0.056	0.11	e0.055	0.019	0.007	0.002	0.003
27	0.004	0.007	e0.086	0.030	2.02	0.54	0.14	e0.049	0.026	0.007	0.002	0.005
28	0.003	0.006	e0.060	0.032	0.88	0.37	0.13	e0.043	0.017	0.008	0.002	0.033
29	0.003	0.007	e0.047	0.035	---	0.25	0.11	e0.036	0.013	0.015	0.002	0.007
30	0.003	0.030	e0.039	0.032	---	0.51	0.13	e0.033	0.010	0.011	0.002	0.005
31	0.003	---	0.034	0.029	---	0.53	---	e0.031	---	0.009	0.001	---
TOTAL	0.101	0.170	1.384	0.783	5.390	8.420	7.695	3.848	0.944	0.498	0.099	0.127
MEAN	0.003	0.006	0.045	0.025	0.19	0.27	0.26	0.12	0.031	0.016	0.003	0.004
MAX	0.008	0.030	0.42	0.046	2.02	1.12	0.85	0.33	0.067	0.030	0.008	0.033
MIN	0.001	0.004	0.011	0.019	0.022	0.056	0.095	0.031	0.010	0.007	0.001	0.001

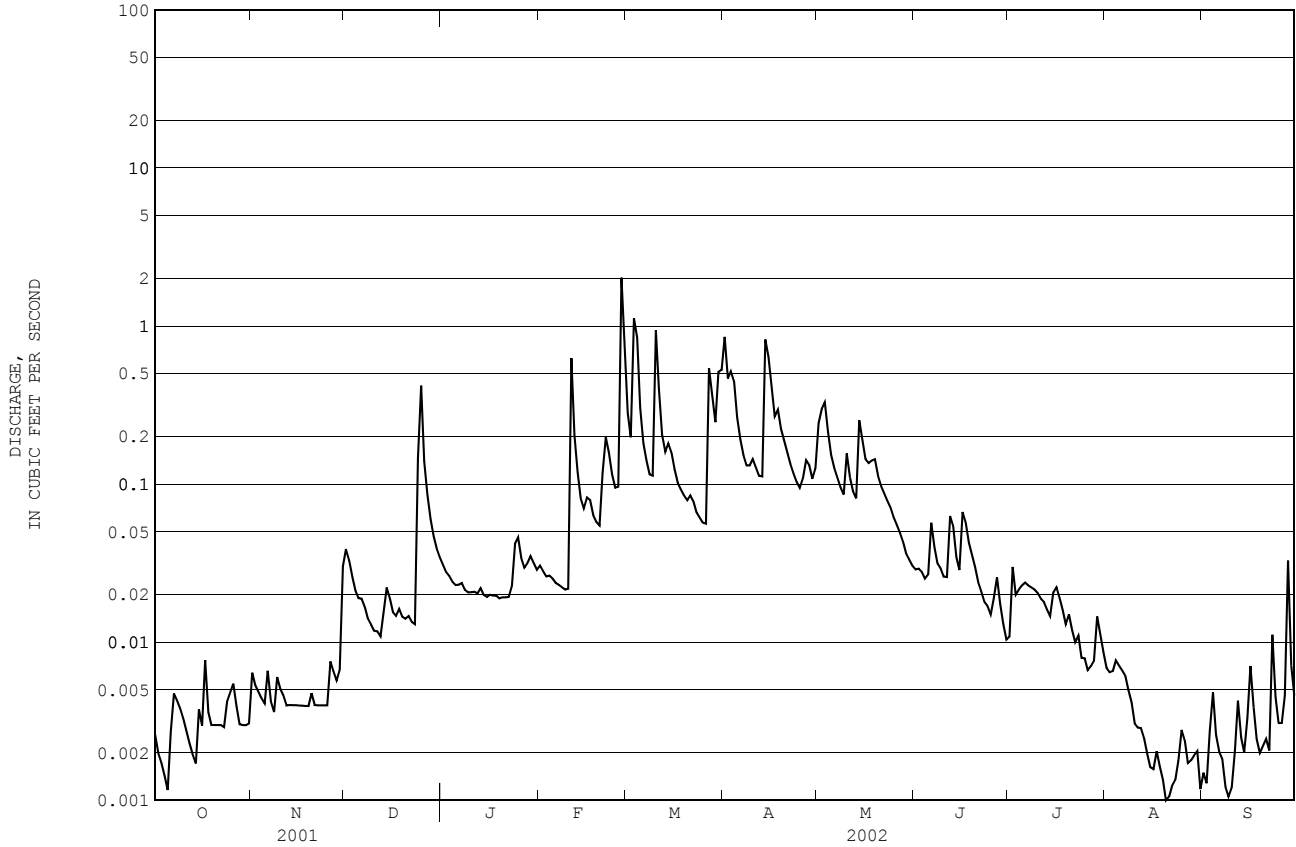
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	0.069	0.14	0.13	0.12	0.089	0.20	0.25	0.15	0.057	0.032	0.009	0.019
MEAN	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	1996	1999
MIN	0.001	0.004	0.035	0.020	0.017	0.017	0.11	0.050	0.016	0.001	0.001	0.002
(WY)	2002	2002	1990	1989	2001	2001	1999	2001	1991	1991	2001	2000

e Estimated

01022295 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1988 - 2002	
ANNUAL TOTAL	15.170	29.220	0.11	
ANNUAL MEAN	0.042	0.080	0.15	1996
HIGHEST ANNUAL MEAN			0.057	2001
LOWEST ANNUAL MEAN			4.25	Mar 27 1988
HIGHEST DAILY MEAN	1.34 Apr 22	2.02 Feb 27	0.000	Jul 16 1988
LOWEST DAILY MEAN	0.000 Jul 25	0.001 Oct 4	0.000	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	0.00 Jul 25	0.00 Oct 1	4.78	Feb 27
MAXIMUM PEAK FLOW			6.04	Feb 27
MAXIMUM PEAK STAGE			0.001	Aug 31
INSTANTANEOUS LOW FLOW			0.230	
10 PERCENT EXCEEDS	0.058	0.190	0.048	
50 PERCENT EXCEEDS	0.014	0.021	0.004	
90 PERCENT EXCEEDS	0.002	0.002		



NARRAGUAGUS RIVER BASIN

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME

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

DRAINAGE AREA.--227 mi².

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

Chemical analyses: Water years 1954, 1978 to 1986.
 Specific conductance: January 1978 to September 1981.
 Water 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, Dec. 10-24 and Jan. 2 to Feb. 10, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s, May 28, 1961, gage height, 17.40 ft; minimum discharge, 3.0 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 28	1545	2,470	12.09	Apr 2	0400	2,540	12.16
Mar 4	0700	*2,580	*12.20	Apr 16	0430	2,080	11.66
Mar 28	0045	2,280	11.89				

Minimum discharge, 27 ft³/s, Oct. 11-14, Aug. 21-23, and Sept. 10-11.

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	48	48	112	123	e145	2190	2060	902	229	111	92	33
2	43	58	118	e102	e137	1850	2480	903	218	124	74	31
3	41	53	108	e95	e130	1850	2210	1040	216	185	65	32
4	38	51	100	e87	e124	2540	2060	993	195	387	61	38
5	35	49	92	e81	e120	2170	1830	848	180	446	58	44
6	34	51	85	e79	e114	1710	1540	715	213	404	55	38
7	34	55	78	e83	e108	1280	1240	606	274	349	50	35
8	36	52	72	e83	e103	968	1010	527	255	289	48	32
9	32	51	68	e79	e99	789	862	461	229	238	45	30
10	30	50	e60	e77	e95	889	822	463	245	199	43	29
11	28	53	e56	e77	540	1240	764	465	225	160	41	29
12	29	51	e53	e77	771	1250	696	427	275	133	39	33
13	28	49	e58	e82	668	1080	633	393	433	116	38	34
14	28	48	e62	e105	567	891	1210	591	388	104	37	31
15	30	47	e67	e117	481	776	1780	877	324	97	35	33
16	31	48	e64	e110	442	708	2050	788	354	104	35	50
17	58	46	e58	e102	441	631	1830	693	353	106	35	67
18	70	48	e56	e97	392	560	1700	637	329	98	33	55
19	58	69	e55	e93	338	502	1490	710	297	90	31	46
20	49	74	e54	e88	301	455	1260	631	256	91	30	42
21	43	72	e53	e84	351	465	1030	543	221	82	29	40
22	40	67	e52	e82	606	528	846	470	193	76	29	38
23	38	61	e52	e82	658	482	727	413	169	72	29	51
24	43	56	e65	e111	598	440	640	367	160	68	29	67
25	42	52	341	e191	520	409	576	329	144	64	35	57
26	42	54	359	e215	473	384	607	296	128	58	36	50
27	50	55	295	e198	981	1290	782	279	136	54	33	48
28	44	56	234	e185	2370	2090	719	263	145	57	33	116
29	41	57	193	e179	---	1760	732	247	136	61	33	160
30	40	78	157	e167	---	1640	850	236	121	107	37	113
31	38	---	137	e154	---	1890	---	235	---	110	36	---
TOTAL	1241	1659	3414	3485	12673	35707	37036	17348	7041	4640	1304	1502
MEAN	40.0	55.3	110	112	453	1152	1235	560	235	150	42.1	50.1
MAX	70	78	359	215	2370	2540	2480	1040	433	446	92	160
MIN	28	46	52	77	95	384	576	235	121	54	29	29
CFSM	0.18	0.24	0.49	0.50	1.99	5.07	5.44	2.47	1.03	0.66	0.19	0.22
IN.	0.20	0.27	0.56	0.57	2.08	5.85	6.07	2.84	1.15	0.76	0.21	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2002, BY WATER YEAR (WY)

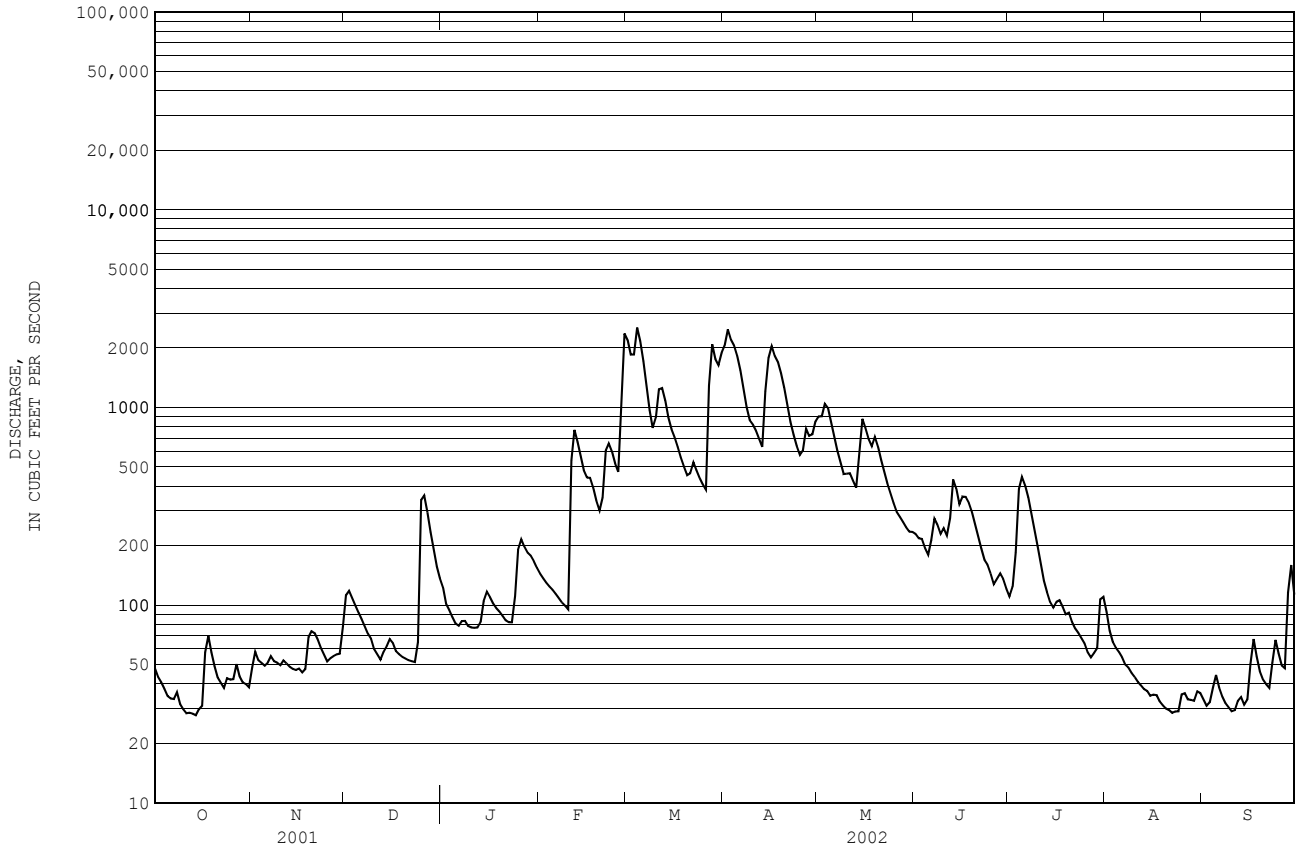
MEAN	261	563	630	507	477	735	1204	671	337	190	128	161
MAX	1074	1317	1533	1118	1125	1738	1945	1962	877	859	526	947
(WY)	1978	1960	1970	1958	1976	1998	1982	1989	1984	1996	1986	1954
MIN	34.3	55.3	87.7	112	121	153	473	299	119	47.2	28.8	32.3
(WY)	1958	2002	1956	2002	1980	1967	1985	1999	1964	1965	1965	1968

e Estimated

NARRAGUAGUS RIVER BASIN

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1948 - 2002	
ANNUAL TOTAL	78787		127050			
ANNUAL MEAN	216		348		488	
HIGHEST ANNUAL MEAN					761	1973
LOWEST ANNUAL MEAN					256	2001
HIGHEST DAILY MEAN	1750	Apr 14	2540	Mar 4	9490	May 28 1961
LOWEST DAILY MEAN	19	Sep 19	28	Oct 11	7.1	Sep 5 1978
ANNUAL SEVEN-DAY MINIMUM	20	Sep 15	29	Oct 10	20	Sep 15 2001
MAXIMUM PEAK FLOW			2580	Mar 4	10400	May 28 1961
MAXIMUM PEAK STAGE			12.20	Mar 4	17.40	May 28 1961
INSTANTANEOUS LOW FLOW			27	Oct 11	3.0	Sep 2 1978
ANNUAL RUNOFF (CFSM)	0.95		1.53		2.15	
ANNUAL RUNOFF (INCHES)	12.91		20.82		29.23	
10 PERCENT EXCEEDS	486		929		1140	
50 PERCENT EXCEEDS	108		110		298	
90 PERCENT EXCEEDS	30		35		71	



OTTER CREEK BASIN

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 mi². 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 period of ice effect, Feb. 1, periods of doubtful stage-discharge relation, Oct. 25, Nov. 7-9, and no gage-height record, Oct. 7-19. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26 ft³/s, Sept. 22, 1999, from rating curve extended above 6.5 ft³/s, gage height, 1.94 ft; no flow for many days in 1999-2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 24	1930	12	1.77	Apr 1	1020	*22	*1.90
Mar 27	1105	15	1.82	May 14	0850	12	1.78

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

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	0.001	0.35	0.66	0.07	e0.16	0.34	4.0	1.3	0.04	0.010	0.000	0.000
2	0.001	0.23	0.32	0.07	0.28	0.23	0.70	1.1	0.03	0.02	0.000	0.000
3	0.001	0.14	0.19	0.06	0.17	2.3	0.86	1.1	0.03	0.01	0.000	0.000
4	0.001	0.11	0.13	0.05	0.13	1.1	0.67	0.44	0.02	0.010	0.000	0.000
5	0.001	0.09	0.11	0.05	0.10	0.33	0.32	0.25	0.03	0.009	0.000	0.000
6	0.002	0.18	0.10	0.05	0.09	0.20	0.21	0.17	0.04	0.008	0.001	0.000
7	e0.002	e0.18	0.09	0.06	0.08	0.15	0.15	0.13	0.03	0.007	0.000	0.000
8	e0.002	e0.12	0.07	0.06	0.08	0.12	0.12	0.10	0.04	0.006	0.000	0.000
9	e0.002	e0.19	0.06	0.05	0.07	0.12	0.12	0.08	0.03	0.006	0.000	0.000
10	e0.002	0.23	0.06	0.05	0.08	1.1	0.24	0.17	0.04	0.005	0.000	0.000
11	e0.003	0.19	0.08	0.06	2.5	0.45	0.19	0.13	0.03	0.004	0.000	0.000
12	e0.003	0.14	0.09	0.07	0.46	0.22	0.14	0.09	0.94	0.003	0.000	0.000
13	e0.003	0.12	0.39	0.14	0.24	0.17	0.13	0.08	0.54	0.003	0.000	0.000
14	e0.003	0.11	0.49	0.19	0.15	0.16	1.5	3.9	0.21	0.002	0.000	0.000
15	e0.02	0.10	0.33	0.13	0.13	0.13	2.4	0.62	0.18	0.002	0.000	0.000
16	e0.009	0.09	0.19	0.11	0.28	0.12	0.67	0.28	1.1	0.002	0.000	0.002
17	e0.90	0.09	0.12	0.09	0.40	0.10	0.36	0.20	0.34	0.002	0.000	0.007
18	e0.21	0.09	0.17	0.09	0.24	0.09	0.30	0.40	0.16	0.002	0.000	0.001
19	e0.08	0.09	0.13	0.08	0.16	0.08	0.22	0.66	0.09	0.002	0.000	0.000
20	0.07	0.08	0.37	0.08	0.13	0.07	0.20	0.29	0.07	0.002	0.000	0.000
21	0.05	0.07	1.2	0.08	2.0	0.10	0.15	0.18	0.05	0.002	0.000	0.000
22	0.05	0.08	0.32	0.08	1.7	0.21	0.11	0.13	0.04	0.002	0.000	0.000
23	0.04	0.08	0.18	0.23	0.67	0.14	0.09	0.10	0.04	0.002	0.000	1.8
24	0.08	0.08	1.7	1.8	0.34	0.12	0.09	0.09	0.03	0.001	0.000	0.39
25	e0.09	0.07	1.5	1.1	0.24	0.13	0.08	0.07	0.02	0.001	0.000	0.11
26	0.10	0.41	0.38	0.41	0.28	0.13	0.19	0.06	0.02	0.001	0.000	0.06
27	0.08	0.41	0.24	0.29	3.3	7.6	0.49	0.06	0.02	0.001	0.000	0.04
28	0.07	0.21	0.16	0.27	1.1	0.91	0.44	0.05	0.02	0.001	0.000	1.9
29	0.06	0.43	0.13	0.29	---	0.43	0.64	0.05	0.02	0.001	0.000	0.28
30	0.05	1.6	0.10	0.24	---	2.6	0.94	0.04	0.01	0.001	0.000	0.11
31	0.05	---	0.09	0.16	---	0.76	---	0.04	---	0.001	0.000	---
TOTAL	2.036	6.36	10.15	6.56	15.56	20.71	16.72	12.36	4.26	0.129	0.001	4.700
MEAN	0.066	0.21	0.33	0.21	0.56	0.67	0.56	0.40	0.14	0.004	0.000	0.16
MAX	0.90	1.6	1.7	1.8	3.3	7.6	4.0	3.9	1.1	0.02	0.001	1.9
MIN	0.001	0.07	0.06	0.05	0.07	0.07	0.08	0.04	0.01	0.001	0.000	0.000

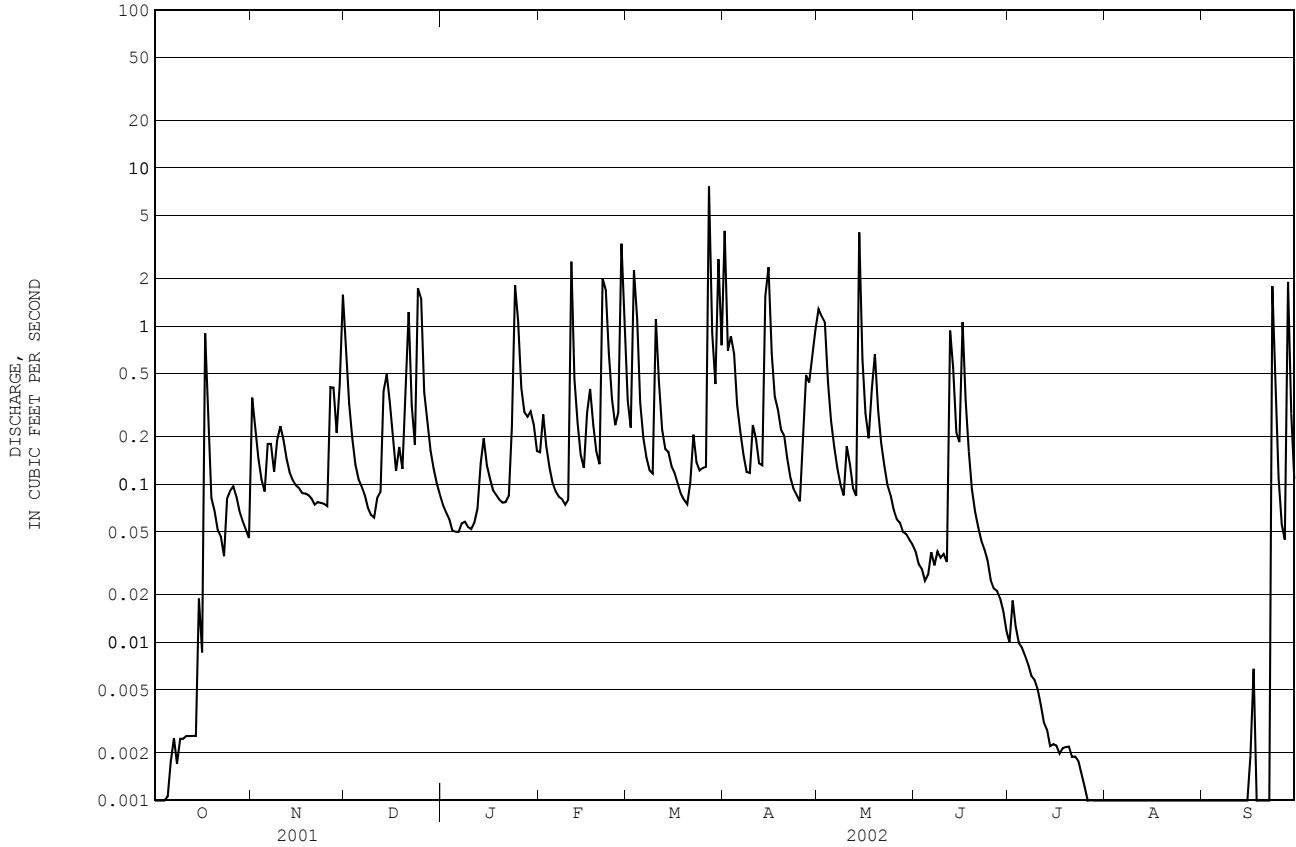
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	0.30	0.38	0.39	0.15	0.45	0.53	0.71	0.24	0.11	0.032	0.003	0.19
MAX	0.51	0.50	0.49	0.21	0.56	0.67	0.95	0.40	0.26	0.11	0.011	0.56
(WY)	2000	2001	2001	2002	2002	2002	2001	2002	2001	2000	2000	1999
MIN	0.065	0.21	0.33	0.056	0.32	0.39	0.56	0.071	0.017	0.000	0.000	0.006
(WY)	2002	2002	2002	2001	2001	2001	2002	2001	1999	1999	2001	2001

e Estimated

01022835 CADILLAC BROOK NEAR BAR HARBOR, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1999 - 2002	
ANNUAL TOTAL	80.360	99.500		
ANNUAL MEAN	0.22	0.27	0.28	
HIGHEST ANNUAL MEAN			0.29	2000
LOWEST ANNUAL MEAN			0.27	2002
HIGHEST DAILY MEAN	2.8 Apr 22	7.6 Mar 27	7.9	Sep 22 1999
LOWEST DAILY MEAN	0.000 Jul 29	0.000 Oct 1	0.000	Jul 12 1999
ANNUAL SEVEN-DAY MINIMUM	0.00 Jul 29	0.00 Oct 1	0.00	Jul 15 1999
MAXIMUM PEAK FLOW		22 Apr 1	26	Sep 22 1999
MAXIMUM PEAK STAGE		1.90 Apr 1	1.94	Sep 22 1999
INSTANTANEOUS LOW FLOW		0.00 Oct 1	0.00	Jul 7 1999
10 PERCENT EXCEEDS	0.72	0.66	0.73	
50 PERCENT EXCEEDS	0.07	0.09	0.08	
90 PERCENT EXCEEDS	0.00	0.00	0.00	



HADLOCK BROOK BASIN

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, 0.3 mi northwest of Cedar Swamp Mountain.

DRAINAGE AREA.--0.182 mi². 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, Dec. 15-19, Jan. 2-13, 16-22, Feb. 1-2, 14-15 and periods of doubtful stage-discharge relation, Oct. 29-30, Mar. 21, 23, June 23-24. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71 ft³/s, Mar. 27, 2002, from rating curve extended above 9.8 ft³/s, gage height, 4.77 ft; maximum gage-height, 4.81 ft, Feb. 14, 2000 (backwater from ice); no flow for many days in 1999, 2001-2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 24	1935	32 ^a	4.54	Mar 30	1030	19	4.41
Feb 11	0335	26 ^a	4.49	Apr 1	1020	16	4.38
Mar 27	1150	*71 ^a	*4.77				

No flow for many days in August and September.

^a From rating curve extended above 9.8 ft³/s

**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	0.01	0.30	0.81	0.13	e0.30	0.48	4.0	1.9	0.11	0.05	0.008	0.002
2	0.010	0.18	0.41	e0.12	e0.33	0.32	1.1	1.6	0.08	0.11	0.009	0.002
3	0.010	0.17	0.25	e0.11	0.26	3.8	1.3	1.3	0.07	0.07	0.009	0.01
4	0.010	0.14	0.20	e0.08	0.20	1.5	1.1	0.56	0.07	0.05	0.008	0.01
5	0.009	0.11	0.17	e0.08	0.17	0.49	0.54	0.35	0.07	0.05	0.009	0.010
6	0.01	0.50	0.15	e0.08	0.14	0.30	0.38	0.27	0.13	0.05	0.01	0.005
7	0.02	0.25	0.13	e0.09	0.13	0.24	0.29	0.21	0.11	0.05	0.01	0.001
8	0.01	0.15	0.11	e0.08	0.12	0.21	0.23	0.18	0.08	0.04	0.005	0.001
9	0.02	0.17	0.11	e0.07	0.11	0.19	0.23	0.16	0.07	0.04	0.003	0.000
10	0.02	0.16	0.09	e0.07	0.13	1.2	0.43	0.28	0.07	0.03	0.002	0.000
11	0.02	0.13	0.10	e0.07	5.4	0.56	0.34	0.19	0.07	0.02	0.002	0.000
12	0.02	0.11	0.10	e0.08	0.80	0.30	0.26	0.16	0.82	0.02	0.004	0.006
13	0.02	0.10	0.24	e0.18	0.35	0.24	0.27	0.17	0.53	0.02	0.002	0.000
14	0.02	0.09	0.39	0.23	e0.27	0.23	2.9	4.2	0.28	0.02	0.001	0.000
15	0.04	0.08	e0.30	0.18	e0.20	0.21	3.6	0.95	0.30	0.02	0.001	0.009
16	0.02	0.08	e0.20	e0.16	0.38	0.18	1.2	0.44	1.5	0.03	0.003	0.34
17	1.0	0.07	e0.15	e0.14	0.42	0.16	0.60	0.31	0.48	0.02	0.003	0.09
18	0.19	0.07	e0.18	e0.13	0.28	0.14	0.49	0.59	0.29	0.02	0.000	0.04
19	0.10	0.07	e0.14	e0.11	0.23	0.13	0.38	0.84	0.20	0.01	0.000	0.02
20	0.07	0.07	0.45	e0.11	0.19	0.12	0.35	0.40	0.16	0.02	0.000	0.02
21	0.06	0.06	1.4	e0.10	2.1	e0.14	0.26	0.29	0.14	0.01	0.000	0.01
22	0.06	0.06	0.42	e0.11	1.9	0.19	0.22	0.21	0.12	0.01	0.000	0.01
23	0.05	0.06	0.28	0.45	0.93	e0.13	0.19	0.18	e0.10	0.01	0.000	1.7
24	0.08	0.06	4.5	2.4	0.46	0.13	0.17	0.16	e0.09	0.01	0.000	0.39
25	0.07	0.06	2.2	1.5	0.31	0.12	0.15	0.14	0.08	0.010	0.006	0.16
26	0.10	0.29	0.56	0.54	0.33	0.12	0.33	0.12	0.07	0.009	0.006	0.10
27	0.08	0.27	0.35	0.40	4.0	17	0.64	0.12	0.06	0.010	0.000	0.08
28	0.07	0.18	0.27	0.35	1.5	1.4	0.59	0.10	0.05	0.010	0.000	2.3
29	e0.05	0.39	0.21	0.38	---	0.66	0.80	0.09	0.05	0.01	0.000	0.38
30	e0.04	1.5	0.16	0.33	---	4.1	1.5	0.09	0.05	0.01	0.02	0.19
31	0.04	---	0.14	0.29	---	1.3	---	0.10	---	0.009	0.005	---
TOTAL	2.329	5.93	15.17	9.15	21.94	36.29	24.84	16.66	6.30	0.848	0.126	5.886
MEAN	0.075	0.20	0.49	0.30	0.78	1.17	0.83	0.54	0.21	0.027	0.004	0.20
MAX	1.0	1.5	4.5	2.4	5.4	17	4.0	4.2	1.5	0.11	0.02	2.3
MIN	0.009	0.06	0.09	0.07	0.11	0.12	0.15	0.09	0.05	0.009	0.000	0.000

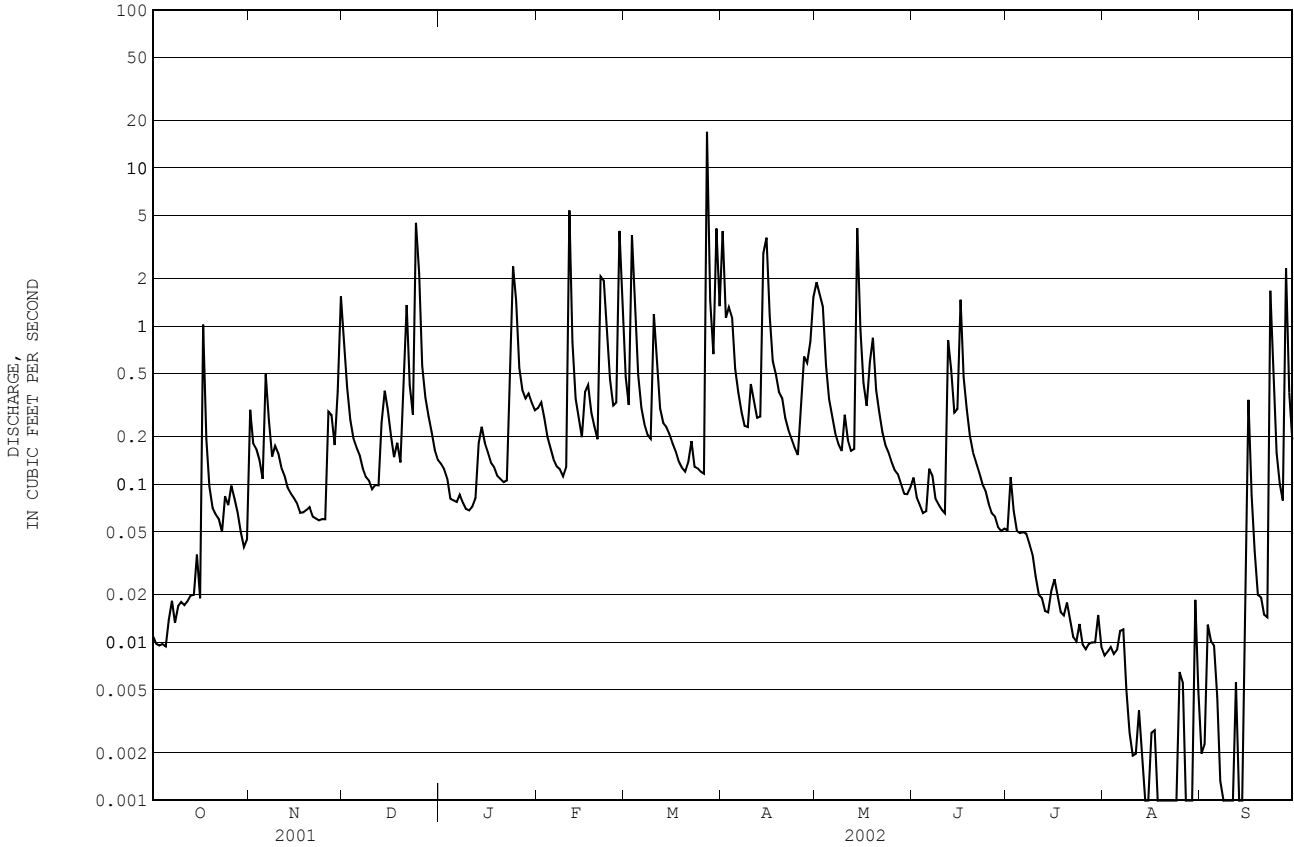
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	0.38	0.53	0.60	0.28	0.70	0.90	1.18	0.37	0.19	0.059	0.009	0.25
MAX	0.53	0.70	0.67	0.47	0.86	1.17	1.50	0.54	0.45	0.17	0.018	0.76
(WY)	2001	2000	2001	2000	2000	2002	2001	2002	2001	2000	2000	1999
MIN	0.075	0.20	0.49	0.068	0.45	0.41	0.83	0.19	0.039	0.010	0.003	0.018
(WY)	2002	2002	2002	2001	2001	2001	2002	2001	1999	1999	1999	2001

e Estimated

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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1999 - 2002	
ANNUAL TOTAL	117.120	145.460		
ANNUAL MEAN	0.32	0.40	0.45	
HIGHEST ANNUAL MEAN			0.52	2000
LOWEST ANNUAL MEAN			0.40	2002
HIGHEST DAILY MEAN	4.5 Dec 24	17 Mar 27	17	Mar 27 2002
LOWEST DAILY MEAN	0.000 Aug 16	0.000 Aug 9	0.000	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	0.00 Sep 12	0.00 Aug 9	0.00	Aug 30 1999
MAXIMUM PEAK FLOW		71 Mar 27	71	Mar 27 2002
MAXIMUM PEAK STAGE		4.77 Mar 27	4.81	Feb 14 2000
INSTANTANEOUS LOW FLOW		0.00 Aug 14	0.00	Jul 28 1999
10 PERCENT EXCEEDS	0.73	0.88	1.1	
50 PERCENT EXCEEDS	0.09	0.13	0.14	
90 PERCENT EXCEEDS	0.01	0.01	0.01	



PENOBSCOT RIVER BASIN

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 Route 159 crossing in T6 R7, 200 ft downstream from Sawtelle Brook.

DRAINAGE AREA.---173 mi².

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, Nov. 13-14, 29-30, Dec. 9-12, and Dec. 15 to Mar.31, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 3,100 ft³/s, Apr. 10, 2000, gage height, 10.58 ft; minimum discharge, 4.3 ft³/s, Sept. 3, 2002, gage height, 3.94 ft.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 1,980 ft³/s, Apr. 15, gage height, 8.80 ft; minimum discharge, 4.3 ft³/s, Sept. 3, gage height, 3.94 ft.

**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	53	51	64	e86	e63	e112	298	575	270	45	68	5.0
2	46	49	95	e85	e62	e109	369	540	260	51	58	4.6
3	40	50	115	e83	e62	e105	423	536	234	59	53	4.5
4	35	51	114	e83	e61	e112	558	514	200	57	48	6.4
5	32	49	113	e82	e61	e114	621	463	178	70	44	11
6	31	49	122	e81	e60	e109	616	429	174	79	41	11
7	35	48	143	e80	e59	e103	578	402	160	78	42	8.1
8	33	43	130	e79	e59	e93	554	417	143	70	39	7.0
9	30	42	e113	e79	e58	e86	569	383	137	95	33	6.3
10	27	48	e104	e78	e58	e129	781	379	131	135	30	5.6
11	25	51	e102	e78	e58	e205	943	360	126	105	27	8.8
12	22	49	e93	e77	e57	e210	1000	323	141	86	24	32
13	21	e46	97	e76	e57	e199	1200	295	136	75	21	32
14	19	e43	100	e75	e56	e189	1630	311	121	70	19	22
15	19	44	e94	e75	e56	e180	1920	451	108	79	17	17
16	20	46	e96	e74	e57	e172	1820	557	111	134	17	17
17	27	48	e86	e73	e58	e167	1760	560	116	125	16	18
18	50	45	e81	e72	e55	e161	1780	517	111	109	14	17
19	55	43	e77	e72	e54	e157	1770	495	104	93	13	14
20	47	44	e74	e71	e55	e152	1610	460	92	86	12	13
21	43	48	e71	e70	e60	e147	1430	421	82	77	11	11
22	43	47	e68	e69	e67	e143	1220	388	75	67	9.8	10
23	40	45	e67	e69	e69	e139	1060	351	65	77	10	10
24	40	44	e66	e69	e64	e135	923	321	68	115	9.6	9.8
25	45	42	e65	e68	e62	e131	807	298	58	90	8.4	9.2
26	75	44	e97	e67	e62	e129	744	265	52	72	8.0	8.3
27	85	46	e95	e66	e74	e157	745	254	56	62	7.4	7.7
28	74	46	e93	e66	e99	e145	671	235	58	56	6.8	14
29	65	e44	e91	e65	---	e139	627	213	51	66	6.1	18
30	60	e66	e89	e64	---	e174	606	209	46	82	5.9	15
31	55	---	e87	e63	---	e234	---	238	---	82	5.5	---
TOTAL	1292	1411	2902	2295	1723	4537	29633	12160	3664	2547	724.5	373.3
MEAN	41.7	47.0	93.6	74.0	61.5	146	988	392	122	82.2	23.4	12.4
MAX	85	66	143	86	99	234	1920	575	270	135	68	32
MIN	19	42	64	63	54	86	298	209	46	45	5.5	4.5
CFSM	0.24	0.27	0.54	0.43	0.36	0.85	5.71	2.27	0.71	0.47	0.14	0.07
IN.	0.28	0.30	0.62	0.49	0.37	0.98	6.37	2.61	0.79	0.55	0.16	0.08

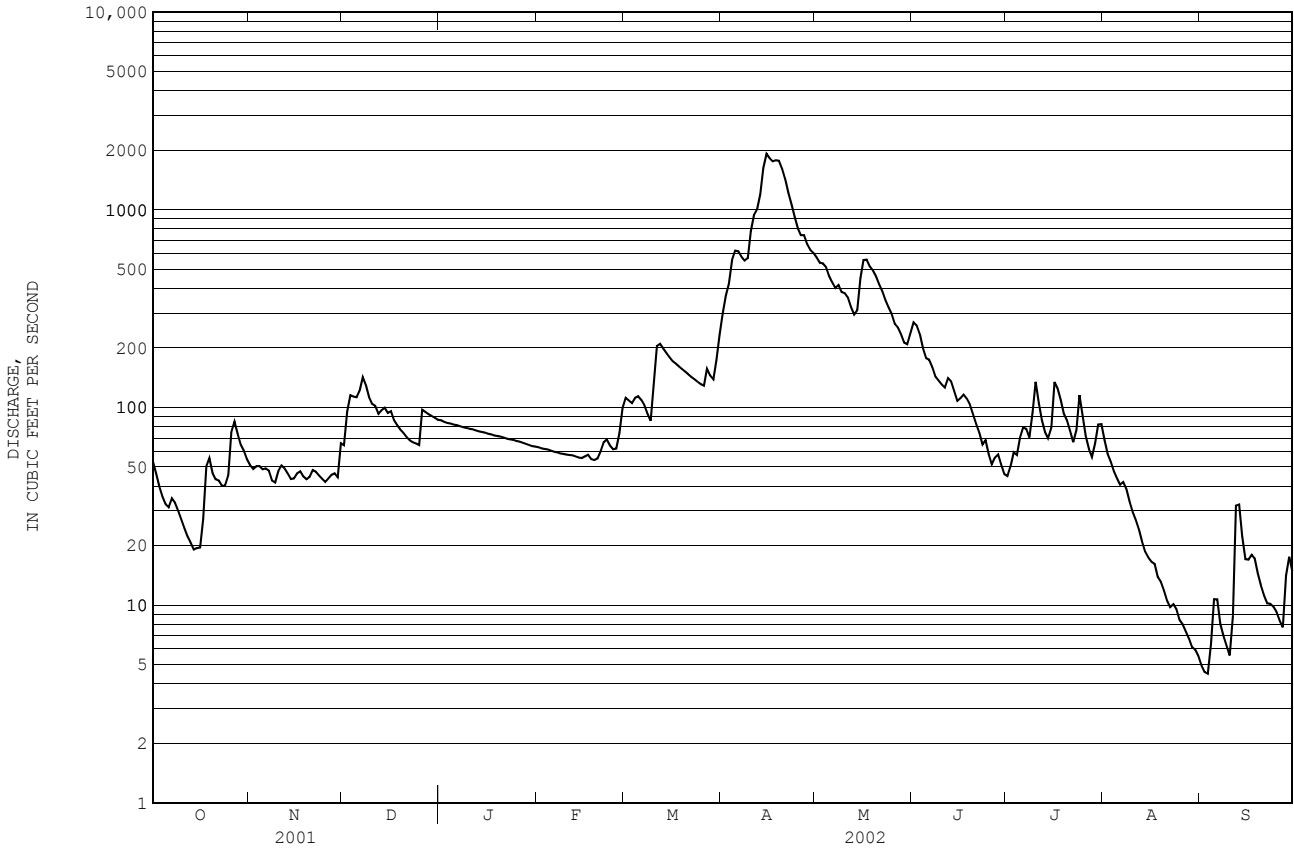
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002
MEAN	141	180	209	128	100	283	1161	460	158	112	83.7	135	135	135	135
MAX	404	363	370	183	182	572	1670	706	192	239	233	535	535	535	535
(WY)	2000	2000	2000	1999	1999	1999	2000	2000	2001	1998	1999	1999	1999	1999	1999
MIN	41.7	47.0	93.6	74.0	61.5	85.4	630	276	122	69.3	23.4	12.4	12.4	12.4	12.4
(WY)	2002	2002	2002	2002	2002	2001	2001	1999	2002	2000	2002	2002	2002	2002	2002

e Estimated

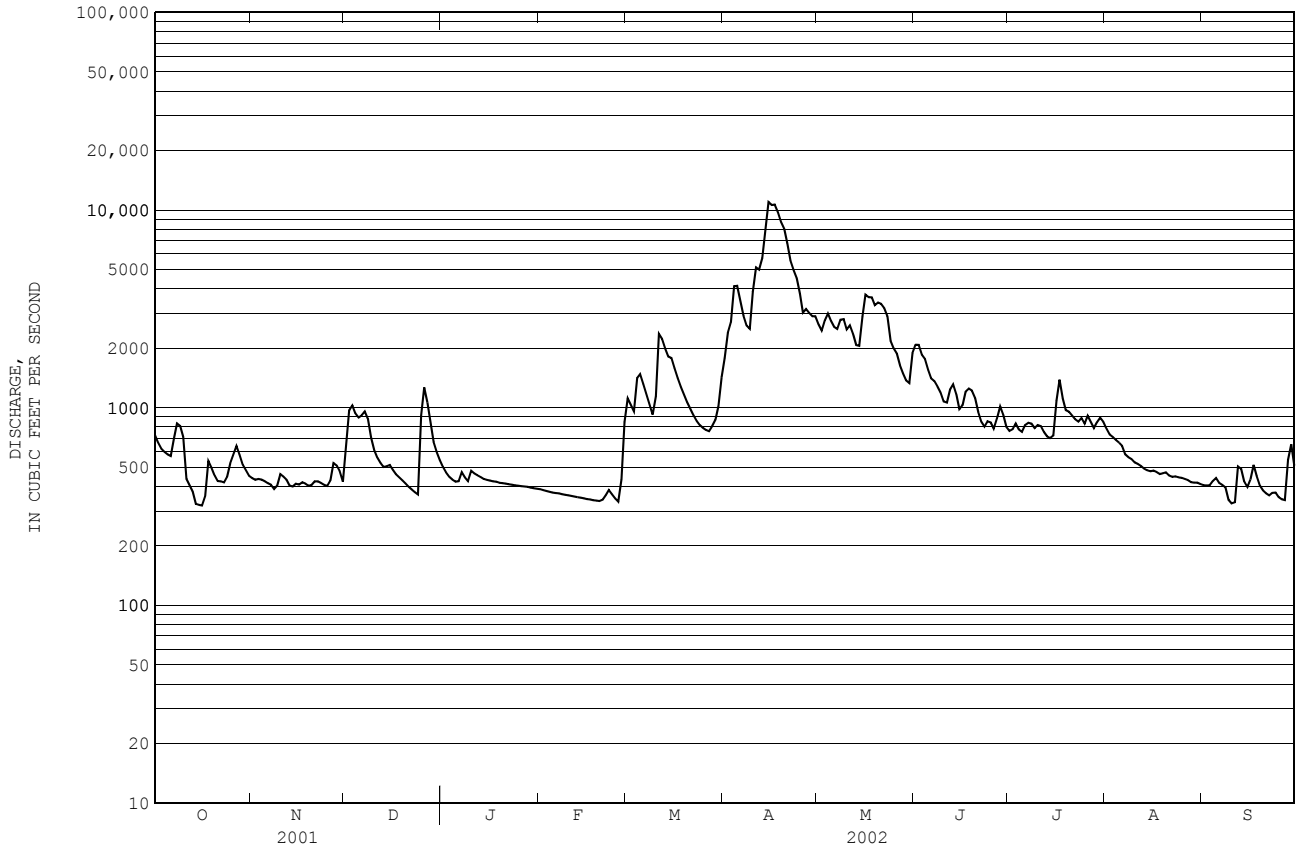
01029200 SEBOEIS RIVER NEAR SHIN POND, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	58048.7		63261.8		253	
ANNUAL MEAN	159		173		359	
HIGHEST ANNUAL MEAN					173	
LOWEST ANNUAL MEAN					2880	
HIGHEST DAILY MEAN	2250	Apr 25	1920	Apr 15	2880	Apr 10 2000
LOWEST DAILY MEAN	6.4	Sep 20	4.5	Sep 3	4.5	Sep 3 2002
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 16	5.4	Aug 29	5.4	Aug 29 2002
MAXIMUM PEAK FLOW			1980		3100	
MAXIMUM PEAK STAGE			8.80		10.58	
INSTANTANEOUS LOW FLOW			4.3		4.3	
ANNUAL RUNOFF (CFSM)	0.92		1.00		1.46	
ANNUAL RUNOFF (INCHES)	12.48		13.60		19.85	
10 PERCENT EXCEEDS	324		461		613	
50 PERCENT EXCEEDS	78		72		121	
90 PERCENT EXCEEDS	19		16		31	



EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	427474		437384			
ANNUAL MEAN	1171		1198		1940	
HIGHEST ANNUAL MEAN					2952	1958
LOWEST ANNUAL MEAN					1028	1911
HIGHEST DAILY MEAN	12600	Apr 25	11000	Apr 15	33700	Apr 30 1923
LOWEST DAILY MEAN	321	Oct 16	321	Oct 16	77	Nov 19 1924
ANNUAL SEVEN-DAY MINIMUM	364	Oct 11	343	Feb 15	117	Dec 25 1914
MAXIMUM PEAK FLOW			11300	Apr 15	37000	Apr 30 1923
MAXIMUM PEAK STAGE			9.70	Apr 15	16.90	Apr 30 1923
ANNUAL RUNOFF (CFSM)	1.08		1.10		1.79	
ANNUAL RUNOFF (INCHES)	14.64		14.98		24.27	
10 PERCENT EXCEEDS	2310		2800		4600	
50 PERCENT EXCEEDS	665		616		1130	
90 PERCENT EXCEEDS	428		374		425	



PENOBSCOT RIVER BASIN

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 mi².

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

Chemical analyses: Water year 1954.

REVISED RECORDS.---WSP 1501: Drainage area.

GAGE.---Water-stage recorder. Elevation of gage is 217 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 11, 1991, at site 0.5 mile upstream at datum 12.94 ft higher. Mar. 11, 1991 to May 29, 1996 at site 0.5 mile upstream at datum 10.94 ft higher.

REMARKS.---Records good, except for periods of ice effect, Dec. 16-26 and Dec. 28 to Mar.29, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 29,200 ft³/s, Mar. 23, 1936, gage height, 15.34 ft, former site and datum; minimum discharge, 30 ft³/s, Sept. 7, 1995.

EXTREMES OUTSIDE PERIOD OF RECORD.---The flood of May 1, 1923 has been estimated as 46,600 ft³/s, based on flow for the Mattawamkeag River at Mattawamkeag (station 01031000); gage height unknown.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 15,000 ft³/s, Apr. 17, gage height, 12.79 ft; minimum discharge, 51 ft³/s, Sept. 11, gage height, 3.48 ft.

**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	532	300	409	e750	e197	e2590	4920	4230	1980	413	847	75
2	482	283	475	e701	e193	e3590	6660	4240	2140	406	779	70
3	432	276	567	e649	e190	e4190	8530	4250	2060	415	658	67
4	386	268	676	e604	e186	e5500	10900	4230	1840	426	560	66
5	343	262	784	e562	e182	e5950	12900	4060	1600	534	481	67
6	303	255	839	e520	e179	e6260	13500	3690	1450	1060	422	65
7	277	245	891	e487	e175	e5930	13100	3280	1350	1370	404	62
8	255	247	968	e459	e172	e5520	12300	2950	1220	1220	435	58
9	234	255	997	e433	e169	e5060	11100	2680	1070	1070	477	56
10	222	241	884	e411	e166	e4960	10000	2560	1020	853	452	54
11	209	234	819	e390	e200	e5640	10000	2510	956	753	393	57
12	194	229	757	e373	e252	e6430	10500	2390	957	678	338	62
13	182	231	710	e354	e336	e6710	10900	2190	969	584	295	58
14	171	232	699	e334	e430	e6760	11500	2070	924	517	264	60
15	162	228	668	e319	e453	e6580	12700	2460	851	468	240	69
16	156	225	e582	e307	e450	e6130	13900	3350	817	494	222	91
17	158	224	e505	e294	e462	e5570	14700	3940	851	681	214	112
18	157	222	e475	e283	e481	e4990	14700	4060	869	904	202	151
19	161	222	e452	e272	e468	e4390	14100	3790	832	889	183	211
20	166	223	e431	e262	e453	e3850	13200	3460	779	845	174	223
21	177	229	e412	e255	e460	e3460	12100	3130	717	936	161	204
22	196	238	e393	e245	e501	e3160	10600	2840	648	934	147	181
23	208	248	e378	e240	e563	e2840	9010	2540	564	826	139	175
24	218	257	e366	e234	e621	e2620	7490	2250	540	717	130	200
25	222	262	e496	e235	e651	e2380	6140	1980	527	629	121	261
26	224	270	e637	e229	e646	e2200	5130	1750	493	556	113	293
27	232	276	826	e223	e704	e2160	4600	1590	463	493	104	277
28	255	295	e880	e218	e1200	e2430	4380	1430	465	433	97	370
29	287	325	e872	e212	---	e2700	4190	1270	465	410	90	814
30	304	369	e831	e207	---	3030	4160	1180	442	529	84	1150
31	298	---	e795	e202	---	3730	---	1450	---	706	80	---
TOTAL	7803	7671	20474	11264	11140	137310	297910	87800	29859	21699	9306	5659
MEAN	252	256	660	363	398	4429	9930	2832	995	700	300	189
MAX	532	369	997	750	1200	6760	14700	4250	2140	1370	847	1150
MIN	156	222	366	202	166	2160	4160	1180	442	406	80	54
CFSM	0.18	0.18	0.47	0.26	0.28	3.12	7.00	2.00	0.70	0.49	0.21	0.13
IN.	0.20	0.20	0.54	0.30	0.29	3.60	7.82	2.30	0.78	0.57	0.24	0.15

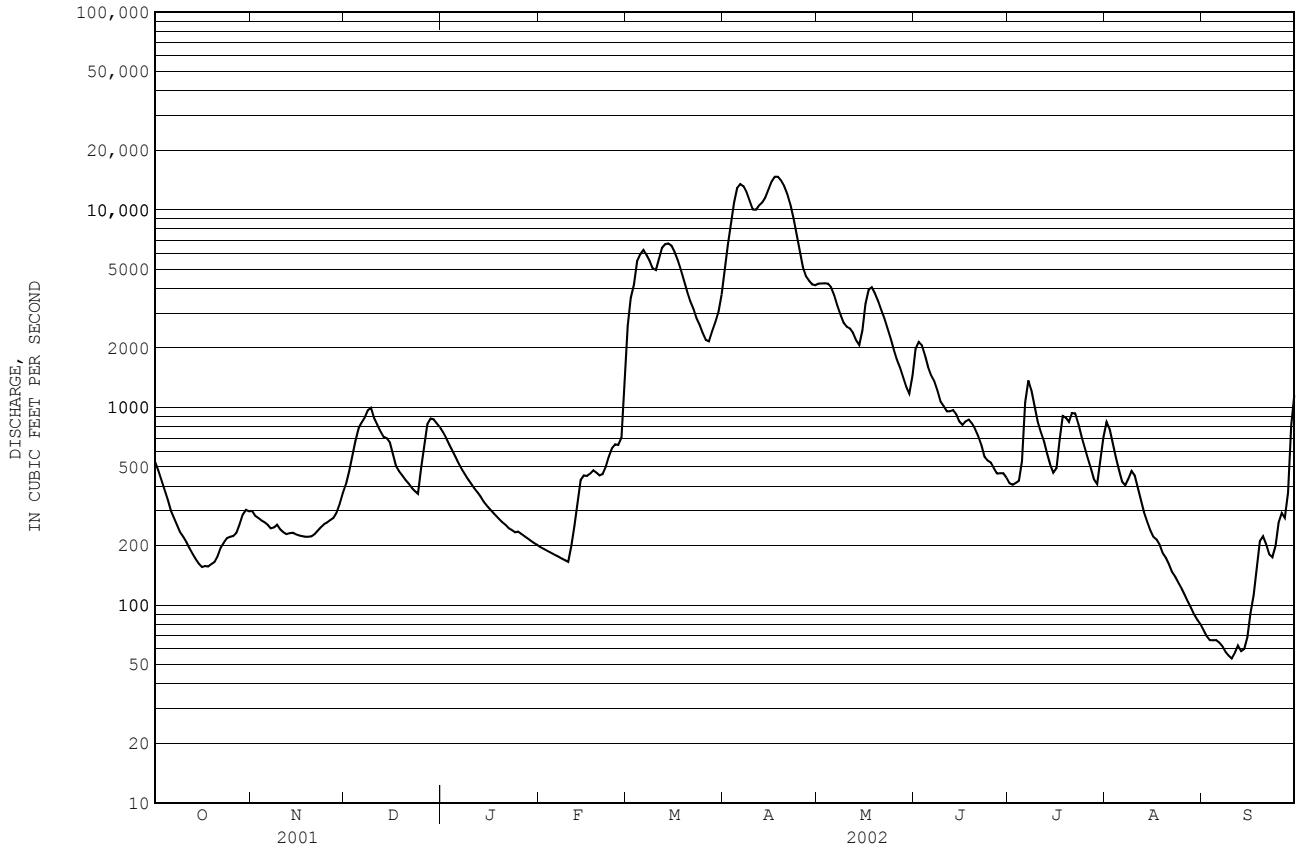
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2002, BY WATER YEAR (WY)

MEAN	1379	2676	2567	1406	1263	2248	8494	5459	1969	1022	714	802
MAX	6901	8428	9871	3938	4685	11330	13950	12760	7262	5658	2565	5106
(WY)	1982	1964	1951	1978	1970	1936	1976	1961	1984	1996	1962	1954
MIN	146	219	105	197	165	230	3012	1254	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1935 - 2002	
ANNUAL TOTAL	467441		647895		2499	
ANNUAL MEAN	1281		1775		4015	
HIGHEST ANNUAL MEAN					1307	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	17500	Apr 26	14700	Apr 17	29200	Mar 23 1936
LOWEST DAILY MEAN	70	Sep 25	54	Sep 10	32	Sep 4 1995
ANNUAL SEVEN-DAY MINIMUM	74	Sep 19	58	Sep 8	33	Sep 1 1995
MAXIMUM PEAK FLOW			15000		29200	
MAXIMUM PEAK STAGE			12.79		15.34	
INSTANTANEOUS LOW FLOW			51		30	
ANNUAL RUNOFF (CFSM)	0.90		1.25		1.76	
ANNUAL RUNOFF (INCHES)	12.26		17.00		23.94	
10 PERCENT EXCEEDS	2220		5280		6480	
50 PERCENT EXCEEDS	515		493		1200	
90 PERCENT EXCEEDS	118		168		258	



PENOBSCOT RIVER BASIN

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, 1.0 miles downstream of the confluence of the east and west branches of the Piscataquis River.

DRAINAGE AREA.---118 mi².

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. 14-19, and Dec. 9 to Mar. 30, 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 following the surface-water records section.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 7,550 ft³/s, Apr. 9, 2000, gage height 11.38; minimum discharge, 2.9 ft³/s, Sept. 10-11, 2002, gage height 3.13 ft.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 15	1745	*2,020	*7.72	No other peak greater than base discharge.			

Minimum discharge, 2.9 ft³/s, Sept. 10-11, gage height, 3.13 ft.

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	24	54	e50	e35	e290	503	333	185	110	24	3.5
2	14	25	89	e44	e40	e206	696	406	179	171	21	3.5
3	13	26	95	e41	e40	e229	769	568	145	162	19	3.7
4	12	24	88	e38	e39	e415	994	492	112	115	17	4.0
5	11	22	83	e36	e37	e359	771	369	96	81	15	3.9
6	11	22	79	e35	e35	e277	606	292	100	63	12	3.5
7	12	21	70	e39	e33	e204	490	245	92	53	11	3.4
8	11	18	59	e40	e31	e163	423	211	80	47	9.6	3.3
9	10	20	e49	e38	e30	e143	461	185	71	44	8.6	3.2
10	9.9	20	e38	e37	e29	e503	875	171	63	39	8.1	3.0
11	9.9	20	e38	e36	e156	e631	981	152	61	33	7.7	3.4
12	9.5	19	e35	e34	e214	e458	924	137	135	29	7.1	4.7
13	9.1	17	e33	e33	e138	e355	1120	127	176	26	6.8	4.3
14	8.8	e16	e35	e38	e64	e314	1590	261	139	25	6.9	3.8
15	9.6	e16	e34	e37	e46	e300	1780	572	108	26	7.4	5.3
16	10	e17	e30	e37	e44	e249	1510	509	143	30	11	14
17	19	e17	e28	e39	e45	e211	1340	390	137	26	9.0	15
18	21	e17	e33	e37	e41	e185	1390	306	120	25	6.9	9.3
19	18	e16	e33	e35	e37	e165	1070	260	99	22	7.1	6.9
20	16	18	e32	e34	e37	e149	778	220	83	21	6.3	6.0
21	14	20	e31	e33	e51	e145	570	196	70	19	5.7	5.7
22	19	20	e29	e33	e101	e131	437	173	59	18	5.3	5.6
23	20	19	e29	e33	e98	e123	363	152	52	17	5.5	5.8
24	28	19	e41	e34	e80	e115	307	135	62	17	5.1	5.5
25	30	19	e110	e41	e71	e104	261	126	55	15	4.8	4.9
26	37	25	e116	e44	e70	e102	250	115	49	14	4.6	4.7
27	38	29	e98	e42	e186	e100	255	109	52	12	4.3	4.8
28	34	29	e84	e39	e338	e109	229	99	50	12	4.0	45
29	30	29	e72	e38	---	e106	243	90	47	14	3.9	37
30	26	35	e63	e37	---	e155	261	88	39	20	4.0	24
31	24	---	e56	e35	---	265	---	113	---	27	3.8	---
TOTAL	550.8	639	1764	1167	2166	7261	22247	7602	2859	1333	272.5	250.7
MEAN	17.8	21.3	56.9	37.6	77.4	234	742	245	95.3	43.0	8.79	8.36
MAX	38	35	116	50	338	631	1780	572	185	171	24	45
MIN	8.8	16	28	33	29	100	229	88	39	12	3.8	3.0
CFSM	0.15	0.18	0.48	0.32	0.66	1.98	6.28	2.08	0.81	0.36	0.07	0.07
IN.	0.17	0.20	0.56	0.37	0.68	2.29	7.01	2.40	0.90	0.42	0.09	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

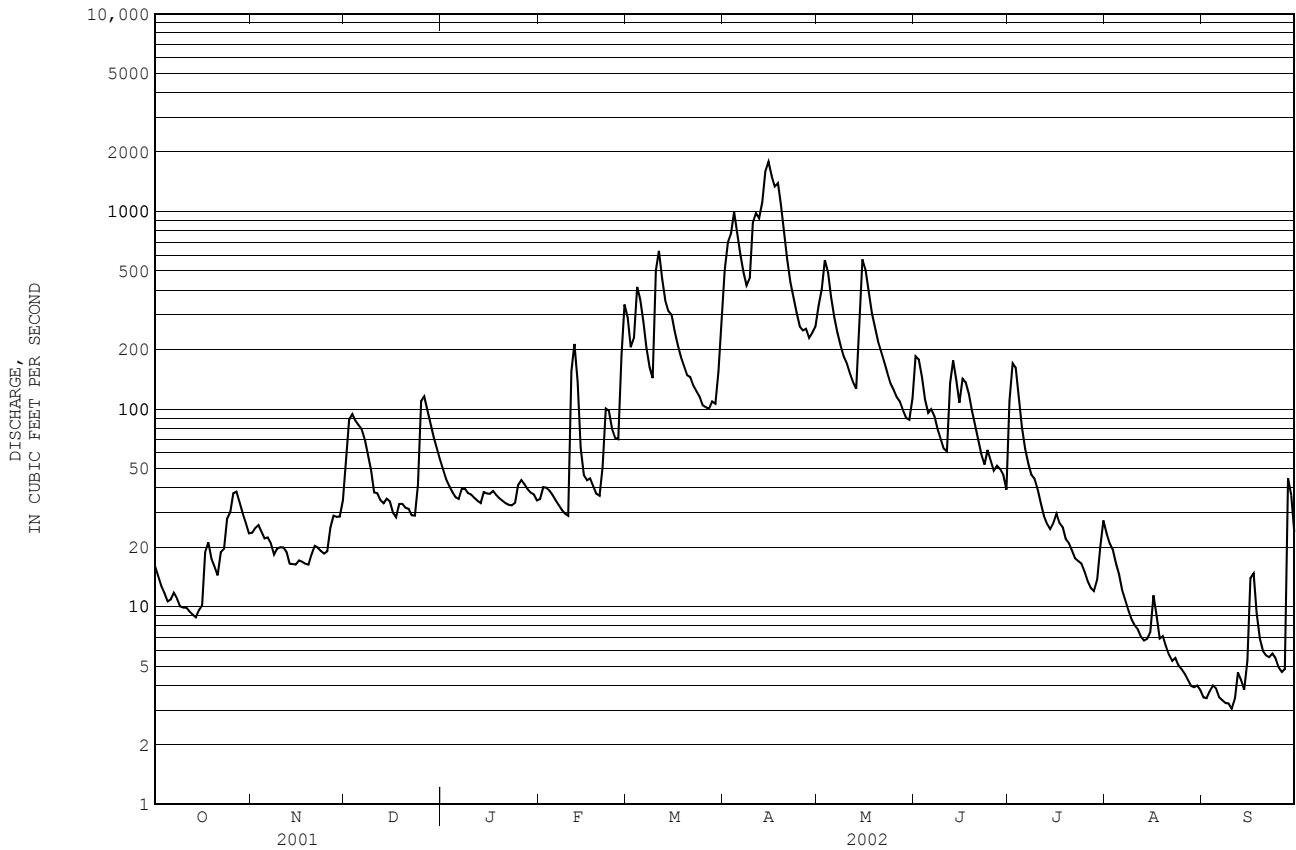
	1997	1998	1999	2000	2001	2002
MEAN	126	204	208	108	98.9	325
MAX	380	368	507	300	208	585
(WY)	2000	1998	1997	1999	1998	2000
MIN	17.8	21.3	56.9	37.6	47.4	45.1
(WY)	2002	2002	2002	2002	2001	2001

e Estimated

01031300 PISCATAQUIS RIVER AT BLANCHARD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1997 - 2002	
ANNUAL TOTAL	43073.2		48112.0			
ANNUAL MEAN	118		132		218	
HIGHEST ANNUAL MEAN					286 1998	
LOWEST ANNUAL MEAN					132 2002	
HIGHEST DAILY MEAN	2450	Apr 25	1780	Apr 15	4240	Apr 9 2000
LOWEST DAILY MEAN	4.9	Sep 20	3.0	Sep 10	3.0	Sep 10 2002
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 14	3.4	Sep 5	3.4	Sep 5 2002
MAXIMUM PEAK FLOW			2020		7550	
MAXIMUM PEAK STAGE			7.72		11.38	
INSTANTANEOUS LOW FLOW			2.9		2.9	
ANNUAL RUNOFF (CFSM)	1.00		1.12		1.85	
ANNUAL RUNOFF (INCHES)	13.58		15.17		25.09	
10 PERCENT EXCEEDS	198		345		595	
50 PERCENT EXCEEDS	40		38		81	
90 PERCENT EXCEEDS	8.4		6.9		12	

e Estimated



PENOBSHOT RIVER BASIN

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 Route 15/16 bridge in Abbot Village, and 0.9 mi upstream from mouth.

DRAINAGE AREA.---95.4 mi².

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. 14-15, Dec. 8, 10-24, and Dec. 28 to Mar. 30, 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 at the end of the report.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 5,290 ft³/s, Apr. 9, 2000, gage height, 12.81 ft; minimum discharge, 1.1 ft³/s, Aug. 20, 2001, gage height 4.48 ft.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0315	1,620	10.30	Apr 18	1100	1,380	10.01
Apr 15	1745	*1,750	*10.44				

Minimum discharge, 2.2 ft³/s, Sept. 11, gage height, 4.69 ft.

**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	25	22	57	e43	e40	e466	787	401	196	173	19	2.5
2	24	23	107	e38	e42	e278	918	436	136	358	15	2.4
3	23	26	88	e34	e47	e307	991	682	100	267	13	2.6
4	22	24	65	e31	e43	e844	1290	475	77	132	12	3.3
5	21	22	52	e29	e41	e536	826	314	67	117	11	3.9
6	21	21	46	e28	e38	e326	643	248	85	82	12	3.9
7	21	20	41	e31	e35	e229	531	209	89	66	10	3.4
8	19	18	e36	e31	e34	e181	454	183	70	56	9.2	2.9
9	18	19	31	e30	e32	e154	509	157	60	51	8.1	2.7
10	18	22	e24	e30	e31	e750	950	153	53	47	7.2	2.5
11	18	23	e24	e30	e67	e989	977	138	49	40	6.6	2.8
12	17	22	e23	e29	e360	e584	826	118	211	35	6.3	3.3
13	17	19	e24	e29	e470	e397	923	107	323	32	6.4	3.2
14	16	e19	e23	e34	e279	e379	1140	364	161	29	14	3.3
15	17	e19	e25	e34	e164	e376	1390	729	109	29	17	5.4
16	17	19	e23	e32	e107	e309	1140	456	237	42	11	16
17	23	18	e21	e34	e84	e268	994	312	220	38	8.6	24
18	37	18	e24	e32	e70	e229	1280	245	158	32	7.0	15
19	29	16	e24	e30	e62	e179	896	223	117	29	5.7	10
20	25	17	e24	e29	e55	e170	631	183	92	29	5.1	8.0
21	23	18	e23	e28	e72	e158	445	158	75	28	4.8	6.9
22	23	20	e23	e28	e261	e156	349	138	63	28	4.5	6.3
23	22	18	e22	e28	e254	e148	292	119	56	31	4.4	7.1
24	26	16	e27	e29	e168	e136	246	106	68	27	4.5	6.5
25	34	15	131	e33	e118	e128	209	99	60	21	4.0	5.9
26	35	26	134	e51	e99	e114	216	88	50	17	3.4	5.1
27	35	56	95	e55	e196	e111	236	86	195	15	3.1	5.0
28	30	45	e76	e50	e637	e131	191	77	121	15	2.9	32
29	26	39	e64	e47	---	e123	218	70	80	16	2.7	39
30	24	40	e56	e44	---	e224	273	66	59	21	2.7	24
31	22	---	e48	e42	---	470	---	94	---	23	2.5	---
TOTAL	728	700	1481	1073	3906	9850	20771	7234	3437	1926	243.7	258.9
MEAN	23.5	23.3	47.8	34.6	140	318	692	233	115	62.1	7.86	8.63
MAX	37	56	134	55	637	989	1390	729	323	358	19	39
MIN	16	15	21	28	31	111	191	66	49	15	2.5	2.4
CFSM	0.25	0.24	0.50	0.36	1.46	3.33	7.26	2.45	1.20	0.65	0.08	0.09
IN.	0.28	0.27	0.58	0.42	1.52	3.84	8.10	2.82	1.34	0.75	0.10	0.10

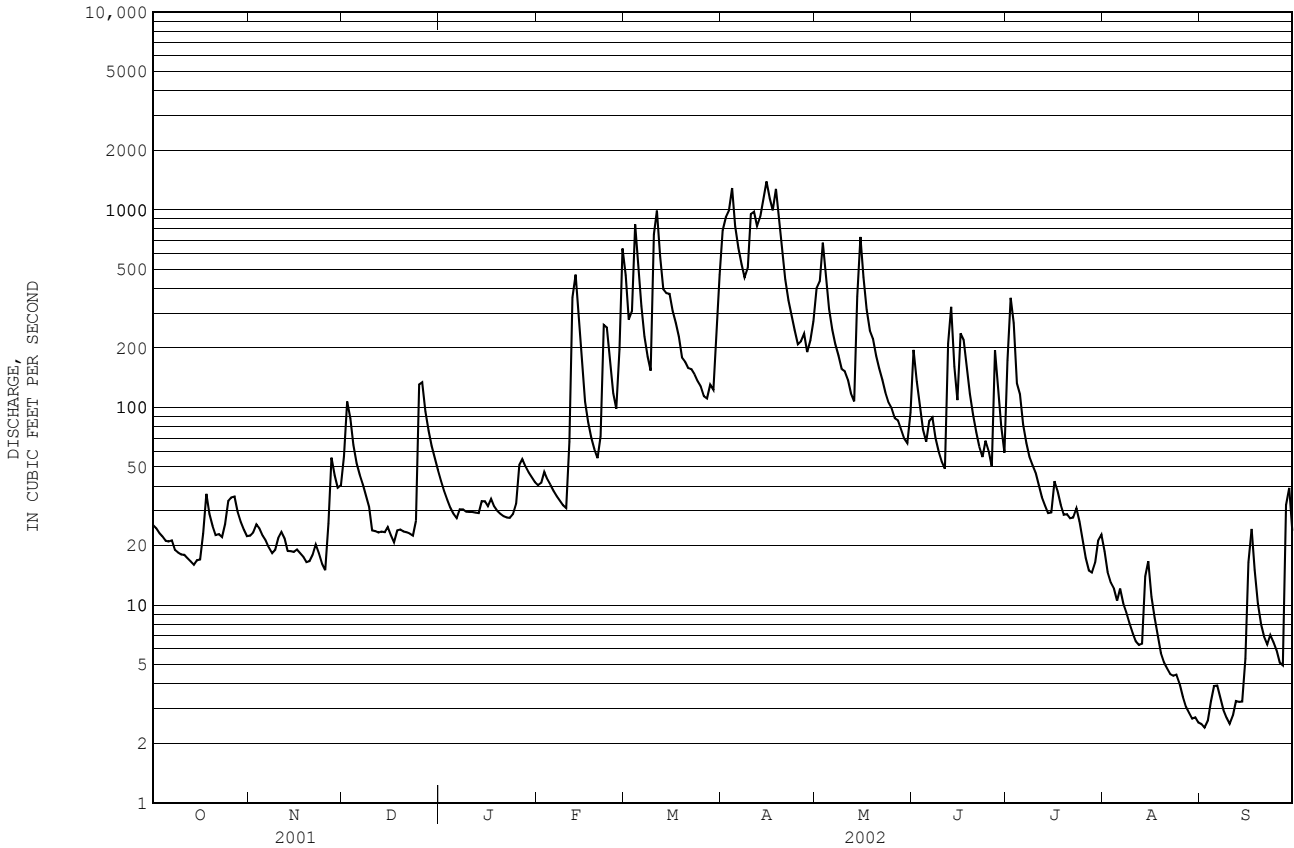
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002
MEAN	99.1	155	134	84.1	107	414
MAX	325	337	272	201	186	665
(WY)	2000	2000	2001	1999	1998	1998
MIN	23.5	23.3	47.9	34.6	40.3	69.8
(WY)	2002	2002	2002	2002	2001	2001

e Estimated

01031450 KINGSBURY STREAM AT ABBOT VILLAGE, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1997 - 2002	
ANNUAL TOTAL	40231.4					
ANNUAL MEAN	110				198	
HIGHEST ANNUAL MEAN					245	1998
LOWEST ANNUAL MEAN					135	2001
HIGHEST DAILY MEAN	1890	Apr 25	1390	Apr 15	3390	Mar 29 2000
LOWEST DAILY MEAN	1.2	Aug 19	2.4	Sep 2	1.2	Aug 19 2001
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 14	2.6	Aug 28	1.4	Aug 14 2001
MAXIMUM PEAK FLOW			1750	Apr 15	5290	Apr 9 2000
MAXIMUM PEAK STAGE			10.44	Apr 15	12.81	Apr 9 2000
INSTANTANEOUS LOW FLOW			2.2	Sep 11	1.1	Aug 20 2001
ANNUAL RUNOFF (CFSM)	1.16				2.08	
ANNUAL RUNOFF (INCHES)	15.69				28.22	
10 PERCENT EXCEEDS	177				547	
50 PERCENT EXCEEDS	36				67	
90 PERCENT EXCEEDS	3.4				13	



PENOBSCOT RIVER BASIN

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

LOCATION.---Lat 45°10'31", long 69°18'55", Piscataquis County, Hydrologic Unit 01020004, on left bank 30 ft downstream from Lows Bridge, 1.0 mi upstream from Black Stream, and 4.7 mi upstream from Dover-Foxcroft.

DRAINAGE AREA.---298 mi².

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. 14, 22-25, Dec. 9-24, Dec. 27 to Feb. 21, and Mar. 4-30, 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 at the end of the report.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 37,300 ft³/s, Apr. 1, 1987, gage height, 22.62 ft, from rating curve extended above 20,000 ft³/s on basis of slope-area measurement; minimum discharge, 5.0 ft³/s, Aug. 6, 1905, Nov. 22, 1908.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 15	2200	*4,600	*7.00	No other peak greater than base discharge.			

Minimum discharge, 7.6 ft³/s, Sept. 13, gage height, 1.27 ft.

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	44	46	108	e98	e80	735	1680	1030	477	240	64	11
2	40	47	202	e86	e99	554	2410	1100	439	610	59	11
3	37	51	216	e77	e107	538	2530	1720	333	647	56	11
4	34	51	180	e70	e102	e1490	3540	1430	259	405	51	11
5	32	47	156	e66	e97	e1140	2580	1040	218	303	44	11
6	32	44	142	e64	e94	e749	1960	808	233	228	41	10
7	30	43	128	e74	e91	e593	1580	675	247	184	38	10
8	29	39	108	e73	e89	e470	1330	573	207	160	34	9.8
9	29	40	e89	e72	e88	e396	1330	489	178	146	31	9.3
10	29	40	e64	e71	e89	e1210	2280	460	156	132	28	9.2
11	27	44	e62	e71	e166	e2290	2740	405	144	114	26	11
12	26	42	e61	e70	e277	e1500	2350	349	311	100	24	10
13	25	37	e61	e70	e438	e1140	2610	314	722	91	22	8.6
14	25	e35	e62	e78	e352	e1030	3250	636	456	85	27	9.4
15	26	39	e64	e78	e281	e1020	3920	1770	317	84	31	14
16	26	38	e53	e76	e223	e833	3770	1490	452	95	30	17
17	31	37	e47	e76	e186	e695	3020	1070	515	97	28	29
18	41	36	e52	e73	e159	e583	3630	834	401	85	26	37
19	47	36	e52	e70	e137	e495	2840	722	315	78	23	34
20	44	37	e50	e67	e119	e436	2060	602	253	77	20	28
21	41	37	e49	e65	e129	e434	1520	515	207	74	19	26
22	39	e36	e45	e64	226	e429	1170	442	174	68	17	23
23	39	e37	e45	e63	307	e381	972	378	155	74	17	22
24	43	e35	e61	e62	276	e362	818	327	161	79	16	20
25	55	e33	201	e78	234	e316	702	296	160	70	16	19
26	66	45	291	e89	213	e312	669	273	139	61	14	17
27	74	79	e218	e94	325	e294	719	260	283	56	13	16
28	68	81	e184	e91	799	e337	621	238	270	52	12	38
29	59	74	e156	e87	---	e323	667	213	207	53	12	86
30	54	83	e132	e83	---	e472	772	201	164	58	12	73
31	47	---	e113	e81	---	1010	---	248	---	63	11	---
TOTAL	1239	1369	3452	2337	5783	22567	60040	20908	8553	4669	862	641.3
MEAN	40.0	45.6	111	75.4	207	728	2001	674	285	151	27.8	21.4
MAX	74	83	291	98	799	2290	3920	1770	722	647	64	86
MIN	25	33	45	62	80	294	621	201	139	52	11	8.6
CFSM	0.13	0.15	0.37	0.25	0.69	2.44	6.72	2.26	0.96	0.51	0.09	0.07
IN.	0.15	0.17	0.43	0.29	0.72	2.82	7.49	2.61	1.07	0.58	0.11	0.08

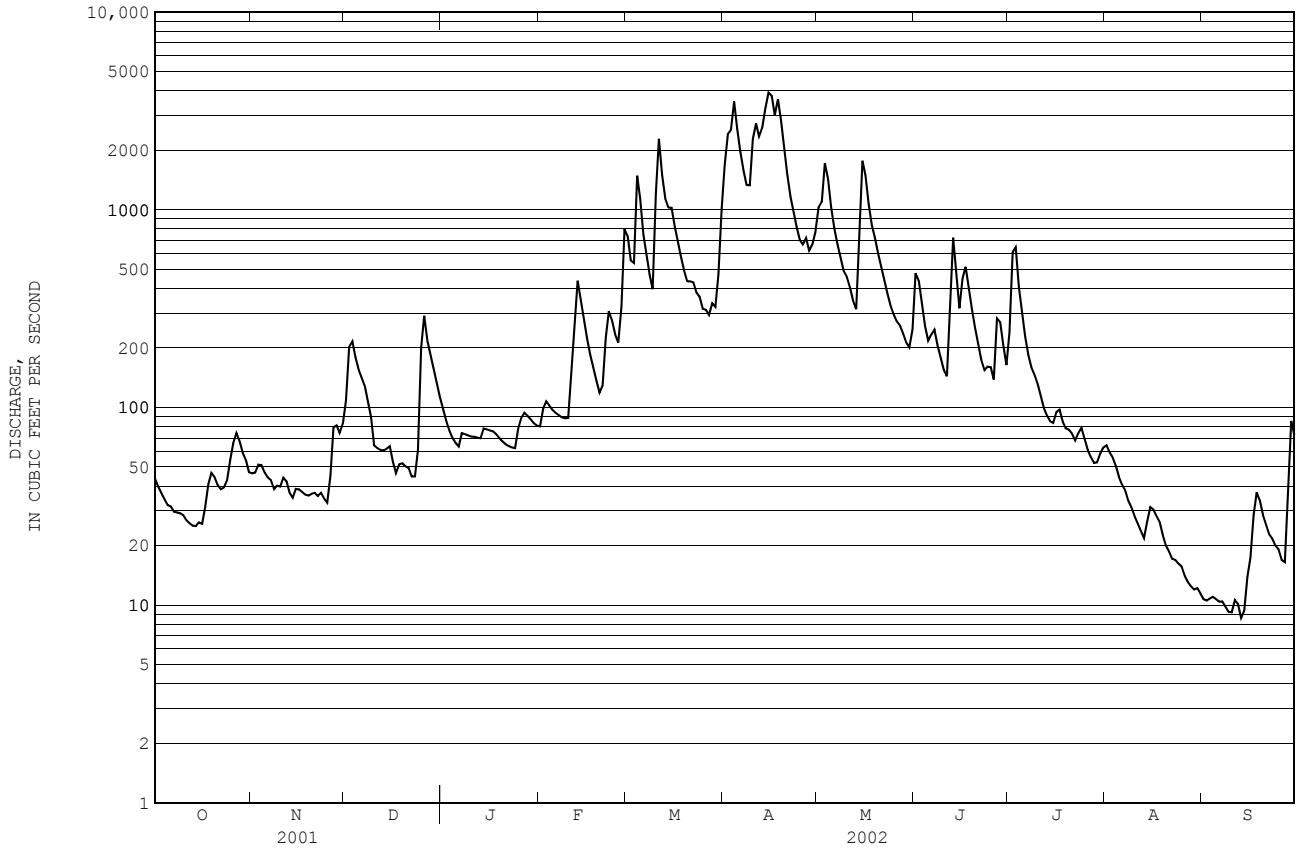
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2002, BY WATER YEAR (WY)

	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	391	672	542	309	276	613	2083	1259	470	241	169	183	1910	2468	2699	1441	1582	3791	3459	3399	1916	1378	974	1461	1978	1964	1974	1996	1970	1936	1983	1969	1917	1996	1917	1954	35.2	39.0	47.5	61.5	31.2	105	766	286	68.8	42.9	14.6	16.7	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	108076.6		132420.3			
ANNUAL MEAN	296		363		600	
HIGHEST ANNUAL MEAN					990	1954
LOWEST ANNUAL MEAN					238	1911
HIGHEST DAILY MEAN	5510	Apr 25	3920	Apr 15	31700	Apr 1 1987
LOWEST DAILY MEAN	8.6	Sep 16	8.6	Sep 13	5.0	Aug 6 1905
ANNUAL SEVEN-DAY MINIMUM	9.5	Sep 11	9.6	Sep 8	9.5	Sep 11 2001
MAXIMUM PEAK FLOW			4600	Apr 15	37300	Apr 1 1987
MAXIMUM PEAK STAGE			7.00	Apr 15	22.62	Apr 1 1987
INSTANTANEOUS LOW FLOW			7.6	Sep 13	5.0	Aug 6 1905
ANNUAL RUNOFF (CFSM)	0.99		1.22		2.01	
ANNUAL RUNOFF (INCHES)	13.49		16.53		27.37	
10 PERCENT EXCEEDS	540		1030		1550	
50 PERCENT EXCEEDS	111		89		250	
90 PERCENT EXCEEDS	16		24		54	



PENOBSCOT RIVER BASIN

01034000 PISCATAQUIS RIVER AT MEDFORD, ME

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

DRAINAGE AREA.---1,162 mi².

PERIOD OF RECORD.---Discharge: June 1924 to September 1982, 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, Dec. 17-25 and Dec. 27 to Mar. 30, which are fair. Flow regulated by Sebep Lake, 15 mi upstream, and other small reservoirs and power plants above station, usable capacity about 2.511 billion ft³. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 60,100 ft³/s, Nov. 4, 1966, gage height, 15.58 ft; minimum discharge, 77 ft³/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 ft³/s, Apr. 1, 1987, gage height 18.65 ft, present datum, from floodmarks, from rating curve extended above 32,000 ft³/s.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 16	0500	*13,400	*7.66	No other peak greater than base discharge.			

Minimum discharge, 95 ft³/s, Sept. 4, gage height, 1.18 ft.

**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	370	574	528	e752	e544	e3520	5420	3260	1420	733	318	115
2	299	506	740	e811	e532	e2770	7420	3350	1790	1060	308	104
3	265	334	1000	e769	e522	e2350	7960	4090	1560	1830	292	103
4	241	320	965	e721	e516	e3490	11000	4360	1360	1530	277	96
5	223	314	894	e676	e516	e4350	9700	3600	1250	1250	266	102
6	213	311	896	e634	e510	e3640	7920	3130	959	1090	258	132
7	207	291	837	e598	e501	e3020	6440	2770	1010	796	245	136
8	202	262	736	e661	e495	e2630	5490	2620	963	628	231	128
9	198	258	666	e539	e475	e2350	5100	2450	874	593	221	109
10	214	273	653	e514	e470	e2950	6370	2400	853	554	212	103
11	209	294	621	e496	e464	e6510	8470	2330	791	496	205	111
12	203	304	589	e477	e898	e6010	7820	2190	1030	448	197	116
13	196	295	590	e466	e1600	e4650	7920	2060	1610	413	191	102
14	185	286	588	e456	e1380	e3930	9430	1480	1610	392	188	101
15	174	294	613	e516	e1180	e3910	12100	3140	1320	387	183	114
16	330	292	515	e495	e1090	e3510	12700	3870	1280	397	189	171
17	487	293	e466	e472	e1000	e3050	10900	2860	1480	413	183	241
18	514	285	e527	e459	e928	e2750	11800	2470	1320	406	171	267
19	550	276	e520	e443	e865	e2230	10900	2350	1190	378	164	237
20	554	273	e494	e428	e813	e1610	8560	2260	957	358	162	222
21	547	275	e474	e420	e823	e1580	6850	2240	820	346	162	203
22	531	288	e455	e408	e939	e1590	5560	2210	718	328	159	188
23	435	288	e445	e403	e1170	e1470	4710	2070	636	329	156	211
24	538	281	e437	e398	e1250	e1460	4020	1560	676	370	146	214
25	593	274	e865	e413	e1170	e1330	3280	1360	833	370	143	190
26	646	278	1480	e425	e1070	e1300	3040	1230	770	331	137	166
27	752	349	e1380	e446	e1270	e1420	3060	1130	663	302	133	148
28	749	434	e1120	e557	e2680	e1570	2880	1060	922	287	129	277
29	671	462	e955	e541	---	e1610	2810	991	887	293	126	473
30	635	476	e860	e535	---	e2160	2920	1030	738	327	125	479
31	563	---	e802	e525	---	3900	---	1100	---	337	121	---
TOTAL	12494	9740	22711	16454	25671	88620	212550	73021	32290	17772	5998	5359
MEAN	403	325	733	531	917	2859	7085	2356	1076	573	193	179
MAX	752	574	1480	811	2680	6510	12700	4360	1790	1830	318	479
MIN	174	258	437	398	464	1300	2810	991	636	287	121	96
CFSM	0.35	0.28	0.63	0.46	0.79	2.46	6.10	2.03	0.93	0.49	0.17	0.15
IN.	0.40	0.31	0.73	0.53	0.82	2.84	6.80	2.34	1.03	0.57	0.19	0.17

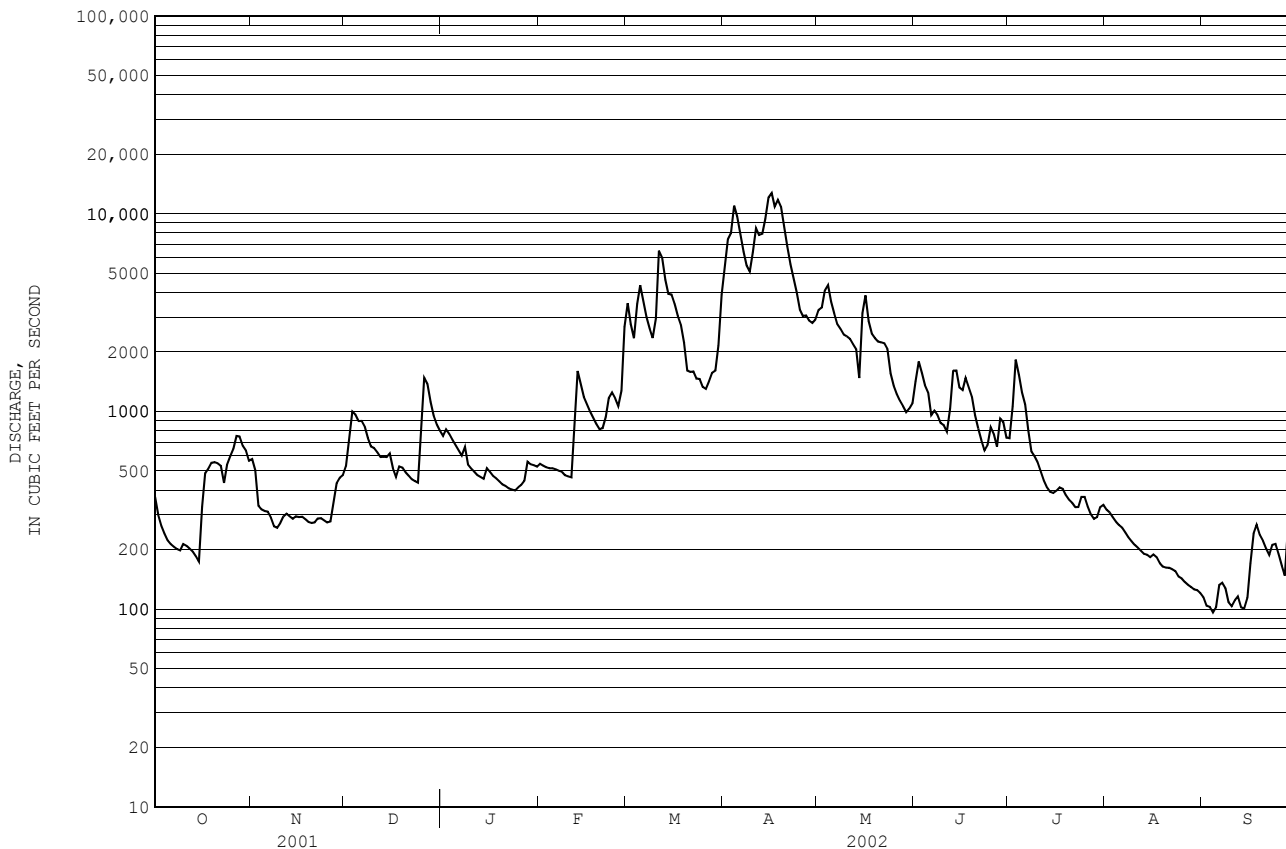
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2002, BY WATER YEAR (WY)

	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1566	2609	2261	1412	1383	2372	7217	4695	1877	1066	751	911	6289	7672	11590	4834	5659	14520	12220	10920	4678	5162	3686	5426	1978	1964	1974	1996	1970	1936	1993	1993	1969	1931	1996	1996	1954	1954	276	325	363	339	334	513	2876	1315	623	249	151	149	1936	2002	1930	1948	1980	1967	1981	1999	1941	1991	2001	1995																	

e Estimated

01034000 PISCATAQUIS RIVER AT MEDFORD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1924 - 2002	
ANNUAL TOTAL	469574		522680		2343	
ANNUAL MEAN	1287		1432		3715	
HIGHEST ANNUAL MEAN					1254	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	18600	Apr 25	12700	Apr 16	52900	Nov 4 1966
LOWEST DAILY MEAN	79	Sep 20	96	Sep 4	79	Sep 20 2001
ANNUAL SEVEN-DAY MINIMUM	90	Sep 16	108	Sep 9	90	Sep 16 2001
MAXIMUM PEAK FLOW			13400		60100	
MAXIMUM PEAK STAGE			7.66		15.58	
INSTANTANEOUS LOW FLOW			95		77	
ANNUAL RUNOFF (CFSM)	1.11		1.23		2.02	
ANNUAL RUNOFF (INCHES)	15.03		16.73		27.39	
10 PERCENT EXCEEDS	2680		3550		5610	
50 PERCENT EXCEEDS	627		588		1200	
90 PERCENT EXCEEDS	143		187		416	



PENOBSCOT RIVER BASIN

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 highway bridge, 1,000 ft downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.---6,671 mi², including 249 mi² drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.---Discharge: November 1901 to current year. 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 periods of ice effect, Dec. 18-24 and Dec. 27 to Mar. 31, which are fair. Flow regulated by many reservoirs above station, combined capacity about 54.336 billion ft³. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 153,000 ft³/s, May 1, 1923, gage height, 25.15 ft; minimum daily discharge, 1,630 ft³/s, Oct. 29, 1905.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 46,000 ft³/s, Apr. 16, gage height, 11.90 ft; minimum daily discharge, 2,380 ft³/s, Feb. 10.

**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	4190	3790	3990	e4760	e2590	e11500	18200	13700	8070	4380	5250	4300
2	3740	3570	4300	e4820	e2530	e11300	23700	13600	9370	4620	5140	4230
3	4160	3230	5090	e4540	e2870	e11800	27200	13900	8630	5400	5050	4110
4	4060	3360	5540	e4430	e2600	e17100	36200	14900	7910	5480	4860	4360
5	3910	3300	5850	e4420	e2660	e18100	38100	13800	7510	5240	4830	4350
6	3570	3220	5340	e4060	e2630	e15800	34900	12400	7080	5050	4860	4330
7	3480	3230	5450	e4330	e2780	e14500	31100	11300	6440	5640	4430	4330
8	3550	3120	5380	e4310	e2640	e12900	27600	10500	6300	5300	4600	4220
9	3850	3160	5160	e4050	e2620	e11700	25600	10200	5940	5100	4570	4380
10	3580	3370	4950	e4040	e2380	e15500	25800	9830	5440	4990	4320	4270
11	3570	3030	4720	e3980	e2700	e22300	30100	9610	5610	5140	4290	4230
12	3500	3240	4770	e3950	e3060	e23800	30500	9190	5520	5120	4080	4960
13	4940	3460	4550	e3930	e3760	e21300	30300	8650	6460	4580	4620	4530
14	4230	3150	4880	e3900	e4280	e18100	33900	8630	6710	4360	4460	4290
15	3890	3260	4570	e3870	e4200	e17600	42000	12000	6230	4580	4070	4200
16	4170	3120	4470	e3840	e3880	e16400	45600	15600	5590	4560	3860	4330
17	3450	3270	3780	e3820	e3800	e14900	43700	15300	6130	4830	4270	4500
18	3460	3340	e4280	e3920	e3680	e13400	44400	14400	6210	5510	4360	4050
19	3790	2870	e4380	e3400	e3490	e12200	41900	13800	6660	5510	4520	4180
20	3740	3330	e4350	e3360	e3310	e10500	37300	12800	6020	5360	4160	5000
21	3820	3430	e4230	e3140	e3630	e9800	32900	12400	5190	5450	4180	4760
22	3720	3230	e4490	e3090	e3830	e9580	27800	12000	4770	5370	4360	4930
23	3550	3270	e4220	e3050	e4490	e8900	24200	11200	4440	5410	4290	5070
24	3530	3290	e4580	e3220	e4400	e8380	21600	9870	4420	5650	4490	5120
25	3570	3220	5820	e3020	e4340	e7940	18900	8520	4570	4910	4280	4770
26	3880	3480	7230	e2920	e4290	e7210	16600	8240	5110	5160	4130	4250
27	3740	3830	e7000	e2860	e5940	e7740	15600	7650	5220	5040	4140	4180
28	4030	4160	e5950	e2900	e9280	e8020	14700	7270	5100	4880	4310	5340
29	3860	3010	e5410	e3570	---	e8300	13400	6750	4850	4510	4300	6200
30	3530	3280	e5110	e2770	---	e10100	13400	6120	4630	5700	4200	7050
31	3890	---	e4920	e2660	---	e13800	---	6870	---	5340	4150	---
TOTAL	117950	99620	154760	114930	102660	410470	867200	341000	182130	158170	137430	138820
MEAN	3805	3321	4992	3707	3666	13240	28910	11000	6071	5102	4433	4627
MAX	4940	4160	7230	4820	9280	23800	45600	15600	9370	5700	5250	7050
MIN	3450	2870	3780	2660	2380	7210	13400	6120	4420	4360	3860	4050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2002, BY WATER YEAR (WY)

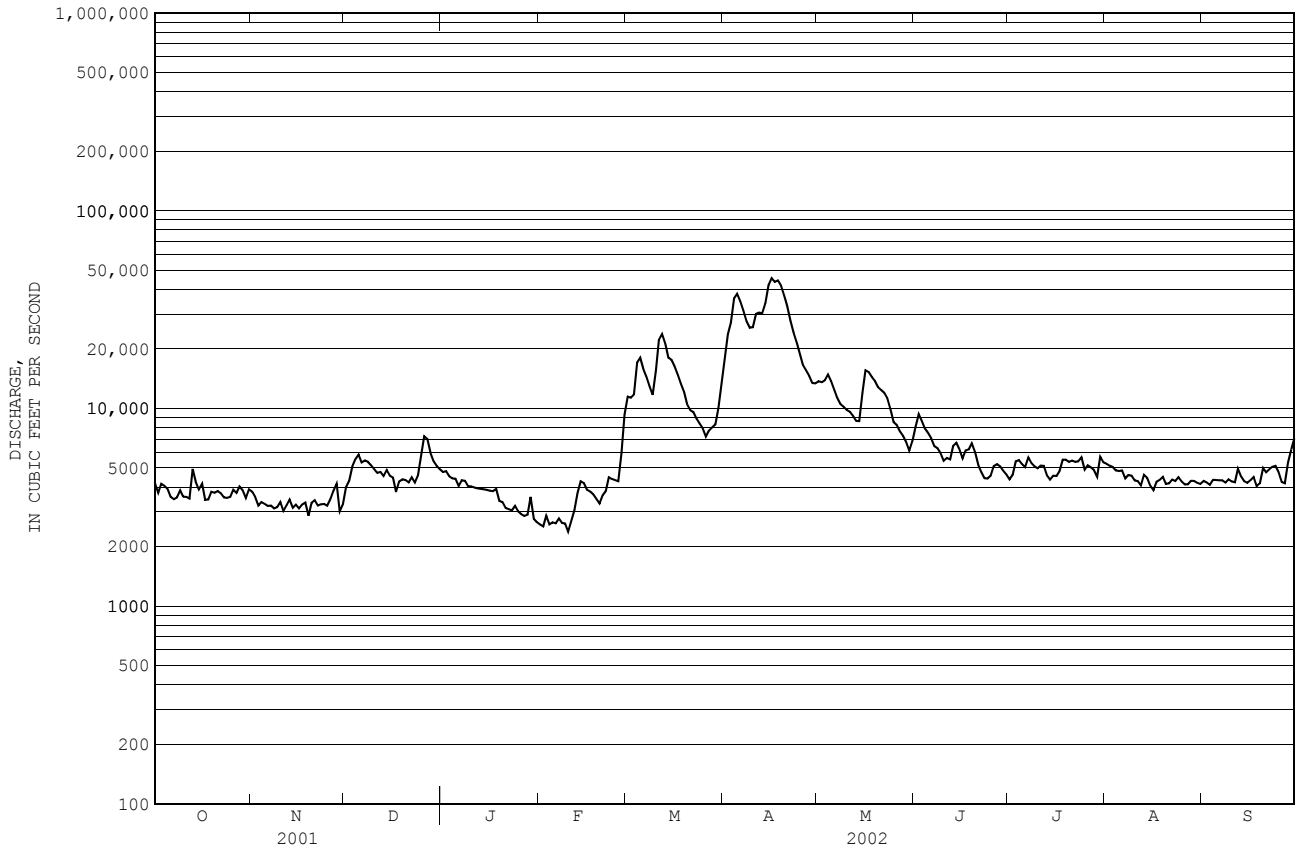
MEAN	8407	11660	10530	7970	7461	11110	29580	23690	11660	7734	6415	6582
MAX	28330	32430	34680	19620	21960	46110	51060	46430	38660	24490	17460	27130
(WY)	1982	1964	1974	1978	1970	1936	2000	1974	1917	1996	1976	1954
MIN	2255	2629	3411	2890	1799	2449	14490	9163	4079	4028	3229	3187
(WY)	1904	1906	1909	1904	1904	1911	1926	1999	1988	1991	2001	1995

e Estimated

PENOBSCOT RIVER BASIN

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	2587040		2825140		11900	
ANNUAL MEAN	7088		7740		17760	
HIGHEST ANNUAL MEAN					6382 1911	
LOWEST ANNUAL MEAN					152000 May 1 1923	
HIGHEST DAILY MEAN	57000	Apr 26	45600	Apr 16	152000 May 1 1923	
LOWEST DAILY MEAN	2810	Aug 13	2380	Feb 10	1630 Oct 29 1905	
ANNUAL SEVEN-DAY MINIMUM	3020	Aug 13	2620	Feb 4	1700 Feb 11 1904	
MAXIMUM PEAK FLOW			46000	Apr 16	153000 May 1 1923	
MAXIMUM PEAK STAGE			11.90	Apr 16	25.15 May 1 1923	
10 PERCENT EXCEEDS	11300		15600		25500	
50 PERCENT EXCEEDS	4790		4620		7760	
90 PERCENT EXCEEDS	3210		3270		4520	



PENOBSCOT RIVER BASIN

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 miles downstream from Veazie Dam at Eddington, on Monument Drive, 750 ft north of intersection with State Highway 178.

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

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 ft³.
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.

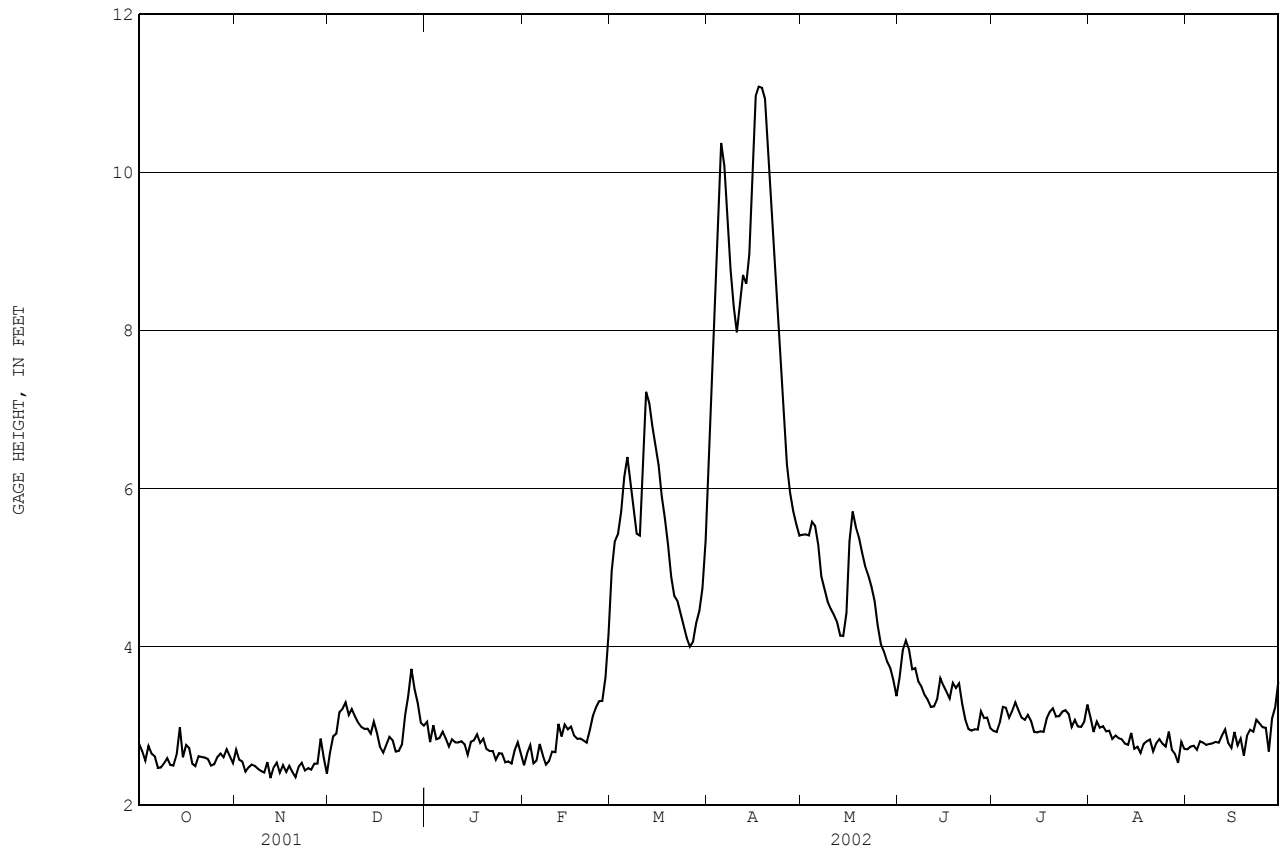
EXTREMES OUTSIDE PERIOD OF RECORD.---Maximum gage height, 23.53 ft, Apr. 3, 1987.

EXTREMES FOR CURRENT YEAR.---Maximum gage height, 11.30 ft, Apr. 17; minimum gage height, 0.46 ft, Aug. 29.

**GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.78	2.70	2.66	3.05	2.51	4.96	6.26	5.42	3.61	2.94	3.10	2.71
2	2.68	2.58	2.87	2.80	2.66	5.33	7.38	5.42	3.96	2.92	2.92	2.74
3	2.56	2.55	2.90	3.01	2.76	5.43	8.22	5.41	4.08	3.04	3.06	2.75
4	2.75	2.42	3.18	2.83	2.53	5.71	9.44	5.58	3.97	3.24	2.98	2.70
5	2.65	2.48	3.22	2.85	2.56	6.14	10.37	5.53	3.72	3.23	3.00	2.81
6	2.62	2.51	3.30	2.93	2.77	6.40	10.08	5.29	3.73	3.11	2.93	2.79
7	2.47	2.49	3.14	2.84	2.63	6.10	9.47	4.89	3.56	3.19	2.94	2.76
8	2.48	2.46	3.21	2.74	2.51	5.78	8.77	4.74	3.50	3.30	2.84	2.77
9	2.53	2.43	3.12	2.83	2.56	5.44	8.30	4.57	3.39	3.20	2.88	2.78
10	2.60	2.41	3.04	2.79	2.68	5.41	7.98	4.48	3.34	3.11	2.85	2.80
11	2.51	2.54	2.99	2.79	2.67	6.17	8.38	4.41	3.24	3.08	2.83	2.79
12	2.50	2.34	2.96	2.81	3.03	7.23	8.70	4.32	3.25	3.14	2.78	2.88
13	2.64	2.48	2.97	2.77	2.87	7.08	8.59	4.15	3.34	3.07	2.76	2.96
14	2.98	2.54	2.91	2.64	3.02	6.79	8.97	4.14	3.61	2.93	2.91	2.79
15	2.61	2.41	3.06	2.80	2.96	6.54	9.96	4.43	3.51	2.92	2.71	2.72
16	2.76	2.51	2.91	2.82	2.99	6.30	10.97	5.34	3.43	2.93	2.74	2.92
17	2.72	2.42	2.73	2.89	2.88	5.90	11.09	5.71	3.35	2.93	2.66	2.76
18	2.52	2.50	2.66	2.79	2.84	5.63	11.07	5.52	3.55	3.10	2.77	2.84
19	2.49	2.42	2.76	2.84	2.84	5.29	10.93	5.39	3.48	3.18	2.81	2.63
20	2.62	2.35	2.86	2.71	2.82	4.89	10.33	5.19	3.54	3.22	2.83	2.88
21	2.61	2.49	2.82	2.68	2.79	4.65	9.56	5.02	3.28	3.12	2.68	2.95
22	2.60	2.54	2.68	2.69	2.95	4.58	8.72	4.90	3.08	3.13	2.78	2.93
23	2.58	2.44	2.69	2.57	3.13	4.42	7.93	4.77	2.96	3.18	2.83	3.08
24	2.50	2.47	2.77	2.66	3.24	4.27	7.32	4.58	2.94	3.20	2.78	3.04
25	2.52	2.45	3.14	2.65	3.32	4.12	6.82	4.28	2.96	3.15	2.74	2.99
26	2.61	2.53	3.38	2.54	3.32	4.01	6.31	4.04	2.96	2.99	2.93	2.98
27	2.65	2.53	3.72	2.55	3.61	4.07	5.95	3.94	3.19	3.08	2.70	2.68
28	2.61	2.84	3.47	2.53	4.16	4.30	5.72	3.82	3.10	2.99	2.65	3.10
29	2.71	2.60	3.30	2.69	---	4.46	5.55	3.73	3.11	2.99	2.53	3.24
30	2.62	2.40	3.04	2.79	---	4.74	5.41	3.58	2.97	3.06	2.80	3.55
31	2.53	---	3.00	2.65	---	5.35	---	3.38	---	3.27	2.71	---
MEAN	2.61	2.49	3.01	2.76	2.91	5.40	8.48	4.71	3.39	3.09	2.82	2.88
MAX	2.98	2.84	3.72	3.05	4.16	7.23	11.09	5.71	4.08	3.30	3.10	3.55
MIN	2.47	2.34	2.66	2.53	2.51	4.01	5.41	3.38	2.94	2.92	2.53	2.63

01036390 PENOBSCOT RIVER AT EDDINGTON, ME--Continued



DUCKTRAP RIVER BASIN

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 highway bridge on State Route 52 at Lincolnville, and 1.3 mi upstream of Black Brook.

DRAINAGE AREA.--14.4 mi²

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 period of ice effect, Dec. 28 to Feb. 26, periods of doubtful stage-discharge relation, Oct. 18-30, Nov. 2-14, Mar. 6-28, and Sept. 4-11, and flows between 2.0 ft³/s and 0.50 ft³/s, which are fair, and flows below 0.50 ft³/s, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 3	1215	*281	*4.15	No other peak greater than base discharge.			

Minimum discharge, 0.01 ft³/s, Aug. 19, gage height, 1.08 ft.

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	0.04	0.46	1.6	e4.5	e9.7	90	112	54	19	9.0	0.12	0.02
2	0.03	e0.59	1.0	e4.3	e9.3	73	98	59	14	9.7	0.08	0.01
3	0.03	e0.49	0.58	e4.2	e9.0	174	96	69	12	8.5	0.07	0.03
4	0.02	e0.29	0.36	e4.0	e8.8	173	108	55	10	6.9	0.06	e0.03
5	0.02	e0.26	0.25	e3.9	e8.7	120	82	46	9.8	6.1	0.07	e0.03
6	0.02	e0.48	0.25	e3.9	e8.9	91	70	40	14	5.5	0.06	e0.02
7	0.02	e0.52	0.25	e4.3	e8.5	74	59	34	13	5.1	0.05	e0.02
8	0.02	e0.46	0.20	e4.2	e8.2	60	51	31	11	4.9	0.04	e0.01
9	0.02	e0.77	0.22	e4.1	e7.8	55	45	26	10	4.5	0.03	e0.01
10	0.02	e0.74	0.16	e4.1	e8.2	84	41	33	9.6	3.9	0.02	e0.01
11	0.02	e0.75	0.25	e4.1	e7.3	72	33	26	9.4	3.5	0.02	e0.01
12	0.02	e0.54	0.40	e4.0	e52	60	29	22	30	3.3	0.02	0.01
13	0.02	e0.44	0.48	e5.4	e37	53	30	28	28	2.9	0.01	0.01
14	0.02	e0.36	0.94	e13	e28	49	99	138	19	2.4	0.01	0.01
15	0.03	0.24	1.6	e9.7	e22	43	125	92	21	2.1	0.01	0.01
16	0.03	0.23	1.4	e8.9	e19	39	105	71	41	1.9	0.01	0.17
17	0.68	0.21	1.2	e8.5	e17	35	103	63	29	1.6	0.01	0.07
18	e0.28	0.18	1.4	e8.0	e15	30	102	63	25	1.6	0.01	0.04
19	e0.12	0.13	1.4	e7.7	e14	29	85	60	21	1.7	0.01	0.03
20	e0.07	0.12	1.6	e7.5	e14	26	72	49	18	1.2	0.01	0.02
21	e0.05	0.11	4.2	e7.4	e39	29	60	42	16	0.97	0.01	0.02
22	e0.04	0.10	2.9	e7.6	e51	31	49	37	14	0.66	0.01	0.02
23	e0.03	0.09	2.2	e7.6	e45	25	42	31	13	0.68	0.01	1.3
24	e0.04	0.09	13	e10	e40	24	36	27	14	0.93	0.01	0.38
25	e0.04	0.09	21	e20	e36	22	31	24	11	0.63	0.01	0.10
26	e0.06	0.18	11	e15	e43	22	41	20	9.4	0.36	0.01	0.06
27	e0.06	0.26	8.2	e13	115	64	37	18	8.9	0.20	0.01	0.07
28	e0.05	0.25	e6.1	e12	125	60	32	16	8.1	0.17	0.01	3.5
29	e0.05	0.32	e5.5	e11	---	57	54	15	7.2	0.15	0.01	1.2
30	e0.04	1.4	e5.1	e11	---	92	63	14	6.3	0.19	0.02	0.27
31	0.04	---	e4.8	e10	---	85	---	15	---	0.23	0.02	---
TOTAL	2.03	11.15	99.54	242.9	872.1	1941	1990	1318	471.7	91.47	0.85	7.49
MEAN	0.065	0.37	3.21	7.84	31.1	62.6	66.3	42.5	15.7	2.95	0.027	0.25
MAX	0.68	1.4	21	20	125	174	125	138	41	9.7	0.12	3.5
MIN	0.02	0.09	0.16	3.9	7.8	22	29	14	6.3	0.15	0.01	0.01
CFM	0.00	0.03	0.22	0.54	2.16	4.35	4.61	2.95	1.09	0.20	0.00	0.02
IN.	0.01	0.03	0.26	0.63	2.25	5.01	5.14	3.40	1.22	0.24	0.00	0.02

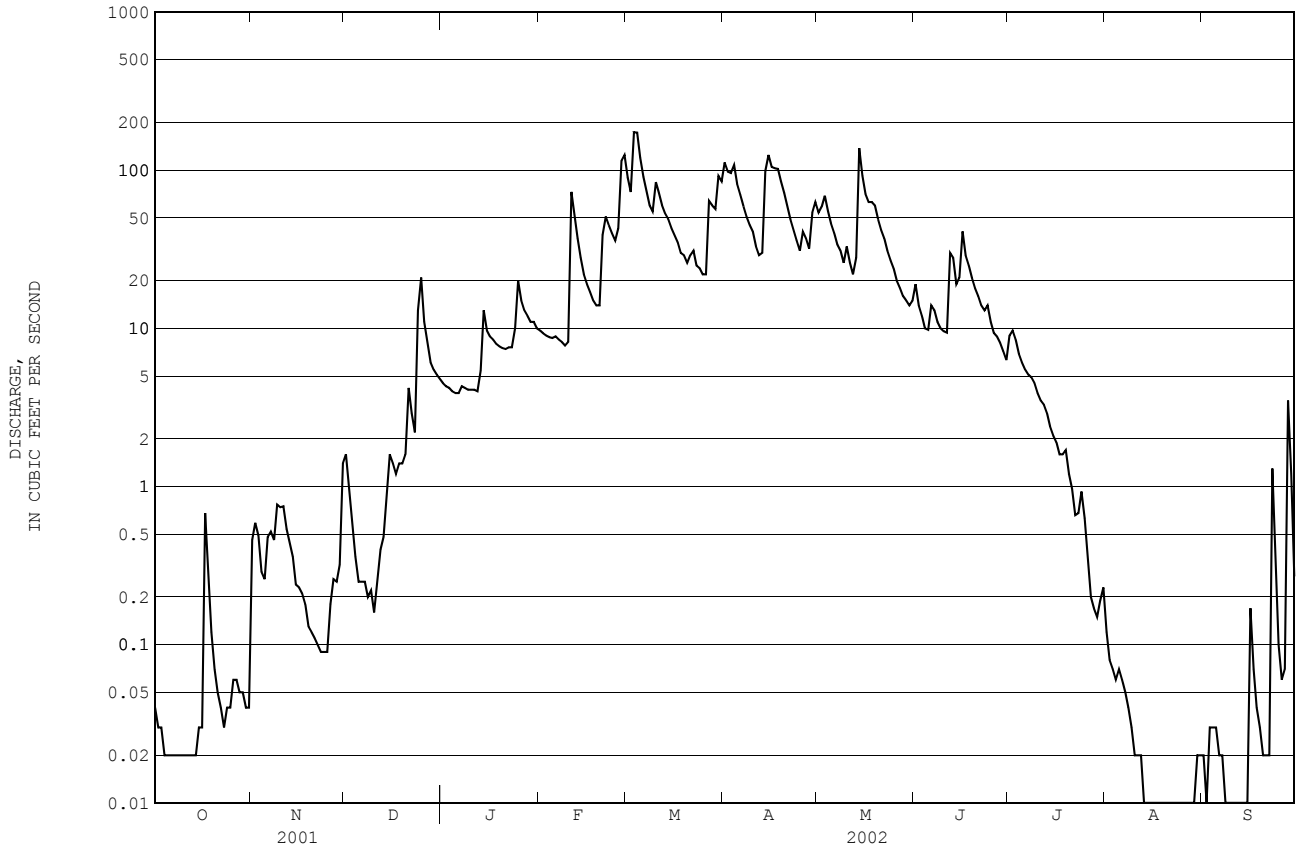
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002	1998	1999	2000	2001	2002
MEAN	8.98	17.3	21.9	38.4	30.8	72.3	69.0	27.6	11.5	4.08	0.36	0.95			
MAX	28.4	38.8	36.5	117	57.8	103	109	42.5	15.7	11.9	0.97	4.01			
(WY)	2000	2000	2000	1999	1999	1999	2001	2002	2002	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	5614.66		7048.23		25.1	
ANNUAL MEAN	15.4		19.3		31.9	
HIGHEST ANNUAL MEAN					18.4	
LOWEST ANNUAL MEAN					18.4	
HIGHEST DAILY MEAN	289	Apr 13	174	Mar 3	354	Jan 16 1999
LOWEST DAILY MEAN	0.00	Aug 17	0.01	Aug 13	0.00	Aug 17 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 17	0.01	Aug 13	0.00	Aug 17 2001
MAXIMUM PEAK FLOW			281		650	
MAXIMUM PEAK STAGE			4.15		5.82	
INSTANTANEOUS LOW FLOW			0.01		0.00	
ANNUAL RUNOFF (CF5M)	1.07		1.34		1.74	
ANNUAL RUNOFF (INCHES)	14.50		18.21		23.65	
10 PERCENT EXCEEDS	42		60		70	
50 PERCENT EXCEEDS	4.2		5.1		9.6	
90 PERCENT EXCEEDS	0.00		0.02		0.07	



SHEEPSCOT RIVER BASIN

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 highway bridge on State Route 126 at North Whitefield, at mouth of Finn Brook, and 0.3 mi east of North Whitefield village.

DRAINAGE AREA.---145 mi².

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

Chemical analyses: Water years 1954-56.
 Specific conductance: July 1974 to September 1976.
 Water 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, Dec. 19, 22-24, Dec. 26 to Feb. 12, and Feb. 14, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 7,350 ft³/s, Apr. 1, 1987, gage height, 13.71 ft; minimum discharge, 5.0 ft³/s, Oct. 24, 1941.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 4	0130	*1,420	*5.63	No other peak greater than base discharge.			

Minimum discharge, 11 ft³/s, Aug. 29, gage height, 1.62 ft.

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	18	20	29	e39	e66	917	632	442	211	76	22	13
2	17	19	30	e37	e63	866	687	442	191	88	20	13
3	17	18	27	e36	e59	1130	683	511	162	90	19	13
4	16	18	24	e35	e56	1340	859	460	147	78	18	14
5	16	21	22	e34	e53	1110	768	421	136	71	18	14
6	16	22	21	e34	e50	964	704	380	146	69	18	13
7	15	21	20	e38	e48	825	637	337	163	60	17	13
8	15	20	20	e39	e46	696	558	301	145	55	16	12
9	15	20	20	e36	e44	604	482	268	131	50	15	12
10	15	20	18	e34	e47	719	437	267	124	45	15	12
11	15	19	18	e33	e117	735	392	251	119	40	14	12
12	15	18	18	e33	e217	655	345	223	216	36	15	13
13	15	17	18	e47	186	616	321	222	302	34	15	12
14	15	17	18	e97	e157	594	738	591	223	33	15	12
15	16	17	21	e133	138	558	889	650	187	32	14	13
16	18	17	21	e142	125	501	936	588	276	30	14	23
17	19	17	21	e140	125	445	828	556	255	28	13	26
18	19	16	23	e131	122	392	838	513	228	32	13	23
19	17	16	e23	e117	113	355	762	493	207	26	13	20
20	16	16	23	e100	105	326	682	433	187	25	13	18
21	16	16	25	e80	154	321	584	385	167	24	13	17
22	17	16	e24	e68	245	316	500	345	151	23	12	17
23	15	16	e24	e62	256	281	437	308	137	23	12	23
24	15	16	e36	e58	244	260	370	275	131	24	12	25
25	15	16	110	e77	234	242	327	246	118	22	13	24
26	15	18	e88	e83	256	228	331	218	106	21	13	22
27	15	19	e69	e76	727	335	332	196	97	20	14	21
28	15	19	e55	e70	1040	427	305	197	88	20	13	35
29	18	21	e49	e67	---	419	385	203	80	20	12	41
30	18	24	e45	e63	---	515	495	211	72	21	14	32
31	18	---	e42	e63	---	587	---	201	---	22	14	---
TOTAL	502	550	1002	2102	5093	18279	17244	11134	4903	1233	459	558
MEAN	16.2	18.3	32.3	67.8	182	590	575	359	163	39.8	14.8	18.6
MAX	19	24	110	142	1040	1340	936	650	302	90	22	41
MIN	15	16	18	33	44	228	305	196	72	20	12	12
CFSM	0.11	0.13	0.22	0.47	1.25	4.07	3.96	2.48	1.13	0.27	0.10	0.13
IN.	0.13	0.14	0.26	0.54	1.31	4.69	4.42	2.86	1.26	0.32	0.12	0.14

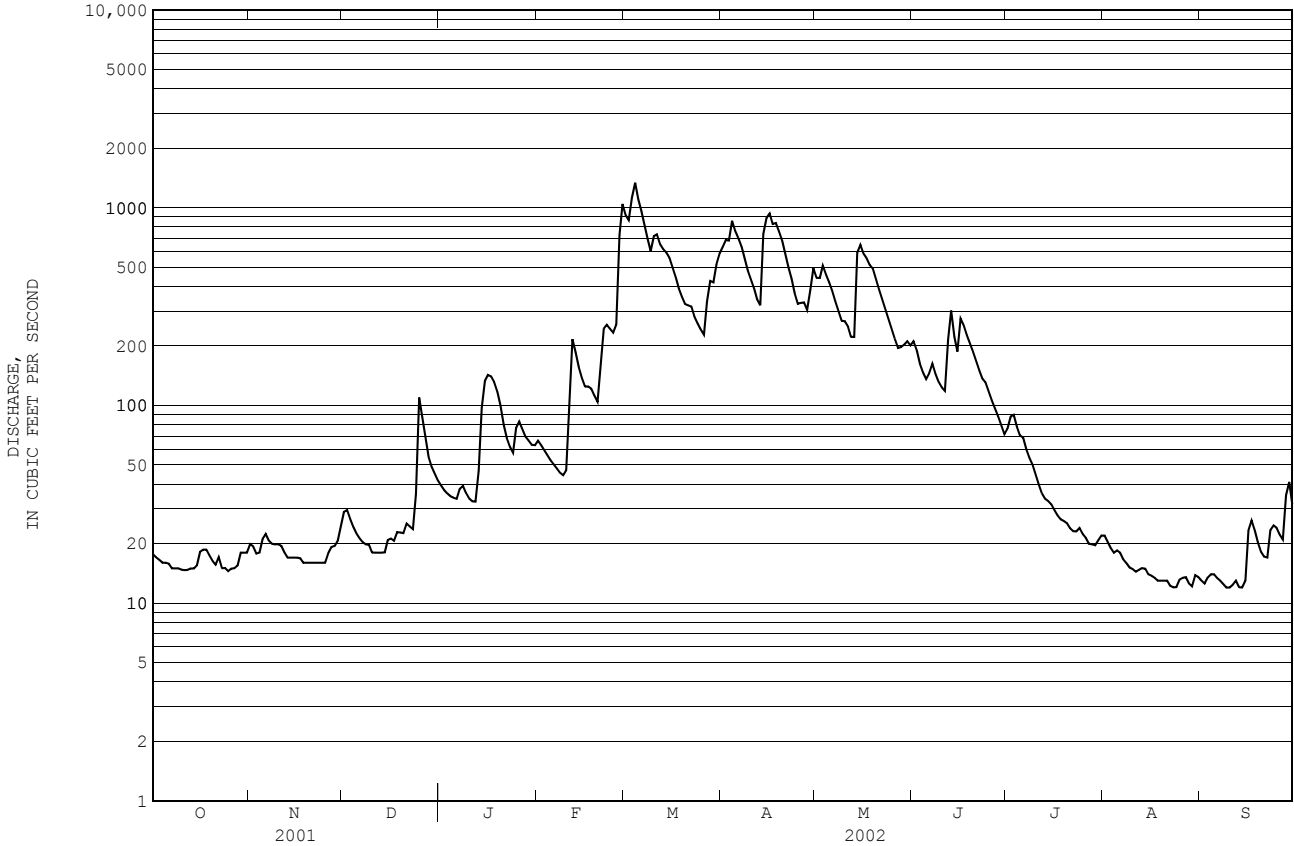
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

MEAN	86.8	240	318	232	234	449	739	342	166	74.7	46.7	51.0
MAX	658	664	1393	677	922	1103	1333	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1939 - 2002	
ANNUAL TOTAL	51685.9		63059		248	
ANNUAL MEAN	142		173		427	
HIGHEST ANNUAL MEAN					115	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	1730	Apr 15	1340	Mar 4	6690	Apr 1 1987
LOWEST DAILY MEAN	9.9	Sep 17	12	Aug 22	5.1	Oct 24 1941
ANNUAL SEVEN-DAY MINIMUM	11	Sep 14	12	Sep 8	5.5	Oct 18 1941
MAXIMUM PEAK FLOW			1420		7350	Apr 1 1987
MAXIMUM PEAK STAGE			5.63		13.71	Apr 1 1987
INSTANTANEOUS LOW FLOW			11		5.0	Oct 24 1941
ANNUAL RUNOFF (CFSM)	0.98		1.19		1.71	
ANNUAL RUNOFF (INCHES)	13.26		16.18		23.22	
10 PERCENT EXCEEDS	406		558		625	
50 PERCENT EXCEEDS	42		45		128	
90 PERCENT EXCEEDS	13		15		23	



KENNEBEC RIVER BASIN

01042500 KENNEBEC RIVER AT THE FORKS, ME

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

DRAINAGE AREA.---1,590 mi².

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

Chemical analyses: Water years 1952-53.

REVISED RECORDS.---WSP 1231: 1902-04, 1906-08, 1912, 1914, 1919-20 (M), 1923 (M), 1926 (M), 1928-29 (M), 1936 (M), 1938 (M). WSP 1301: 1928-35 (adjusted monthly runoff). WDR ME-82-1: Drainage area.

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

REMARKS.---No estimated daily discharges. Records good. Flow regulated by Moosehead Lake, Brassua Lake, and Indian Pond, combined capacity about 32.98 billion ft³. 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 at the end of the report.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 32,900 ft³/s, Apr. 18, 1983, gage height, 14.41 ft; minimum daily discharge, 161 ft³/s, Aug. 30, 1987.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 9,470 ft³/s, July 9, gage height, 6.60 ft; minimum daily discharge, 216 ft³/s, Nov. 4.

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

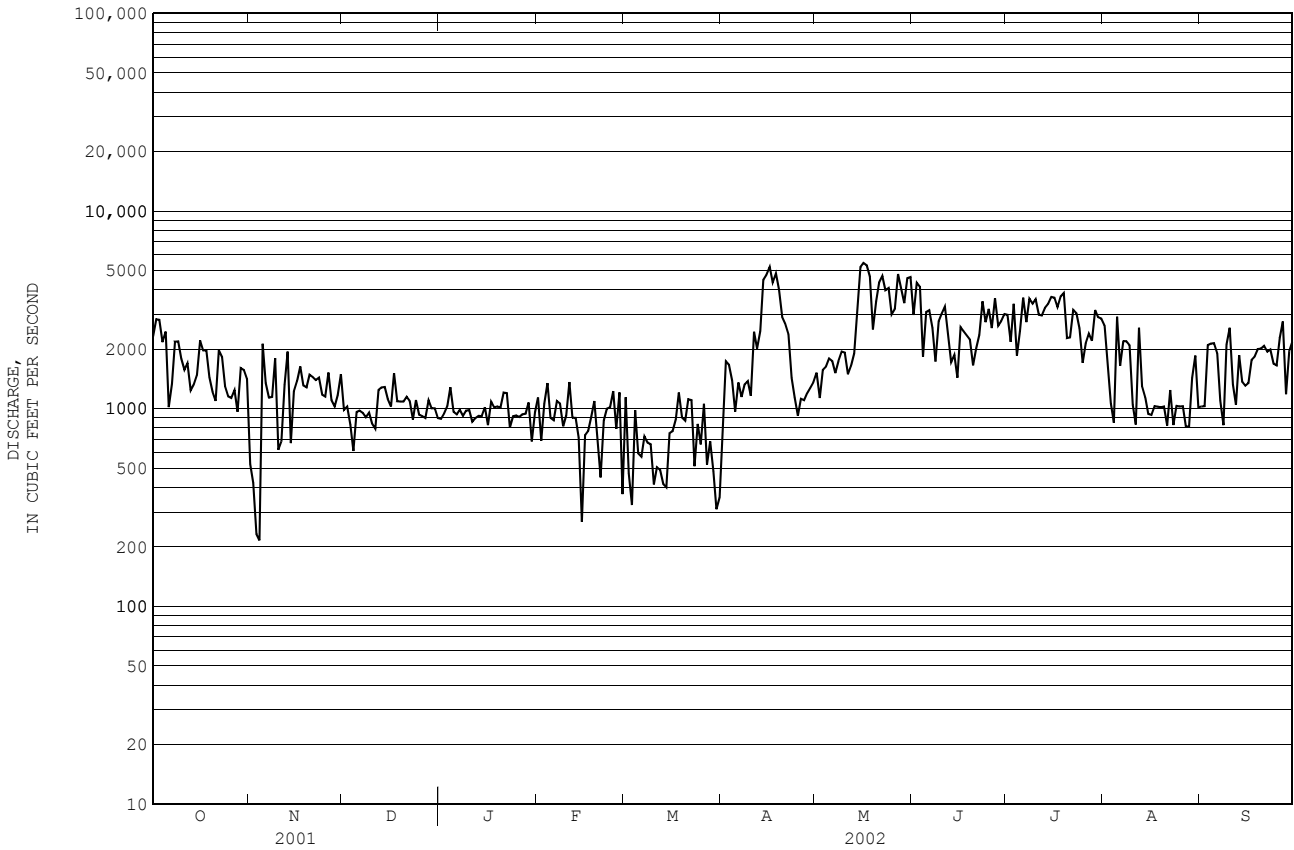
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2320	526	988	891	1140	1140	872	1520	2990	2990	2640	1030
2	2840	421	1030	946	690	471	1740	1130	4340	2180	1680	1030
3	2820	233	831	1030	1060	326	1670	1570	4150	3400	1070	2100
4	2180	216	612	1290	1350	984	1390	1640	1830	1860	849	2140
5	2460	2130	963	966	900	595	968	1800	3090	2470	2920	2150
6	1020	1350	979	938	876	572	1360	1740	3150	3650	1650	1910
7	1340	1140	953	989	1090	725	1150	1520	2570	2740	2200	1100
8	2180	1150	908	923	1060	674	1330	1750	1730	3610	2200	826
9	2190	1800	957	979	815	662	1380	1950	2770	3400	2100	2110
10	1800	620	841	986	923	414	1160	1920	3030	3590	1050	2570
11	1570	683	792	861	1370	506	2450	1490	3290	3000	833	1330
12	1700	1330	1240	898	902	491	2020	1650	2310	2960	2570	1050
13	1240	1950	1280	922	900	416	2470	1910	1720	3240	1310	1870
14	1330	670	1290	918	714	401	4490	3250	1870	3390	1140	1370
15	1480	1220	1120	1020	268	754	4770	5210	1440	3680	941	1310
16	2220	1380	1030	825	734	771	5220	5470	2590	3650	931	1350
17	1980	1640	1520	1090	770	885	4340	5330	2470	3270	1030	1770
18	1980	1310	1090	1020	916	1210	4830	4670	2350	3700	1030	1840
19	1450	1290	1090	1030	1100	903	4010	2520	2240	3850	1020	2010
20	1220	1490	1090	1010	665	871	2920	3490	1660	2280	1030	2020
21	1100	1450	1150	1210	450	1120	2700	4360	2030	2300	824	2080
22	1980	1400	1100	1200	873	1110	2390	4690	2370	3170	1240	1940
23	1830	1440	881	804	1000	513	1430	3980	3490	3040	827	2000
24	1300	1180	1110	916	1020	838	1140	4090	2750	2550	1030	1690
25	1160	1150	932	926	1230	661	922	3010	3200	1710	1030	1660
26	1130	1530	918	908	791	1060	1120	3200	2560	2140	1030	2290
27	1240	1110	899	938	1210	522	1100	4810	3630	2400	813	2760
28	966	1030	1110	945	370	685	1200	4070	2630	2210	816	1190
29	1610	1170	1010	1080	---	483	1280	3420	2780	3160	1430	1950
30	1570	1500	1010	685	---	310	1360	4580	3010	2910	1860	2180
31	1420	---	898	961	---	357	---	4640	---	2860	1020	---
TOTAL	52626	35509	31622	30105	25187	21430	65182	96380	80040	91360	42114	52626
MEAN	1698	1184	1020	971	900	691	2173	3109	2668	2947	1359	1754
MAX	2840	2130	1520	1290	1370	1210	5220	5470	4340	3850	2920	2760
MIN	966	216	612	685	268	310	872	1130	1440	1710	813	826

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2002, BY WATER YEAR (WY)

MEAN	1983	1799	2052	2325	2566	2362	2958	4686	3315	2672	2405	2266
MAX	6298	5317	8142	5569	5454	7981	9488	13520	10380	6403	4740	5511
(WY)	1955	1908	1974	1970	1996	1996	1983	1974	1917	1996	1917	1954
MIN	864	487	655	669	522	466	860	699	664	775	1083	1053
(WY)	1906	1912	1909	1904	1904	1906	1980	1980	1988	1988	1987	1987

01042500 KENNEBEC RIVER AT THE FORKS, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1904 - 2002	
ANNUAL TOTAL	712240		624181		2616	
ANNUAL MEAN	1951		1710		4701	
HIGHEST ANNUAL MEAN					1516	
LOWEST ANNUAL MEAN					28200	
HIGHEST DAILY MEAN	7090	Apr 25	5470	May 16	314	Jun 1 1984
LOWEST DAILY MEAN	216	Nov 4	216	Nov 4	161	Aug 30 1987
ANNUAL SEVEN-DAY MINIMUM	805	May 26	509	Mar 8	314	Jan 6 1909
MAXIMUM PEAK FLOW			9470	Jul 9	32900	Apr 18 1983
MAXIMUM PEAK STAGE			6.60	Jul 9	14.41	Apr 18 1983
10 PERCENT EXCEEDS	3140		3260		4370	
50 PERCENT EXCEEDS	1780		1310		2250	
90 PERCENT EXCEEDS	835		764		878	



KENNEBEC RIVER BASIN

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 mi².

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. 6, May 4, 11, 25-26, June 1, 8, 15, 29, July 6, 13-14, Aug. 3-4, 10-11, Sept. 1, and 14, except for periods of ice effect, Nov. 12-15 and Dec. 9 to Apr. 9, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,500 ft³/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 ft³/s, Sept. 10-11, 2002, gage height, 0.97 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 18	0200	*4,970	*6.86	No other peak greater than base discharge.			

Minimum discharge, 8.7 ft³/s, Sept. 10-11, gage height, 0.97 ft.

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	40	53	242	e62	e61	e88	e214	624	e599	624	165	e14
2	36	55	403	e60	e69	e78	e274	716	459	1230	116	13
3	34	65	282	e59	e67	e74	e273	860	356	530	e101	12
4	32	67	216	e57	e65	e104	e303	e1020	290	345	e89	12
5	30	63	191	e55	e63	e107	e286	871	257	264	78	11
6	e29	67	184	e54	e61	e92	e251	877	292	e289	70	11
7	31	73	170	e59	e60	e81	e236	899	273	270	66	11
8	34	64	143	e60	e59	e75	e212	872	e235	231	60	11
9	38	55	e120	e59	e58	e71	e211	661	214	253	52	9.5
10	35	57	e100	e57	e57	e107	457	594	199	266	e48	9.0
11	35	56	e95	e57	e65	e274	633	e623	187	203	e45	10
12	34	e50	e95	e56	e73	e235	657	481	437	173	41	13
13	32	e41	e92	e55	e68	e187	1130	421	651	e154	39	27
14	30	e35	e105	e67	e64	e168	2530	501	392	e138	35	e21
15	30	e32	e101	e59	e60	e163	3170	750	e304	139	33	22
16	32	79	e100	e64	e56	e154	2940	710	393	164	31	63
17	43	105	e95	e63	e52	e142	3980	835	411	138	29	79
18	49	76	e93	e61	e50	e130	4410	756	595	129	27	47
19	48	66	e91	e60	e47	e121	3160	550	499	123	32	34
20	41	63	e86	e59	e45	e114	2320	462	365	110	31	28
21	41	63	e81	e58	e45	e107	1630	407	290	100	28	25
22	111	61	e76	e57	e51	e103	1150	365	248	89	26	25
23	111	57	e74	e55	e61	e98	921	336	226	84	25	26
24	78	55	e73	e54	e64	e95	773	321	389	107	25	26
25	75	55	e74	e67	e59	e92	677	e308	312	95	23	24
26	81	64	e72	e76	e57	e89	665	e291	254	76	21	22
27	80	93	e71	e66	e64	e88	654	285	290	67	19	23
28	69	86	e69	e64	e83	e98	583	263	268	66	18	184
29	62	88	e67	e62	---	e96	574	246	e227	72	17	146
30	57	109	e66	e61	---	e105	546	241	188	225	16	86
31	54	---	e64	e61	---	e138	---	350	---	341	15	---
TOTAL	1532	1953	3791	1864	1684	3674	35820	17496	10100	7095	1421	1044.5
MEAN	49.4	65.1	122	60.1	60.1	119	1194	564	337	229	45.8	34.8
MAX	111	109	403	76	83	274	4410	1020	651	1230	165	184
MIN	29	32	64	54	45	71	211	241	187	66	15	9.0
CFSM	0.25	0.34	0.63	0.31	0.31	0.61	6.15	2.91	1.74	1.18	0.24	0.18
IN.	0.29	0.37	0.73	0.36	0.32	0.70	6.87	3.35	1.94	1.36	0.27	0.20

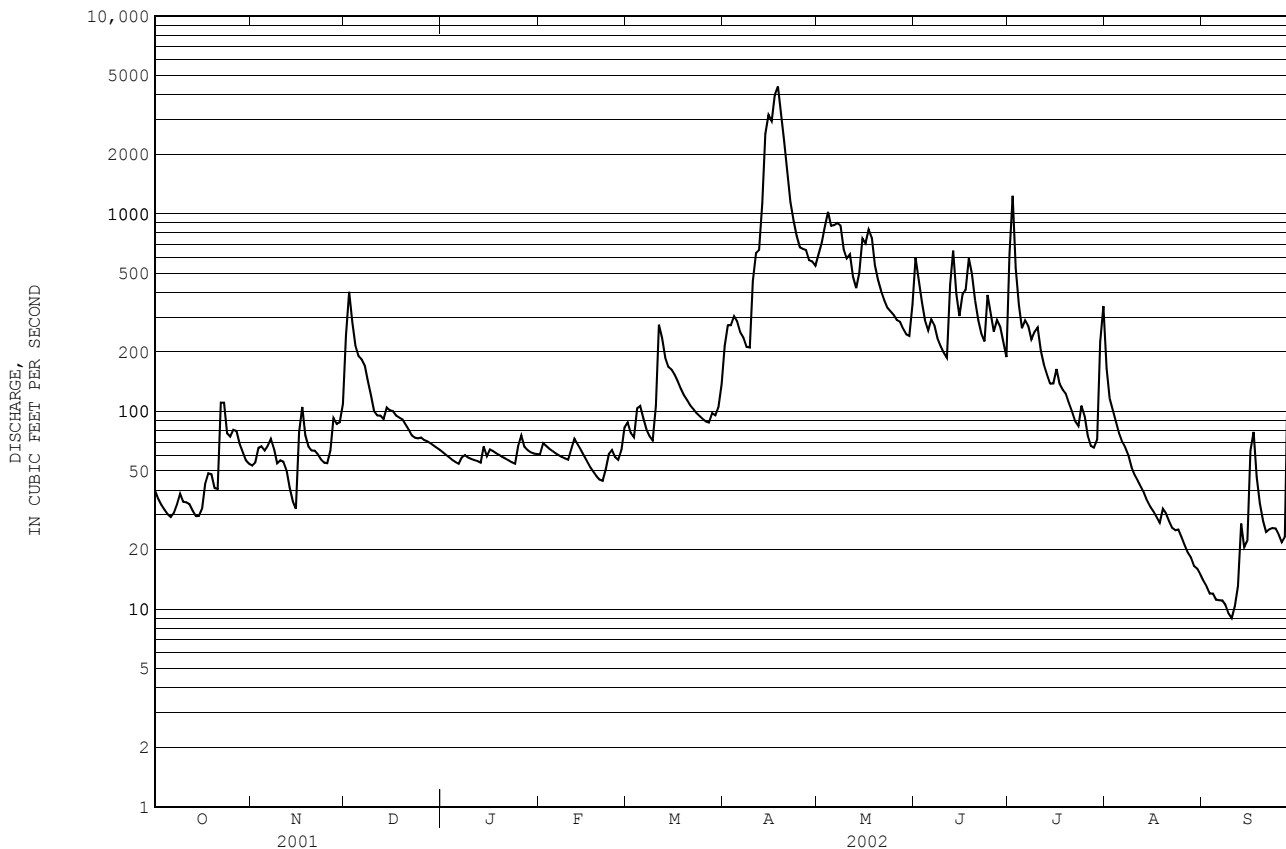
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	236	239	226	128	119	249	1189	882	323	170	52.1	191
MAX	547	400	290	164	163	514	1468	1191	377	229	65.6	612
(WY)	2000	2000	2000	2000	2001	2000	2000	2000	2001	2002	1999	1999
MIN	49.4	65.1	122	60.1	60.1	115	906	564	254	137	33.5	34.8
(WY)	2002	2002	2002	2002	2002	2001	2001	2002	2000	2001	2001	2002

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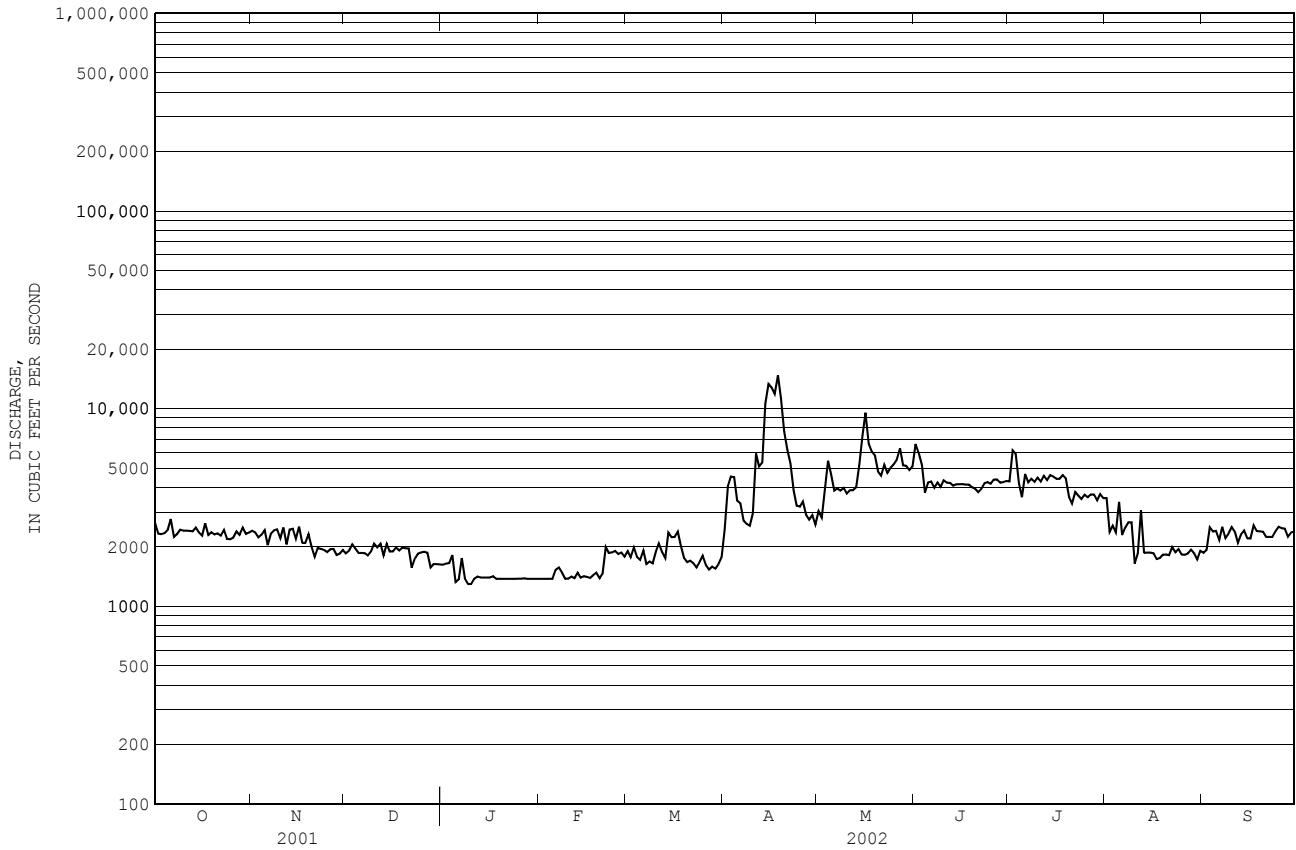
01044550 SPENCER STREAM AT MOUTH, NEAR GRAND FALLS, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	93015		87474.5			
ANNUAL MEAN	255		240		322	
HIGHEST ANNUAL MEAN					437 2000	
LOWEST ANNUAL MEAN					240 2002	
HIGHEST DAILY MEAN	4460	Apr 25	4410	Apr 18	4850	May 11 2000
LOWEST DAILY MEAN	18	Sep 19	9.0	Sep 10	9.0	Sep 10 2002
ANNUAL SEVEN-DAY MINIMUM	20	Sep 15	10	Sep 5	10	Sep 5 2002
MAXIMUM PEAK FLOW			4970		5500	
MAXIMUM PEAK STAGE			6.86		9.14	
INSTANTANEOUS LOW FLOW			8.7		8.7	
ANNUAL RUNOFF (CFSM)	1.31		1.24		1.66	
ANNUAL RUNOFF (INCHES)	17.84		16.77		22.53	
10 PERCENT EXCEEDS	512		594		730	
50 PERCENT EXCEEDS	120		80		148	
90 PERCENT EXCEEDS	32		29		42	



01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1908 - 2002	
ANNUAL TOTAL	1228020		1058350		4466	
ANNUAL MEAN	3364		2900		7881	
HIGHEST ANNUAL MEAN					2613	
LOWEST ANNUAL MEAN					1996	
HIGHEST DAILY MEAN	19200	Apr 25	14800	Apr 18	62000	Jun 1 1984
LOWEST DAILY MEAN	1570	Dec 22	1300	Jan 9	110	Dec 25 1947
ANNUAL SEVEN-DAY MINIMUM	1730	Dec 25	1370	Jan 8	587	Nov 18 1908
MAXIMUM PEAK FLOW			16700		65200	
MAXIMUM PEAK STAGE			10.61		15.61	
10 PERCENT EXCEEDS	4930		4670		7700	Jun 1 1984
50 PERCENT EXCEEDS	2520		2320		3470	
90 PERCENT EXCEEDS	1990		1420		2170	



KENNEBEC RIVER BASIN

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

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

DRAINAGE AREA.---353 mi².

PERIOD OF RECORD.---Discharge: November and December 1901, June 1902 to 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, Dec. 10-25 and Dec. 28 to Mar. 30, 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 at the end of the report.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 50,700 ft³/s, Apr. 1, 1987, gage height, 26.66 ft, from rating extended above 27,000 ft³/s on basis of slope-area measurements; maximum gage height, 27.78 ft, Feb. 21, 1978 (backwater from ice); minimum discharge, 18 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 15	1830	*5,690	*8.78	No other peak greater than base discharge.			

Minimum discharge, 28 ft³/s, Sept. 11, gage height, 2.24 ft.

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	67	73	319	e112	e148	e552	2040	1160	773	551	73	32
2	62	78	476	e106	e143	e464	2320	1400	586	903	64	31
3	58	86	366	e102	e143	e433	2260	2020	454	746	60	33
4	55	84	285	e99	e142	e807	2700	1900	366	541	58	36
5	53	81	237	e98	e136	e736	1980	1220	343	279	57	37
6	51	90	210	e97	e131	e539	1490	978	528	236	55	35
7	51	103	187	e106	e125	e428	972	993	540	230	53	33
8	53	87	166	e104	e121	e345	970	1010	389	210	52	31
9	53	84	147	e103	e118	e272	1150	749	326	197	50	30
10	52	86	e121	e107	e116	e978	1600	653	288	184	49	29
11	51	87	e110	e107	e161	e1820	1810	634	263	170	47	29
12	50	80	e109	e107	e239	e1090	1720	506	1130	160	46	32
13	49	72	e107	e115	e323	e762	2430	465	1860	152	44	34
14	48	68	e107	e113	e301	e690	4590	1610	1070	148	42	41
15	51	69	e111	e112	e257	e657	4700	3060	643	151	41	48
16	54	71	e91	e112	e213	e534	4090	2260	850	175	40	105
17	73	73	e79	e109	e180	e462	4100	1880	886	162	38	139
18	95	80	e109	e105	e160	e406	4520	1240	711	152	37	91
19	85	73	e117	e102	e147	e364	3340	935	542	143	36	65
20	73	73	e116	e99	e138	e340	2260	893	389	98	40	54
21	67	72	e112	e98	e214	e343	1490	758	387	85	39	49
22	70	71	e109	e97	e323	e355	1090	535	305	80	38	46
23	86	67	e105	e96	e427	e293	916	487	268	77	38	46
24	93	67	e103	e118	e410	e266	771	465	266	77	38	44
25	107	70	e170	e141	e327	e249	655	510	243	77	39	42
26	112	84	231	e172	e264	e244	692	401	231	69	37	41
27	113	147	209	e166	e292	e260	816	389	290	64	36	42
28	94	144	e173	e158	e596	e300	731	364	277	64	33	136
29	81	136	e155	e153	---	e307	780	340	240	70	33	191
30	74	165	e139	e149	---	e537	882	323	207	73	33	104
31	70	---	e123	e144	---	1240	---	372	---	75	33	---
TOTAL	2151	2621	5199	3607	6295	17073	59865	30510	15651	6399	1379	1706
MEAN	69.4	87.4	168	116	225	551	1996	984	522	206	44.5	56.9
MAX	113	165	476	172	596	1820	4700	3060	1860	903	73	191
MIN	48	67	79	96	116	244	655	323	207	64	33	29
CFSM	0.20	0.25	0.48	0.33	0.64	1.56	5.65	2.79	1.48	0.58	0.13	0.16
IN.	0.23	0.28	0.55	0.38	0.66	1.80	6.31	3.22	1.65	0.67	0.15	0.18

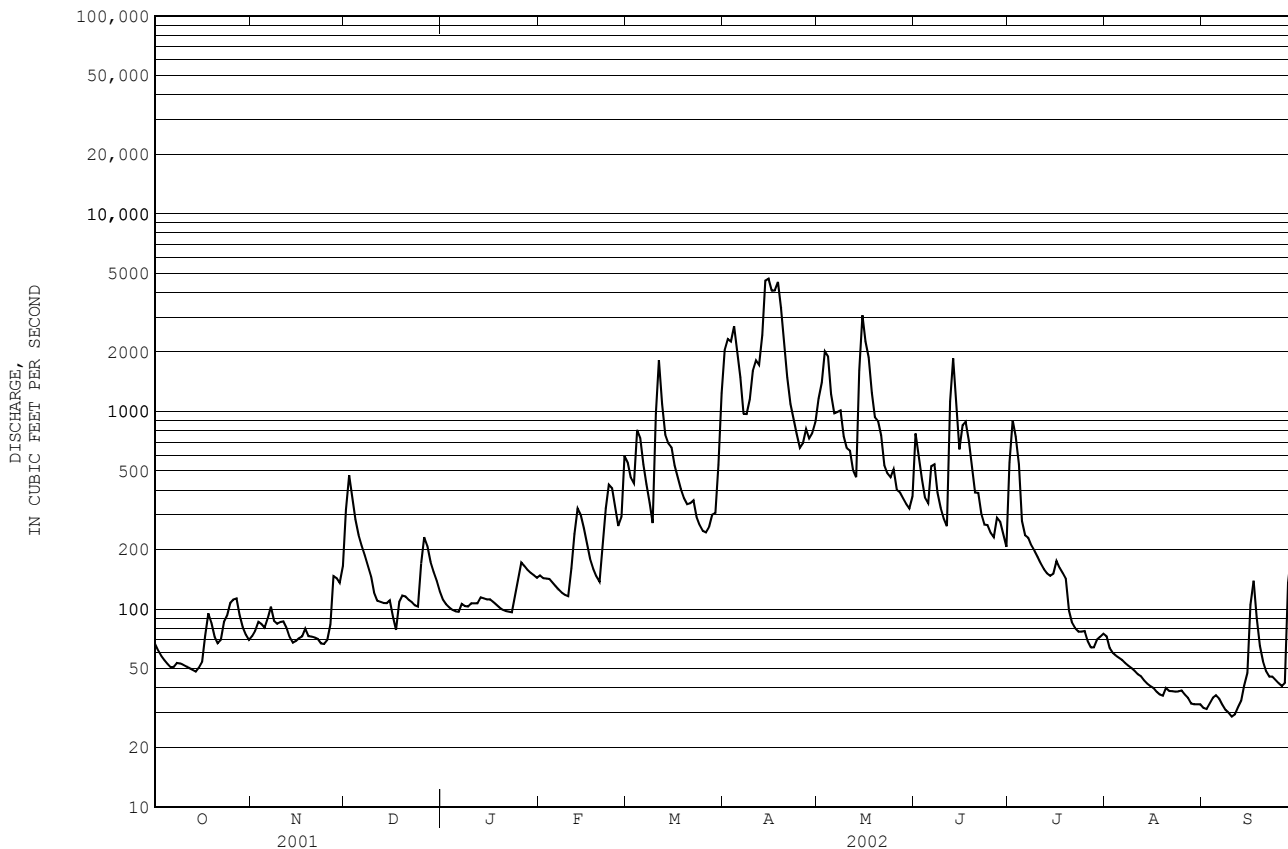
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2002, BY WATER YEAR (WY)

	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	491	761	599	375	329	842	2339	1555	617	329	217	239																																																																																								
MAX	2606	2492	3565	1633	1922	4750	4009	3694	2916	2201	1124	1768																																																																																								
(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																																																																																								

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01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	164847		152456		725	
ANNUAL MEAN	452		418		1288	
HIGHEST ANNUAL MEAN					333	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	7590	Apr 25	4700	Apr 15	36000	Apr 1 1987
LOWEST DAILY MEAN	37	Sep 19	29	Sep 10	27	Aug 28 1949
ANNUAL SEVEN-DAY MINIMUM	39	Sep 14	31	Sep 7	31	Sep 7 2002
MAXIMUM PEAK FLOW			5690		50700	
MAXIMUM PEAK STAGE			8.78		27.78	
INSTANTANEOUS LOW FLOW			28		18	
ANNUAL RUNOFF (CFSM)	1.28		1.18		2.05	
ANNUAL RUNOFF (INCHES)	17.37		16.07		27.90	
10 PERCENT EXCEEDS	923		1030		1760	
50 PERCENT EXCEEDS	171		143		313	
90 PERCENT EXCEEDS	51		44		96	



KENNEBEC RIVER BASIN

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 mi².

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

Chemical analysis: 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 period of ice effect, Dec. 12 to Mar. 27, 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 at the end of the report.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 38,600 ft³/s, Mar. 19, 1936, gage height, 16.75 ft, from rating curve extended above 15,000 ft³/s on basis of records 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 ft³/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 ft³/s, from rating curve extended as explained above.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 14	1730	*8,820	*8.46	No other peak greater than base discharge.			

Minimum discharge, 30 ft³/s, Sept. 14-15, gage height, 2.27 ft.

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	111	92	326	e137	e189	e945	3150	2000	929	707	110	35
2	99	94	613	e129	e186	e812	3510	1990	963	2120	105	35
3	89	95	522	e124	e184	e878	3570	2970	703	1120	94	37
4	83	101	362	e121	e179	e1890	4730	2680	548	721	89	38
5	77	109	290	e121	e176	e1500	3140	1920	471	519	86	39
6	73	111	248	e121	e175	e1070	2410	1630	825	413	86	38
7	69	129	219	e131	e170	e861	1970	1480	1150	362	82	36
8	66	144	192	e131	e166	e734	1690	1320	768	329	77	35
9	65	134	176	e131	e163	e667	1580	1150	585	298	71	33
10	66	122	162	e137	e160	e1780	2310	1070	491	267	68	32
11	65	121	148	e136	e249	e2930	2810	1020	429	238	65	33
12	63	120	e134	e136	e443	e1790	2250	869	1450	214	63	33
13	61	113	e131	e143	e578	e1380	2450	804	3810	195	59	31
14	63	107	e131	e155	e498	e1300	6510	3430	1830	180	57	30
15	65	103	e137	e153	e427	e1490	7280	4560	1210	170	54	34
16	62	103	e122	e150	e380	e1120	6210	3220	1530	172	52	49
17	72	98	e111	e146	e345	e916	4750	2530	1590	201	50	70
18	85	99	e127	e142	e319	e811	5520	2370	1240	183	48	126
19	100	105	e147	e141	e299	e730	4310	1910	986	163	45	98
20	106	105	e143	e136	e285	e671	2900	1510	801	153	47	76
21	97	101	e139	e134	e326	e661	2130	1260	655	144	46	63
22	89	98	e129	e131	e562	e723	1610	1090	553	136	46	56
23	84	98	e121	e128	e725	e593	1350	956	488	134	44	56
24	103	96	e139	e130	e694	e584	1160	849	485	132	43	51
25	117	97	e187	e156	e576	e519	1020	762	497	132	44	47
26	118	107	e260	e199	e506	e499	1060	683	406	127	43	44
27	120	123	e238	e251	e587	e535	1300	639	392	116	42	46
28	122	192	e200	e235	e1000	676	1100	595	439	109	40	71
29	112	183	e170	e218	---	756	1270	536	420	105	39	134
30	101	202	e156	e208	---	1160	1690	500	364	111	39	167
31	91	---	e146	e197	---	2180	---	515	---	113	37	---
TOTAL	2694	3502	6326	4708	10547	33161	86740	48818	27008	10084	1871	1673
MEAN	86.9	117	204	152	377	1070	2891	1575	900	325	60.4	55.8
MAX	122	202	613	251	1000	2930	7280	4560	3810	2120	110	167
MIN	61	92	111	121	160	499	1020	500	364	105	37	30
CFSM	0.17	0.23	0.40	0.29	0.73	2.07	5.60	3.05	1.74	0.63	0.12	0.11
IN.	0.19	0.25	0.46	0.34	0.76	2.39	6.25	3.52	1.95	0.73	0.13	0.12

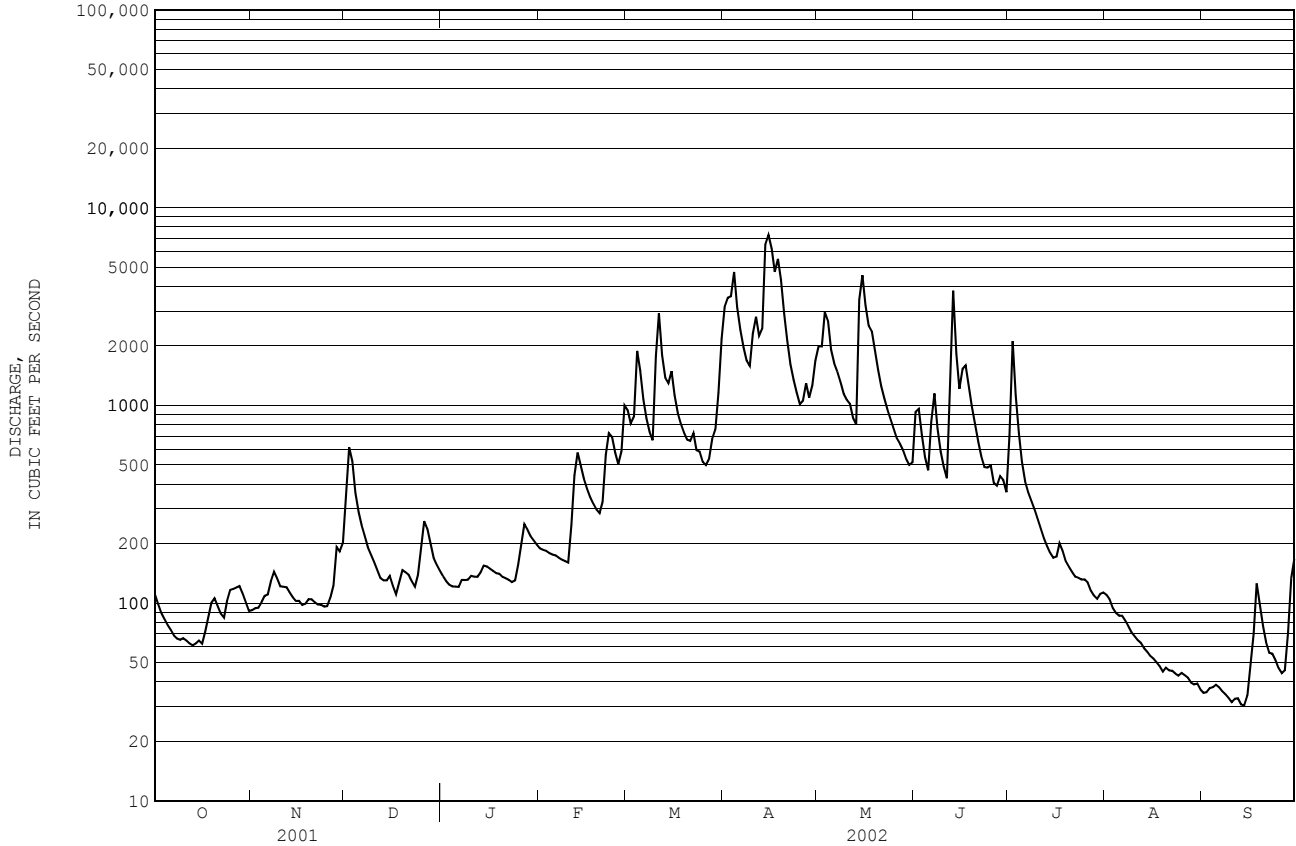
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	548	956	830	552	502	1252	3411	1909	788	399	242	275																																																														
MAX	3057	2947	4315	2285	3322	6479	5399	4105	3824	2300	1439	2664																																																														
(WY)	1978	1964	1974	1978	1970	1936	1951	1972	1998	1996	1976	1954																																																														
MIN	61.1	107	85.8	100	87.7	242	1334	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	245282		237132		973	
ANNUAL MEAN	672		650		1583	
HIGHEST ANNUAL MEAN					436	
LOWEST ANNUAL MEAN					31400	
HIGHEST DAILY MEAN	10600	Apr 23	7280	Apr 15	31400	Mar 27 1953
LOWEST DAILY MEAN	38	Sep 19	30	Sep 14	30	Sep 14 2002
ANNUAL SEVEN-DAY MINIMUM	41	Sep 14	32	Sep 9	32	Sep 9 2002
MAXIMUM PEAK FLOW			8820	Apr 14	38600	Mar 19 1936
MAXIMUM PEAK STAGE			8.46	Apr 14	18.89	Feb 12 1979
INSTANTANEOUS LOW FLOW			30	Sep 14	30	Sep 14 2002
ANNUAL RUNOFF (CFSM)	1.30		1.26		1.89	
ANNUAL RUNOFF (INCHES)	17.68		17.10		25.61	
10 PERCENT EXCEEDS	1300		1810		2460	
50 PERCENT EXCEEDS	260		176		425	
90 PERCENT EXCEEDS	69		53		111	



KENNEBEC RIVER BASIN

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

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

DRAINAGE AREA.---572 mi².

PERIOD OF RECORD.---Discharge: 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.---No estimated daily discharges. Records good. Flow regulated by dam 0.4 mi upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity about 2.345 billion ft³. Satellite gage-height telemeter at station.

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

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 5,420 ft³/s, Apr. 6, gage height, 7.37 ft; minimum daily discharge, 9.9 ft³/s, Nov. 22.

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

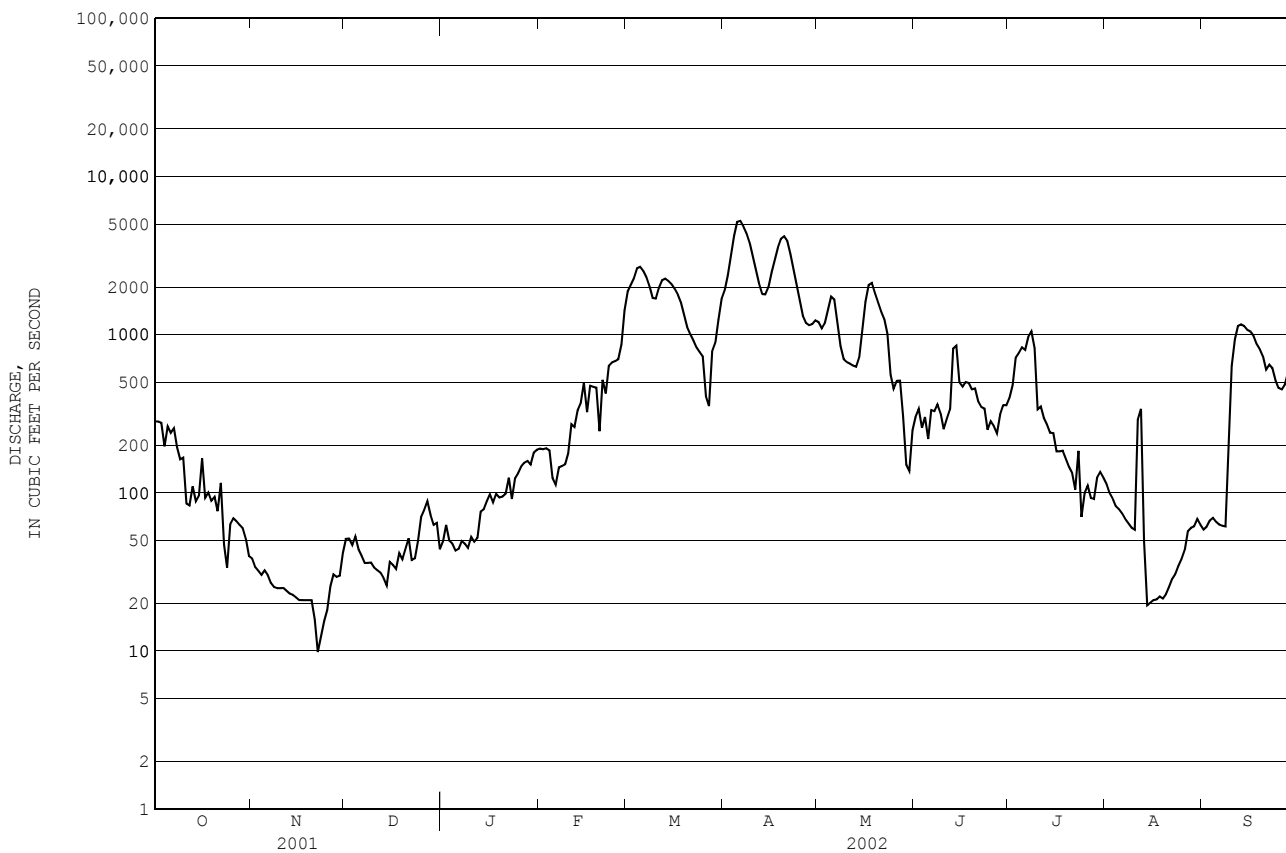
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	38	51	49	190	1880	1910	1200	302	399	114	59
2	282	34	52	63	189	2060	2390	1100	340	482	100	61
3	277	32	47	50	191	2270	3150	1190	258	717	92	67
4	197	30	53	48	186	2630	4230	1450	302	770	82	69
5	264	32	44	43	124	2690	5180	1740	219	833	79	66
6	240	30	40	44	113	2530	5250	1670	334	802	74	63
7	256	27	36	50	145	2320	4820	1220	329	973	68	62
8	195	25	36	48	148	2020	4370	850	362	1050	64	61
9	163	25	36	45	152	1710	3790	701	317	822	60	182
10	167	25	34	53	178	1700	3170	672	253	337	58	636
11	86	25	32	49	272	1970	2590	657	294	352	290	937
12	83	24	31	52	261	2210	2110	638	339	298	339	1140
13	110	23	29	76	333	2260	1810	626	816	270	50	1160
14	88	23	26	79	368	2190	1800	720	851	240	19	1130
15	96	22	37	89	496	2090	2010	1100	501	239	20	1070
16	165	21	35	98	324	1960	2490	1620	471	183	21	1050
17	93	21	33	87	476	1800	2960	2060	502	183	21	983
18	101	21	42	99	468	1610	3570	2130	495	185	22	873
19	89	21	38	94	463	1340	4040	1840	452	165	21	809
20	94	21	44	95	245	1120	4200	1600	458	147	23	728
21	77	16	52	99	519	1010	3930	1410	378	134	26	602
22	116	9.9	38	125	425	920	3240	1250	349	105	29	648
23	47	12	39	91	637	832	2590	1020	341	184	31	616
24	34	16	49	124	669	776	2070	559	251	70	35	514
25	63	18	70	133	682	730	1640	455	284	100	38	461
26	69	26	78	147	701	408	1320	512	265	111	44	451
27	66	31	89	155	870	354	1190	513	238	93	57	484
28	63	29	72	159	1420	785	1150	306	314	91	60	579
29	60	30	63	151	---	893	1170	151	359	125	61	669
30	51	42	65	180	---	1240	1230	138	359	135	68	480
31	40	---	44	187	---	1690	---	249	---	125	63	---
TOTAL	4016	749.9	1435	2862	11245	49998	85370	31347	11333	10720	2129	16710
MEAN	130	25.0	46.3	92.3	402	1613	2846	1011	378	346	68.7	557
MAX	284	42	89	187	1420	2690	5250	2130	851	1050	339	1160
MIN	34	9.9	26	43	113	354	1150	138	219	70	19	59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	1929	2002	2002	2002	1993	1967	1981	1999	1992	1983	1982	1982
MEAN	465	876	1015	689	669	1347	3356	1406	635	348	266	415
MAX	2654	2913	4609	2260	3576	5764	5768	3202	3659	1914	1708	3447
(WY)	1978	1964	1974	1978	1970	1936	1934	1945	1984	1973	1976	1954
MIN	76.6	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

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	192010.9		227914.9		953	
ANNUAL MEAN	526		624		1645	
HIGHEST ANNUAL MEAN					437	
LOWEST ANNUAL MEAN					17200	
HIGHEST DAILY MEAN	6680	Apr 18	5250	Apr 6	17200	Apr 3 1987
LOWEST DAILY MEAN	9.9	Nov 22	9.9	Nov 22	4.5	Nov 10 1956
ANNUAL SEVEN-DAY MINIMUM	16	Nov 19	16	Nov 19	6.6	Nov 6 1965
MAXIMUM PEAK FLOW			5420		17600	
MAXIMUM PEAK STAGE			7.37		15.53	
10 PERCENT EXCEEDS	1010		1930		2450	
50 PERCENT EXCEEDS	181		197		480	
90 PERCENT EXCEEDS	35		31		110	



KENNEBEC RIVER BASIN

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 mi².

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 ft³/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 period of ice effect, Dec. 13 to Apr. 1, which is fair. Flow regulated by Indian and Plymouth Ponds, and Moosehead, Brassua, Flagstaff, Wyman, Great Moose, and Sebasticook Lakes, combined capacity about 50.318 billion ft³. Satellite gage-height telemeter at station.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41,000 ft³/s, Apr. 16, gage height, 13.57 ft; minimum daily discharge, 1,510 ft³/s, Jan. 10.

**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	3080	2930	2670	e2060	e2150	e7620	e13400	10800	7980	7200	4500	2080
2	3130	3160	3350	e2030	e2090	e7260	19100	11300	10700	12100	4330	2130
3	2840	2540	3560	e2030	e2030	e7910	21100	14000	7990	13300	3260	2280
4	3140	2620	3040	e2170	e2000	e11700	27800	15500	7090	9570	3270	3000
5	2740	2630	2970	e1680	e1980	e9730	22700	14400	7000	8180	3500	2780
6	2980	2850	2520	e1630	e1950	e8150	18800	12100	8850	8050	4160	2520
7	2880	2640	2580	e1800	e2020	e7090	16000	10900	7400	7500	3020	2710
8	3030	2860	2530	e1660	e1920	e6410	13800	10100	5640	7730	3400	2700
9	2840	3300	2520	e1540	e2020	e5880	13300	8830	6940	7320	3190	2590
10	2640	2560	2480	e1510	e1920	e10300	13600	8330	6300	6980	2790	2890
11	2930	2810	2380	e1650	e2410	e16600	16600	8280	6270	6190	2370	3510
12	2670	2610	2310	e1720	e2740	e11300	16300	7430	7610	6110	3190	3590
13	2670	2780	e2300	e1970	e3390	e9580	14700	6990	14300	6250	3630	3700
14	2880	3190	e2280	e1840	e3210	e9190	24400	14800	11600	6130	2150	3900
15	2770	2660	e2250	e1950	e3210	e10500	35500	23000	9230	6260	2270	3760
16	2890	2550	e2290	e1930	e3080	e8770	37100	23100	9260	6260	2340	4180
17	2800	2440	e2220	e1890	e2830	e7530	30500	18100	10300	6030	2370	3910
18	2830	2360	e2140	e1820	e2830	e7080	37000	16100	9150	6020	2210	3590
19	2710	2440	e2330	e1790	e2750	e6040	34000	14500	8040	5930	2280	3650
20	2590	2510	e2430	e1770	e2520	e5390	25000	12400	7120	5510	2060	3520
21	2830	1950	e2530	e1770	e3010	e5290	19700	10800	6740	4760	2130	3480
22	3420	2010	e2140	e1780	e4150	e5440	16700	10000	6500	4970	2200	3210
23	3210	2200	e2120	e1770	e4910	e4590	14100	9540	6040	4790	2350	3770
24	3150	2200	e2250	e1760	e4990	e4590	11400	9500	6260	4890	2260	3240
25	3050	2170	e2550	e2030	e4570	e4330	10000	7960	6090	4760	2260	3340
26	2550	2530	e2700	e2140	e4290	e3990	9090	8190	6280	4690	2140	3120
27	2600	2140	e2640	e2260	e5210	e4180	9130	9870	6590	4550	2420	3150
28	2670	2280	e2430	e2220	e7740	e4810	8070	7610	6830	4680	2050	3860
29	2410	2480	e2200	e2180	---	e5310	7160	7360	6450	4740	2160	3540
30	2400	2890	e2160	e2180	---	e7370	11000	7140	6270	4870	2260	3850
31	2390	---	e2110	e2160	---	e10600	---	7130	---	4800	2240	---
TOTAL	87720	77290	76980	58690	87920	234530	567050	356060	232820	201120	84760	97550
MEAN	2830	2576	2483	1893	3140	7565	18900	11490	7761	6488	2734	3252
MAX	3420	3300	3560	2260	7740	16600	37100	23100	14300	13300	4500	4180
MIN	2390	1950	2110	1510	1920	3990	7160	6990	5640	4550	2050	2080

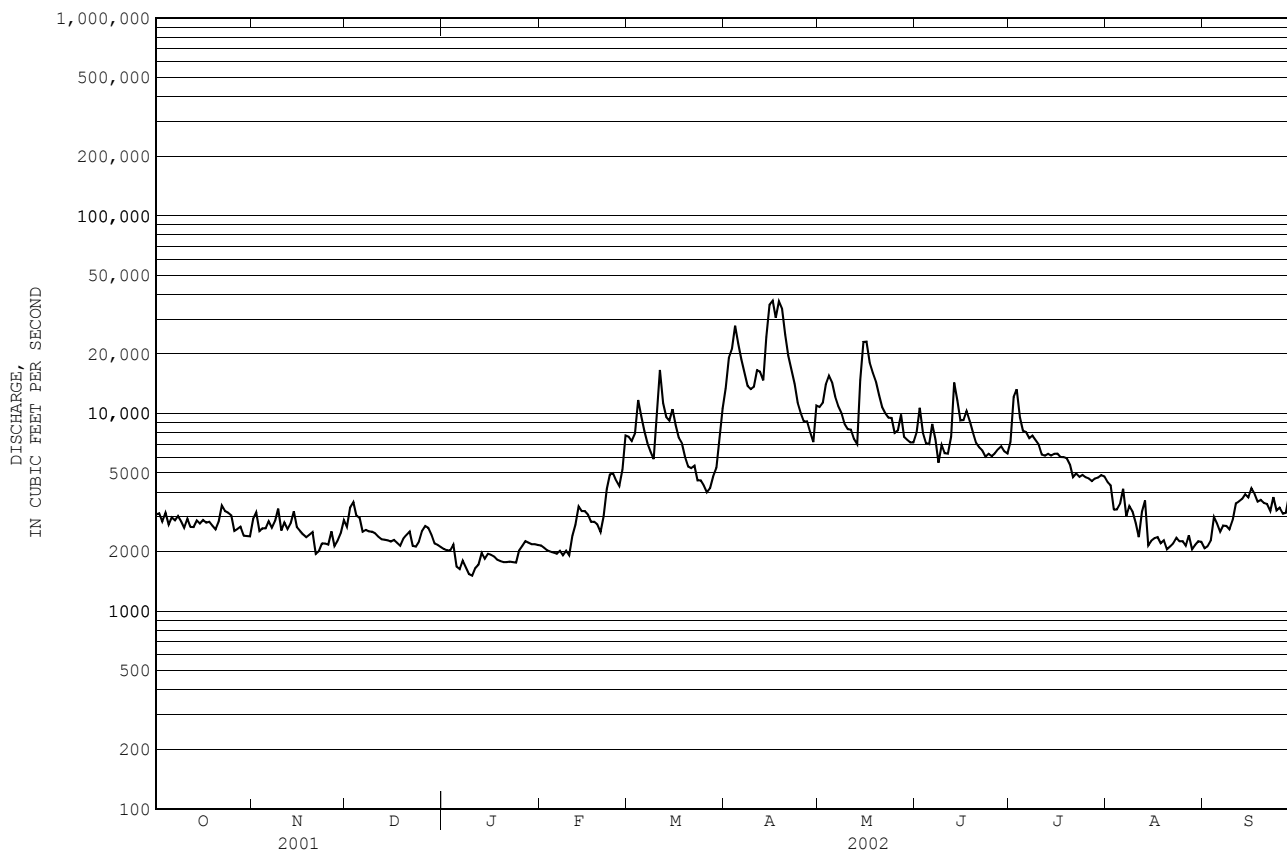
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2002, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	6449	8177	7564	5963	6231	10920	22770	14080	8887	5104	4623	5022												
MAX	15020	17620	17660	12230	10200	22470	36430	25530	29420	10550	7196	7636												
(WY)	1982	1991	1991	1986	1981	1979	1983	1989	1984	1984	1991	1981												
MIN	2830	2576	2483	1893	3140	4995	7110	6016	3252	3362	2734	3153												
(WY)	2002	2002	2002	2002	2002	1989	1981	1985	1988	1980	2002	2000												

e Estimated

01049265 KENNEBEC RIVER AT NORTH SIDNEY, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1979 - 2002	
ANNUAL TOTAL	2273580		2162490		8715	
ANNUAL MEAN	6229		5925		13730	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	52500	Apr 25	37100	Apr 16	186000	Apr 2 1987
LOWEST DAILY MEAN	1950	Nov 21	1510	Jan 10	1160	Jul 7 1988
ANNUAL SEVEN-DAY MINIMUM	2170	Nov 21	1640	Jan 5	1640	Jan 5 2002
MAXIMUM PEAK FLOW			41000	Apr 16	232000	Apr 2 1987
MAXIMUM PEAK STAGE			13.57	Apr 16	39.31	Apr 2 1987
10 PERCENT EXCEEDS	9400		12200		16800	
50 PERCENT EXCEEDS	4470		3400		5850	
90 PERCENT EXCEEDS	2500		2070		3510	



KENNEBEC RIVER BASIN

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 mi².

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 Seabasticook Lakes, combined capacity about 50.318 billion ft³. 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, 9.62 ft, Apr. 16; minimum gage height, -2.88 ft, Aug. 21.

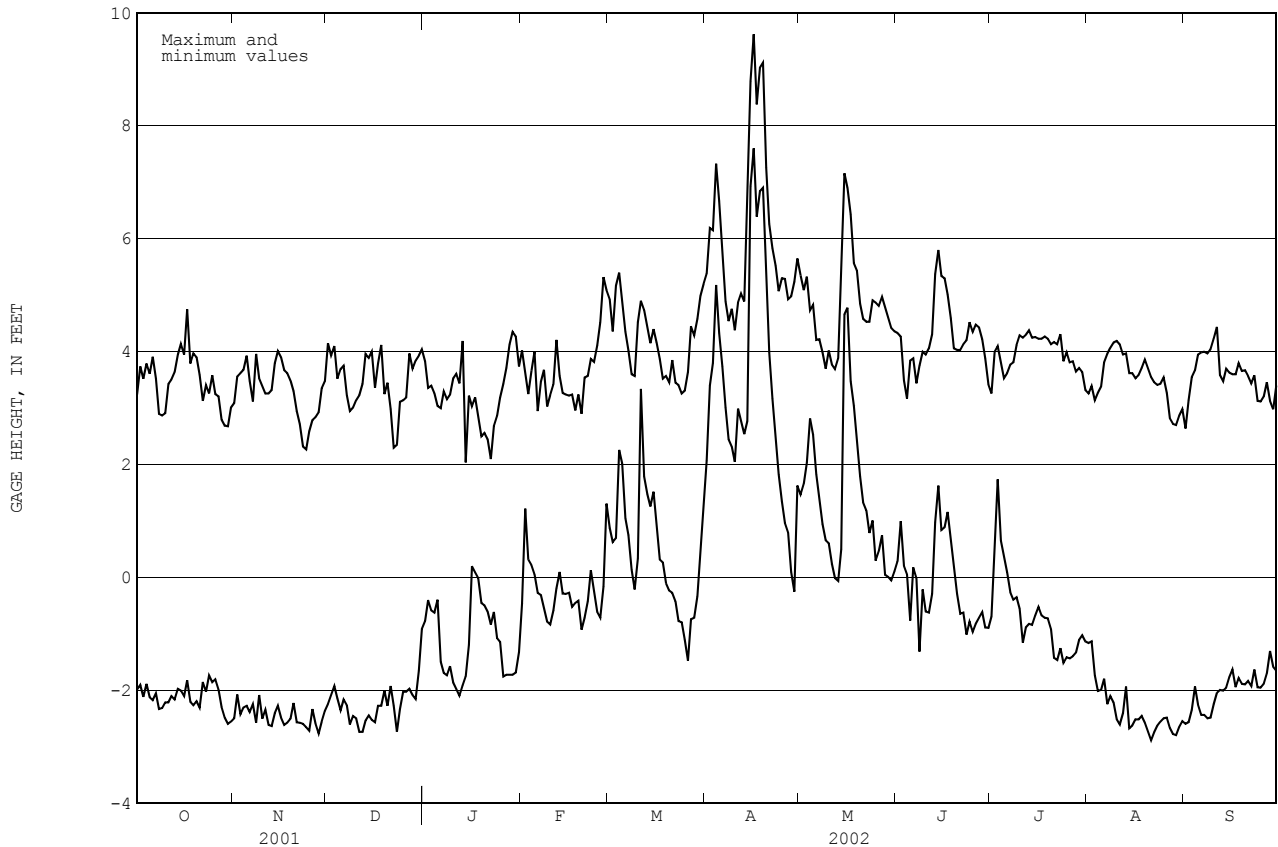
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH										
1	3.24	-1.98	3.09	-2.49	4.15	-2.24	3.83	-0.77	4.02	-0.46	4.93	0.88				
2	3.74	-1.90	3.56	-2.07	3.93	-2.08	3.36	-0.40	3.61	1.22	4.36	0.63				
3	3.52	-2.11	3.62	-2.42	4.10	-1.92	3.40	-0.58	3.25	0.32	5.17	0.70				
4	3.79	-1.88	3.68	-2.30	3.52	-2.14	3.27	-0.62	3.66	0.22	5.40	2.26				
5	3.61	-2.12	3.93	-2.27	3.69	-2.35	3.04	-0.39	4.00	0.06	4.91	2.02				
6	3.91	-2.17	3.48	-2.38	3.75	-2.16	3.00	-1.49	2.95	-0.27	4.35	1.05				
7	3.52	-2.05	3.12	-2.24	3.23	-2.26	3.30	-1.69	3.47	-0.31	4.02	0.75				
8	2.90	-2.33	3.96	-2.57	2.95	-2.60	3.16	-1.73	3.68	-0.54	3.60	0.14				
9	2.87	-2.31	3.53	-2.08	3.01	-2.45	3.24	-1.57	3.03	-0.78	3.57	-0.21				
10	2.91	-2.21	3.39	-2.50	3.14	-2.49	3.53	-1.86	3.23	-0.83	4.52	0.34				
11	3.43	-2.21	3.26	-2.34	3.23	-2.73	3.61	-1.97	3.42	-0.58	4.90	3.34				
12	3.51	-2.10	3.26	-2.61	3.43	-2.73	3.44	-2.09	4.21	-0.19	4.74	1.79				
13	3.64	-2.16	3.32	-2.63	3.96	-2.53	4.19	-1.91	3.57	0.10	4.43	1.48				
14	3.95	-1.97	3.80	-2.40	3.89	-2.44	2.04	-1.75	3.27	-0.28	4.15	1.26				
15	4.14	-2.00	4.01	-2.27	4.00	-2.52	3.22	-1.19	3.24	-0.29	4.40	1.52				
16	3.95	-2.10	3.90	-2.48	3.36	-2.56	3.03	0.20	3.22	-0.27	4.16	0.92				
17	4.75	-1.82	3.67	-2.61	3.79	-2.27	3.19	0.09	3.24	-0.52	3.87	0.32				
18	3.79	-2.20	3.62	-2.57	4.12	-2.27	2.86	-0.01	2.96	-0.45	3.52	0.27				
19	3.97	-2.26	3.49	-2.50	3.25	-2.00	2.50	-0.45	3.24	-0.41	3.57	-0.10				
20	3.90	-2.19	3.30	-2.22	3.45	-2.27	2.56	-0.49	2.90	-0.92	3.46	-0.23				
21	3.59	-2.30	2.95	-2.56	2.98	-1.92	2.45	-0.60	3.54	-0.71	3.85	-0.27				
22	3.13	-1.85	2.72	-2.57	2.30	-2.27	2.10	-0.83	3.57	-0.42	3.45	-0.42				
23	3.41	-2.02	2.32	-2.59	2.35	-2.73	2.68	-0.61	3.87	0.13	3.41	-0.77				
24	3.26	-1.73	2.27	-2.65	3.11	-2.33	2.86	-1.07	3.82	-0.22	3.26	-0.79				
25	3.58	-1.85	2.59	-2.71	3.14	-2.02	3.19	-1.14	4.11	-0.61	3.31	-1.10				
26	3.25	-1.80	2.79	-2.33	3.19	-2.02	3.43	-1.75	4.52	-0.71	3.64	-1.47				
27	3.21	-1.98	2.84	-2.58	3.97	-1.97	3.71	-1.72	5.32	-0.16	4.45	-0.74				
28	2.80	-2.29	2.93	-2.76	3.70	-2.08	4.13	-1.72	5.09	1.31	4.29	-0.71				
29	2.69	-2.48	3.35	-2.55	3.84	-2.15	4.35	-1.72	---	---	4.58	-0.33				
30	2.68	-2.59	3.48	-2.36	3.93	-1.65	4.27	-1.68	---	---	4.99	0.38				
31	3.01	-2.55	---	---	4.04	-0.91	3.74	-1.32	---	---	5.20	1.24				
MONTH	4.75	-2.59	4.01	-2.76	4.15	-2.73	4.35	-2.09	5.32	-0.92	5.40	-1.47				

01049320 KENNEBEC RIVER AT FATHER CURRAN BRIDGE AT AUGUSTA, ME--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.38	2.07	5.35	1.47	4.33	0.29	3.26	-0.69	3.26	-1.16	2.64	-2.59
2	6.19	3.40	5.09	1.66	4.27	1.00	4.00	0.35	3.39	-1.13	3.14	-2.56
3	6.15	3.80	5.33	2.03	3.49	0.21	4.10	1.74	3.14	-1.73	3.55	-2.34
4	7.33	5.18	4.73	2.82	3.17	0.06	3.81	0.65	3.27	-2.01	3.67	-1.93
5	6.67	4.33	4.83	2.53	3.84	-0.76	3.53	0.37	3.38	-1.99	3.95	-2.25
6	5.68	3.74	4.21	1.83	3.88	0.18	3.62	0.09	3.81	-1.79	3.99	-2.43
7	4.89	3.01	4.22	1.39	3.44	-0.01	3.77	-0.26	3.96	-2.24	4.00	-2.43
8	4.54	2.45	3.99	0.95	3.75	-1.31	3.81	-0.39	4.07	-2.10	3.97	-2.49
9	4.76	2.32	3.70	0.66	4.00	-0.21	4.12	-0.35	4.16	-2.21	4.04	-2.48
10	4.38	2.05	4.02	0.61	3.95	-0.60	4.29	-0.55	4.19	-2.51	4.23	-2.24
11	4.87	2.99	3.77	0.24	4.06	-0.62	4.25	-1.15	4.13	-2.60	4.44	-2.04
12	5.03	2.77	3.69	-0.01	4.31	-0.29	4.30	-0.88	3.95	-2.40	3.59	-1.99
13	4.89	2.54	3.88	-0.06	5.37	0.98	4.38	-0.82	3.97	-1.93	3.48	-2.00
14	6.93	2.77	5.74	0.50	5.80	1.63	4.25	-0.84	3.62	-2.67	3.70	-1.95
15	8.79	6.93	7.16	4.66	5.34	0.84	4.26	-0.67	3.62	-2.62	3.63	-1.76
16	9.62	7.60	6.90	4.78	5.30	0.89	4.23	-0.52	3.53	-2.51	3.60	-1.63
17	8.38	6.39	6.43	3.48	5.01	1.16	4.23	-0.67	3.59	-2.51	3.60	-1.94
18	9.03	6.84	5.57	3.04	4.59	0.68	4.27	-0.71	3.71	-2.45	3.80	-1.78
19	9.12	6.90	5.44	2.48	4.06	0.21	4.23	-0.72	3.86	-2.57	3.66	-1.88
20	7.26	5.50	4.85	1.79	4.03	-0.29	4.13	-0.91	3.71	-2.72	3.67	-1.89
21	6.26	3.99	4.58	1.33	4.03	-0.64	4.17	-1.42	3.55	-2.88	3.57	-1.83
22	5.83	3.17	4.53	1.19	4.13	-0.62	4.13	-1.46	3.46	-2.74	3.44	-1.92
23	5.52	2.52	4.53	0.79	4.20	-1.01	4.31	-1.25	3.41	-2.62	3.58	-1.63
24	5.07	1.83	4.91	1.01	4.52	-0.78	3.83	-1.51	3.43	-2.55	3.13	-1.94
25	5.30	1.35	4.87	0.30	4.35	-0.96	3.99	-1.41	3.54	-2.49	3.12	-1.95
26	5.29	0.97	4.81	0.47	4.48	-0.82	3.81	-1.43	3.27	-2.48	3.21	-1.88
27	4.93	0.80	4.97	0.75	4.43	-0.71	3.83	-1.39	2.82	-2.66	3.46	-1.70
28	4.98	0.10	4.78	0.05	4.22	-0.61	3.65	-1.33	2.72	-2.77	3.13	-1.30
29	5.24	-0.25	4.59	0.01	3.88	-0.88	3.71	-1.10	2.70	-2.79	2.98	-1.58
30	5.65	1.63	4.42	-0.05	3.42	-0.89	3.64	-1.02	2.87	-2.64	3.40	-1.65
31	---	---	4.36	0.11	---	---	3.32	-1.13	2.98	-2.54	---	---
MONTH	9.62	-0.25	7.16	-0.06	5.80	-1.31	4.38	-1.51	4.19	-2.88	4.44	-2.59
YEAR	9.62	-2.88										



KENNEBEC RIVER BASIN

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

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

DRAINAGE AREA.--217 mi².

PERIOD OF RECORD.--Discharge: June 1890 to September 1964, October 1976 to current year. 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 ft³/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, 1,310 ft³/s, Mar. 31, gage height, 6.35 ft; minimum daily discharge, 14 ft³/s, Jan. 7.

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

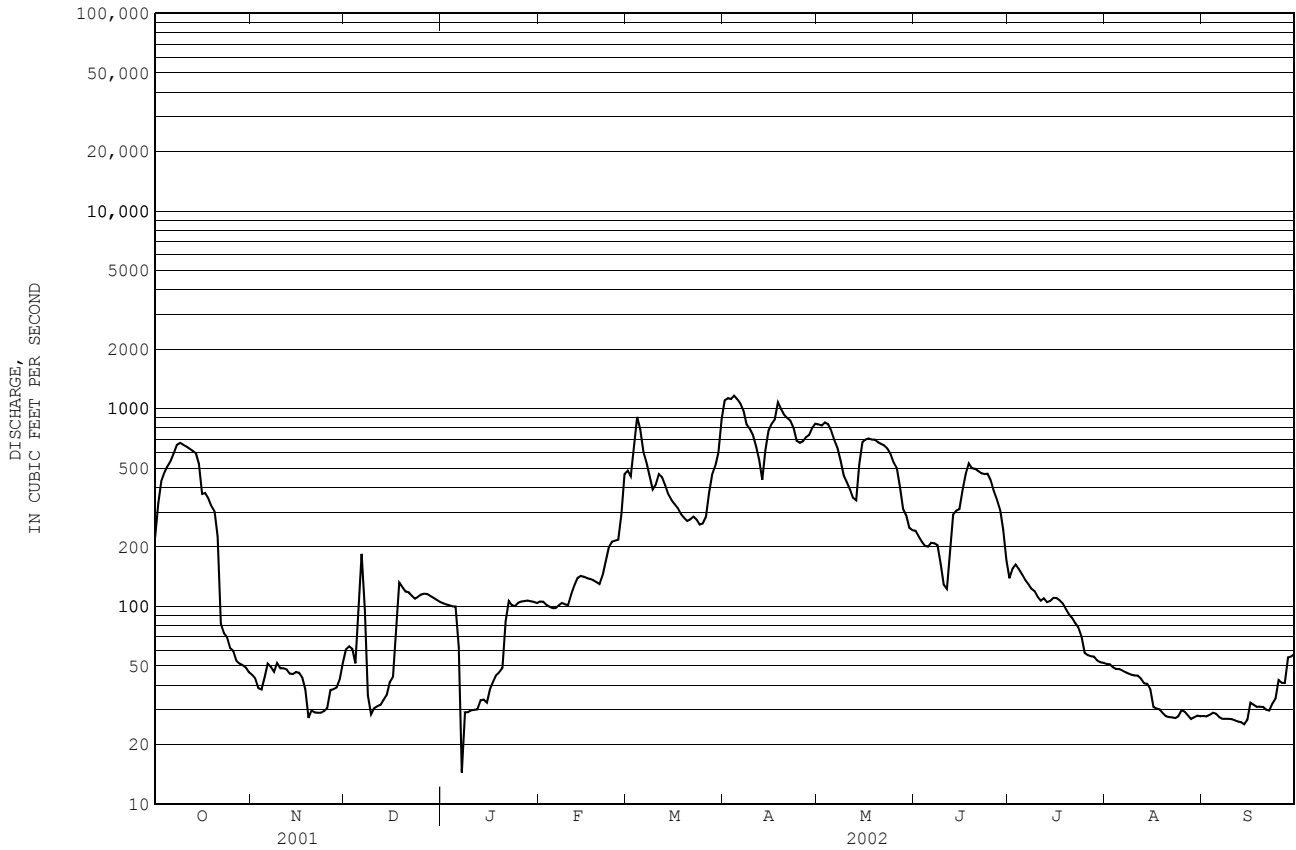
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	45	61	104	106	486	1100	834	241	139	51	28
2	332	43	63	102	106	455	1130	823	226	155	51	28
3	430	39	61	101	102	656	1120	853	212	163	49	28
4	477	38	52	100	100	911	1170	838	203	154	48	29
5	515	44	96	100	98	790	1120	779	201	146	48	29
6	546	51	184	62	98	607	1070	697	210	136	48	28
7	599	49	97	14	101	537	976	639	209	130	47	27
8	658	47	35	29	104	459	833	549	204	123	46	27
9	673	52	28	29	102	391	792	461	164	120	45	27
10	658	49	31	30	102	414	740	427	129	112	45	27
11	645	49	31	30	116	467	647	392	123	107	45	27
12	629	48	32	30	128	450	555	355	184	110	43	26
13	613	46	34	34	140	410	438	344	291	105	41	26
14	596	46	36	34	143	369	614	523	305	107	41	25
15	526	47	41	33	141	345	776	678	311	110	38	27
16	370	46	44	38	139	330	840	699	388	110	31	33
17	375	44	72	42	138	315	884	708	465	108	30	32
18	352	38	132	45	136	294	1080	698	529	104	30	31
19	322	27	125	47	133	281	1000	699	501	97	29	31
20	302	30	119	49	130	270	933	677	497	91	28	31
21	226	29	118	84	143	276	898	664	484	88	28	30
22	82	29	113	106	170	284	871	652	472	82	27	30
23	73	29	110	101	199	275	799	630	468	78	27	32
24	70	30	112	101	213	260	690	591	470	71	28	34
25	62	31	115	104	215	263	673	535	435	58	30	42
26	60	38	116	106	217	284	684	500	385	57	29	41
27	53	38	116	107	295	373	719	400	347	56	28	41
28	51	39	113	107	468	465	738	312	308	56	27	55
29	50	43	111	106	---	516	802	289	244	53	27	56
30	49	52	108	106	---	603	841	250	171	52	28	57
31	46	---	106	104	---	885	---	243	---	52	28	---
TOTAL	10663	1236	2612	2185	4283	13721	25533	17739	9377	3130	1141	985
MEAN	344	41.2	84.3	70.5	153	443	851	572	313	101	36.8	32.8
MAX	673	52	184	107	468	911	1170	853	529	163	51	57
MIN	46	27	28	14	98	260	438	243	123	52	27	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2002, BY WATER YEAR (WY)

	253	265	329	285	302	540	944	458	307	188	167	193
MEAN	253	265	329	285	302	540	944	458	307	188	167	193
MAX	1039	879	1517	750	975	2086	2386	1331	1720	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 COBOSSECONTEE STREAM AT GARDINER, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1906 - 2002	
ANNUAL TOTAL	91170		92605		352	
ANNUAL MEAN	250		254		723	
HIGHEST ANNUAL MEAN					172	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1980	Apr 15	1170	Apr 4	4320	Mar 20 1936
LOWEST DAILY MEAN	11	Sep 14	14	Jan 7	0.00	Aug 25 1907
ANNUAL SEVEN-DAY MINIMUM	13	Sep 13	26	Sep 8	7.9	Aug 26 1983
MAXIMUM PEAK FLOW			1310		5020	
MAXIMUM PEAK STAGE			6.35		Mar 31	
10 PERCENT EXCEEDS	616		693		775	
50 PERCENT EXCEEDS	129		111		260	
90 PERCENT EXCEEDS	30		30		51	



KENNEBEC RIVER BASIN

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 mi².

PERIOD OF RECORD.--Gage height: February 2000 to current year.

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

REMARKS.--No minimum gage-height record, July 15. 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 ft³. 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.

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 peak of 24.7 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.19 ft, Apr. 16; minimum gage height, -2.45 ft, Nov. 13.

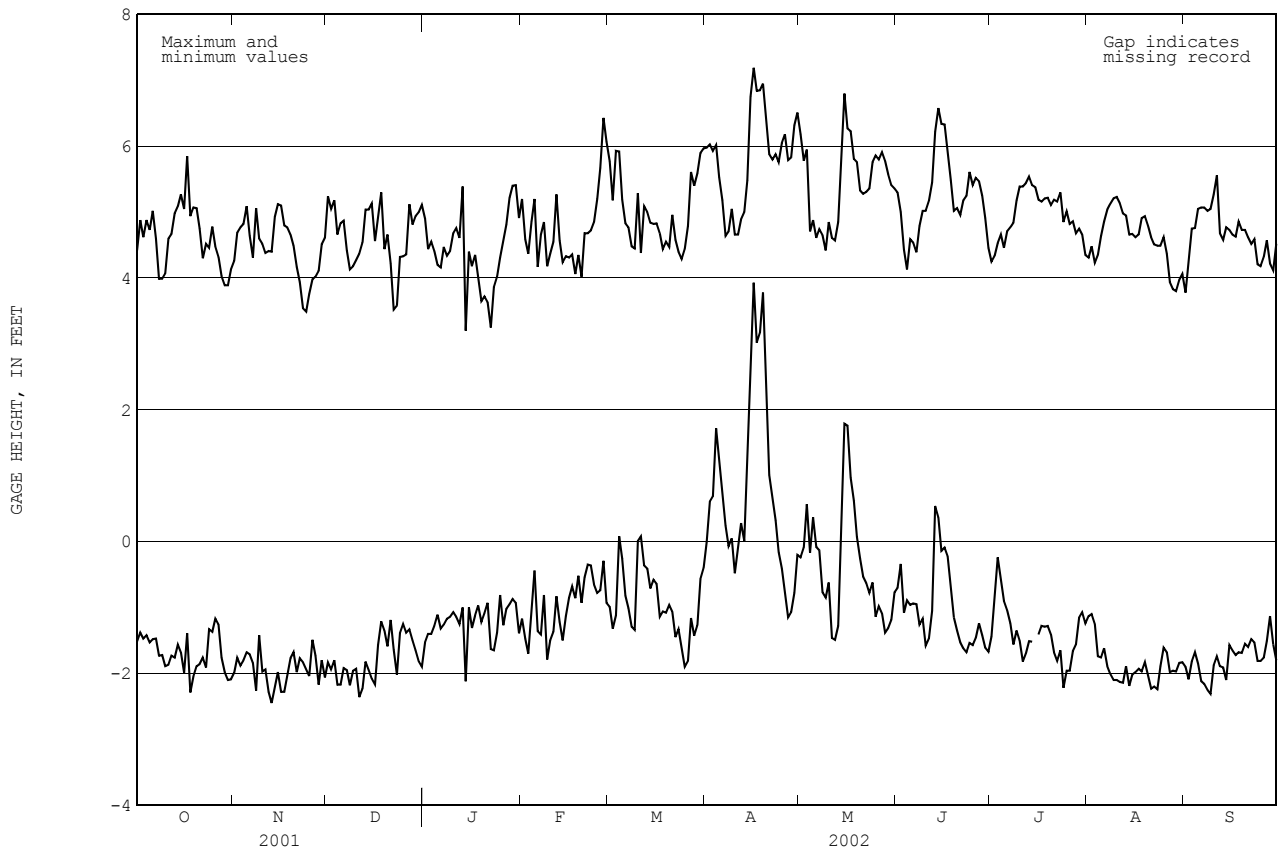
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.42	-1.52	4.26	-1.99	5.24	-1.83	4.90	-1.53	5.20	-1.17	5.77	-0.99
2	4.88	-1.38	4.69	-1.76	5.05	-1.94	4.44	-1.40	4.59	-1.47	5.18	-1.32
3	4.62	-1.47	4.77	-1.88	5.18	-1.80	4.55	-1.40	4.37	-1.70	5.93	-1.12
4	4.88	-1.42	4.82	-1.80	4.66	-2.17	4.41	-1.28	4.85	-1.03	5.92	0.08
5	4.73	-1.53	5.09	-1.68	4.83	-2.17	4.20	-1.11	5.20	-0.44	5.19	-0.26
6	5.02	-1.48	4.64	-1.71	4.87	-1.92	4.16	-1.32	4.17	-1.36	4.83	-0.82
7	4.60	-1.47	4.31	-1.84	4.42	-1.95	4.47	-1.26	4.66	-1.41	4.77	-1.01
8	3.99	-1.73	5.06	-2.26	4.13	-2.18	4.34	-1.17	4.85	-0.81	4.48	-1.29
9	3.99	-1.72	4.60	-1.42	4.18	-1.96	4.41	-1.14	4.18	-1.79	4.45	-1.34
10	4.07	-1.89	4.52	-1.97	4.27	-1.93	4.68	-1.07	4.37	-1.50	5.29	0.01
11	4.60	-1.87	4.38	-1.94	4.37	-2.36	4.76	-1.14	4.55	-1.37	4.38	0.08
12	4.67	-1.73	4.41	-2.28	4.54	-2.23	4.61	-1.25	5.27	-0.83	5.09	-0.36
13	4.98	-1.76	4.40	-2.45	5.04	-1.82	5.39	-1.00	4.57	-1.22	5.00	-0.41
14	5.09	-1.56	4.93	-2.20	5.04	-1.95	3.20	-2.12	4.24	-1.50	4.84	-0.71
15	5.27	-1.68	5.12	-1.98	5.13	-2.08	4.40	-1.00	4.33	-1.13	4.82	-0.58
16	5.05	-1.99	5.10	-2.28	4.56	-2.17	4.18	-1.31	4.31	-0.85	4.83	-0.64
17	5.85	-1.39	4.80	-2.28	4.94	-1.57	4.35	-1.12	4.36	-0.68	4.68	-1.14
18	4.94	-2.29	4.77	-2.04	5.30	-1.21	4.02	-0.97	4.06	-0.86	4.44	-1.06
19	5.07	-2.05	4.66	-1.77	4.44	-1.35	3.65	-1.22	4.35	-0.52	4.55	-1.08
20	5.06	-1.89	4.49	-1.68	4.66	-1.59	3.72	-1.09	4.02	-0.93	4.47	-0.96
21	4.75	-1.86	4.17	-1.98	4.22	-1.19	3.63	-0.93	4.68	-0.54	4.96	-1.06
22	4.30	-1.76	3.94	-1.77	3.52	-1.64	3.25	-1.63	4.68	-0.35	4.58	-1.45
23	4.52	-1.91	3.54	-1.83	3.58	-2.02	3.86	-1.65	4.72	-0.36	4.40	-1.33
24	4.46	-1.33	3.49	-1.94	4.32	-1.39	4.02	-1.38	4.85	-0.65	4.29	-1.63
25	4.78	-1.37	3.76	-2.04	4.33	-1.25	4.31	-0.81	5.20	-0.78	4.44	-1.90
26	4.48	-1.17	3.98	-1.49	4.36	-1.38	4.56	-1.27	5.67	-0.74	4.79	-1.81
27	4.32	-1.26	4.02	-1.73	5.12	-1.33	4.81	-1.02	6.43	-0.29	5.61	-1.16
28	4.03	-1.76	4.11	-2.17	4.81	-1.50	5.22	-0.95	6.07	-0.93	5.40	-1.43
29	3.89	-1.98	4.51	-1.80	4.94	-1.65	5.40	-0.87	---	---	5.59	-1.27
30	3.89	-2.10	4.61	-2.06	5.00	-1.82	5.41	-0.93	---	---	5.90	-0.57
31	4.13	-2.09	---	---	5.11	-1.90	4.91	-1.39	---	---	5.97	-0.40
MONTH	5.85	-2.29	5.12	-2.45	5.30	-2.36	5.41	-2.12	6.43	-1.79	5.97	-1.90

01049505 KENNEBEC RIVER AT GARDINER, ME--Continued

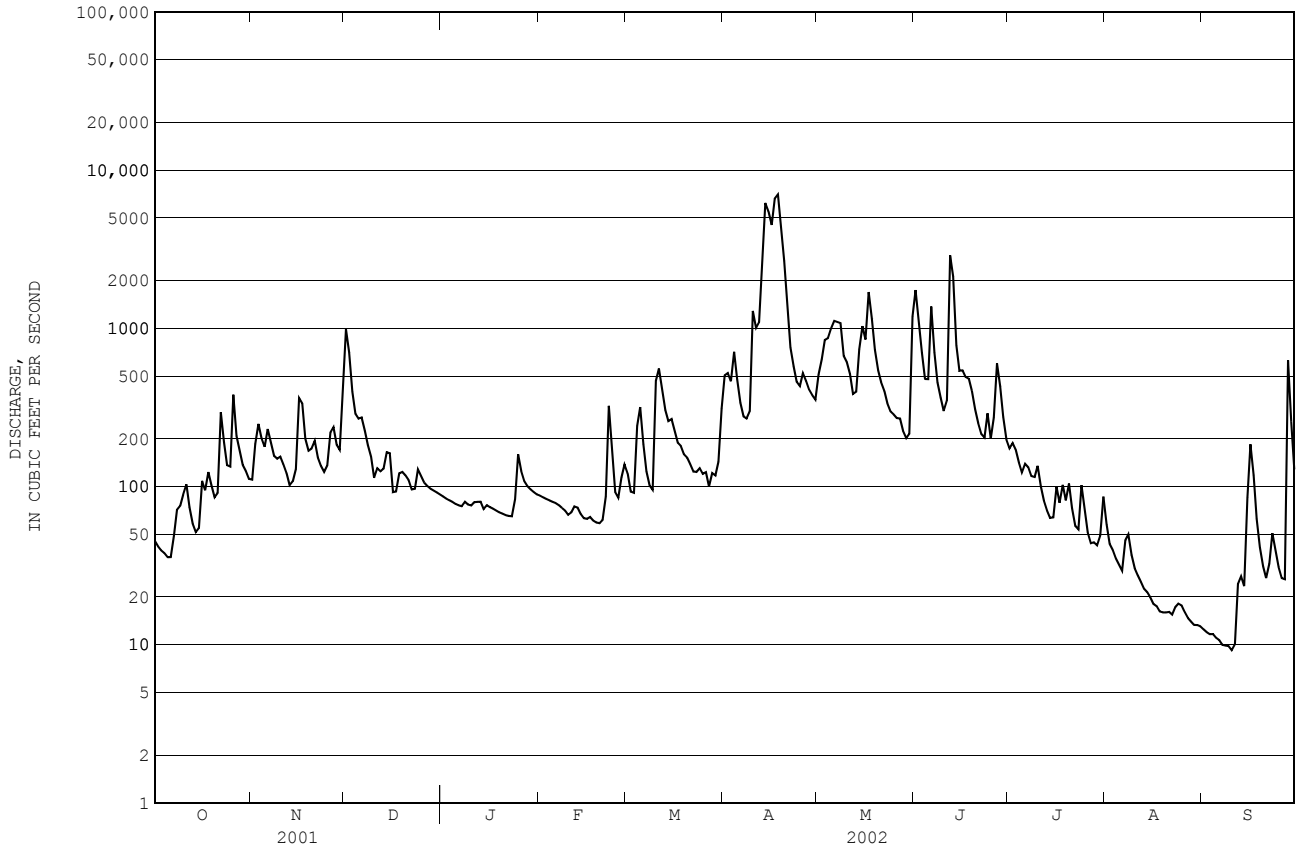
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.98	-0.01	6.18	-0.24	5.30	-0.70	4.25	-1.44	4.31	-1.13	3.78	-1.90
2	6.03	0.61	5.78	-0.09	5.00	-0.34	4.34	-0.81	4.48	-1.10	4.28	-2.09
3	5.93	0.69	5.95	0.57	4.43	-1.08	4.53	-0.24	4.23	-1.25	4.75	-1.82
4	6.02	1.72	4.71	-0.17	4.13	-0.89	4.66	-0.56	4.35	-1.74	4.76	-1.68
5	5.53	1.21	4.88	0.37	4.59	-0.96	4.46	-0.90	4.64	-1.76	5.05	-1.85
6	5.18	0.73	4.61	-0.08	4.54	-0.94	4.71	-1.04	4.86	-1.62	5.07	-2.12
7	4.64	0.24	4.74	-0.13	4.39	-0.95	4.77	-1.24	5.04	-1.89	5.07	-2.16
8	4.71	-0.07	4.65	-0.77	4.79	-1.26	4.84	-1.56	5.13	-2.01	5.02	-2.25
9	5.05	0.05	4.42	-0.85	5.02	-1.17	5.18	-1.35	5.21	-2.10	5.05	-2.31
10	4.66	-0.48	4.85	-0.62	5.02	-1.58	5.39	-1.50	5.23	-2.10	5.27	-1.88
11	4.66	-0.10	4.61	-1.46	5.17	-1.47	5.39	-1.82	5.14	-2.13	5.56	-1.74
12	4.89	0.28	4.57	-1.49	5.45	-1.05	5.44	-1.70	4.98	-2.14	4.68	-1.89
13	5.00	0.01	4.85	-1.28	6.22	0.54	5.54	-1.51	4.95	-1.89	4.58	-1.91
14	5.48	1.09	5.96	0.35	6.58	0.37	5.41	-1.52	4.66	-2.19	4.77	-2.10
15	6.75	2.75	6.80	1.79	6.34	-0.14	5.38	---	4.67	-2.02	4.73	-1.57
16	7.19	3.93	6.27	1.76	6.33	-0.09	5.19	-1.41	4.62	-1.98	4.66	-1.65
17	6.84	3.02	6.23	0.97	5.89	-0.22	5.16	-1.28	4.66	-1.93	4.63	-1.72
18	6.85	3.17	5.81	0.62	5.48	-0.66	5.21	-1.29	4.91	-1.97	4.86	-1.68
19	6.95	3.78	5.76	0.07	5.02	-1.15	5.22	-1.28	4.94	-1.83	4.73	-1.69
20	6.35	2.12	5.33	-0.26	5.06	-1.35	5.11	-1.41	4.80	-2.03	4.73	-1.55
21	5.88	1.01	5.28	-0.53	4.96	-1.53	5.19	-1.68	4.62	-2.23	4.62	-1.60
22	5.80	0.68	5.31	-0.63	5.18	-1.62	5.16	-1.81	4.51	-2.20	4.52	-1.48
23	5.88	0.32	5.36	-0.78	5.25	-1.68	5.30	-1.65	4.49	-2.24	4.59	-1.53
24	5.76	-0.16	5.76	-0.62	5.61	-1.54	4.85	-2.22	4.49	-1.89	4.21	-1.81
25	6.05	-0.41	5.86	-1.14	5.41	-1.57	5.01	-1.96	4.62	-1.61	4.18	-1.81
26	6.18	-0.77	5.80	-0.98	5.52	-1.46	4.82	-1.96	4.37	-1.68	4.32	-1.76
27	5.79	-1.15	5.91	-1.09	5.47	-1.24	4.86	-1.66	3.94	-1.98	4.57	-1.51
28	5.83	-1.07	5.78	-1.38	5.25	-1.42	4.68	-1.56	3.83	-1.96	4.22	-1.13
29	6.32	-0.78	5.57	-1.31	4.91	-1.61	4.75	-1.15	3.80	-1.97	4.12	-1.56
30	6.51	-0.20	5.41	-1.19	4.46	-1.67	4.66	-1.07	3.97	-1.84	4.52	-1.80
31	---	---	5.36	-0.77	---	---	4.35	-1.24	4.06	-1.83	---	---
MONTH	7.19	-1.15	6.80	-1.49	6.58	-1.68	5.54	---	5.23	-2.24	5.56	-2.31



01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1941 - 2002	
ANNUAL TOTAL	99724		124770.9			
ANNUAL MEAN	273		342		351	
HIGHEST ANNUAL MEAN					524 1996	
LOWEST ANNUAL MEAN					225 1965	
HIGHEST DAILY MEAN	5330	Apr 24	7040	Apr 18	9900	Mar 31 1998
LOWEST DAILY MEAN	26	Sep 19	9.2	Sep 10	6.8	Aug 28 1949
ANNUAL SEVEN-DAY MINIMUM	28	Sep 14	10	Sep 5	9.0	Sep 11 1952
MAXIMUM PEAK FLOW			8070	Apr 17	12800	Mar 31 1998
MAXIMUM PEAK STAGE			10.13	Apr 17	12.23	Feb 21 1981
INSTANTANEOUS LOW FLOW			9.1	Sep 10	6.8	Aug 27 1949
ANNUAL RUNOFF (CFSM)	1.80		2.25		2.31	
ANNUAL RUNOFF (INCHES)	24.41		30.54		31.40	
10 PERCENT EXCEEDS	522		701		846	
50 PERCENT EXCEEDS	107		122		158	
90 PERCENT EXCEEDS	42		27		52	



ANDROSCOGGIN RIVER BASIN

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

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

DRAINAGE AREA.--1,046 mi².

PERIOD OF RECORD.--Discharge: January 1905 to current year. November and December 1912, monthly discharges only, published in WSP 1301. Prior to 1922, published as "at Errol Dam." 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 ft³, with final regulation at Errol Dam, 0.4 mi upstream. Satellite and telephone gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/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, 10,800 ft³/s, Apr. 18, gage height, 7.56 ft; minimum daily discharge, 797 ft³/s, May 2.

**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	1310	1220	890	1140	1130	1130	1120	873	4070	1580	1510	1300
2	1310	1220	838	1140	1140	1130	1120	797	4780	2110	1510	1290
3	1300	1220	841	1130	1140	1130	1120	1370	4790	2490	1510	1290
4	1310	1220	911	1130	1130	1130	1120	1680	4640	2510	1510	1290
5	1300	1220	951	1130	1130	1130	1130	2090	3910	2500	1510	1290
6	1310	1130	952	1130	1130	1130	1130	2350	4850	2500	1510	1290
7	1310	1070	963	1130	1140	1130	1130	2490	5540	2080	1500	1290
8	1310	1080	964	1130	1130	1130	1130	2570	4830	1850	1510	1290
9	1310	1120	964	1130	1130	1130	1130	2560	2930	1850	1500	1290
10	1310	1130	1000	1130	1130	1130	1130	2140	2370	1590	1510	1320
11	1310	1130	1020	1130	1130	1130	1130	1900	2500	1450	1510	1340
12	1240	1130	1030	1130	1130	1130	1130	1890	4270	1450	1510	1340
13	1210	1130	1030	1130	1140	1130	1950	2300	5980	1450	1510	1340
14	1210	1130	1070	1140	1130	1130	4420	3440	6520	1450	1510	1340
15	1210	1130	1090	1140	1130	1130	6530	5200	6480	1450	1510	1340
16	1210	1130	1090	1140	1130	1130	8080	4700	5500	1450	1510	1340
17	1210	1130	1090	1140	1140	1130	8770	4730	4910	1490	1510	1340
18	1220	1130	1090	1140	1130	1130	10600	5310	4310	1510	1510	1340
19	1320	1130	1090	1140	1130	1130	10300	5300	2940	1510	1510	1340
20	1220	1130	1090	1130	1130	1130	7320	3730	1970	1510	1510	1340
21	1220	1130	1090	1130	1130	1130	3820	2540	1800	1510	1550	1340
22	1220	1130	1120	1130	1130	1130	1880	2130	1730	1510	1570	1340
23	1220	1130	1140	1140	1130	1130	1200	1890	1650	1510	1550	1340
24	1230	1130	1140	1140	1130	1130	1050	1890	1650	1510	1500	1340
25	1230	1130	1140	1140	1130	1120	1640	1890	1650	1510	1510	1340
26	1230	1130	1140	1140	1130	1130	2120	1880	1790	1510	1510	1340
27	1230	1130	1140	1140	1130	1150	1700	1880	1990	1510	1380	1340
28	1230	1130	1140	1140	1130	1120	1460	1870	1860	1510	1300	1340
29	1220	1130	1140	1140	---	1120	1480	1530	1730	1510	1300	1340
30	1220	1040	1140	1140	---	1120	1210	1550	1650	1510	1300	1330
31	1220	---	1140	1130	---	1120	---	2340	---	1510	1300	---
TOTAL	38910	34140	32434	35190	31690	35000	89050	78810	105590	52390	45950	39730
MEAN	1255	1138	1046	1135	1132	1129	2968	2542	3520	1690	1482	1324
MAX	1320	1220	1140	1140	1140	1150	10600	5310	6520	2510	1570	1340
MIN	1210	1040	838	1130	1130	1120	1050	797	1650	1450	1300	1290

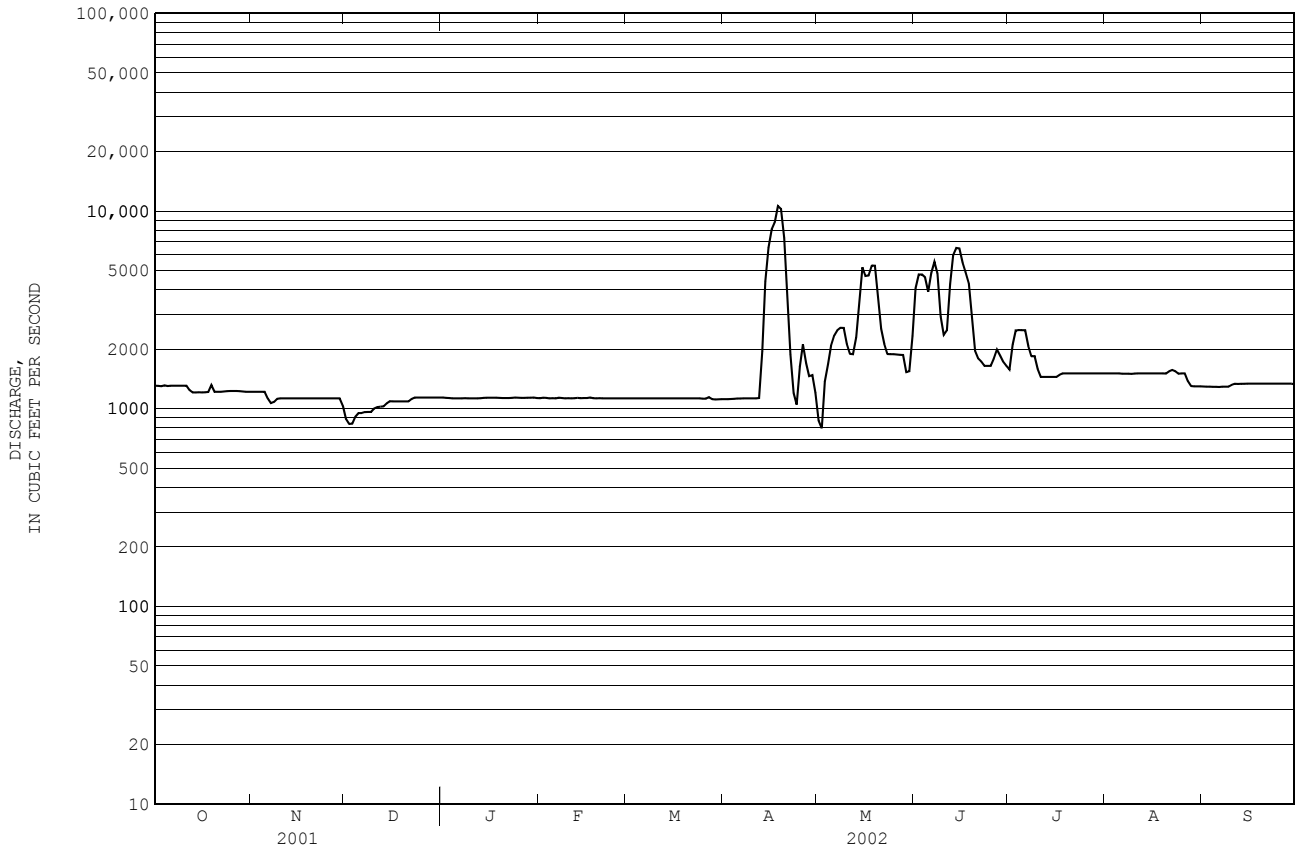
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2002, BY WATER YEAR (WY)

MEAN	1584	1544	1694	1785	1850	1854	2169	3092	2269	1778	1680	1682
MAX	3949	3745	4722	3589	3644	5454	4736	8192	7129	4621	2265	4738
(WY)	1955	1908	1974	1970	1996	1936	1913	1974	1917	1996	1990	1954
MIN	921	759	844	760	718	592	770	1027	763	808	840	902
(WY)	1922	1922	1909	1909	1911	1948	1940	1941	1911	1915	1915	1911

ANDROSCOGGIN RIVER BASIN

01053500 ANDROSCOGGIN RIVER AT ERROL, NH--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1905 - 2002	
ANNUAL TOTAL	561194		618884		1914	
ANNUAL MEAN	1538		1696		3117	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					1046	
HIGHEST DAILY MEAN	8540	Apr 26	10600	Apr 18	16100	May 22 1969
LOWEST DAILY MEAN	815	Apr 15	797	May 2	0.00	Oct 31 1917
ANNUAL SEVEN-DAY MINIMUM	876	Apr 14	907	Dec 1	152	Mar 21 1948
MAXIMUM PEAK FLOW			10800	Apr 18	16500	May 22 1969
MAXIMUM PEAK STAGE			7.56	Apr 18	9.40	May 22 1969
10 PERCENT EXCEEDS	1920		2500		2620	
50 PERCENT EXCEEDS	1310		1230		1690	
90 PERCENT EXCEEDS	1120		1120		1130	



ANDROSCOGGIN RIVER BASIN

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

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

DRAINAGE AREA.--1,361 mi².

PERIOD OF RECORD.--Discharge: October 1913 to current year. October 1922 to September 1928, monthly discharge only, published in WSP 1301. Discharges for Dec. 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. 4, 19, Feb. 3, 6, 9-14, and 19, which are fair. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity about 28.1 billion ft³, 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 ft³/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, 16,000 ft³/s, Apr. 18, gage height, 9.14 ft; minimum daily discharge, 1,160 ft³/s, Dec. 10.

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	1430	1380	1640	1250	1320	1440	2340	2140	4160	1880	1630	1290
2	1390	1380	1600	1290	1340	1400	2550	2120	5400	1900	1600	1300
3	1390	1410	1280	1280	e1350	1440	2770	2460	5240	2560	1570	1290
4	1390	1370	1230	e1280	1360	1630	3120	2950	4950	2480	1540	1280
5	1390	1470	1240	1250	1310	1600	2510	2750	4300	2500	1540	1270
6	1390	1460	1240	1260	e1300	1510	2140	3130	5180	2590	1540	1270
7	1400	1420	1220	1280	1280	1440	1940	3150	6250	2380	1540	1290
8	1410	1340	1170	1270	1280	1370	1850	3250	5760	1940	1530	1280
9	1410	1370	1180	1260	e1290	1370	1980	3100	3870	1940	1530	1280
10	1390	1390	1160	1270	e1290	2080	3480	2860	2640	1860	1520	1290
11	1420	1390	1200	1270	e1380	2470	3540	2430	2860	1560	1540	1360
12	1400	1300	1180	1270	e1400	2070	3280	2290	10600	1520	1520	1360
13	1310	1300	1210	1270	e1410	1810	4750	2550	11900	1500	1490	1340
14	1280	1290	1210	1270	e1390	1770	12900	4310	8790	1510	1540	1360
15	1340	1280	1320	1270	1350	1840	12900	6180	7720	1520	1510	1430
16	1330	1380	1260	1270	1320	1740	12900	6850	7140	1510	1530	1640
17	1350	1480	1250	1280	1310	1600	12700	5680	5660	1510	1510	1520
18	1350	1390	1280	1270	1300	1540	15100	6570	5290	1680	1520	1410
19	1340	1350	1270	e1280	e1300	1540	14600	6180	3850	1720	1530	1390
20	1420	1340	1260	1260	1270	1490	11900	5490	2930	1630	1560	1380
21	1360	1350	1260	1260	1310	1490	6510	3360	2140	1630	1510	1380
22	1490	1310	1250	1260	1400	1450	4140	2980	2100	1640	1570	1390
23	1470	1300	1400	1260	1420	1410	2360	2460	1990	1620	1580	1400
24	1420	1290	1350	1310	1430	1440	1640	2390	2270	1700	1510	1370
25	1400	1280	1320	1340	1370	1370	1580	2280	2080	1610	1520	1360
26	1420	1330	1290	1340	1360	1370	2890	2270	2100	1590	1530	1360
27	1410	1400	1290	1330	1460	1450	2680	2300	2420	1540	1440	1420
28	1390	1360	1280	1320	1500	1430	2160	2240	2800	1540	1300	1840
29	1370	1360	1270	1310	---	1400	2210	2030	2440	1580	1300	1700
30	1360	1480	1260	1330	---	1520	2220	1720	2000	1660	1310	1510
31	1330	---	1260	1310	---	1880	---	2300	---	1700	1280	---
TOTAL	42950	40950	39630	39770	37800	49360	157640	102770	136830	55500	46640	41760
MEAN	1385	1365	1278	1283	1350	1592	5255	3315	4561	1790	1505	1392
MAX	1490	1480	1640	1340	1500	2470	15100	6850	11900	2590	1630	1840
MIN	1280	1280	1160	1250	1270	1370	1580	1720	1990	1500	1280	1270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

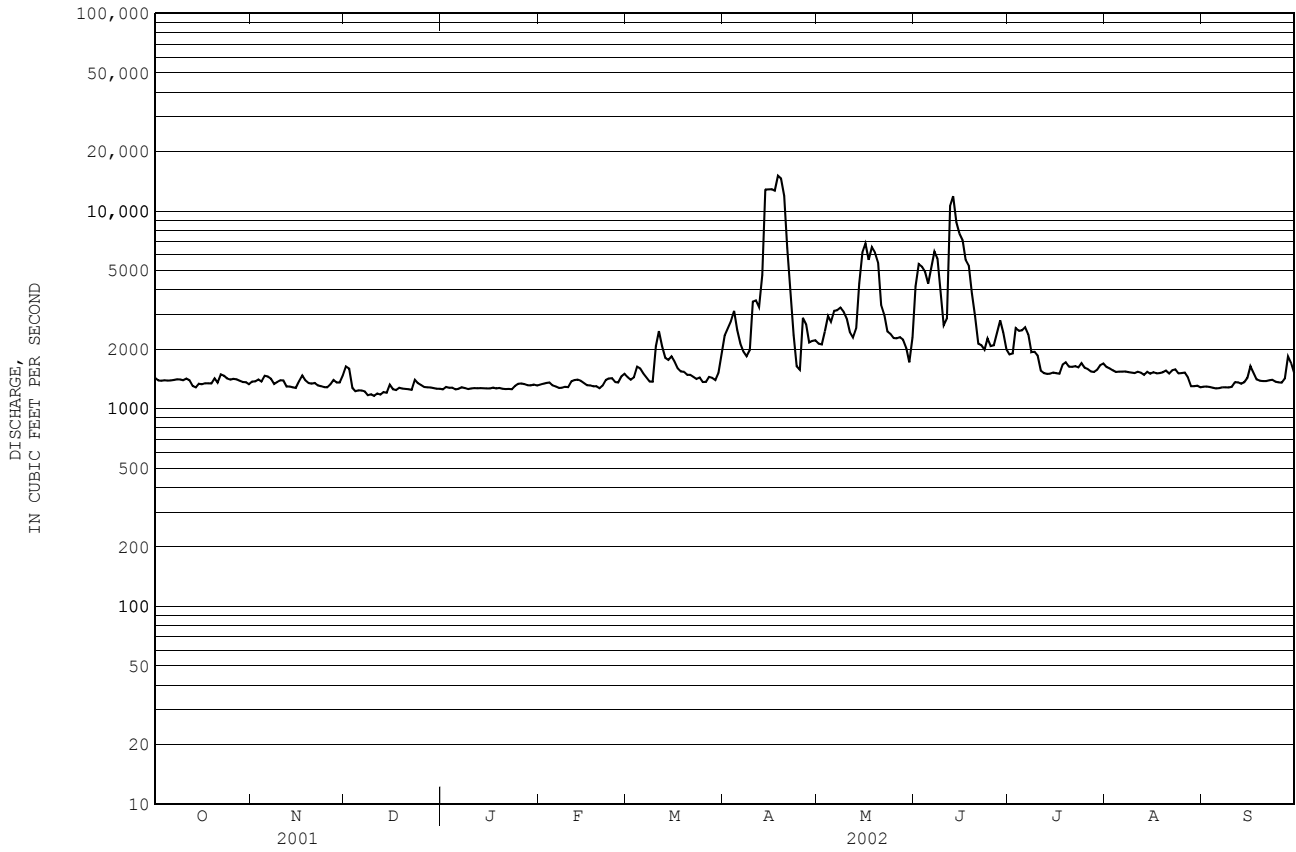
MEAN	2044	2094	2132	2140	2159	2497	3967	4265	2805	2080	1924	1970
MAX	4894	4292	5811	4044	4294	7684	6474	10050	10560	5840	2792	6387
(WY)	1955	1991	1974	1970	1996	1936	1976	1937	1917	1996	1990	1954
MIN	1374	1365	1257	1276	1299	1376	1755	1746	1545	1524	1462	1330
(WY)	1942	2002	1953	1953	1922	1922	1965	1941	1915	1980	1995	1995

e Estimated

ANDROSCOGGIN RIVER BASIN

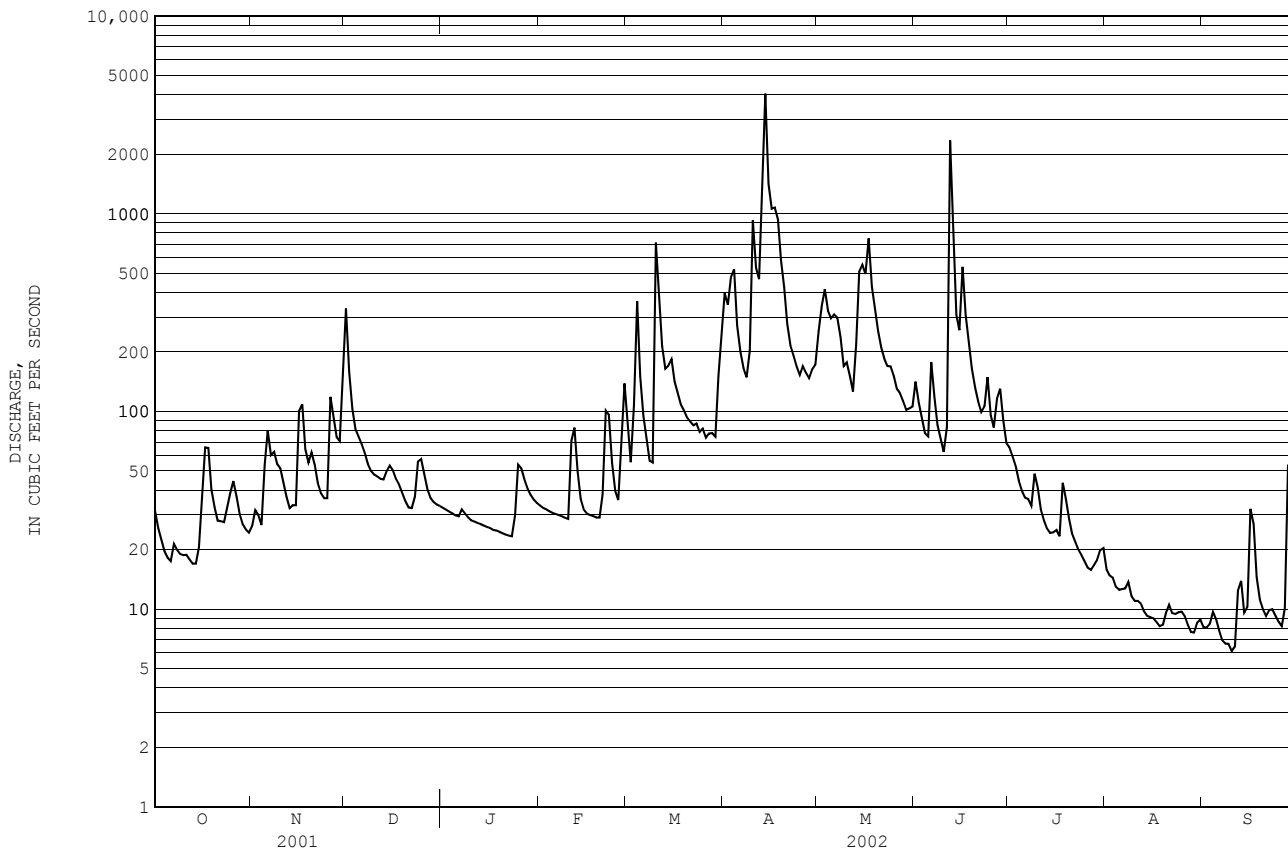
01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1914 - 2002	
ANNUAL TOTAL	719830		791600		2511	
ANNUAL MEAN	1972		2169		4147	
HIGHEST ANNUAL MEAN					1689	
LOWEST ANNUAL MEAN					20000	
HIGHEST DAILY MEAN	16400	Apr 25	15100	Apr 18	20000	Jun 18 1917
LOWEST DAILY MEAN	1160	Dec 10	1160	Dec 10	795	Mar 15 1948
ANNUAL SEVEN-DAY MINIMUM	1190	Dec 8	1190	Dec 8	866	Mar 10 1948
MAXIMUM PEAK FLOW			16000	Apr 18	21900	Apr 30 1923
MAXIMUM PEAK STAGE			9.14	Apr 18		
10 PERCENT EXCEEDS	2400		3410		3750	
50 PERCENT EXCEEDS	1560		1440		2010	
90 PERCENT EXCEEDS	1320		1270		1590	



01054200 WILD RIVER AT GILEAD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	42508.8		45689.1		184	
ANNUAL MEAN	116		125		294	
HIGHEST ANNUAL MEAN					72.9	
LOWEST ANNUAL MEAN					1996	
HIGHEST DAILY MEAN	2650	Apr 24	4050	Apr 14	7510	Jun 14 1998
LOWEST DAILY MEAN	7.7	Sep 19	6.1	Sep 10	6.1	Sep 10 2002
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 14	7.1	Sep 5	7.1	Sep 5 2002
MAXIMUM PEAK FLOW			9250		24500	
MAXIMUM PEAK STAGE			10.09		14.84	
INSTANTANEOUS LOW FLOW			6.0		6.0	
ANNUAL RUNOFF (CFSM)	1.67		1.80		2.65	
ANNUAL RUNOFF (INCHES)	22.72		24.42		36.00	
10 PERCENT EXCEEDS	270		285		406	
50 PERCENT EXCEEDS	46		43		76	
90 PERCENT EXCEEDS	12		10		21	



ANDROSCOGGIN RIVER BASIN

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 mi².

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 period of ice effect, Dec. 10 to Mar. 30, which is fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,630 ft³/s, Dec. 29, 1969, gage height, 19.23 ft; minimum discharge, 8.4 ft³/s, Sept. 11, 2002.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 14	1045	*4,330	*16.96	Jun 12	2130	3,060	15.63

Minimum discharge, 8.4 ft³/s, Sept. 11, gage height, 3.84 ft.

**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	22	29	205	e35	e59	e175	533	511	387	195	32	11
2	20	33	245	e34	e65	e156	613	617	337	257	27	10
3	18	40	166	e33	e62	e165	716	777	283	174	25	11
4	17	36	130	e32	e58	e270	907	723	215	130	22	11
5	16	62	110	e32	e54	e224	628	596	189	104	21	11
6	16	128	100	e34	e48	e190	513	544	501	89	19	10
7	16	105	91	e39	e48	e169	446	503	441	81	18	9.6
8	16	84	80	e43	e46	e141	408	453	324	74	17	10
9	17	75	72	e41	e43	e118	398	387	255	71	16	9.3
10	18	78	e62	e42	e41	e331	876	359	205	68	15	9.0
11	18	68	e60	e44	e59	e436	953	322	192	59	15	8.8
12	17	59	e56	e44	e84	e303	830	281	1600	52	15	9.3
13	17	50	e53	e44	e107	e234	1160	296	1890	48	14	9.4
14	16	47	e55	e48	e91	e214	3200	844	875	45	14	9.5
15	17	44	e62	e47	e81	e241	2600	1080	561	44	13	11
16	24	59	e57	e46	e76	e202	2030	830	520	46	13	26
17	31	81	e57	e45	e75	e164	1910	898	470	43	13	34
18	36	65	e63	e43	e73	e148	1800	731	410	48	12	21
19	31	54	e60	e42	e68	e133	1470	603	344	48	12	17
20	26	51	e53	e41	e67	e120	1060	480	283	44	13	15
21	25	50	e50	e40	e75	e114	778	415	231	41	12	14
22	42	46	e46	e39	e109	e106	599	370	188	36	12	13
23	55	43	e45	e39	e141	e106	502	325	169	34	12	13
24	42	41	e48	e41	e126	e95	437	293	324	35	12	13
25	38	40	e57	e64	e112	e83	388	264	240	33	12	13
26	39	48	e57	e76	e104	e78	400	234	186	30	12	12
27	40	67	e49	e69	e129	e95	411	223	201	28	11	13
28	36	66	e43	e62	e203	e106	366	196	207	27	11	44
29	33	69	e42	e57	---	e123	374	172	166	30	11	43
30	30	83	e39	e55	---	e173	394	160	129	40	11	26
31	28	---	e37	e53	---	354	---	200	---	49	11	---
TOTAL	817	1801	2350	1404	2304	5567	27700	14687	12323	2103	473	466.9
MEAN	26.4	60.0	75.8	45.3	82.3	180	923	474	411	67.8	15.3	15.6
MAX	55	128	245	76	203	436	3200	1080	1890	257	32	44
MIN	16	29	37	32	41	78	366	160	129	27	11	8.8
CFSM	0.20	0.46	0.58	0.35	0.63	1.38	7.10	3.64	3.16	0.52	0.12	0.12
IN.	0.23	0.52	0.67	0.40	0.66	1.59	7.93	4.20	3.53	0.60	0.14	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2002, BY WATER YEAR (WY)

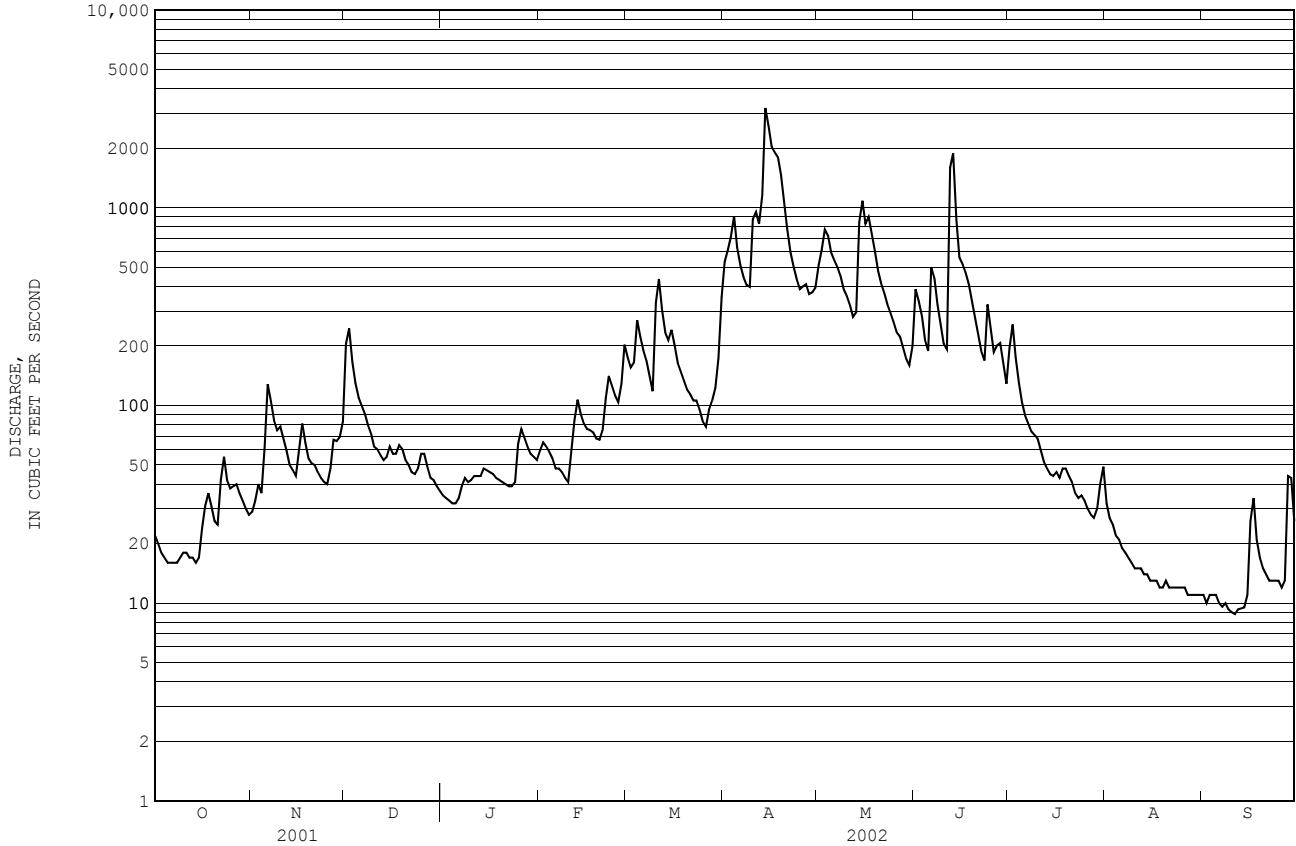
MEAN	152	237	227	128	147	240	766	560	211	112	72.7	66.9
MAX	653	703	876	464	620	579	1206	1190	437	467	279	283
(WY)	1978	1970	1974	1978	1981	1979	1969	1969	1968	1973	1976	1981
MIN	26.4	33.8	34.1	45.3	31.1	30.6	369	224	60.1	33.0	15.3	15.6
(WY)	2002	1979	1979	2002	1980	1967	1981	1977	1964	1965	2002	2002

e Estimated

ANDROSCOGGIN RIVER BASIN

01054300 ELLIS RIVER AT SOUTH ANDOVER, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1963 - 2002	
ANNUAL TOTAL	56544.8		71995.9		247	
ANNUAL MEAN	155		197		340	
HIGHEST ANNUAL MEAN					132	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	2810	Apr 25	3200	Apr 14	4500	Apr 25 1968
LOWEST DAILY MEAN	9.1	Sep 20	8.8	Sep 11	8.8	Sep 11 2002
ANNUAL SEVEN-DAY MINIMUM	9.5	Sep 14	9.3	Sep 8	9.3	Sep 8 2002
MAXIMUM PEAK FLOW			4330	Apr 14	5630	Dec 29 1969
MAXIMUM PEAK STAGE			16.96	Apr 14	19.23	Dec 29 1969
INSTANTANEOUS LOW FLOW			8.4	Sep 11	8.4	Sep 11 2002
ANNUAL RUNOFF (CFSM)	1.19		1.52		1.90	
ANNUAL RUNOFF (INCHES)	16.18		20.60		25.79	
10 PERCENT EXCEEDS	324		506		594	
50 PERCENT EXCEEDS	57		59		115	
90 PERCENT EXCEEDS	16		13		32	



ANDROSCOGGIN RIVER BASIN

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 mi².

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 ft³, 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 at the end of the report.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,900 ft³/s, Apr. 14, gage height, 13.77 ft; minimum daily discharge, 1,110 ft³/s, Jan. 2.

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

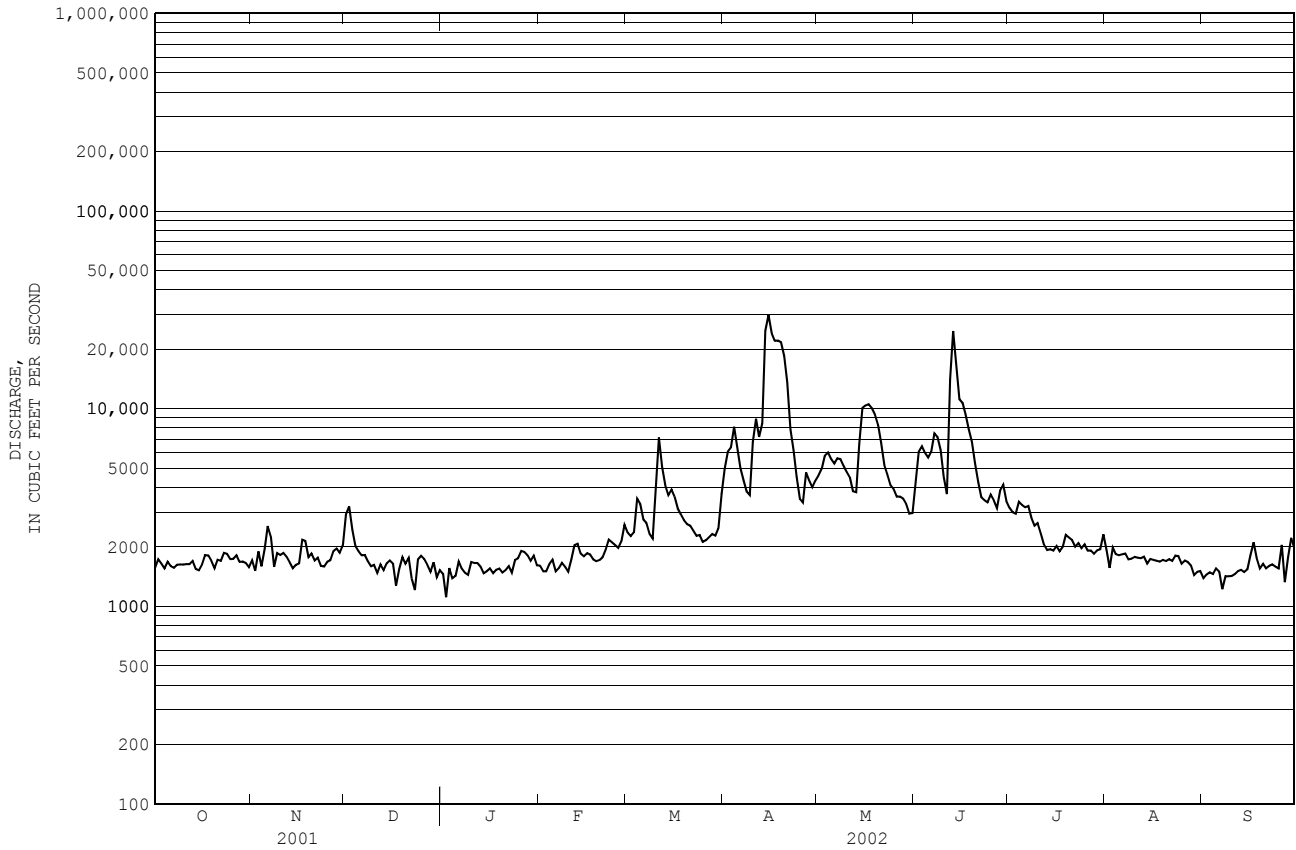
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	1710	2920	1460	1610	2360	4970	4610	4130	3160	1920	1390
2	1730	1510	3200	1110	1510	2270	6070	4990	6070	3000	1570	1450
3	1650	1900	2440	1560	1510	2370	6360	5800	6470	2950	1990	1490
4	1560	1600	2020	1390	1640	3510	8110	6020	5990	3390	1840	1460
5	1680	1960	1900	1430	1720	3310	6490	5590	5670	3270	1820	1560
6	1600	2550	1820	1690	1510	2750	5030	5290	6060	3170	1830	1500
7	1570	2250	1820	1550	1570	2650	4350	5620	7510	3230	1850	1220
8	1630	1590	1690	1480	1660	2330	3830	5560	7210	2810	1730	1420
9	1630	1860	1600	1450	1590	2210	3670	5140	6180	2560	1750	1420
10	1630	1820	1620	1680	1500	3970	6800	4790	4520	2640	1780	1430
11	1640	1870	1480	1660	1740	7150	8890	4480	3700	2340	1770	1460
12	1640	1780	1630	1660	2040	5080	7210	3830	14100	2060	1760	1510
13	1700	1670	1530	1590	2080	4100	8450	3780	24800	1930	1790	1530
14	1550	1560	1650	1470	1850	3660	24800	6630	16100	1950	1650	1490
15	1520	1620	1710	1510	1800	3910	29800	10100	11200	1910	1740	1540
16	1630	1650	1650	1560	1860	3600	24100	10400	10700	2020	1720	1820
17	1820	2180	1270	1470	1830	3130	22100	10600	9340	1900	1700	2110
18	1810	2150	1550	1530	1730	2920	22100	10100	7850	2000	1680	1760
19	1700	1780	1780	1560	1690	2730	21700	9380	6810	2310	1720	1560
20	1560	1850	1650	1490	1720	2600	18500	8280	5290	2230	1700	1640
21	1720	1710	1760	1530	1770	2560	13600	6720	4250	2170	1740	1560
22	1700	1770	1380	1600	1940	2420	7890	5190	3570	2010	1700	1600
23	1870	1600	1210	1490	2180	2280	6130	4650	3440	2090	1810	1630
24	1840	1590	1730	1720	2110	2300	4510	4100	3370	1970	1800	1590
25	1740	1680	1810	1760	2040	2120	3500	3930	3680	2060	1650	1560
26	1740	1710	1740	1910	1980	2160	3360	3600	3450	1920	1710	2050
27	1810	1900	1620	1890	2140	2240	4760	3590	3140	1920	1680	1330
28	1680	1960	1500	1820	2590	2330	4350	3520	3870	1850	1610	1770
29	1690	1870	1670	1700	---	2280	4020	3300	4130	1920	1440	2230
30	1660	2040	1410	1810	---	2490	4340	2950	3410	1950	1500	1980
31	1580	---	1530	1620	---	3720	---	2970	---	2320	1510	---
TOTAL	51840	54690	54290	49150	50910	93510	299790	175510	206010	73010	53460	48060
MEAN	1672	1823	1751	1585	1818	3016	9993	5662	6867	2355	1725	1602
MAX	1870	2550	3200	1910	2590	7150	29800	10600	24800	3390	1990	2230
MIN	1520	1510	1210	1110	1500	2120	3360	2950	3140	1850	1440	1220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1900 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	2822	3396	3038	2765	2693	3988	8172	7310	3988	2625	2318	2395
MAX	7423	8635	10570	6885	7192	17420	14900	16650	12210	8906	4518	9296
(WY)	1978	1996	1974	1996	1981	1936	1901	1969	1917	1996	1990	1954
MIN	1448	1511	1121	1353	951	789	3177	2550	1795	1384	1451	1307
(WY)	1911	1909	1909	1909	1911	1911	1995	1941	1911	1911	1911	1995

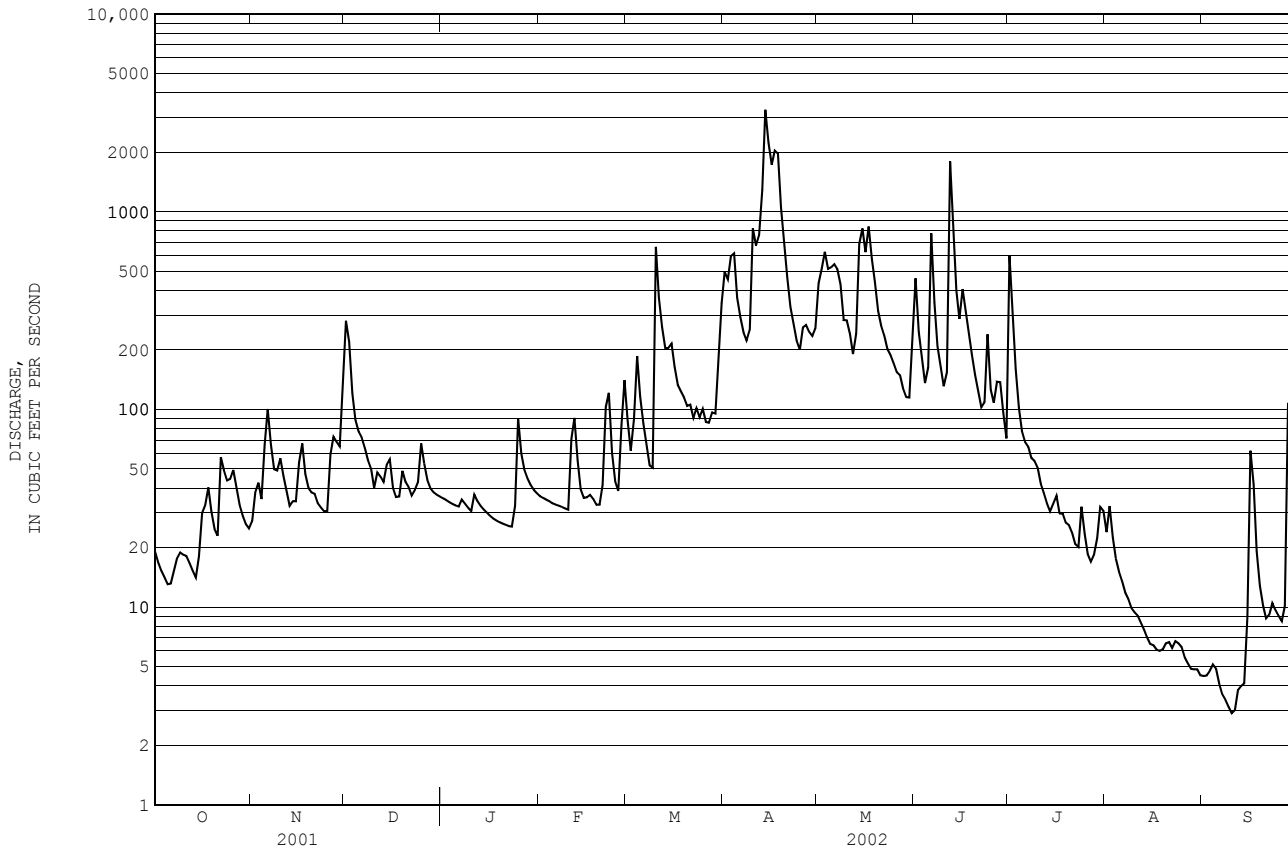
01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1900 - 2002	
ANNUAL TOTAL	1100510		1210230			
ANNUAL MEAN	3015		3316		3793	
HIGHEST ANNUAL MEAN					6696	1996
LOWEST ANNUAL MEAN					2001	1911
HIGHEST DAILY MEAN	30000	Apr 25	29800	Apr 15	68300	Mar 19 1936
LOWEST DAILY MEAN	1210	Dec 23	1110	Jan 2	625	Mar 27 1911
ANNUAL SEVEN-DAY MINIMUM	1470	Sep 12	1410	Dec 30	645	Mar 21 1911
MAXIMUM PEAK FLOW			31900	Apr 14	74000	Mar 20 1936
MAXIMUM PEAK STAGE			13.77	Apr 14		
10 PERCENT EXCEEDS	4320		6250		7220	
50 PERCENT EXCEEDS	2140		1890		2620	
90 PERCENT EXCEEDS	1570		1510		1780	



01055000 SWIFT RIVER NEAR ROXBURY, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	48803.6		57863.5		202	
ANNUAL MEAN	134		159		366	
HIGHEST ANNUAL MEAN					103	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	2790	Apr 24	3290	Apr 14	9120	Apr 1 1987
LOWEST DAILY MEAN	4.5	Sep 20	2.9	Sep 10	2.9	Sep 10 2002
ANNUAL SEVEN-DAY MINIMUM	5.0	Sep 14	3.4	Sep 7	3.4	Sep 7 2002
MAXIMUM PEAK FLOW			5150		16800	
MAXIMUM PEAK STAGE			7.54		12.87	
INSTANTANEOUS LOW FLOW			2.7		2.7	
ANNUAL RUNOFF (CFSM)	1.38		1.64		2.08	
ANNUAL RUNOFF (INCHES)	18.74		22.21		28.29	
10 PERCENT EXCEEDS	289		416		491	
50 PERCENT EXCEEDS	47		44		83	
90 PERCENT EXCEEDS	12		8.9		22	



ANDROSCOGGIN RIVER BASIN

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 mi².

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.--Records good, except for periods June 1-5, for specific conductance, and June 7-11, for dissolved oxygen, which are fair. Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 335 mS/cm, Sept. 11, 1995; minimum, 25 mS/cm, Apr. 24-25, 1996.
 WATER TEMPERATURE: Maximum, 27.0°C, July 7-8, Aug. 2, 1995; 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, 207 mS/cm, Sept. 10; minimum, 19 mS/cm, Jun. 13.
 WATER TEMPERATURE: Maximum, 28.0°C, Aug. 17; minimum, 11.2°C, Jun. 13.
 DISSOLVED OXYGEN: Maximum, 11.6 mg/L, June 13; minimum, 6.0 mg/L, Aug. 18-19.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	90	70	78	88	71	76	125	104	115	186	153	168
2	70	54	61	76	60	68	147	111	127	188	166	181
3	54	50	52	98	70	81	140	110	121	186	150	170
4	51	49	50	97	70	78	143	115	126	192	156	178
5	52	49	51	80	70	75	146	110	128	177	156	167
6	53	48	50	88	70	78	156	124	140	175	144	163
7	48	44	45	111	76	84	171	130	144	176	158	169
8	46	43	44	102	79	87	171	125	142	199	164	181
9	48	44	46	110	72	90	158	119	133	203	151	184
10	57	48	51	101	78	87	171	130	145	207	164	189
11	66	55	60	131	78	99	158	133	141	187	163	176
12	74	27	59	120	86	99	169	123	142	191	146	173
13	27	19	22	114	98	106	142	114	127	185	151	167
14	29	25	27	122	103	114	130	109	122	174	137	158
15	36	29	32	149	115	128	153	122	133	177	147	164
16	37	35	36	130	118	124	173	141	149	161	127	142
17	38	35	36	149	119	128	184	138	154	154	125	137
18	42	37	39	126	106	119	157	137	148	130	106	117
19	45	40	42	126	115	121	159	133	151	167	130	143
20	51	41	46	115	98	108	160	132	146	153	132	141
21	62	50	54	118	99	108	160	120	137	149	123	137
22	76	62	67	118	101	110	160	132	145	134	96	119
23	84	75	79	121	104	112	158	126	138	121	96	111
24	87	76	81	136	108	118	155	142	148	113	92	103
25	85	73	78	129	110	120	168	139	146	114	100	107
26	96	70	80	132	109	118	167	136	152	131	110	123
27	100	70	79	126	110	118	167	132	145	159	117	134
28	100	69	82	144	121	133	161	140	150	169	128	149
29	76	60	67	141	117	129	176	140	155	162	123	140
30	72	61	66	136	121	128	188	141	162	164	122	140
31	---	---	---	132	116	125	187	156	173	---	---	---
MONTH	100	19	55	149	60	105	188	104	141	207	92	151

ANDROSCOGGIN RIVER BASIN

01055100 ANDROSCOGGIN RIVER AT JAY, ME--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	19.3	18.4	18.9	23.3	22.4	22.9	25.5	24.2	24.7	22.3	21.2	21.9
2	18.7	17.1	17.8	23.3	22.3	22.9	25.6	24.9	25.1	22.0	20.9	21.2
3	17.1	15.9	16.2	25.1	23.2	24.2	25.8	24.6	25.1	21.1	20.3	20.7
4	16.1	15.0	15.5	26.8	24.3	25.8	26.0	24.8	25.3	21.4	20.7	21.0
5	16.1	15.1	15.6	27.0	25.4	26.3	26.2	25.8	25.9	21.4	20.8	21.1
6	15.9	15.5	15.8	25.4	23.6	24.8	25.8	25.4	25.6	21.1	20.3	20.7
7	16.2	15.5	15.8	23.6	22.9	23.4	25.5	24.2	24.9	21.0	19.9	20.5
8	16.5	15.4	15.9	23.6	22.6	23.0	24.2	23.2	23.6	21.8	20.4	21.0
9	17.0	15.9	16.5	24.5	22.4	23.3	24.1	23.2	23.6	22.9	21.6	22.1
10	17.8	17.0	17.3	24.6	22.9	23.7	23.6	23.2	23.4	23.6	22.4	22.9
11	18.1	16.7	17.5	22.9	22.1	22.4	24.3	23.1	23.6	23.5	22.3	23.0
12	16.7	12.7	15.5	22.6	20.9	21.8	25.1	23.6	24.2	22.3	21.4	21.6
13	12.7	11.2	11.9	22.6	21.2	21.9	25.5	24.4	25.0	21.4	19.7	20.3
14	14.4	12.6	13.6	22.8	22.0	22.4	26.3	25.1	25.6	19.7	18.8	19.2
15	14.2	13.5	13.7	23.2	22.6	22.9	27.3	26.1	26.6	19.4	19.0	19.2
16	13.5	13.2	13.3	23.1	22.6	22.8	27.9	26.9	27.4	19.4	18.7	18.9
17	13.9	13.0	13.3	22.9	22.1	22.5	28.0	27.2	27.6	19.2	18.3	18.7
18	15.9	13.8	14.7	23.3	22.3	22.7	27.7	27.0	27.4	19.4	18.6	19.0
19	16.9	14.9	15.7	23.0	22.5	22.7	27.5	27.0	27.2	19.5	19.0	19.3
20	18.1	16.1	17.0	22.6	21.3	21.8	27.0	26.4	26.7	20.1	19.0	19.5
21	20.0	17.7	18.5	23.7	21.7	22.6	26.6	25.7	26.0	20.6	19.6	20.0
22	20.2	19.4	19.8	24.8	23.0	23.8	25.7	24.4	24.9	21.2	20.4	20.8
23	19.6	18.9	19.2	25.4	24.5	24.9	24.9	24.2	24.5	21.6	21.0	21.4
24	19.4	18.5	19.0	25.5	24.8	25.2	24.3	23.5	23.7	21.4	20.6	21.0
25	19.6	19.0	19.2	24.8	23.8	24.4	23.6	22.8	23.3	21.0	20.1	20.5
26	21.1	19.6	20.4	24.7	23.8	24.2	23.3	22.2	22.7	20.5	19.7	20.0
27	22.2	20.8	21.7	23.9	22.6	23.2	23.6	22.9	23.3	19.7	18.9	19.4
28	23.4	22.2	22.7	22.6	21.8	22.3	23.4	22.7	23.1	18.9	18.1	18.5
29	23.4	22.5	23.1	23.2	21.6	22.3	23.0	22.1	22.4	18.1	17.2	17.4
30	23.6	22.5	23.3	23.9	22.7	23.1	22.9	21.6	22.2	17.4	16.2	16.6
31	---	---	---	24.3	23.7	24.0	22.8	21.7	22.1	---	---	---
MONTH	23.6	11.2	17.3	27.0	20.9	23.4	28.0	21.6	24.7	23.6	16.2	20.2

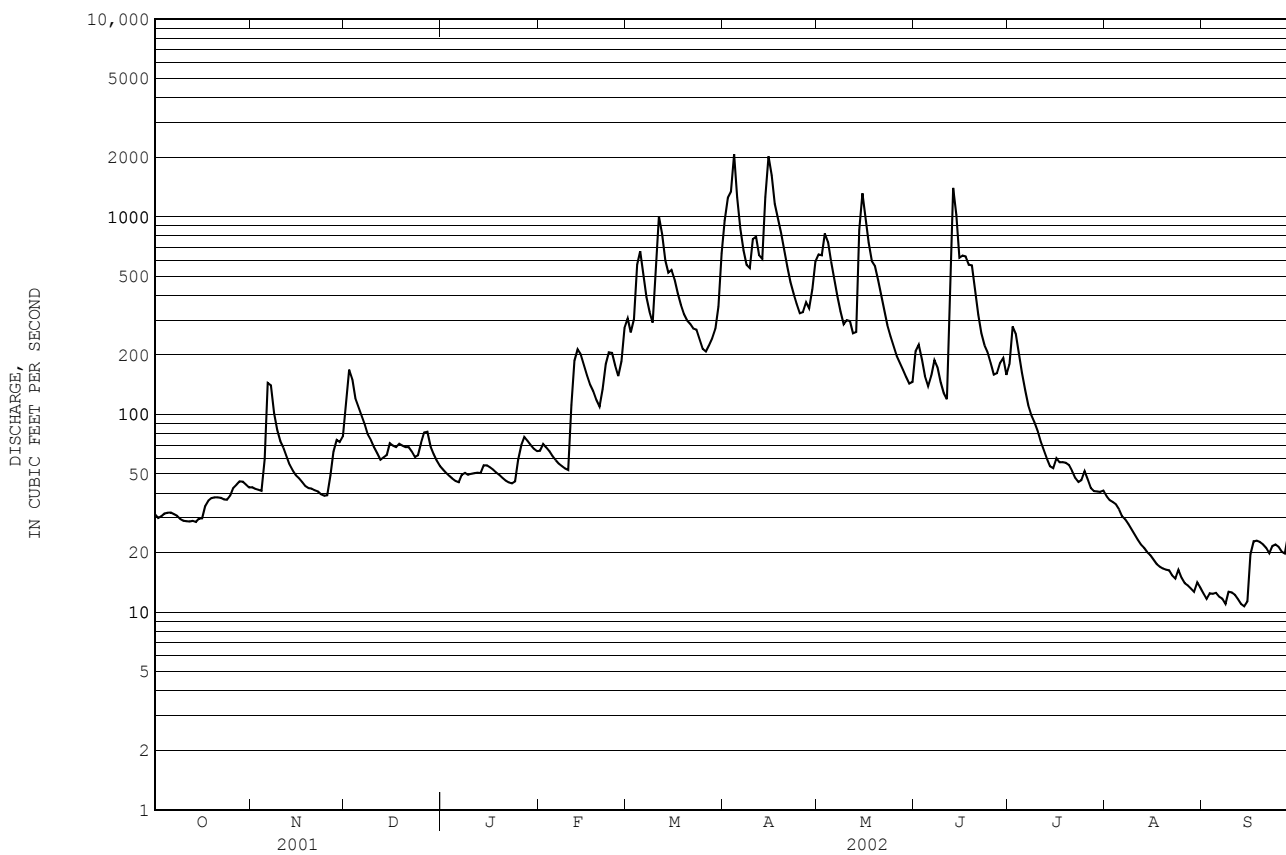
OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	8.6	8.0	8.3	8.6	8.0	8.3	8.3	7.6	8.0	8.0	7.5	7.8
2	8.8	8.3	8.6	8.4	8.0	8.2	8.1	7.3	7.6	8.2	7.8	7.9
3	9.5	8.8	9.2	8.6	7.8	8.3	7.8	7.6	7.7	8.3	7.6	8.0
4	9.6	9.4	9.5	8.6	7.6	8.1	8.3	7.6	7.9	7.8	7.2	7.5
5	9.7	9.3	9.6	8.3	7.5	7.9	8.2	7.5	7.8	8.1	7.4	7.7
6	9.7	9.4	9.6	8.4	7.5	7.9	7.9	7.2	7.5	8.2	7.6	7.8
7	9.8	9.4	9.6	8.5	7.5	8.1	7.9	7.3	7.5	8.3	7.8	8.1
8	9.8	9.4	9.6	9.0	8.0	8.5	8.0	7.4	7.7	8.4	7.8	8.1
9	9.6	9.0	9.2	8.8	7.7	8.3	8.1	7.7	7.9	8.4	7.6	8.0
10	9.1	8.6	8.9	8.6	7.7	8.1	8.2	7.2	7.8	8.0	7.0	7.5
11	9.0	8.3	8.8	8.6	8.0	8.3	8.2	7.3	7.8	7.5	7.1	7.4
12	10.9	8.3	9.1	8.8	8.0	8.4	8.3	7.7	8.0	7.8	7.1	7.4
13	11.6	10.9	11.4	9.1	8.1	8.6	8.3	7.7	8.0	7.7	7.1	7.4
14	11.2	10.3	10.6	9.1	8.2	8.7	8.1	7.5	7.7	8.3	7.5	7.9
15	10.4	10.2	10.3	9.0	7.9	8.4	7.7	6.8	7.3	7.9	7.2	7.6
16	10.4	10.2	10.3	8.7	7.8	8.2	7.1	6.4	6.7	8.5	7.9	8.3
17	10.4	10.2	10.3	8.6	7.6	8.1	6.8	6.2	6.5	8.6	8.1	8.3
18	10.2	9.9	10	8.7	8.3	8.5	6.5	6.0	6.3	8.8	7.7	8.3
19	10.0	9.7	9.8	8.8	7.5	8.2	6.8	6.0	6.4	8.8	8.1	8.6
20	9.7	9.4	9.5	8.7	7.8	8.3	6.8	6.2	6.5	8.9	8.3	8.7
21	9.4	8.8	9.1	9.1	7.8	8.4	7.1	6.8	6.9	8.7	7.7	8.3
22	8.8	8.4	8.5	9.0	7.9	8.4	7.2	7.0	7.1	8.7	8.0	8.3
23	8.4	8.2	8.3	8.5	7.6	8.1	7.4	7.0	7.2	8.5	7.9	8.2
24	8.7	8.3	8.5	8.2	7.1	7.7	7.4	7.0	7.2	8.6	8.2	8.4
25	8.8	8.5	8.6	8.5	7.0	7.7	7.5	6.9	7.2	8.5	8.1	8.3
26	8.8	8.3	8.7	8.7	7.1	8.0	7.6	6.8	7.3	8.3	7.8	8.1
27	8.6	8.0	8.4	8.6	7.8	8.1	7.6	7.3	7.5	8.5	7.9	8.2
28	8.5	7.8	8.2	8.3	7.4	7.7	7.7	7.2	7.5	8.7	8.2	8.5
29	8.4	7.8	8.2	8.0	7.4	7.6	7.8	7.3	7.7	9.2	8.4	8.7
30	8.6	8.1	8.4	8.2	7.6	7.9	7.8	7.0	7.4	9.9	9.1	9.4
31	---	---	---	8.5	7.6	8.0	7.8	7.3	7.6	---	---	---
MONTH	11.6	7.8	9.2	9.1	7.0	8.2	8.3	6.0	7.4	9.9	7.0	8.1

01055500 NEZINSCOT RIVER AT TURNER CENTER, 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	---	---	---	---	---	---	---	---	---	---	37	19
2	---	---	---	---	---	---	---	---	---	---	36	18
3	---	---	---	---	---	---	---	---	---	---	34	18
4	---	---	---	---	---	---	---	---	---	---	31	19
5	---	---	---	---	---	---	---	---	---	---	30	19
6	---	---	---	---	---	---	---	---	---	---	29	18
7	---	---	---	---	---	---	---	---	---	---	27	17
8	---	---	---	---	---	---	---	---	---	---	26	17
9	---	---	---	---	---	---	---	---	---	---	24	16
10	---	---	---	---	---	---	---	---	---	---	23	15
11	---	---	---	---	---	---	---	---	---	---	22	14
12	---	---	---	---	---	---	---	---	---	---	21	14
13	---	---	---	---	---	---	---	---	---	---	22	13
14	---	---	---	---	---	---	---	---	---	---	22	12
15	---	---	---	---	---	---	---	---	---	---	20	11
16	---	---	---	---	---	---	---	---	---	---	19	11
17	---	---	---	---	---	---	---	---	---	---	19	9.9
18	---	---	---	---	---	---	---	---	---	---	18	9.8
19	---	---	---	---	---	---	---	---	---	---	17	9.6
20	---	---	---	---	---	---	---	---	---	---	17	9.6
21	---	---	---	---	---	---	---	---	---	---	17	12
22	---	---	---	---	---	---	---	---	---	---	18	14
23	---	---	---	---	---	---	---	---	---	---	20	14
24	---	---	---	---	---	---	---	---	---	---	22	16
25	---	---	---	---	---	---	---	---	---	---	22	19
26	---	---	---	---	---	---	---	---	---	---	21	27
27	---	---	---	---	---	---	---	---	---	---	20	32
28	---	---	---	---	---	---	---	---	---	---	19	36
29	---	---	---	---	---	---	---	---	---	---	18	35
30	---	---	---	---	---	---	---	---	---	---	17	33
31	---	---	---	---	---	---	---	---	---	---	17	---
TOTAL	---	---	---	---	---	---	---	---	---	---	705	527.9
MEAN	---	---	---	---	---	---	---	---	---	---	22.7	17.6
MAX	---	---	---	---	---	---	---	---	---	---	37	36
MIN	---	---	---	---	---	---	---	---	---	---	17	9.6
CFSM	---	---	---	---	---	---	---	---	---	---	0.13	0.10
IN.	---	---	---	---	---	---	---	---	---	---	0.16	0.12



ANDROSCOGGIN RIVER BASIN

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 Rd. bridge and 0.2 mi upstream from Lake Auburn.

DRAINAGE AREA.-- 8.01 mi².

PERIOD OF RECORD.--Discharge: February 2000 to current year.

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 ft³/s, Mar. 29, 2000, gage height, 3.73 ft; maximum gage-height, 3.86 ft, due to installation of weir, Apr. 15, 2002; no flow, Aug. 3 to Nov. 25, 2001 and Aug. 13 to Sept. 27, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 84 ft³/s, Apr. 15, gage height, 3.86 ft; no flow, Oct. 1 to Nov. 25 and Aug. 13 to Sept. 27.

**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	0.00	0.00	0.46	2.0	4.3	17	46	28	8.1	11	0.35	0.00
2	0.00	0.00	0.64	1.8	4.0	16	45	30	6.4	9.9	0.27	0.00
3	0.00	0.00	0.78	1.7	3.5	34	43	35	5.0	6.5	0.23	0.00
4	0.00	0.00	0.99	1.6	3.3	43	47	29	4.2	5.0	0.18	0.00
5	0.00	0.00	1.3	1.5	3.1	36	39	24	4.4	4.1	0.16	0.00
6	0.00	0.00	1.4	1.4	2.9	29	32	20	6.9	3.3	0.14	0.00
7	0.00	0.00	1.6	1.8	2.8	23	25	17	6.7	3.0	0.07	0.00
8	0.00	0.00	1.5	1.8	2.7	18	20	14	5.4	2.7	0.05	0.00
9	0.00	0.00	1.8	1.7	2.5	16	17	11	4.9	2.8	0.03	0.00
10	0.00	0.00	1.8	1.8	2.6	36	16	13	4.2	2.5	0.02	0.00
11	0.00	0.00	1.8	1.7	6.6	40	13	11	4.4	1.9	0.02	0.00
12	0.00	0.00	1.7	1.7	6.3	35	12	9.2	37	1.4	0.01	0.00
13	0.00	0.00	1.8	2.7	5.4	28	13	14	49	1.2	0.00	0.00
14	0.00	0.00	2.0	3.3	4.8	25	57	58	44	1.0	0.00	0.00
15	0.00	0.00	2.6	3.1	4.6	23	75	54	37	1.0	0.00	0.00
16	0.00	0.00	2.5	3.2	4.5	20	67	45	37	1.2	0.00	0.00
17	0.00	0.00	2.4	3.0	4.7	17	50	35	31	1.0	0.00	0.00
18	0.00	0.00	3.4	2.9	4.4	15	43	30	25	1.2	0.00	0.00
19	0.00	0.00	3.1	2.7	4.2	15	34	27	19	1.1	0.00	0.00
20	0.00	0.00	2.9	2.6	4.0	14	29	21	14	1.0	0.00	0.00
21	0.00	0.00	3.5	2.6	6.7	16	23	18	12	0.87	0.00	0.00
22	0.00	0.00	3.0	2.7	9.7	15	18	15	9.8	0.78	0.00	0.00
23	0.00	0.00	2.7	2.5	11	13	16	13	8.6	0.80	0.00	0.00
24	0.00	0.00	3.0	2.9	9.9	12	14	11	8.9	0.75	0.00	0.00
25	0.00	0.00	3.2	3.8	9.4	11	12	9.0	6.3	0.60	0.00	0.00
26	0.00	0.01	2.9	3.5	9.6	11	16	7.7	5.7	0.47	0.00	0.00
27	0.00	0.02	2.8	3.4	15	17	15	7.1	5.1	0.41	0.00	0.00
28	0.00	0.03	2.6	3.2	22	18	15	6.6	4.6	0.39	0.00	0.04
29	0.00	0.05	2.4	3.2	---	20	25	5.7	4.2	0.41	0.00	0.03
30	0.00	0.16	2.3	3.3	---	32	29	5.4	3.5	0.45	0.00	0.03
31	0.00	---	2.1	3.3	---	38	---	5.9	---	0.43	0.00	---
TOTAL	0.00	0.27	66.97	78.4	174.5	703	906	629.6	422.3	69.16	1.53	0.10
MEAN	0.000	0.009	2.16	2.53	6.23	22.7	30.2	20.3	14.1	2.23	0.049	0.003
MAX	0.00	0.16	3.5	3.8	22	43	75	58	49	11	0.35	0.04
MIN	0.00	0.00	0.46	1.4	2.5	11	12	5.4	3.5	0.39	0.00	0.00
CFSM	0.00	0.00	0.27	0.32	0.78	2.83	3.77	2.54	1.76	0.28	0.01	0.00
IN.	0.00	0.00	0.31	0.36	0.81	3.26	4.21	2.92	1.96	0.32	0.01	0.00

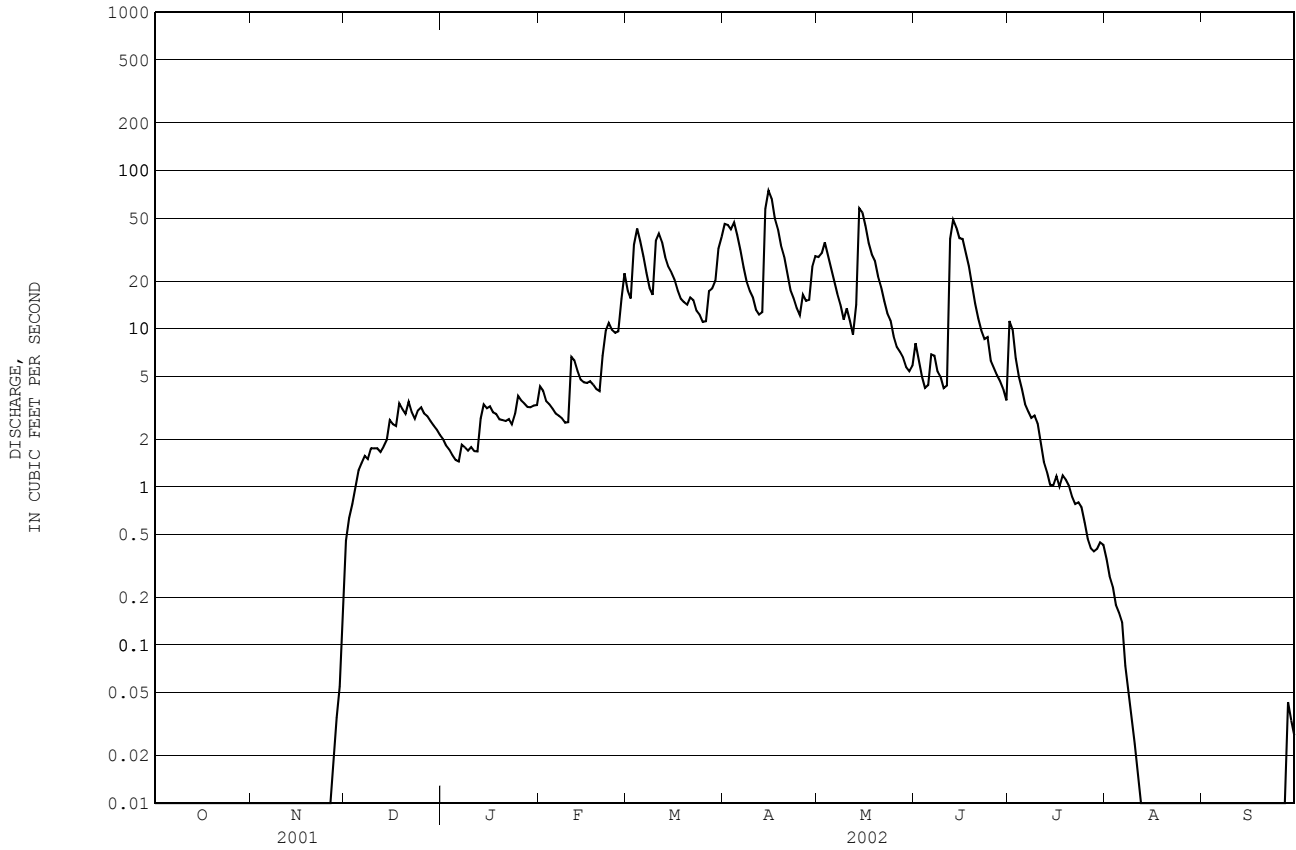
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	1.12	4.09	8.09	3.08	4.94	23.9	45.9	18.9	9.84	2.91	0.82	0.46
MAX	2.23	8.17	14.0	3.64	6.23	41.3	66.4	30.0	14.1	5.06	2.37	1.36
(WY)	2001	2001	2001	2001	2002	2000	2001	2000	2002	2000	2000	2000
MIN	0.000	0.009	2.16	2.53	3.65	7.81	30.2	6.26	4.77	1.42	0.030	0.000
(WY)	2002	2002	2002	2002	2001	2001	2002	2001	2000	2001	2001	2001

ANDROSCOGGIN RIVER BASIN

01056400 THE BASIN OUTLET AT NORTH AUBURN, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2000 - 2002	
ANNUAL TOTAL	3074.02		3051.83			
ANNUAL MEAN	8.42		8.36			
HIGHEST ANNUAL MEAN					9.33	2001
LOWEST ANNUAL MEAN					8.36	2002
HIGHEST DAILY MEAN	142	Apr 23	75	Apr 15	156	Mar 29 2000
LOWEST DAILY MEAN	0.00	Aug 5	0.00	Oct 1	0.00	Aug 5 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 5	0.00	Oct 1	0.00	Aug 5 2001
MAXIMUM PEAK FLOW			84	Apr 15	164	Mar 29 2000
MAXIMUM PEAK STAGE			3.86	Apr 15	3.86	Apr 15 2002
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Aug 3 2001
ANNUAL RUNOFF (CFSM)	1.05		1.04		1.16	
ANNUAL RUNOFF (INCHES)	14.28		14.17		15.82	
10 PERCENT EXCEEDS	17		29		25	
50 PERCENT EXCEEDS	2.6		2.7		3.3	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



ANDROSCOGGIN RIVER BASIN

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 mi².

PERIOD OF RECORD.---Discharge: April 2000 to current year.

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. 1-9, 15-17, Nov. 26-27, June 14 to Jul. 17, and Sept. 12-30, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 37 ft³/s, Dec. 18, 2000, gage height, 2.93 ft; minimum discharge, 0.43 ft³/s, Jan. 8 and Feb. 4, 2002, gage height, 1.29 ft.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 15 ft³/s, Apr. 14, gage height, 2.39 ft; minimum discharge, 0.43 ft³/s, Jan. 8 and Feb. 4, gage height, 1.29 ft.

**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	e0.87	1.0	1.2	0.71	0.70	1.8	4.3	2.4	1.4	e2.3	0.98	0.86
2	e0.84	0.95	1.0	0.62	0.64	1.3	3.8	2.5	1.4	e2.5	0.95	0.83
3	e0.82	0.96	0.94	0.59	0.61	3.8	3.1	3.4	1.5	e1.9	0.92	0.99
4	e0.80	0.95	0.87	0.55	0.62	5.8	4.1	2.2	1.4	e1.6	0.88	0.99
5	e0.77	2.2	0.82	0.52	0.59	2.6	2.7	1.9	1.3	e1.4	0.89	0.94
6	e0.75	2.2	0.78	0.60	0.57	1.6	2.1	1.7	1.5	e1.3	0.91	0.88
7	e0.78	1.3	0.74	0.66	0.58	1.4	1.8	1.5	1.6	e1.3	0.88	0.83
8	e0.77	1.2	0.69	0.63	0.58	1.3	1.6	1.4	1.5	e1.2	0.82	0.85
9	e0.76	1.2	0.70	0.66	0.57	1.3	1.6	1.4	1.4	e1.3	0.83	0.82
10	0.76	1.1	0.69	0.61	0.59	5.4	1.5	1.7	1.3	e1.3	0.85	0.82
11	0.76	1.0	0.70	0.64	1.8	4.2	1.4	1.7	1.3	e1.2	0.82	0.82
12	0.75	1.0	0.70	0.63	1.3	2.2	1.3	1.5	7.9	e1.2	0.83	e0.85
13	0.75	0.99	0.73	0.86	0.92	1.8	1.5	2.2	5.7	e1.2	0.81	e0.83
14	0.77	0.98	0.77	0.86	0.74	1.9	9.1	10	e2.6	e1.1	0.77	e0.81
15	e1.2	0.93	0.93	0.76	0.69	1.9	7.0	5.0	e3.7	e1.1	0.75	e0.95
16	e1.1	0.95	0.85	0.69	0.77	1.6	4.4	2.8	e3.2	e1.1	0.84	e1.5
17	e0.94	0.95	0.76	0.71	0.80	1.4	3.0	2.2	e2.7	e1.1	0.78	e0.86
18	0.84	0.95	0.84	0.70	0.74	1.3	3.3	2.4	e2.4	1.2	0.73	e0.77
19	0.79	0.95	0.74	0.65	0.68	1.3	2.6	2.7	e2.2	1.1	0.71	e0.71
20	0.77	0.96	0.72	0.63	0.68	1.3	2.1	2.1	e2.0	1.1	0.78	e0.69
21	0.75	0.95	0.80	0.64	1.5	1.4	1.8	1.8	e1.9	1.1	0.80	e0.78
22	0.74	0.96	0.74	0.66	1.5	1.6	1.5	1.6	e1.8	1.0	0.75	e0.67
23	0.75	0.97	0.69	0.70	1.4	1.3	1.5	1.6	e1.8	1.0	0.82	e0.62
24	0.78	0.94	0.86	0.87	1.1	1.3	1.5	1.5	e1.7	0.99	0.73	e0.59
25	0.88	0.96	0.87	1.0	0.98	1.2	1.4	1.4	e1.7	0.97	0.88	e0.58
26	0.85	e1.1	0.79	0.89	1.0	1.2	1.8	1.4	e1.6	0.96	0.79	e0.57
27	0.79	e0.98	0.73	0.81	2.1	1.9	2.1	1.4	e1.5	0.95	0.71	e0.63
28	0.78	0.91	0.67	0.73	2.4	2.4	1.9	1.4	e1.6	0.98	0.73	e0.95
29	0.89	0.88	0.58	0.68	---	2.5	3.2	1.3	e1.6	1.0	0.79	e0.73
30	0.84	1.0	0.53	0.67	---	4.0	3.4	1.3	e1.9	1.0	1.2	e0.60
31	0.83	---	0.53	0.62	---	4.5	---	1.4	---	0.98	0.99	---
TOTAL	25.47	32.37	23.96	21.55	27.15	68.5	82.4	68.8	65.1	38.43	25.92	24.32
MEAN	0.82	1.08	0.77	0.70	0.97	2.21	2.75	2.22	2.17	1.24	0.84	0.81
MAX	1.2	2.2	1.2	1.0	2.4	5.8	9.1	10	7.9	2.5	1.2	1.5
MIN	0.74	0.88	0.53	0.52	0.57	1.2	1.3	1.3	1.3	0.95	0.71	0.57
CFSM	0.44	0.57	0.41	0.37	0.52	1.18	1.46	1.18	1.15	0.66	0.44	0.43
IN.	0.50	0.64	0.47	0.43	0.54	1.36	1.63	1.36	1.29	0.76	0.51	0.48

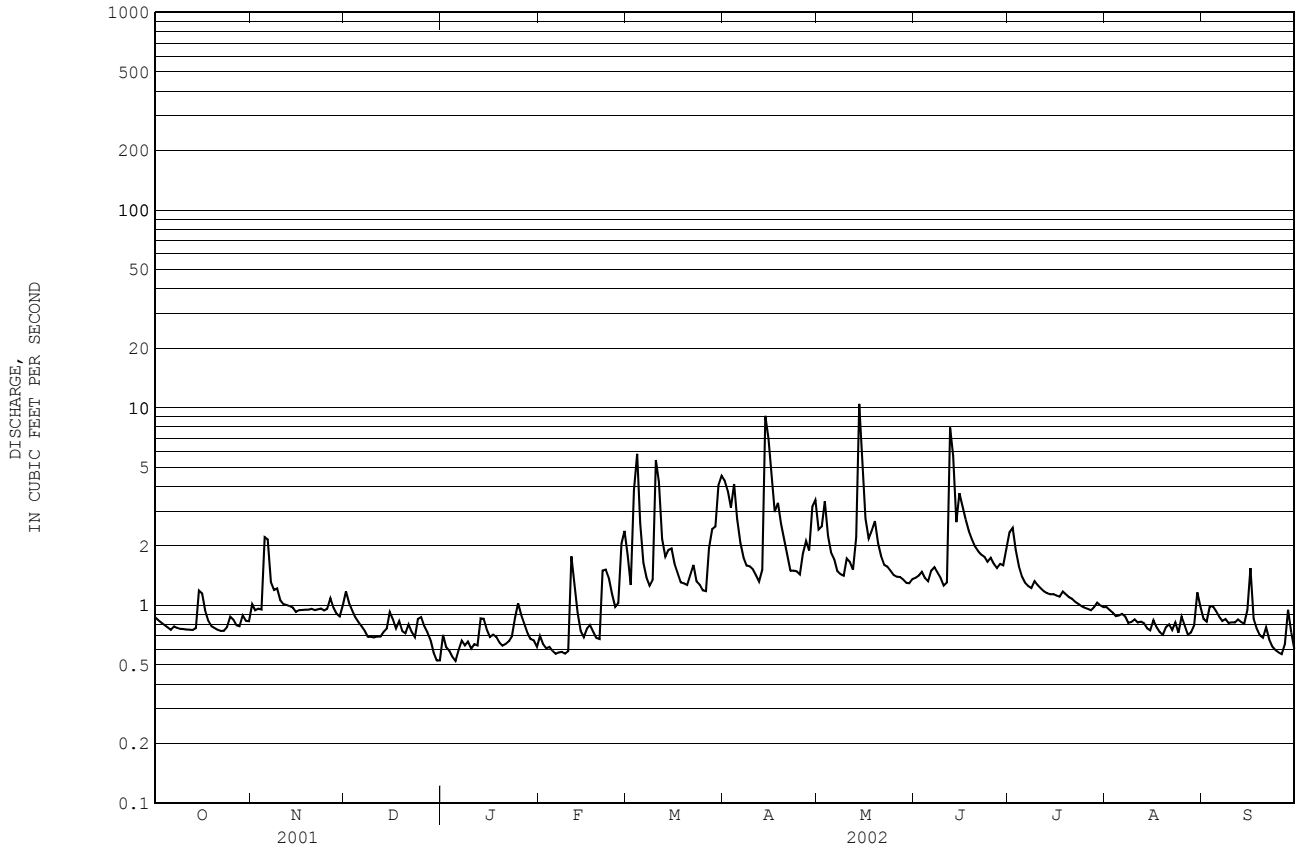
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MEAN	1.00	1.19	1.28	0.87	1.00	1.76	4.07	2.57	2.00	1.54	1.02	0.96
MAX	1.19	1.30	1.79	1.05	1.03	2.21	5.39	3.88	2.17	2.27	1.45	1.09
(WY)	2001	2001	2001	2001	2001	2002	2001	2000	2002	2000	2000	2000
MIN	0.82	1.08	0.77	0.70	0.97	1.31	2.75	1.60	1.70	1.11	0.78	0.81
(WY)	2002	2002	2002	2002	2002	2001	2002	2001	2001	2001	2001	2002

e Estimated

01056480 TOWNSEND BROOK NEAR AUBURN, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2000 - 2002	
ANNUAL TOTAL	534.68		503.97			
ANNUAL MEAN	1.46		1.38		1.49	
HIGHEST ANNUAL MEAN					1.60	2001
LOWEST ANNUAL MEAN					1.38	2002
HIGHEST DAILY MEAN	12	Apr 13	10	May 14	15	Apr 23 2000
LOWEST DAILY MEAN	0.53	Dec 30	0.52	Jan 5	0.52	Jan 5 2002
ANNUAL SEVEN-DAY MINIMUM	0.67	Dec 25	0.58	Dec 30	0.58	Dec 30 2001
MAXIMUM PEAK FLOW			15		37	Dec 18 2000
MAXIMUM PEAK STAGE			2.39		2.93	Dec 18 2000
INSTANTANEOUS LOW FLOW			0.43		0.43	Jan 8 2002
ANNUAL RUNOFF (CFSM)	0.78		0.73		0.79	
ANNUAL RUNOFF (INCHES)	10.58		9.97		10.77	
10 PERCENT EXCEEDS	2.1		2.4		2.4	
50 PERCENT EXCEEDS	1.0		0.98		1.1	
90 PERCENT EXCEEDS	0.76		0.67		0.74	



ANDROSCOGGIN RIVER BASIN

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, in East Auburn.

DRAINAGE AREA.---18.3 mi².

PERIOD OF RECORD.---Discharge: August 1999 to current year.

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 ft³/s, periods of ice effect, Feb. 2-3 and 11-12, periods of doubtful stage-discharge relation, Oct. 7-10 and Oct. 12 to Nov. 21, and periods of no gage-height record, Aug. 25-27, Aug. 30 to Sept. 1, and Sept. 5-12, which are poor. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 129 ft³/s, Apr. 24, 2001, gage height, 2.47 ft; minimum daily discharge, 0.06 ft³/s, Mar. 2, 2002.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 66 ft³/s, May 28, gage height, 1.93 ft; minimum daily discharge, 0.06 ft³/s, Mar. 2.

**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	4.4	e3.0	3.1	3.5	3.0	0.10	0.38	0.75	1.5	13	0.35	e0.18
2	4.4	e3.0	3.1	3.5	e2.9	0.06	0.26	0.87	0.50	14	0.38	0.17
3	4.3	e3.0	3.1	3.5	e2.7	0.24	0.38	1.1	4.1	14	0.39	0.18
4	4.3	e3.0	2.9	3.3	2.6	0.10	0.39	1.2	0.33	13	0.39	0.17
5	4.4	e3.1	3.0	3.3	2.5	0.08	0.36	1.1	0.33	12	0.39	e0.15
6	4.3	e3.0	3.1	3.3	2.6	0.08	0.35	1.2	0.49	11	0.29	e0.14
7	e3.0	e3.0	3.0	3.3	2.5	0.08	0.34	1.3	0.40	10	0.23	e0.14
8	e3.0	e3.0	3.0	3.3	2.7	0.08	0.34	1.3	0.52	9.4	0.24	e0.14
9	e3.0	e3.0	3.1	3.3	2.7	0.08	0.34	1.1	0.47	9.4	0.24	e0.14
10	e3.0	e3.0	3.0	3.3	2.7	0.15	0.34	1.3	0.49	8.7	0.26	e0.14
11	3.0	e3.0	3.1	3.3	e2.7	0.14	0.35	1.3	0.85	7.7	0.26	e0.14
12	e3.0	e3.0	3.1	3.3	e2.7	0.13	0.40	1.3	3.3	6.9	0.26	e0.14
13	e3.0	e3.0	3.1	3.2	2.7	0.08	0.53	1.5	0.79	6.5	0.26	0.13
14	e3.0	e3.1	3.1	3.3	2.5	0.08	0.97	2.0	0.72	6.2	0.25	0.14
15	e3.0	e3.1	3.1	3.3	2.6	0.08	1.3	2.0	1.5	3.4	0.26	0.20
16	e3.0	e3.1	3.0	3.3	2.6	0.09	1.1	2.0	1.3	0.45	0.28	0.36
17	e3.0	e3.1	2.9	3.3	2.6	0.13	0.69	2.1	0.98	0.40	0.26	0.16
18	e3.0	e3.0	2.9	3.3	2.5	0.13	0.74	2.2	0.78	0.43	0.25	0.15
19	e3.0	e3.0	2.9	3.3	2.6	0.14	0.74	2.5	0.46	0.41	1.0	0.15
20	e3.0	e3.0	3.3	3.1	2.7	0.13	0.78	2.5	0.34	0.39	2.0	0.16
21	e3.0	e3.0	3.3	3.1	2.7	0.17	0.69	12	0.70	0.41	0.81	0.16
22	e3.0	3.0	3.2	3.1	2.7	0.15	0.67	17	1.5	0.42	0.25	0.16
23	e3.0	3.0	3.1	3.1	2.7	0.14	0.66	17	1.5	0.45	0.22	0.21
24	e3.0	3.0	3.2	3.1	2.7	0.14	0.65	17	0.72	0.43	0.20	0.15
25	e3.0	3.0	3.3	3.1	2.7	0.12	0.63	17	0.49	0.44	e0.21	0.15
26	e3.0	3.1	3.3	3.1	2.7	0.12	0.80	15	2.4	0.44	e0.20	0.16
27	e3.0	3.1	3.3	2.9	2.0	0.20	0.72	14	2.3	0.44	e0.19	0.17
28	e3.0	3.1	3.3	3.0	0.54	0.15	0.78	12	8.1	0.45	0.17	0.21
29	e3.0	3.1	3.3	3.0	---	0.14	0.81	4.6	12	0.44	0.19	0.13
30	e3.0	3.1	3.4	3.0	---	0.21	0.74	7.1	11	0.40	e0.18	0.13
31	e3.0	---	3.4	2.9	---	0.28	---	4.8	---	0.35	e0.19	---
TOTAL	101.1	91.0	97.0	99.7	71.84	4.00	18.23	168.12	60.86	151.95	11.05	4.91
MEAN	3.26	3.03	3.13	3.22	2.57	0.13	0.61	5.42	2.03	4.90	0.36	0.16
MAX	4.4	3.1	3.4	3.5	3.0	0.28	1.3	17	12	14	2.0	0.36
MIN	3.0	3.0	2.9	2.9	0.54	0.06	0.26	0.75	0.33	0.35	0.17	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

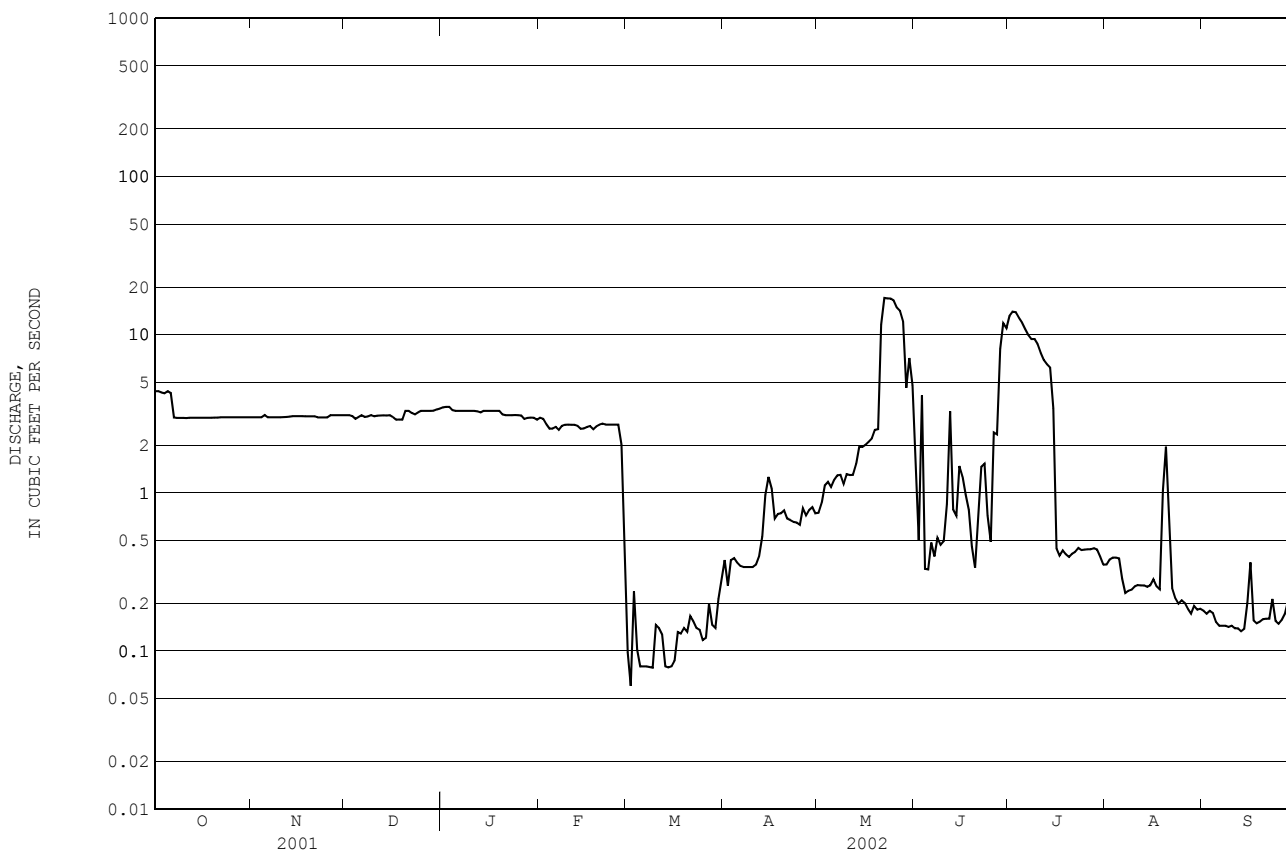
	1999	2000	2001	2002
MEAN	4.42	3.75	3.95	4.08
MAX	9.24	7.85	8.07	8.15
(WY)	2000	2000	2000	2000
MIN	0.76	0.36	0.64	0.88
(WY)	2001	2001	2001	2001

e Estimated

ANDROSCOGGIN RIVER BASIN

01056505 BOBBIN MILL BROOK NEAR AUBURN, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1999 - 2002	
ANNUAL TOTAL	4452.68	879.76		
ANNUAL MEAN	12.2	2.41	9.89	
HIGHEST ANNUAL MEAN			15.7	2000
LOWEST ANNUAL MEAN			2.41	2002
HIGHEST DAILY MEAN	125 Apr 24	17 May 22	125	Apr 24 2001
LOWEST DAILY MEAN	0.67 Feb 13	0.06 Mar 2	0.06	Mar 2 2002
ANNUAL SEVEN-DAY MINIMUM	0.73 Feb 11	0.09 Mar 4	0.09	Mar 4 2002
MAXIMUM PEAK FLOW		66 May 28	129	Apr 24 2001
MAXIMUM PEAK STAGE		1.93 May 28	2.47	Apr 24 2001
10 PERCENT EXCEEDS	43	3.5	18	
50 PERCENT EXCEEDS	3.8	2.4	3.0	
90 PERCENT EXCEEDS	0.84	0.15	0.34	



ANDROSCOGGIN RIVER BASIN

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.---Lat 44°18'12", long 70°32'22", Oxford County, Hydrologic Unit 01040002, on island 50 ft upstream from Snow Falls and 6 mi upstream from South Paris.

DRAINAGE AREA.---73.5 mi².

PERIOD OF RECORD.---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, Dec. 10 to Feb. 21, which is fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 9,340 ft³/s, Apr. 1, 1987, gage height, 12.22 ft, from rating curve extended above 5,500 ft³/s, on basis of slope-area measurement of peak flow; minimum discharge, 0.60 ft³/s, Sept. 17 and 21, 1995.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 4	0630	1,030	5.90	June 12	2315	1,330	6.45
Apr 14	1330	*1,740	*7.06				

Minimum discharge, 1.2 ft³/s, Sept. 13, gage height, 1.38 ft.

**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	11	13	123	e25	e40	141	535	309	132	126	14	2.4
2	8.7	14	123	e23	e42	117	623	310	104	142	15	2.4
3	7.1	14	85	e22	e39	189	619	445	87	103	15	2.4
4	6.6	14	65	e21	e36	333	899	302	68	76	13	2.6
5	5.7	48	56	e21	e34	230	543	225	62	57	11	2.6
6	4.9	137	51	e22	e32	170	376	187	95	45	9.4	2.3
7	6.3	84	47	e25	e31	143	294	163	93	39	8.4	2.0
8	9.9	58	42	e28	e30	118	247	144	71	34	7.1	1.8
9	4.7	48	40	e27	e28	107	236	127	59	34	6.0	1.7
10	5.4	43	e36	e28	e25	403	333	145	49	32	5.3	1.5
11	5.7	38	e33	e29	e38	460	345	128	45	26	4.8	1.4
12	5.4	32	e30	e29	e117	290	276	111	740	22	4.4	1.3
13	5.0	28	e31	e29	e97	214	265	132	951	19	4.2	1.3
14	4.7	26	e36	e31	e81	208	1320	611	412	17	3.9	1.3
15	5.7	25	e44	e31	e71	235	1060	614	275	17	3.6	1.4
16	11	25	e40	e30	e64	195	727	370	345	34	3.4	3.7
17	16	26	e37	e29	e59	168	469	270	280	27	4.0	5.5
18	19	25	e38	e28	e55	149	528	230	308	31	4.2	4.2
19	15	24	e41	e27	e50	136	399	238	210	32	4.0	3.1
20	13	23	e38	e27	e47	125	304	192	159	25	3.8	2.6
21	11	23	e37	e26	e61	130	237	166	123	22	3.6	2.3
22	11	22	e32	e25	107	135	200	144	99	19	3.3	2.2
23	10	20	e29	e25	119	114	180	125	93	28	3.2	2.1
24	12	20	e34	e27	105	108	162	110	105	61	2.9	2.0
25	15	20	e54	e43	90	96	146	97	81	33	3.0	1.9
26	19	40	e47	e50	83	92	177	86	71	23	2.9	1.8
27	19	51	e42	e48	116	105	190	80	116	19	2.7	1.9
28	16	49	e34	e45	180	130	165	70	142	18	2.4	7.1
29	14	46	e33	e43	---	143	208	63	110	18	2.3	10
30	14	54	e31	e41	---	226	265	62	80	17	2.8	6.3
31	12	---	e28	e40	---	344	---	82	---	17	2.7	---
TOTAL	323.8	1090	1437	945	1877	5754	12328	6338	5565	1213	176.3	85.1
MEAN	10.4	36.3	46.4	30.5	67.0	186	411	204	186	39.1	5.69	2.84
MAX	19	137	123	50	180	460	1320	614	951	142	15	10
MIN	4.7	13	28	21	25	92	146	62	45	17	2.3	1.3
CFSM	0.14	0.49	0.63	0.41	0.91	2.53	5.59	2.78	2.52	0.53	0.08	0.04
IN.	0.16	0.55	0.73	0.48	0.95	2.91	6.24	3.21	2.82	0.61	0.09	0.04

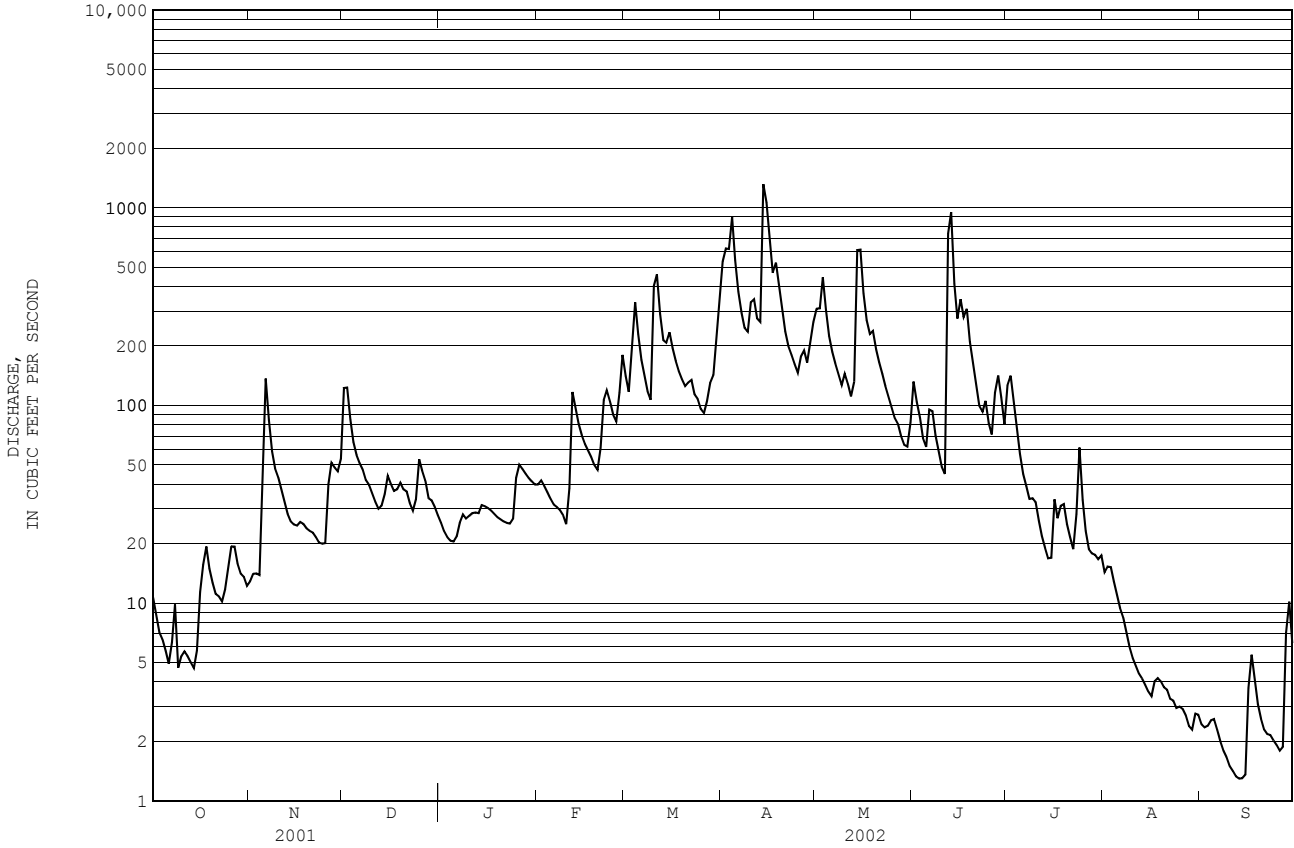
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	77.2	137	127	88.5	83.2	210	465	214	111	51.8	36.9	41.0
MAX	457	421	608	303	380	1133	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

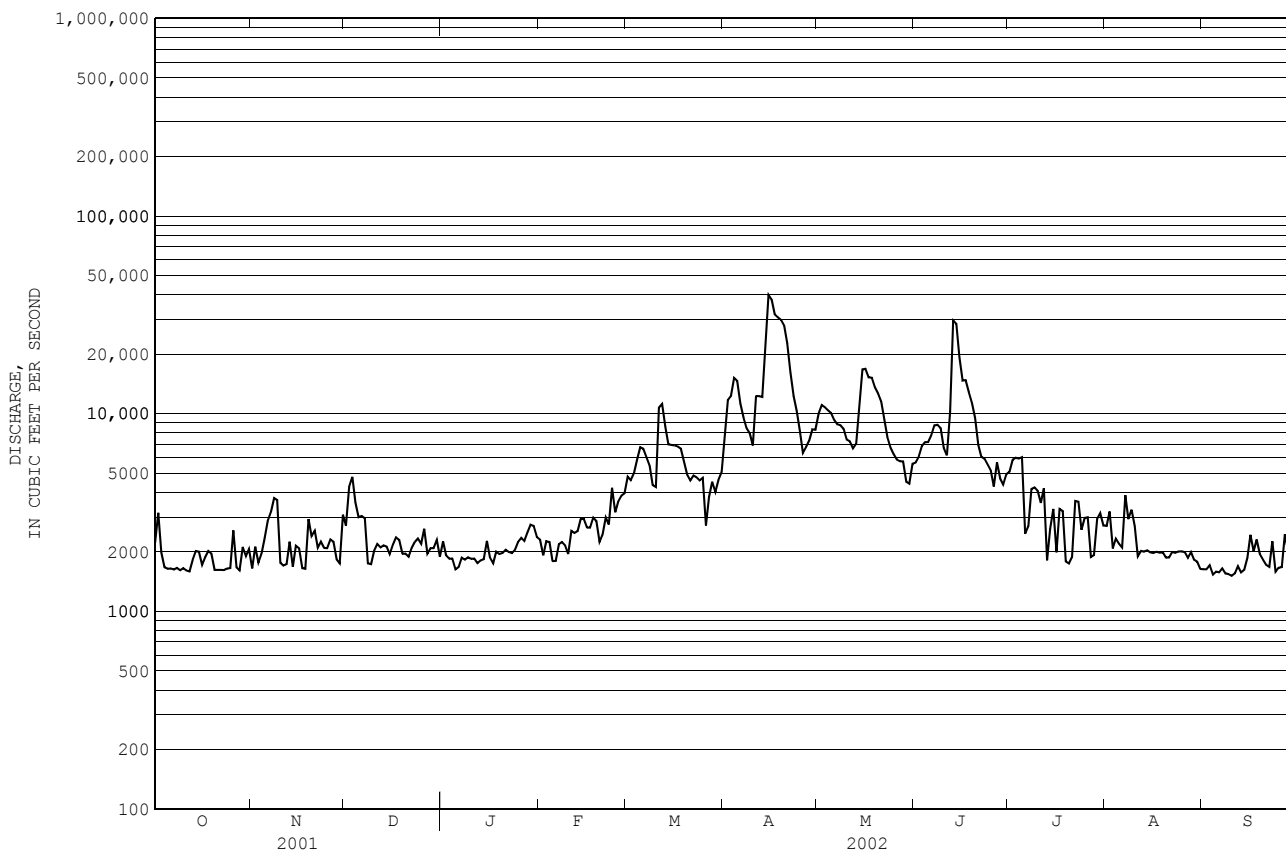
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1914 - 2002	
ANNUAL TOTAL	34826.6		37132.2		137	
ANNUAL MEAN	95.4		102		219	
HIGHEST ANNUAL MEAN					62.9	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	1540	Apr 23	1320	Apr 14	6760	Apr 1 1987
LOWEST DAILY MEAN	1.1	Sep 19	1.3	Sep 12	0.65	Sep 17 1995
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 14	1.4	Sep 9	0.69	Sep 15 1995
MAXIMUM PEAK FLOW			1740		9340	
MAXIMUM PEAK STAGE			7.06		Apr 1 1987	
INSTANTANEOUS LOW FLOW			1.2		Apr 1 1987	
ANNUAL RUNOFF (CFSM)	1.30		1.38		1.86	
ANNUAL RUNOFF (INCHES)	17.63		18.79		25.31	
10 PERCENT EXCEEDS	163		272		330	
50 PERCENT EXCEEDS	41		39		63	
90 PERCENT EXCEEDS	3.8		3.6		11	



ANDROSCOGGIN RIVER BASIN

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	1664290		1789120			
ANNUAL MEAN	4560		4902		6167	
HIGHEST ANNUAL MEAN					9828 1996	
LOWEST ANNUAL MEAN					3500 1941	
HIGHEST DAILY MEAN	41800	Apr 25	39900	Apr 15	114000	Mar 20 1936
LOWEST DAILY MEAN	1450	Sep 20	1510	Sep 10	340	Sep 28 1941
ANNUAL SEVEN-DAY MINIMUM	1610	Sep 14	1570	Sep 4	1320	Aug 29 1995
MAXIMUM PEAK FLOW			42000 Apr 15		135000 Mar 20 1936	
MAXIMUM PEAK STAGE			12.84 Apr 15		27.57 Mar 20 1936	
10 PERCENT EXCEEDS	7080		10700		13000	
50 PERCENT EXCEEDS	2980		2570		4180	
90 PERCENT EXCEEDS	1650		1680		1970	



ROYAL RIVER BASIN

01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft upstream from East Main Street bridge in Yarmouth.

DRAINAGE AREA.--141 mi².

PERIOD OF RECORD.--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, Dec. 21-24, Dec. 26 to Jan. 6, Feb. 8-14, and 21-26, and period of no gage-height record Jan. 7-13, 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 ft³/s, Mar. 13, 1977, gage height, 8.46 ft; minimum daily discharge, 5.7 ft³/s, July 23, 1980, caused by unusual regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 4	0400	1,590	3.45	May 14	2100	*1,810	*3.65

Minimum daily discharge, 19 ft³/s, Sept. 14.

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	30	35	100	e51	74	799	857	426	148	80	34	34
2	29	45	105	e46	77	433	950	365	137	146	32	30
3	27	45	80	e43	71	930	641	618	106	130	31	30
4	25	45	69	e41	67	1540	894	450	90	99	30	30
5	24	59	62	e39	64	950	670	312	84	82	30	30
6	24	163	59	e39	59	513	447	241	128	70	31	29
7	24	96	55	e43	56	341	348	204	188	63	29	25
8	23	63	52	e44	e54	276	298	180	128	59	26	23
9	23	64	50	e45	e52	255	268	158	99	60	25	21
10	24	59	47	e46	e51	572	250	181	85	60	24	20
11	24	53	45	e45	e174	785	219	185	81	57	24	20
12	26	47	44	e44	e256	462	193	152	359	52	24	20
13	26	44	42	e58	e234	331	192	203	962	49	24	20
14	26	40	45	91	e173	289	846	1460	546	45	24	19
15	29	39	70	101	128	283	1190	1470	358	44	24	21
16	26	39	100	86	108	278	1130	790	682	42	23	43
17	44	38	78	74	109	249	707	445	541	39	22	75
18	64	38	78	66	106	209	564	386	341	40	21	58
19	48	38	73	60	97	194	438	476	231	42	21	42
20	39	38	75	58	93	196	357	362	173	44	21	33
21	36	38	e88	55	e191	225	278	285	136	43	21	29
22	32	39	e83	53	e388	316	223	235	118	40	21	26
23	31	38	e73	51	e455	263	221	200	114	39	21	36
24	32	38	e96	57	e369	224	203	174	142	38	21	59
25	32	38	174	101	e275	210	187	151	126	35	21	55
26	32	43	e141	129	e258	202	318	134	99	35	23	43
27	32	55	e108	127	693	578	473	124	89	34	23	36
28	30	59	e83	114	1200	855	350	117	82	35	21	70
29	31	57	e72	103	---	705	460	107	88	37	22	102
30	27	64	e64	94	---	727	561	99	84	36	31	64
31	26	---	e57	84	---	922	---	105	---	35	37	---
TOTAL	946	1557	2368	2088	5932	15112	14733	10795	6545	1710	782	1143
MEAN	30.5	51.9	76.4	67.4	212	487	491	348	218	55.2	25.2	38.1
MAX	64	163	174	129	1200	1540	1190	1470	962	146	37	102
MIN	23	35	42	39	51	194	187	99	81	34	21	19
CFSM	0.22	0.37	0.54	0.48	1.50	3.46	3.48	2.47	1.55	0.39	0.18	0.27
IN.	0.25	0.41	0.62	0.55	1.57	3.99	3.89	2.85	1.73	0.45	0.21	0.30

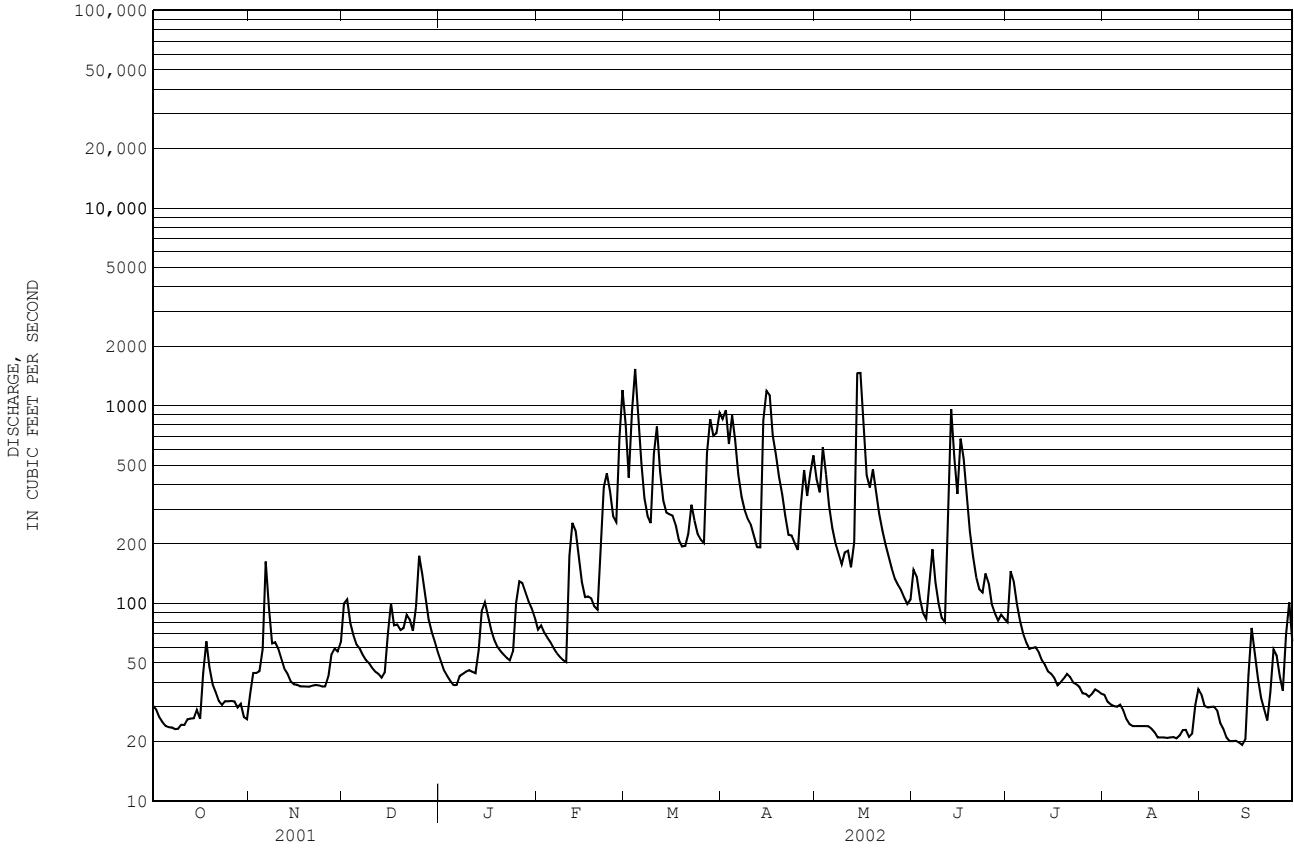
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2002, BY WATER YEAR (WY)

MEAN	143	303	300	227	237	555	741	318	185	91.7	74.0	86.0
MAX	682	851	1210	704	658	1603	1372	1085	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1950 - 2002	
ANNUAL TOTAL	64870		63711		271	
ANNUAL MEAN	178		175		480	
HIGHEST ANNUAL MEAN					132	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	2480	Apr 13	1540	Mar 4	9980	Mar 13 1977
LOWEST DAILY MEAN	19	Sep 14	19	Sep 14	5.7	Jul 23 1980
ANNUAL SEVEN-DAY MINIMUM	20	Sep 14	20	Sep 9	17	Sep 24 1965
MAXIMUM PEAK FLOW			1810	May 14	11500	Mar 13 1977
MAXIMUM PEAK STAGE			3.65	May 14	8.46	Mar 13 1977
ANNUAL RUNOFF (CFSM)	1.26		1.24		1.92	
ANNUAL RUNOFF (INCHES)	17.11		16.81		26.15	
10 PERCENT EXCEEDS	414		461		635	
50 PERCENT EXCEEDS	69		70		120	
90 PERCENT EXCEEDS	26		25		42	



PRESUMPSCOT RIVER BASIN

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 Highways 11 and 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 mi², furnished by Maine Department of Transportation.

PERIOD OF RECORD.--Discharge: October 1995 to current year.

REVISED RECORDS.--WDR ME-99-1: Drainage area.

GAGES.--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, Jan. 24, Feb. 1, 11-12, and period of doubtful stage-discharge relation, May 2-3, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130 ft³/s, Sept. 17, 1999, gage height, 7.86 ft; minimum discharge, 0.01 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	1030	*15	*5.00	No other peak greater than base discharge.			

Minimum discharge, 0.01 ft³/s, Aug. 19, 21, 27-28, Sept. 10 and 12-13.

**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	0.05	0.08	0.27	0.11	e0.25	1.0	5.4	2.8	1.3	0.53	0.11	0.04
2	0.05	0.08	0.24	0.10	0.21	0.87	4.6	e3.1	1.1	0.51	0.12	0.03
3	0.04	0.06	0.20	0.09	0.17	2.6	3.9	e3.6	0.93	0.47	0.09	0.06
4	0.03	0.06	0.19	0.08	0.17	2.8	3.9	2.8	0.82	0.42	0.07	0.05
5	0.03	0.41	0.18	0.07	0.14	2.0	3.1	2.3	0.78	0.38	0.07	0.04
6	0.03	0.36	0.18	0.10	0.11	1.5	2.7	2.0	1.2	0.33	0.07	0.03
7	0.03	0.29	0.17	0.11	0.11	1.3	2.3	1.8	1.3	0.30	0.06	0.02
8	0.03	0.24	0.15	0.15	0.11	1.2	2.0	1.6	1.1	0.24	0.05	0.02
9	0.03	0.29	0.15	0.15	0.11	1.2	1.9	1.4	0.90	0.29	0.05	0.01
10	0.03	0.18	0.14	0.16	0.12	3.0	1.8	1.4	0.76	0.22	0.04	0.01
11	0.03	0.16	0.12	0.15	e0.74	2.7	1.6	1.2	0.78	0.17	0.04	0.01
12	0.03	0.13	0.11	0.12	e0.64	2.1	1.5	1.2	2.1	0.15	0.04	0.01
13	0.03	0.11	0.13	0.23	0.52	1.8	1.9	2.6	2.5	0.13	0.03	0.01
14	0.03	0.11	0.14	0.29	0.43	1.7	6.9	12	1.9	0.11	0.03	0.01
15	0.07	0.10	0.26	0.28	0.35	1.7	7.5	6.8	2.0	0.13	0.02	0.05
16	0.05	0.10	0.25	0.23	0.38	1.5	5.7	4.2	2.7	0.13	0.02	0.34
17	0.14	0.09	0.24	0.19	0.38	1.4	4.1	3.5	2.1	0.10	0.02	0.15
18	0.06	0.09	0.26	0.17	0.34	1.3	3.4	3.7	1.6	0.37	0.01	0.10
19	0.05	0.08	0.25	0.15	0.32	1.2	2.9	3.5	1.3	0.24	0.01	0.07
20	0.05	0.07	0.25	0.12	0.31	1.2	2.5	2.8	1.1	0.21	0.02	0.06
21	0.05	0.07	0.28	0.11	1.0	1.4	2.1	2.4	0.92	0.16	0.01	0.05
22	0.05	0.06	0.26	0.13	1.1	1.5	1.9	2.1	0.84	0.12	0.01	0.05
23	0.05	0.06	0.20	0.13	1.0	1.2	1.9	1.9	0.92	0.16	0.03	0.11
24	0.09	0.06	0.26	e0.17	0.81	1.2	1.7	1.8	1.0	0.15	0.03	0.06
25	0.09	0.07	0.30	0.30	0.69	1.1	1.6	1.6	0.86	0.11	0.04	0.05
26	0.05	0.12	0.28	0.31	0.72	1.1	2.4	1.5	0.73	0.10	0.02	0.05
27	0.05	0.10	0.22	0.29	1.0	2.4	2.4	1.4	0.61	0.11	0.01	0.09
28	0.05	0.09	0.19	0.28	1.3	3.2	2.4	1.2	0.56	0.18	0.01	0.56
29	0.05	0.12	0.17	0.26	---	3.2	3.5	1.1	0.62	0.26	0.05	0.35
30	0.05	0.18	0.14	0.24	---	4.6	3.6	1.1	0.58	0.18	0.12	0.26
31	0.04	---	0.13	0.23	---	4.3	---	1.2	---	0.12	0.05	---
TOTAL	1.51	4.02	6.31	5.50	13.53	59.27	93.1	81.6	35.91	7.08	1.35	2.75
MEAN	0.049	0.13	0.20	0.18	0.48	1.91	3.10	2.63	1.20	0.23	0.044	0.092
MAX	0.14	0.41	0.30	0.31	1.3	4.6	7.5	12	2.7	0.53	0.12	0.56
MIN	0.03	0.06	0.11	0.07	0.11	0.87	1.5	1.1	0.56	0.10	0.01	0.01
CFSM	0.06	0.17	0.25	0.22	0.60	2.36	3.83	3.25	1.48	0.28	0.05	0.11
IN.	0.07	0.18	0.29	0.25	0.62	2.72	4.28	3.75	1.65	0.33	0.06	0.13

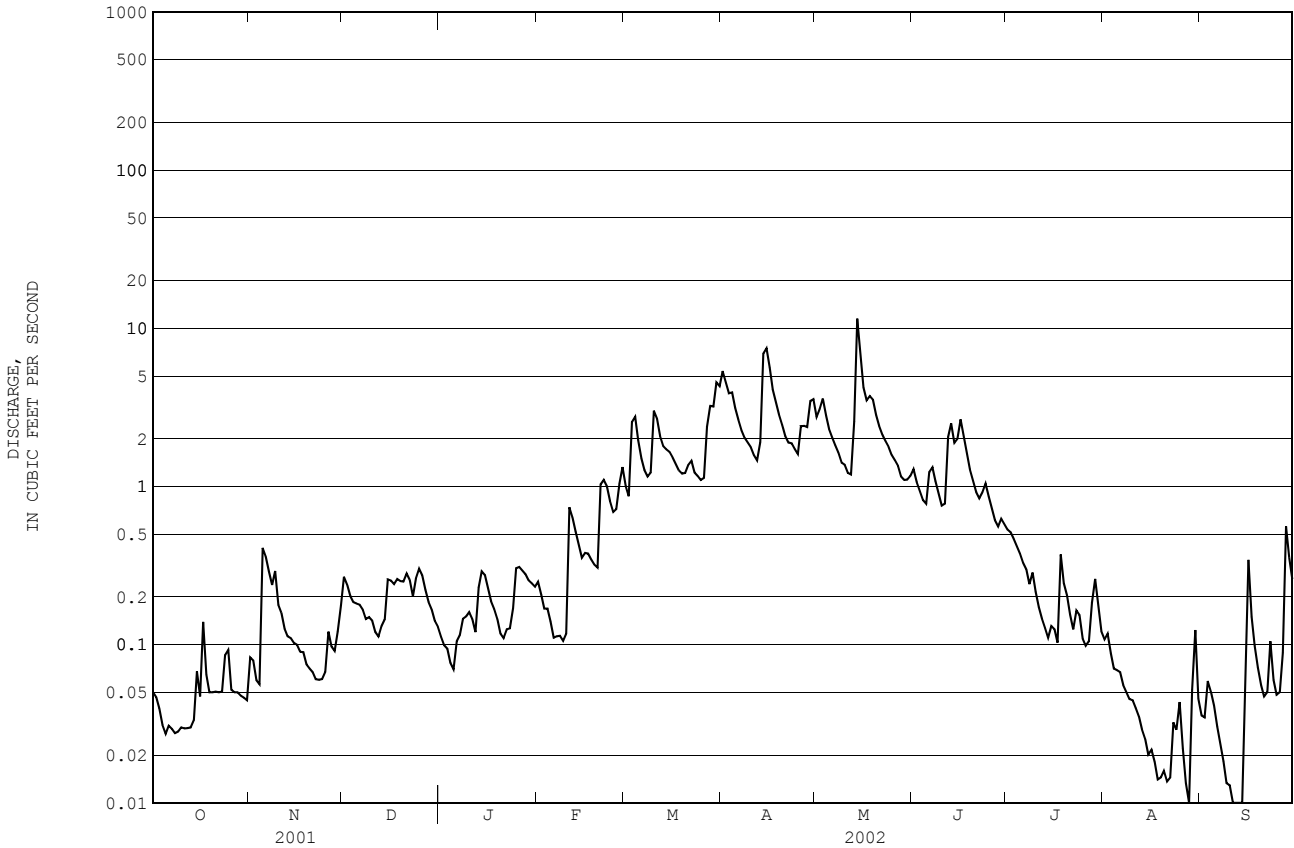
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002
MEAN	1.64	1.59	1.58	1.44	1.58	4.14	4.87
MAX	4.86	3.03	4.72	2.41	2.86	8.23	7.72
(WY)	1997	1996	1997	1996	1996	1999	2001
MIN	0.049	0.13	0.20	0.18	0.48	1.42	2.80
(WY)	2002	2002	2002	2002	2002	2001	1999

e Estimated

01063310 STONY BROOK AT EAST SEBAGO, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1996 - 2002	
ANNUAL TOTAL	414.11		311.93			
ANNUAL MEAN	1.13		0.85		1.87	
HIGHEST ANNUAL MEAN					2.38 1999	
LOWEST ANNUAL MEAN					0.85 2002	
HIGHEST DAILY MEAN	16	Apr 13	12	May 14	66	Sep 17 1999
LOWEST DAILY MEAN	0.01	Sep 12	0.01	Aug 18	0.01	Sep 12 2001
ANNUAL SEVEN-DAY MINIMUM	0.01	Sep 12	0.01	Sep 8	0.01	Sep 12 2001
MAXIMUM PEAK FLOW			15		130 Sep 17 1999	
MAXIMUM PEAK STAGE			5.00		7.86 Sep 17 1999	
INSTANTANEOUS LOW FLOW			0.01		0.01 Sep 18 2001	
ANNUAL RUNOFF (CFSM)	1.40		1.06		2.31	
ANNUAL RUNOFF (INCHES)	19.02		14.33		31.41	
10 PERCENT EXCEEDS	2.8		2.5		4.2	
50 PERCENT EXCEEDS	0.45		0.24		0.99	
90 PERCENT EXCEEDS	0.04		0.04		0.12	



PRESUMPSCOT RIVER BASIN

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, 0.2 miles west of State Route 35.

DRAINAGE AREA.--440 mi².

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.

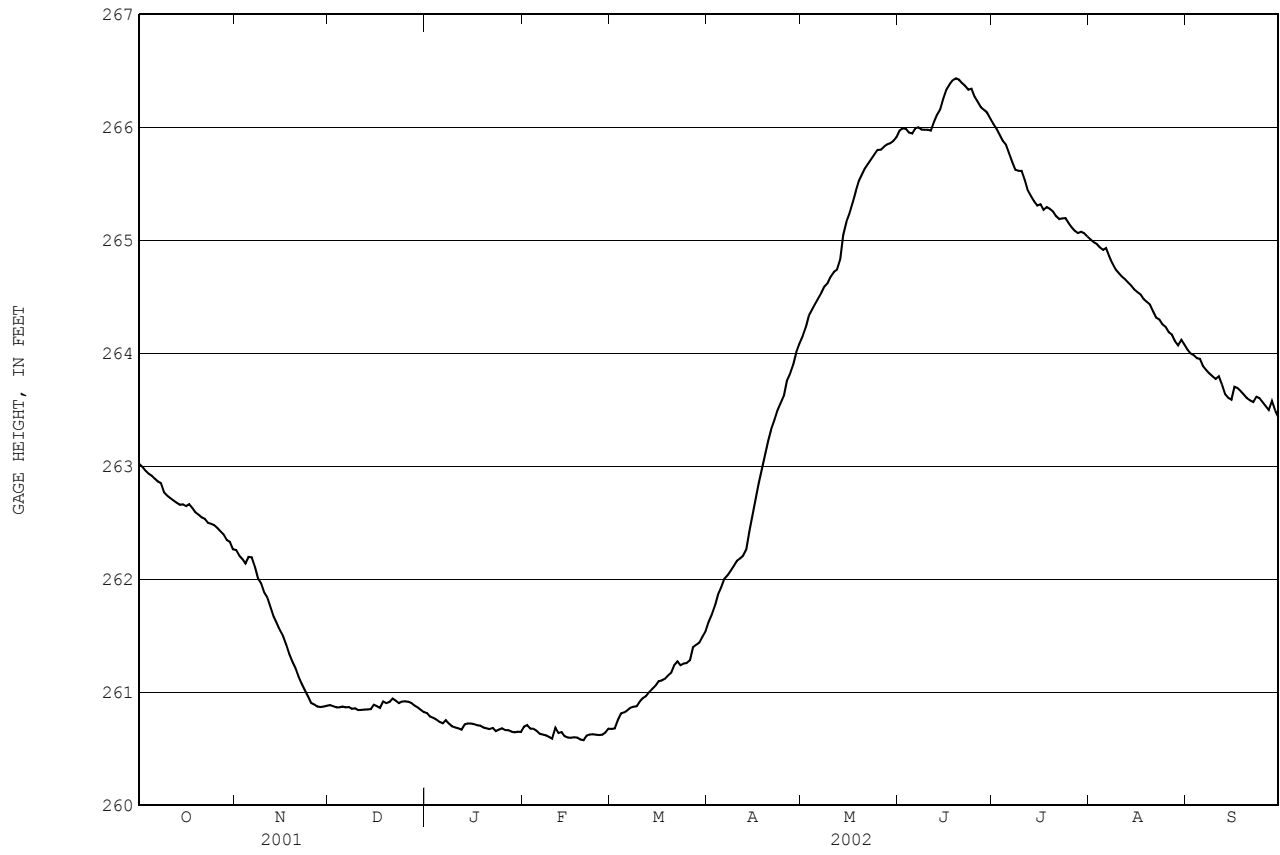
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 266.46 ft, June 19, 2002; minimum elevation, 260.56 ft, Feb. 10 and 20, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 266.46 ft, June 19; minimum elevation, 260.56 ft, Feb. 10 and 20.

**ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263.02	262.26	260.89	260.81	260.69	260.67	261.62	264.15	265.97	266.03	265.01	264.03
2	263.00	262.21	260.88	260.78	260.71	260.68	261.69	264.23	265.99	265.99	264.99	264.00
3	262.96	262.18	260.87	260.77	260.68	260.75	261.76	264.33	265.99	265.93	264.97	263.98
4	262.93	262.14	260.87	260.76	260.68	260.81	261.87	264.39	265.95	265.88	264.94	263.96
5	262.92	262.20	260.87	260.74	260.66	260.82	261.93	264.44	265.95	265.85	264.92	263.95
6	262.89	262.19	260.87	260.72	260.63	260.84	262.00	264.49	265.99	265.77	264.93	263.89
7	262.86	262.11	260.87	260.75	260.62	260.86	262.03	264.54	266.00	265.69	264.86	263.85
8	262.85	262.01	260.85	260.72	260.62	260.87	262.07	264.59	265.98	265.63	264.80	263.82
9	262.77	261.96	260.86	260.70	260.60	260.88	262.12	264.62	265.98	265.62	264.74	263.80
10	262.74	261.88	260.84	260.69	260.59	260.92	262.16	264.68	265.98	265.62	264.71	263.77
11	262.72	261.84	260.84	260.68	260.68	260.95	262.18	264.72	265.97	265.53	264.68	263.80
12	262.70	261.75	260.85	260.67	260.64	260.97	262.21	264.74	266.05	265.44	264.66	263.73
13	262.68	261.67	260.85	260.71	260.65	261.00	262.26	264.83	266.11	265.39	264.63	263.64
14	262.66	261.61	260.85	260.72	260.61	261.03	262.42	265.05	266.16	265.35	264.60	263.61
15	262.66	261.55	260.89	260.72	260.60	261.06	262.57	265.16	266.26	265.31	264.57	263.59
16	262.65	261.50	260.88	260.72	260.60	261.10	262.71	265.24	266.34	265.32	264.54	263.70
17	262.66	261.42	260.86	260.71	260.60	261.10	262.85	265.33	266.38	265.27	264.52	263.69
18	262.63	261.34	260.92	260.70	260.60	261.12	262.99	265.44	266.42	265.29	264.48	263.67
19	262.59	261.27	260.90	260.69	260.58	261.15	263.10	265.53	266.43	265.28	264.46	263.64
20	262.57	261.21	260.91	260.68	260.58	261.17	263.23	265.59	266.42	265.26	264.43	263.60
21	262.55	261.13	260.94	260.67	260.62	261.24	263.33	265.64	266.39	265.21	264.37	263.58
22	262.53	261.07	260.93	260.68	260.62	261.27	263.41	265.68	266.37	265.19	264.32	263.57
23	262.50	261.02	260.90	260.66	260.63	261.24	263.50	265.72	266.33	265.19	264.30	263.62
24	262.49	260.96	260.92	260.67	260.62	261.25	263.56	265.76	266.34	265.20	264.26	263.60
25	262.48	260.90	260.92	260.68	260.62	261.26	263.62	265.80	266.27	265.15	264.23	263.57
26	262.45	260.89	260.92	260.66	260.62	261.28	263.76	265.80	266.23	265.12	264.19	263.53
27	262.42	260.87	260.90	260.66	260.64	261.40	263.82	265.83	266.18	265.08	264.17	263.50
28	262.40	260.87	260.88	260.65	260.68	261.42	263.90	265.85	266.15	265.06	264.11	263.58
29	262.35	260.87	260.87	260.64	---	261.44	264.01	265.86	266.13	265.08	264.07	263.49
30	262.33	260.88	260.84	260.65	---	261.49	264.08	265.88	266.08	265.06	264.12	263.44
31	262.27	---	260.82	260.65	---	261.54	---	265.91	---	265.04	264.08	---
MEAN	262.65	261.53	260.88	260.70	260.63	261.08	262.76	265.16	266.16	265.41	264.54	263.71
MAX	263.02	262.26	260.94	260.81	260.71	261.54	264.08	265.91	266.43	266.03	265.01	264.03
MIN	262.27	260.87	260.82	260.64	260.58	260.67	261.62	264.15	265.95	265.04	264.07	263.44

01063995 SEBAGO LAKE NEAR NORTH WINDHAM, ME--Continued



PRESUMPCOT RIVER BASIN

01064118 PRESUMPCOT RIVER AT WESTBROOK, ME

LOCATION.--Lat 43°41'13", long 70°20'49", Cumberland County, Hydrologic Unit 01060001, on right bank, 0.4 miles downstream from Cumberland Street Bridge in Westbrook, at SAPPI Fine Paper bridge.

DRAINAGE AREA.--577 mi².

PERIOD OF RECORD.--Gage height: November 1998 to current year.

Discharge: October 1975 to September 1995. Prior to October 1984, published as "near West Falmouth".

GAGES.--Water-stage recorder. Datum of gage 13.42 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No gage-height record, July 10-16. Gage height affected by regulation of Sebago Lake and many small power plants upstream. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage-height, 18.32 ft, Sept. 17, 1999; minimum gage-height, 1.20 ft, Sept. 5, 2002.

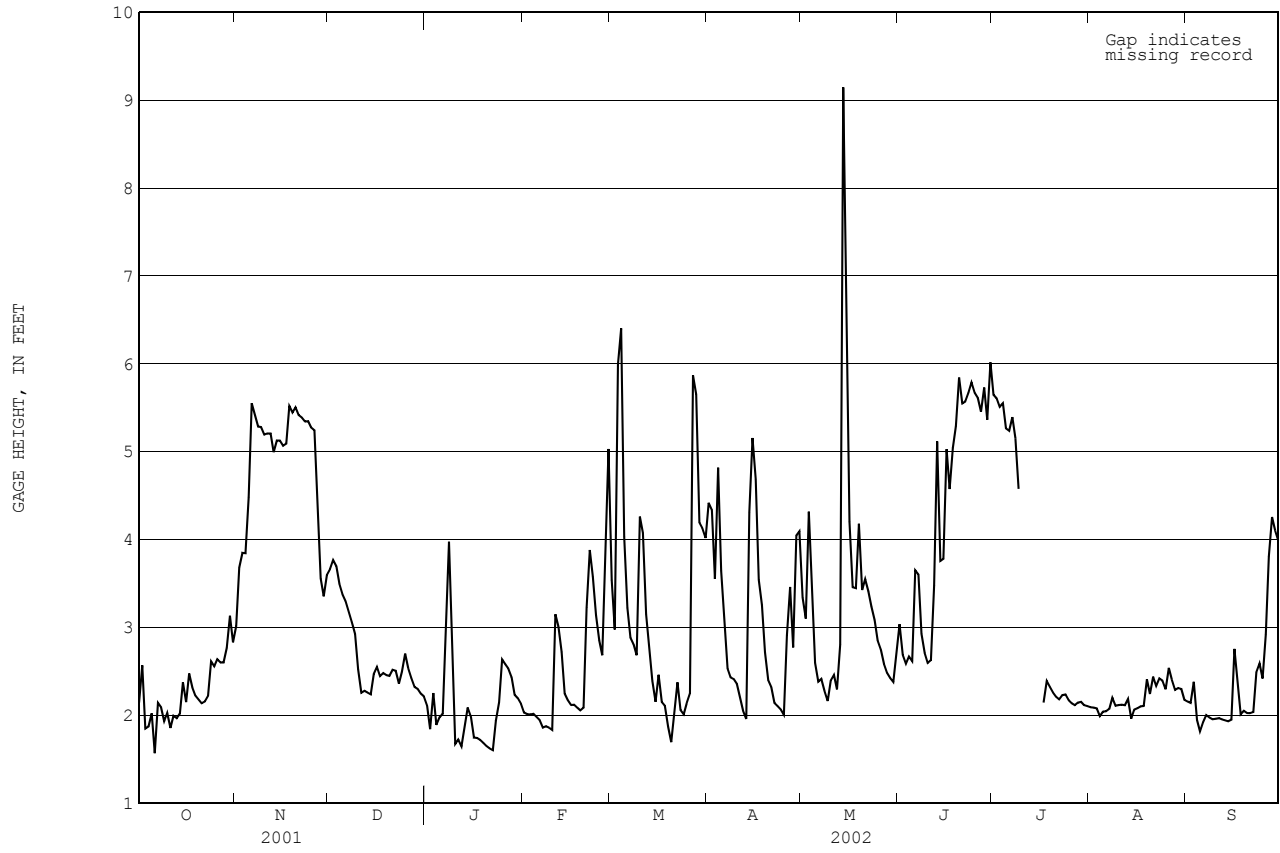
EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Oct. 22, 1996 reached a stage of 34.10 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.80 ft, May 5; minimum gage height, 1.20 ft, Sept. 5.

**GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.14	3.02	3.66	2.11	2.03	3.54	4.42	3.34	3.04	5.65	2.09	2.16
2	2.57	3.68	3.77	1.84	2.01	2.98	4.34	3.10	2.69	5.61	2.09	2.14
3	1.85	3.85	3.70	2.25	2.01	5.99	3.55	4.32	2.59	5.51	2.08	2.38
4	1.87	3.84	3.50	1.89	2.02	6.40	4.82	3.33	2.67	5.55	1.99	1.95
5	2.02	4.48	3.37	1.98	1.98	4.03	3.65	2.60	2.62	5.27	2.04	1.81
6	1.57	5.55	3.30	2.02	1.94	3.22	3.02	2.38	3.65	5.24	2.05	1.92
7	2.14	5.42	3.18	2.78	1.86	2.89	2.53	2.41	3.60	5.39	2.07	2.00
8	2.09	5.29	3.06	3.98	1.88	2.81	2.43	2.28	2.93	5.16	2.20	1.97
9	1.93	5.28	2.93	2.59	1.86	2.68	2.41	2.16	2.71	4.58	2.11	1.95
10	2.03	5.19	2.52	1.67	1.83	4.26	2.36	2.40	2.60	---	2.12	1.96
11	1.86	5.21	2.26	1.73	3.15	4.08	2.20	2.46	2.63	---	2.12	1.97
12	1.99	5.21	2.28	1.65	3.01	3.15	2.05	2.29	3.47	---	2.12	1.95
13	1.97	4.99	2.26	1.88	2.72	2.78	1.96	2.81	5.12	---	2.18	1.94
14	2.02	5.13	2.24	2.09	2.25	2.39	4.31	9.15	3.76	---	1.96	1.93
15	2.37	5.13	2.47	1.98	2.17	2.15	5.16	6.85	3.78	---	2.06	1.95
16	2.15	5.07	2.55	1.75	2.12	2.46	4.69	4.20	5.03	---	2.08	2.76
17	2.48	5.09	2.45	1.74	2.12	2.15	3.54	3.46	4.57	2.14	2.10	2.37
18	2.32	5.52	2.48	1.72	2.09	2.11	3.25	3.45	5.04	2.39	2.11	2.01
19	2.22	5.45	2.46	1.69	2.06	1.87	2.72	4.18	5.29	2.33	2.41	2.05
20	2.18	5.51	2.45	1.65	2.09	1.69	2.40	3.43	5.85	2.26	2.24	2.03
21	2.14	5.42	2.52	1.62	3.22	2.05	2.33	3.55	5.55	2.21	2.44	2.02
22	2.16	5.39	2.51	1.60	3.88	2.37	2.14	3.41	5.57	2.18	2.33	2.04
23	2.22	5.34	2.36	1.94	3.58	2.06	2.10	3.24	5.67	2.23	2.42	2.49
24	2.62	5.35	2.50	2.15	3.14	2.01	2.07	3.09	5.79	2.24	2.40	2.59
25	2.56	5.27	2.70	2.64	2.85	2.14	2.01	2.85	5.67	2.17	2.30	2.42
26	2.64	5.24	2.54	2.58	2.68	2.25	2.91	2.75	5.61	2.14	2.54	2.92
27	2.60	4.47	2.42	2.53	3.76	5.87	3.46	2.58	5.46	2.11	2.40	3.81
28	2.60	3.56	2.32	2.44	5.03	5.65	2.77	2.48	5.73	2.14	2.29	4.26
29	2.77	3.35	2.30	2.23	---	4.19	4.05	2.42	5.36	2.15	2.31	4.10
30	3.13	3.60	2.25	2.20	---	4.13	4.09	2.38	6.02	2.11	2.30	3.99
31	2.83	---	2.21	2.13	---	4.02	---	2.74	---	2.10	2.18	---
MEAN	2.26	4.83	2.69	2.10	2.55	3.24	3.12	3.29	4.34	---	2.20	2.39
MAX	3.13	5.55	3.77	3.98	5.03	6.40	5.16	9.15	6.02	---	2.54	4.26
MIN	1.57	3.02	2.21	1.60	1.83	1.69	1.96	2.16	2.59	---	1.96	1.81

01064118 PRESUMPCOT RIVER AT WESTBROOK, ME--Continued



SACO RIVER BASIN

01064500 SACO RIVER NEAR CONWAY, NH

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

DRAINAGE AREA.---385 mi².

PERIOD OF RECORD.---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, Dec. 27, Dec. 31 to Jan. 24, and Feb. 1-10, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 47,200 ft³/s, Mar. 27, 1953, gage height, 17.20 ft; maximum gage height, 19.03 ft, Mar. 7, 1979 (backwater from ice); minimum discharge, 40 ft³/s, Mar. 16, 1932, gage height, 1.61 ft.

EXTREMES FOR CURRENT YEAR.---Peak discharges greater than base discharge of 8,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 14	1130	*22,700	*11.47	No other peak greater than base discharge.			

Minimum discharge, 72 ft³/s, Sept. 12, gage height, 1.79 ft.

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	258	214	1450	e195	e202	492	1730	1350	1100	458	190	98
2	224	266	1090	e170	e192	468	1950	1460	855	427	233	94
3	202	261	760	e161	e179	651	2050	1800	729	401	179	95
4	186	231	609	e155	e230	1290	2890	1670	637	382	159	100
5	174	269	535	e152	e204	892	1940	1460	596	357	148	99
6	165	403	513	e188	e184	751	1540	1410	1170	337	139	94
7	164	347	466	e195	e178	693	1330	1550	950	333	142	90
8	163	324	415	e189	e172	594	1230	1580	704	323	193	86
9	159	300	383	e182	e167	552	1190	1270	604	339	153	85
10	155	302	356	e197	e162	2340	2560	1250	539	355	139	81
11	158	279	340	e208	413	1990	2520	1230	520	292	131	77
12	174	254	325	e203	576	1300	2010	1030	3740	269	126	74
13	171	235	325	e202	559	1100	2920	1210	3520	251	120	102
14	159	226	354	e198	382	1030	14900	2740	1670	237	115	94
15	168	225	431	e193	393	1080	8080	2600	1290	245	110	102
16	243	267	378	e190	374	958	5880	2060	1710	258	108	237
17	256	468	327	e169	354	893	5840	2880	1380	261	105	309
18	298	349	351	e185	332	836	6090	2510	1150	312	101	186
19	242	295	339	e168	305	782	4110	2030	988	341	101	144
20	207	289	313	e167	314	737	3200	1640	870	265	103	127
21	192	303	306	e176	361	727	2250	1420	776	233	101	117
22	190	266	271	e178	476	686	1760	1290	715	212	100	112
23	193	243	236	e170	474	613	1540	1200	792	199	101	109
24	202	233	304	e196	410	610	1390	1190	934	197	103	104
25	260	226	318	283	401	546	1260	1200	764	189	101	100
26	264	390	274	278	384	546	1280	1040	643	176	99	98
27	258	522	e245	253	474	575	1190	999	640	169	95	101
28	223	400	221	240	645	617	1110	940	601	170	91	267
29	204	380	238	233	---	589	1250	879	541	172	92	320
30	192	495	236	253	---	810	1280	841	488	167	104	199
31	186	---	e210	247	---	1270	---	878	---	172	103	---
TOTAL	6290	9262	12919	6174	9497	27018	88270	46607	31616	8499	3885	3901
MEAN	203	309	417	199	339	872	2942	1503	1054	274	125	130
MAX	298	522	1450	283	645	2340	14900	2880	3740	458	233	320
MIN	155	214	210	152	162	468	1110	841	488	167	91	74
CFSM	0.53	0.80	1.08	0.52	0.88	2.26	7.64	3.91	2.74	0.71	0.33	0.34
IN.	0.61	0.89	1.25	0.60	0.92	2.61	8.53	4.50	3.05	0.82	0.38	0.38

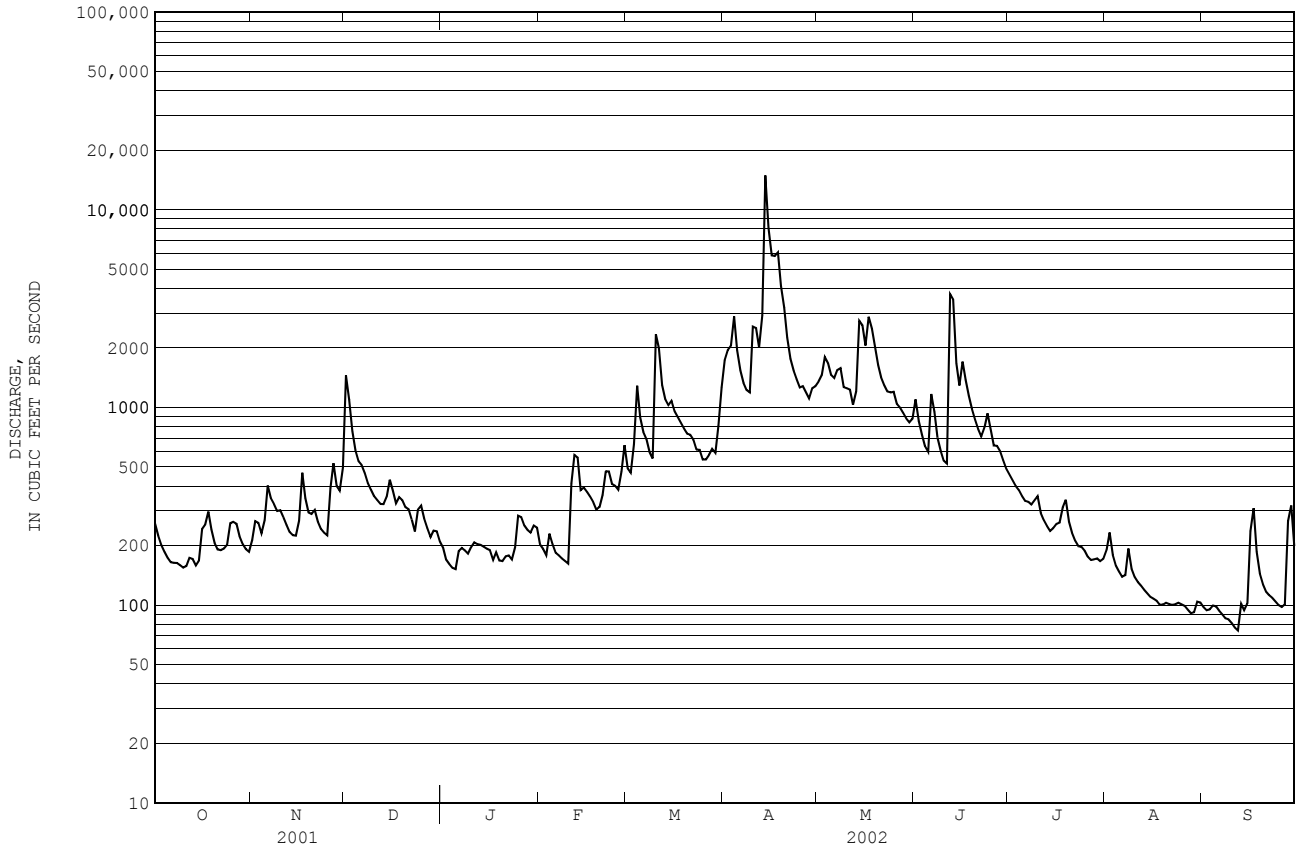
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2002, BY WATER YEAR (WY)

MEAN	639	948	760	569	508	968	2630	2221	847	438	352	388
MAX	2369	2493	2656	1887	3170	5986	4564	4609	3644	2043	1685	1794
(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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1904 - 2002	
ANNUAL TOTAL	229476		254031		940	
ANNUAL MEAN	629		696		1463	
HIGHEST ANNUAL MEAN					489	
LOWEST ANNUAL MEAN					33900	
HIGHEST DAILY MEAN	9550	Apr 24	14900	Apr 14	74	Mar 19 1936
LOWEST DAILY MEAN	79	Sep 18	74	Sep 12	66	Aug 4 1959
ANNUAL SEVEN-DAY MINIMUM	81	Sep 14	84	Sep 6	74	Aug 3 1959
MAXIMUM PEAK FLOW			22700		47200	
MAXIMUM PEAK STAGE			11.47		19.03	
INSTANTANEOUS LOW FLOW			72		40	
ANNUAL RUNOFF (CFSM)	1.63		1.81		2.44	
ANNUAL RUNOFF (INCHES)	22.17		24.55		33.16	
10 PERCENT EXCEEDS	1490		1540		2170	
50 PERCENT EXCEEDS	286		312		460	
90 PERCENT EXCEEDS	115		110		184	



SACO RIVER BASIN

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 Route 117 bridge at Cornish and 0.4 mi downstream from Ossipee River.

DRAINAGE AREA.---1,293 mi².

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.---No estimated daily discharges. Records good. 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 ft³. Satellite gage-height telemeter at station. Gage is operated in conjunction with a co-located precipitation gage. Records for precipitation are located at the end of the report.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 46,600 ft³/s, Mar. 21-22, 1936, gage height, 21.90 ft (from floodmarks); minimum daily discharge, 244 ft³/s, Oct. 7, 1964.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 11,700 ft³/s, Apr. 18, gage height, 9.00 ft; minimum daily discharge, 248 ft³/s, Sept. 13.

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

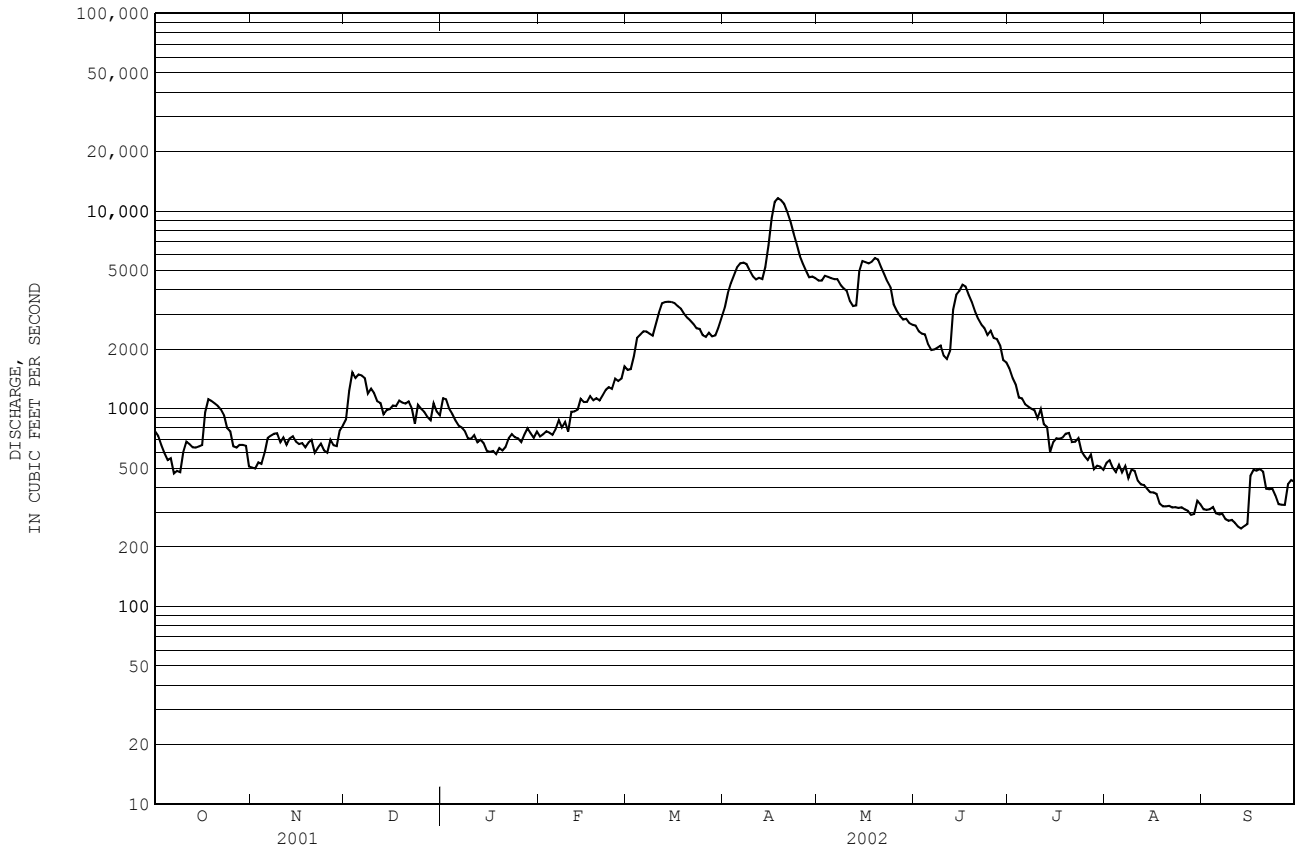
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	769	504	881	1130	725	1570	3230	4450	2640	1600	533	310
2	730	498	1230	1120	744	1590	3840	4450	2470	1430	549	308
3	657	536	1530	999	770	1850	4310	4710	2400	1330	504	311
4	597	527	1430	941	757	2290	4740	4650	2380	1140	479	319
5	551	600	1490	872	738	2370	5200	4580	2120	1130	521	296
6	563	711	1470	822	790	2470	5450	4530	1990	1060	476	292
7	471	732	1430	805	877	2460	5490	4530	2000	1030	512	295
8	485	749	1200	770	804	2400	5400	4250	2040	1000	446	277
9	477	752	1260	709	859	2350	5000	4070	2090	983	492	271
10	602	678	1200	706	766	2680	4680	3960	1860	897	485	274
11	681	717	1090	736	965	3060	4510	3510	1790	995	434	265
12	664	658	1070	677	970	3420	4600	3310	1970	836	414	254
13	639	708	938	698	990	3470	4530	3330	3180	808	412	248
14	636	726	985	670	1120	3480	5220	4940	3780	602	394	255
15	645	683	995	613	1080	3470	6730	5600	3950	678	379	261
16	656	663	1040	606	1080	3420	9240	5510	4240	709	378	458
17	961	670	1030	611	1160	3310	11200	5440	4160	705	370	491
18	1120	638	1100	590	1100	3210	11600	5550	3770	716	331	486
19	1100	675	1070	632	1130	3030	11400	5780	3470	748	321	495
20	1070	696	1060	616	1100	2890	10900	5680	3110	755	321	481
21	1040	599	1090	642	1170	2800	9940	5210	2850	679	323	395
22	994	634	1010	710	1250	2690	8890	4790	2670	681	317	392
23	927	667	840	744	1290	2560	7720	4410	2560	710	318	395
24	802	615	1050	717	1260	2540	6830	4110	2360	610	315	364
25	770	599	1000	709	1420	2360	5930	3380	2480	575	318	329
26	645	697	966	680	1380	2310	5430	3130	2280	551	310	327
27	636	655	910	738	1420	2430	4990	2950	2250	587	305	327
28	657	647	876	796	1640	2320	4630	2830	2090	495	290	416
29	657	776	1070	752	---	2350	4660	2850	1760	516	294	436
30	650	823	967	713	---	2580	4580	2720	1720	510	343	428
31	511	---	927	766	---	2900	---	2660	---	491	329	---
TOTAL	22363	19833	34205	23290	29355	82630	190870	131870	78430	25557	12213	10456
MEAN	721	661	1103	751	1048	2665	6362	4254	2614	824	394	349
MAX	1120	823	1530	1130	1640	3480	11600	5780	4240	1600	549	495
MIN	471	498	840	590	725	1570	3230	2660	1720	491	290	248

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2002, BY WATER YEAR (WY)

MEAN	1522	2402	2537	1980	1926	3213	7326	5472	2580	1420	1048	1043
MAX	6887	7048	8630	5791	6258	16220	12740	11720	9008	6802	3425	5073
(WY)	1978	1996	1974	1978	1986	1936	1969	1937	1998	1973	1990	1954
MIN	406	608	560	528	615	805	2751	1707	860	486	394	342
(WY)	1948	1979	1948	1948	1918	1940	1995	1941	1964	1991	2002	1995

01066000 SACO RIVER AT CORNISH, ME--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1916 - 2002	
ANNUAL TOTAL	679282		661072		2701	
ANNUAL MEAN	1861		1811		4076	
HIGHEST ANNUAL MEAN					1372	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	15600	Apr 27	11600	Apr 18	45600	Mar 21 1936
LOWEST DAILY MEAN	287	Sep 18	248	Sep 13	244	Oct 7 1964
ANNUAL SEVEN-DAY MINIMUM	293	Sep 14	261	Sep 9	261	Sep 9 2002
MAXIMUM PEAK FLOW			11700		46600	
MAXIMUM PEAK STAGE			9.00		21.90	
10 PERCENT EXCEEDS	4260		4580		6140	Mar 21 1936
50 PERCENT EXCEEDS	1020		965		1680	
90 PERCENT EXCEEDS	410		387		665	



PISCATAQUA RIVER BASIN

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 Dam at Milton, 4.2 miles east of Farmington, and 7.4 miles north of Rochester.

DRAINAGE AREA.---108 mi².

PERIOD OF RECORD.---Discharge: October 1968 to current year.

GAGE.---Water-stage recorder and concrete control. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 2000, water-stage recorder at site 200 ft downstream at same datum.

REMARKS.---Records good, except for periods of doubtful stage-discharge relation, Dec. 18-20 and Mar. 22-23, which are fair. Flow regulated by Great East and Lovell Lakes, and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds. These reservoirs have a combined usable capacity, 1.28 billion ft³.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 4,000 ft³/s, Apr. 6, 1984, gage height, 6.70 ft; minimum daily discharge, 16 ft³/s, Sept. 11, 1999.

EXTREMES FOR CURRENT YEAR.---Maximum discharge, 1,040 ft³/s, May 15, gage height, 4.41 ft; minimum daily discharge, 13 ft³/s, Sept. 19-22.

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

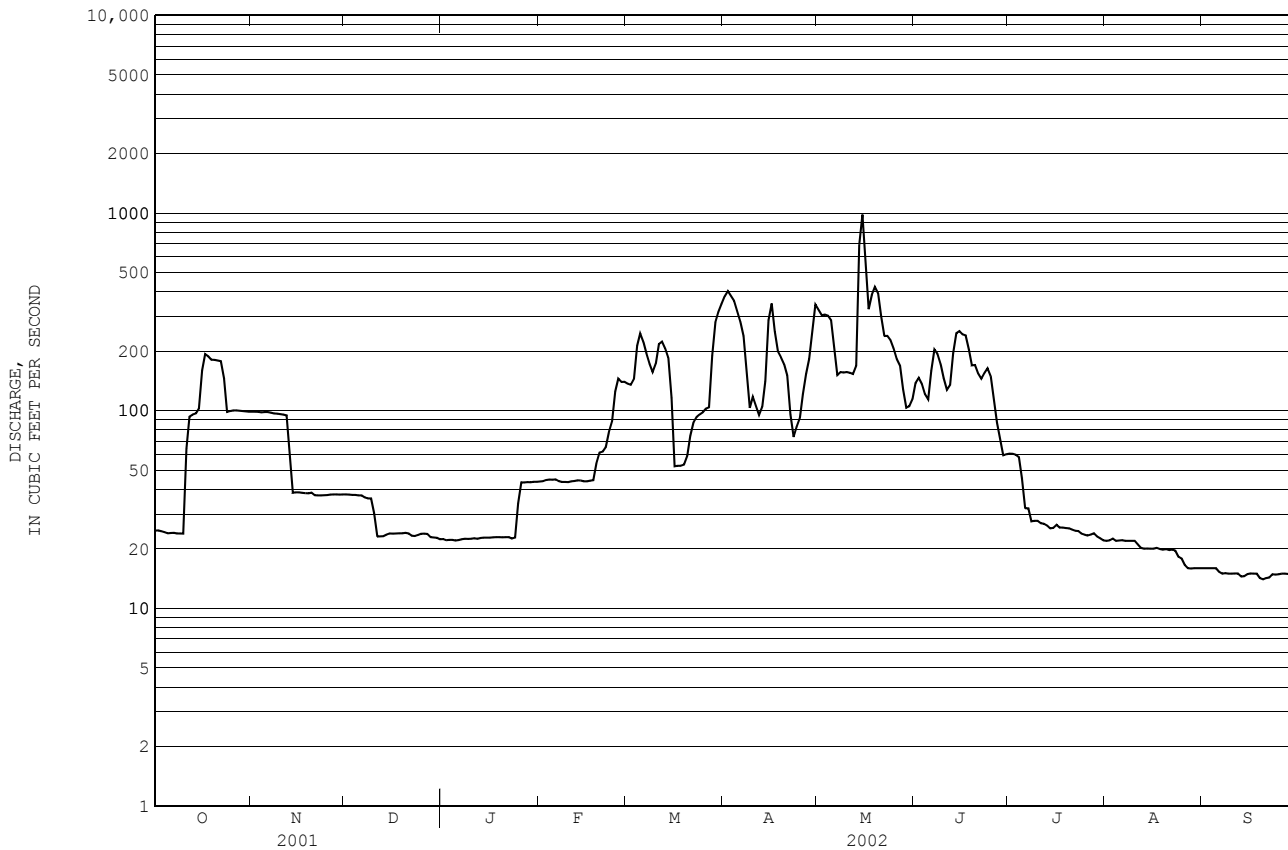
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	99	38	22	44	137	379	324	138	61	22	16
2	25	99	38	22	44	135	403	304	147	61	22	16
3	25	99	38	22	45	145	381	307	137	60	23	16
4	24	98	38	22	45	214	360	303	122	58	22	16
5	24	99	37	22	45	247	321	287	114	45	22	16
6	24	99	37	22	45	224	283	203	159	32	22	15
7	24	98	36	22	44	195	239	152	205	32	22	15
8	24	97	36	23	44	173	161	157	194	28	22	15
9	24	97	36	23	44	157	103	156	172	28	22	15
10	24	96	30	23	44	174	118	157	146	28	22	15
11	64	96	23	23	44	217	105	156	128	27	21	15
12	94	95	23	23	44	224	95	153	135	27	20	15
13	96	63	23	23	45	206	105	169	195	26	20	15
14	97	39	24	23	44	186	141	692	247	25	20	15
15	103	39	24	23	44	116	288	983	253	26	20	15
16	160	39	24	23	44	52	349	555	244	26	20	15
17	194	38	24	23	44	53	253	327	241	26	20	15
18	189	38	24	23	45	53	199	386	205	26	20	15
19	182	38	24	23	54	53	187	424	170	26	20	14
20	181	39	24	23	61	59	172	393	171	25	20	14
21	180	37	24	23	62	75	151	300	154	25	20	14
22	178	37	23	23	66	87	96	239	145	25	20	14
23	146	37	23	23	78	93	74	240	156	25	20	15
24	99	37	24	23	88	96	83	228	164	24	18	15
25	100	37	24	34	125	98	92	207	150	24	18	15
26	100	38	24	43	146	103	122	183	117	23	17	15
27	100	38	24	43	140	104	154	169	87	24	16	15
28	100	38	23	44	140	190	183	129	72	24	16	15
29	100	38	23	44	---	280	259	104	60	23	16	15
30	99	38	23	44	---	317	345	105	60	23	16	15
31	99	---	22	44	---	348	---	115	---	22	16	---
TOTAL	2904	1880	858	841	1758	4811	6201	8607	4688	955	615	451
MEAN	93.7	62.7	27.7	27.1	62.8	155	207	278	156	30.8	19.8	15.0
MAX	194	99	38	44	146	348	403	983	253	61	23	16
MIN	24	37	22	22	44	52	74	104	60	22	16	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2002, BY WATER YEAR (WY)

MEAN	179	194	220	174	185	313	431	223	135	66.6	59.5	74.2
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	81.4	62.7	27.7	27.1	60.8	108	103	55.4	35.5	26.1	19.8	15.0
(WY)	1969	2002	2002	2002	1977	1993	1985	1985	1999	1991	2002	2002

01072100 SALMON FALLS RIVER AT MILTON, NH--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1969 - 2002	
ANNUAL TOTAL	48482		34569		188	
ANNUAL MEAN	133		94.7		307	
HIGHEST ANNUAL MEAN					94.7	
LOWEST ANNUAL MEAN					3220	
HIGHEST DAILY MEAN	1190	Apr 15	983	May 15	14	Mar 15 1977
LOWEST DAILY MEAN	22	Dec 31	14	Sep 19	14	Sep 19 2002
ANNUAL SEVEN-DAY MINIMUM	23	Dec 25	14	Sep 16	14	Sep 16 2002
MAXIMUM PEAK FLOW			1040	May 15	4000	Apr 6 1984
MAXIMUM PEAK STAGE			4.41	May 15	6.70	Apr 6 1984
10 PERCENT EXCEEDS	281		226		398	
50 PERCENT EXCEEDS	85		44		132	
90 PERCENT EXCEEDS	26		18		37	



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 2002

Stream	Tributary to	Location	Drainage area (mi ²)	Measured Previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
ST. JOHN RIVER BASIN						
Unnamed tributary 01012790	North Fork McLean Brook	Lat 47°13'31", long 68°20'24". Aroostook County, downstream end of culvert in Flat Mountains Road, 1.6 miles south of Route 162 near St. Agatha, Maine.	0.56	1999-2002	06-21-02 07-17-02 08-15-02	^a 0.20 ^a 0.34 ^a 0.04
Unnamed tributary 01012800	East Fork Dickey Brook	Lat 47°14'38", long 68°22'03". Aroostook County, downstream end of culvert in Marquis Road, 0.8 miles south of Route 162 near St. Agatha, Maine.	0.38	1999-2002	06-21-02 07-17-02 08-15-02	^a 0.13 0.12 ^a 0.04
Unnamed tributary 01013550	Perley Brook	Lat 47°14'25", long 68°32'32". Aroostook County, downstream end of culvert in North Perley Brook Road, 1.9 mi east of Route 161, near Fort Kent, Maine.	0.39	1999-2002	06-20-02 07-17-02 08-15-02	^a 0.26 ^a 0.13 ^a 0.05
Factory Brook 01014700	St. John River	Lat 47°21'09", long 68°17'53". Aroostook County, 12 ft upstream from culvert in U.S. Highway 1, 1/2 mi upstream from mouth and 1.1 mi east of Madawaska, Maine.	5.96(corrected)	1994-95, 1997-2002	06-21-02 07-17-02 08-15-02	2.48 3.06 0.47
Unnamed Tributary 01015005	Hammond Brook	Lat 47°07'12", long 67°57'49". Aroostook County, downstream end of culvert in Route 1, 1.8 mi south of Van Buren, in Cyr Plantation, Maine.	0.55(corrected)	1997-2002	06-21-02 07-17-02 08-15-02	^a 0.21 ^a 0.37 ^a 0.08
Unnamed tributary 01015007	St. John River	Lat 47°06'17", long 67°53'12". Aroostook County, downstream end of culvert in Route 1A, 4.2 mi south of the junction with Route 1 in Van Buren, Maine.	0.66	1999-2002	06-21-02 07-17-02 08-15-02	^a 0.07 ^a 0.17 ^a 0.007
Martin Brook 01015008	St. John River	Lat 47°04'55", long 67°49'33". Aroostook County, 100 ft below downstream end of culvert in Route 1A, 1.5 mi north of Hamlin, Maine.	12.1	1999-2002	06-21-02 07-17-02 08-15-02	6.54 9.18 1.63
Machias River 01016500	Aroostook River	Lat 46°37'42", long 68°26'07". Aroostook County, 100 ft upstream from highway bridge, 0.8 mi upstream from mouth, 1.5 mi west of Ashland, Maine.	329	1951-83 ^b , 1997-2002	06-20-02 07-17-02 08-15-02	210 458 24.2
Unnamed tributary 01017010	Aroostook River	Lat 46°45'19", long 68°06'30". Aroostook County, downstream end of culvert in Route 164, 2.6 mi east of the bridge over the Aroostook River in Washburn, 0.3 mi west of Cross Road in Crouseville, Maine.	0.44	1999-2002	06-21-02 07-17-02 08-15-02	^a 0.04 0.18 ^a 0.02
Libby Brook 01017050	Presque Isle Stream	Lat 46°41'28", long 68°10'46". Aroostook County, downstream end of culvert in Wadell Road, 1.0 mi northwest of Mapleton, Maine.	2.63(corrected)	1997-2002	06-21-02 07-17-02 08-15-02	0.17 1.32 0.12
Caribou Stream 01017115	Aroostook River	Lat 46°50'54", long 68°02'34". Aroostook County, under the bridge on Route 164 approximately 1.7 mi west of the junction with Route 161 in Caribou, Maine.	43.1	1999-2002	06-21-02 07-17-02 08-15-02	17.9 110 5.96
Nichols Brook 01017295	Little Madawaska River	Lat 46°52'26", long 67°54'09". Aroostook County, 40 ft downstream of Murphy Road, at mouth, 4.6 mi southwest of Limestone, Maine.	1.69(corrected)	1994-95, 1997-2002	06-21-02 07-17-02 08-15-02	0.52 1.00 0.18
Nichols Brook 01017300	Little Madawaska River	Lat 46°51'29", long 67°56'19". Aroostook County, 30 ft downstream of Grimes Mill Road, 3.3 mi east of Caribou, Maine.	3.72(corrected)	1994-95, 1997-2002	06-21-02 07-17-02 08-15-02	1.70 2.51 1.05

Discharge measurements made at low-flow partial-record stations during water year 2002

Stream	Tributary to	Location	Drainage area (mi ²)	Measured Previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
ST. JOHN RIVER BASIN--Continued						
Ginn Brook 01017450	Hockenhull Brook	Lat 46°45'53", long 67°54'28", Aroostook County, downstream end of culvert in Ginn Road, 1.3 mi upstream from mouth, 4 mi west of Fort Fairfield, Maine.	6.13(corrected)	1994-95, 1997-2002	06-21-02 07-17-02 08-15-02	3.10 3.85 1.45
Silver Spring Brook 01017515	Limestone Stream	Lat 46°55'12", long 67°49'42", Aroostook County, 100 ft below downstream end of culvert in an unnamed road just upstream of Route 1A, 0.5 mi north of the junction with Route 89 in Limestone, Maine.	2.33	1999-2002	06-21-02 07-17-02 08-15-02	1.15 3.90 0.83
Hilt Brook 01017555	Rocky Brook	Lat 46°33'13", long 67°50'27", Aroostook County, 15 ft upstream of culvert in Kearney Road, 0.4 mi north of East Ridge Road, 3.5 mi northeast of Mars Hill, Maine.	2.48	1999-2002	06-21-02 07-17-02 08-15-02	1.42 2.20 0.68
Unnamed tributary 01017575	Prestile Stream	Lat 46°28'24", long 67°49'38", Aroostook County, downstream end of culvert in Robinson Road, 0.9 mi upstream from mouth, 0.6 mi east of Robinson, Maine.	0.54(corrected)	1997-2002	06-21-02 07-17-02 08-15-02	^a 0.12 ^a 0.17 ^a 0.03
Unnamed tributary 01017600	Young Brook	Lat 46°30'25", long 67°47'39", Aroostook County, downstream end of culvert in Mountain Road, 1.6 mi east of the Blaine Road, near Mars Hill, Maine.	0.45	1999-2002	06-21-02 07-17-02 08-15-02	^a 0.05 ^a 0.04 ^a 0.04
Young Brook 01017610	Prestile Stream	Lat 46°27'12", long 67°47'36", Aroostook County, 60 ft downstream of culvert in East Blaine Road, 0.4 mi north of the junction with Bridgewater Corner Road, near Bridgewater, Maine.	12.0	1999-2002	06-21-02 07-17-02 08-13-02	5.51 8.52 1.90
Marley Brook 01017900	Limestone Brook	Lat 46°08'42", long 68°03'42", Aroostook County, at culvert in U.S. Route 2, 0.4 mi upstream from mouth, and 1.1 mi west of Ludlow, Maine.	1.47	1964-82 ^b 1994-95 1997-2002	06-20-02 06-21-02 07-17-02 08-15-02	0.25 ^a 0.22 1.37 ^a 0.10
Meduxnekeag River 01018000	St. John River	Lat 46°06'17", long 67°52'00", Aroostook County, 0.3 mi downstream from mouth of South Branch Meduxnekeag River.	175	many	06-20-02 08-13-02	104 45.0
Big Brook 01018050	Meduxnekeag River	Lat 46°12'00", long 67°49'09", Aroostook County, at culvert in Carson Road, 0.9 mi upstream from mouth, and 2.4 mi southeast of Littleton, Maine.	14.3(corrected)	1994-95, 1997-2002	06-21-02 07-17-02 08-15-02	9.72 13.4 3.62
Unnamed tributary 01018060	Meduxnekeag River	Lat 46°15'12", long 67°50'22", Aroostook County, at culvert at second tributary in Route 1 north of Littleton Station, Maine.	1.26	1999-2002	06-21-02 07-17-02 08-15-02	0.33 1.09 ^c 0.02
Unnamed tributary 01018070	Meduxnekeag River	Lat 46°13'54", long 67°47'09", Aroostook County, 50 ft below culvert in Campbell Road, 2.6 mi east of Route 1 in Littleton, Maine.	5.07	1999-2002	06-21-02 07-17-02 08-15-02	^a 0.53 2.25 ^a 0.009
Unnamed tributary 01018100	Dead Stream	Lat 46°19'02", long 67°48'02", Aroostook County, downstream end of culvert in Fletcher Road, 2 mi east of Route 1 near Monticello, Maine.	2.09	1999-2002	06-21-02 07-17-02 08-15-02	0.57 1.78 0.11
DENNYS RIVER BASIN						
Venture Brook 01021190	Dennys River	Lat 44°54'14", long 67°17'15", Washington County, 10 ft upstream of bridge on unnamed road, 1.3 mi upstream from the confluence with Dennys River, near Dennysville, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	2.09 0.13 ^c 0.04 ^c 0.08
Cathance Stream 01021225	Dennys River	Lat 44°53'07", long 67°19'02", Washington County, 150 ft upstream of the bridge on route 86, 2.1 mi upstream of inflow to Great Works Pond, in Marion, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	16.3 4.65 2.92 0.66
MACHIAS RIVER BASIN						
Crooked River 01021435	Machias River	Lat 44°55'41", long 67°52'09", Washington County, 40 ft downstream of bridge on unnamed road, 0.9 mi upstream of the confluence with the Machias River, near Beddington, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	16.3 5.88 2.65 2.17

Discharge measurements made at low-flow partial-record stations during water year 2002

Stream	Tributary to	Location	Drainage area (mi ²)	Measured Previously (water years)	Date	Measurements Discharge (ft ³ /s)
MACHIAS RIVER BASIN -- Continued						
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.	---	2000-2002	07-08-02 07-25-02 09-10-02	^a 0.16 ^a 0.008 ^a 0.00
Holmes Brook 01021472	Machias River	Lat 44°49'12", long 67°41'04", Washington County, 20 ft upstream of culvert in unnamed road, 1.7 mi upstream of the confluence with the Machias River, near Northfield, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	1.95 0.86 0.50 0.64
Dead Stream 01021475	Old Stream	Lat 44°59'24", long 67°49'24", Washington County, 120ft downstream of culvert in unnamed road, 3.0 mi upstream of the confluence with Old Stream, near Wesley, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	0.33 ^c 0.02 ^c 0.0004 ^c 0.002
Honeymoon Brook 01021478	Old Stream	Lat 44°55'22", long 67°45'50", Washington County, 15ft upstream of the old Route 9 crossing, 2.5 mi upstream of the confluence with Old Stream, near Wesley, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	0.15 ^a 0.04 ^a 0.02 ^a 0.02
Grover Lake Outlet 01021479	Old Stream	Lat 44°56'38", long 67°43'40", Washington County, 25 ft below downstream end of culvert in unnamed road, 0.6 mi upstream of the confluence with Old Stream, near Wesley, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	0.51 0.36 0.26 0.26
Old Stream 01021485	Machias River	Lat 44°50'35", long 67°39'47", Washington County, 20 ft upstream of bridge on unnamed road, 1.4 mi downstream from the confluence with Dan Hill Brook near Northfield, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	39.5 19.2 12.2 7.25
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.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	2.60 0.53 0.25 0.24
Harmon Brook 01021910	East Machias River	Lat 45°00'32", long 67°36'58", Washington County, 30 ft below downstream end of culvert in Birch Hill Road, 0.3 mi upstream of the confluence with the East Machias River, near Crawford, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	1.05 0.23 0.18 0.26
Northern Stream 01021960	Rocky Lake Stream	Lat 44°56'33", long 67°30'32", Washington County, downstream end of culvert in unnamed road, 1.9 mi downstream from the confluence with Creamer Brook, near Cooper, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	7.83 2.56 0.98 0.40
East Machias River 01022000	Machias River	Lat 44°46'05", long 67°24'30", Washington County, 20 ft upstream of the bridge on Route 191, just downstream from outlet of Hadley Lake, near East Machias, Maine.	---	1927-58 ^b , 2000-2002	07-08-02 07-25-02 08-21-02 09-10-02	134 60.6 25.8 17.1
PLEASANT RIVER BASIN						
Fred Dorr Brook 01022240	Taylor Branch	Lat 44°45'55", long 67°51'33", Washington County, downstream end of culvert in unnamed road, 0.9 mi upstream from the confluence with Taylor Branch, near Crebo Flat, Maine.	---	2000-2002	07-08-02 07-25-02 08-21-02 09-10-02	^a 0.13 ^c 0.03 0 0
Little River 01022264	Pleasant River	Lat 44°41'53", long 67°44'16", Washington County, 40 ft upstream of bridge on unnamed road, 0.6 mi downstream from the confluence with Marst Brook, near Columbia Falls, Maine.	---	2000-2002	07-08-02 07-25-02 08-21-02 09-10-02	4.02 1.22 0.93 0.99
HARRINGTON RIVER BASIN						
Harrington River 01022270	Atlantic Ocean	Lat 44°38'04", long 67°49'46", Washington County, 25 ft upstream of bridge on unnamed road, 0.3 mi downstream from the confluence of Trout Brook and Dorr Brook, near Harrington, Maine.	---	2000-2002	07-08-02 07-25-02 08-21-02 09-10-02	2.69 0.94 0.65 1.15

Discharge measurements made at low-flow partial-record stations during water year 2002

Stream	Tributary to	Location	Drainage area (mi ²)	Measured Previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
NARRAGUAGUS RIVER BASIN						
Humpback Brook 01022286	Narraguagus River	Lat 44°53'06", long 68°08'24", Hancock County, 30 ft below downstream end of culvert in unnamed road, 3.4 mi upstream of the confluence with Narraguagus River, near Beddington, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	2.70 0.42 0.04 0.06
Narraguagus River 01022290	Atlantic Ocean	Lat 44°50'34", long 68°04'10", Washington County, 150 ft upstream of bridge on Route 9, 0.9 mi upstream of Beddington Lake, near Beddington, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	79.5 18.3 4.10 4.14
Pork Brook 01022400	West Branch Narraguagus River	Lat 44°46'17", long 68°05'20", Hancock County, downstream end of culvert in unnamed road, 1.9 mi upstream of the confluence with West Branch Narraguagus River, near Beddington, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	1.12 0.24 ^a 0.07 ^a 0.04
CARD MILL STREAM BASIN						
Card Mill Stream 01022750	Atlantic Ocean	Lat 44°35'48", long 68°10'46", Hancock County, 10 ft downstream from bridge on Donnell Pond Road, at the outlet of Donnell Pond, near Franklin, Maine.	---	2000-2002	07-08-02 07-25-02 08-21-02 09-10-02	10.5 3.52 1.46 0.32
UNION RIVER BASIN						
Alligator Stream 01022950	West Branch Union River	Lat 44°58'14", long 68°13'59", Hancock County, 50 ft upstream of culvert in Stud Mill Road, 0.9 mi downstream from Alligator Lake, near Great Pond, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	7.36 2.78 1.53 0.65
Unnamed trib to Lower Lead Mountain Pond 01023210	Starvation Branch	Lat 44°52'16", long 68°11'23", Hancock County, downstream end of culvert in unnamed road, 0.7 mi upstream from Lower Lead Mountain Pond, near Beddington, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	1.59 0.32 0.11 0.08
Middle Branch Union River 01023400	East Branch Union River	Lat 44°51'42", long 68°17'43", Hancock County, 0.5 mi downstream from bridge on Route 9, 0.7 mi downstream from the confluence with Freeman Brook, near Aurora, Maine.	---	2000-2002	07-08-02 07-25-02	44.4 7.88
Leighton Brook 01023430	Middle Branch Union River	Lat 44°49'18", long 68°14'59", Hancock County, 20 ft below downstream end of culvert in unnamed road, 3.6 mi upstream of the confluence with Middle Branch Union River, near Aurora, Maine.	---	2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	2.11 0.86 ^a 0.18 ^a 0.05
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.	---	1964-82 ^b , 2000-2002	07-08-02 07-25-02 08-22-02 09-10-02	2.96 1.22 0.28 0.37
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.	---	2000-2002	07-25-02 08-21-02 09-10-02	^a 0.03 ^a 0.009 ^a 0.00
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.	---	2000-2002	07-08-02 07-25-02 08-21-02 09-10-02	1.00 0.14 ^a 0.006 ^a 0.01
PENOBSCOT RIVER BASIN						
Web Brook 01030050	Fish Stream	Lat 46°00'05", long 68°26'59", Penobscot County, downstream end of culvert in Waters Road, 0.5 mi upstream from mouth, at Patten, Maine.	1.04	1997-2002	06-20-02 06-21-02 07-17-02 08-15-02	^a 0.51 ^a 0.35 ^a 0.46 ^a 0.08

^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 2002

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, 1998-2002	10-30-01	27.1
					08-13-02	32.3
					09-12-02	85.4
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
Wilson Stream 01047730	Kennebec River	Lat 44°36'55", long 70°11'42", Franklin County, 0.1mi upstream from railroad bridge in East Wilton, and 1.5 mi downstream from Varnum Street in East Wilton, Maine.	45.8	many	06-26-02	38.2
					08-06-02	10.0
					08-22-02	6.88
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, 94, 1997-2002	06-26-02	115
					08-05-02	45.1
					08-22-02	18.2
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 1997-2002	11-08-01	19.3
					06-11-02	84.6
					06-11-02	90.2
					07-19-02	22.7
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	1999-2002	11-08-01	7.61
					06-11-02	157
					07-19-02	9.03

GROUND-WATER RECORDS

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 (corrected) above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.7 ft above land-surface datum.

REMARKS.--Missing record, June 12 and Aug. 27 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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

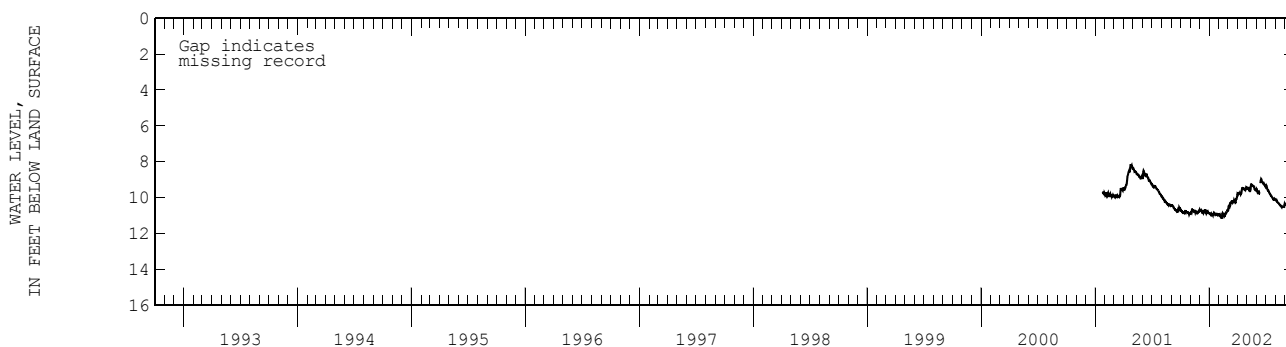
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.66	10.86	10.67	10.91	10.89	10.74	9.81	9.46	9.51	9.36	10.15	10.38
2	10.71	10.84	10.71	10.92	11.00	10.72	9.83	9.46	9.55	9.32	10.16	10.36
3	10.75	10.87	10.71	10.91	11.01	10.51	9.78	9.40	9.64	9.36	10.18	10.35
4	10.75	10.88	10.74	10.94	10.98	10.47	9.77	9.51	9.69	9.41	10.19	10.33
5	10.78	10.78	10.74	10.96	11.04	10.47	9.74	9.51	9.65	9.48	10.16	10.36
6	10.77	10.65	10.71	10.94	11.07	10.43	9.74	9.50	9.66	9.54	10.20	10.41
7	10.82	10.65	10.77	10.91	11.05	10.46	9.78	9.50	9.71	9.57	10.24	10.46
8	10.87	10.71	10.83	10.96	11.08	10.51	9.77	9.59	9.73	9.61	10.28	10.46
9	10.86	10.70	10.82	10.93	11.17	10.45	9.72	9.60	9.71	9.59	10.30	10.47
10	10.83	10.70	10.84	10.95	11.09	10.31	9.77	9.55	9.78	9.64	10.31	10.46
11	10.83	10.75	10.84	10.96	10.93	10.30	9.83	9.64	9.78	9.69	10.32	10.46
12	10.85	10.79	10.87	10.99	10.87	10.24	9.79	9.64	---	9.73	10.34	10.58
13	10.87	10.78	10.77	10.88	10.91	10.21	9.77	9.58	9.21	9.75	10.37	10.59
14	10.85	10.75	10.79	10.95	10.95	10.21	9.65	9.32	9.06	9.80	10.39	10.63
15	10.80	10.74	10.80	10.88	10.93	10.23	9.53	9.27	9.03	9.81	10.42	10.58
16	10.83	10.77	10.81	10.90	10.93	10.22	9.48	9.27	8.96	9.86	10.43	10.38
17	10.71	10.85	10.74	10.87	10.97	10.29	9.47	9.28	8.98	9.90	10.44	10.31
18	10.79	10.80	10.67	10.91	11.05	10.25	9.49	9.30	9.05	9.90	10.45	10.35
19	10.80	10.77	10.80	10.95	11.02	10.25	9.47	9.32	9.11	9.93	10.48	10.38
20	10.81	10.78	10.79	10.94	11.01	10.21	9.47	9.34	9.14	9.96	10.52	10.40
21	10.83	10.85	10.83	10.92	10.91	10.13	9.51	9.35	9.15	10.0	10.55	10.44
22	10.85	10.86	10.89	10.98	10.87	10.18	9.52	9.38	9.21	10.01	10.50	10.48
23	10.85	10.89	10.85	10.97	10.88	10.20	9.53	9.38	9.21	10.04	10.52	10.43
24	10.82	10.88	10.79	10.94	10.88	10.25	9.58	9.39	9.20	10.09	10.53	10.41
25	10.81	10.84	10.83	10.95	10.83	10.29	9.56	9.51	9.27	10.11	10.52	10.43
26	10.84	10.77	10.80	10.95	10.79	10.27	9.53	9.52	9.28	10.13	10.56	10.44
27	10.88	10.77	10.78	10.97	10.71	10.10	9.57	9.56	9.30	10.13	---	10.41
28	10.95	10.80	10.82	10.93	10.70	10.10	9.52	9.59	9.32	10.12	10.59	10.35
29	10.91	10.80	10.84	10.94	---	10.09	9.43	9.60	9.37	10.06	10.46	10.39
30	10.91	10.72	10.86	10.99	---	10.0	9.44	9.59	9.40	10.08	10.35	10.39
31	10.92	---	10.89	11.03	---	9.96	---	9.56	---	10.11	10.40	---
LOW	10.95	10.89	10.89	11.03	11.17	10.74	9.83	9.64	---	10.13	---	10.63
HIGH	10.66	10.65	10.67	10.87	10.70	9.96	9.43	9.27	---	9.32	---	10.31

GROUND-WATER RECORDS

ANDROSCOGGIN COUNTY--Continued

440213070203201 Local number, ANW 1135--Continued

PERIOD OF RECORD.-- CHEMICAL ANALYSES: April 2001 to current year.



WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE WATER (DEG C) (00010)
JUN 12...	1345	12.35	310.	.95	247	752	.2	2	8.8	8.6	189	191	8.9
AUG 27...	1500	13.31	310.	.91	352	757	.0	0	8.5	8.0	185	191	9.4

Date	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT.DIS FET LAB CACO3 (29801)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
JUN 12...	57	14.0	5.22	1.56	17.2	86	83	3	6.04	1.2	9.84	3.8	109
AUG 27...	60	15.2	5.43	1.18	16.7	84	80	1	5.82	1.3	12.1	5.4	111

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
JUN 12...	<.015	<.013	<.002	E.005	.6
AUG 27...	<.015	<.013	<.002	E.006	2.4

0Remark codes used in this report:
 < -- Less than
 E -- Estimated value

GROUND-WATER RECORDS

187

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: Floor of recorder shelter at land-surface datum, which is 3.0 ft above the general land surface.

REMARKS.--Missing record, Dec. 28 to Jan. 15.

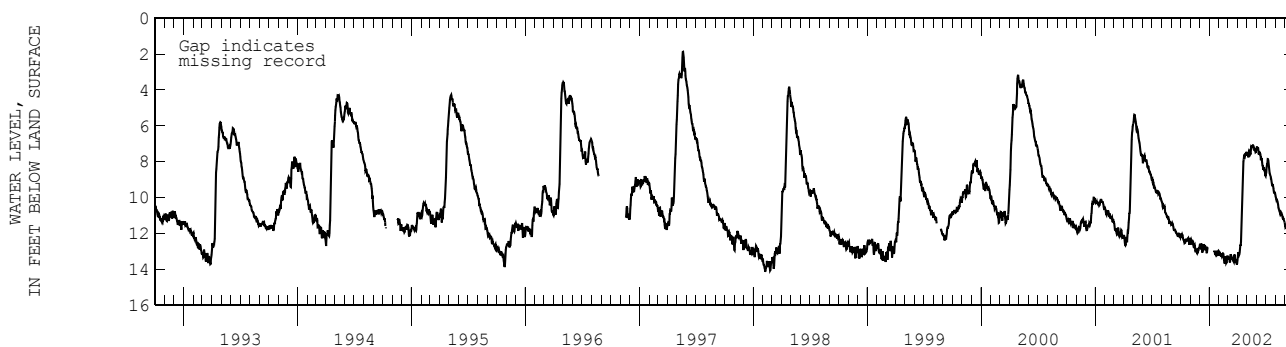
PERIOD OF RECORD.--November 1976 to current year.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.12	12.34	12.69	---	13.18	13.33	13.52	7.55	7.26	8.68	9.92	11.64
2	12.09	12.31	12.71	---	13.05	13.47	13.30	7.62	7.19	8.63	9.99	11.60
3	12.15	12.41	12.82	---	13.07	13.40	13.12	7.47	7.19	8.33	10.06	11.63
4	12.13	12.57	12.84	---	13.12	13.31	13.06	7.55	7.27	8.21	10.15	11.63
5	12.14	12.58	12.71	---	13.16	13.40	13.17	7.76	7.26	8.14	10.12	11.63
6	12.07	12.50	12.57	---	13.22	13.45	13.22	7.70	7.21	8.08	10.16	11.69
7	12.12	12.43	12.69	---	13.20	13.55	13.17	7.46	7.39	7.86	10.23	11.80
8	12.26	12.48	12.90	---	13.10	13.62	13.04	7.41	7.59	7.87	10.31	11.80
9	12.31	12.45	13.07	---	13.22	13.51	12.83	7.46	7.48	7.95	10.41	11.80
10	12.37	12.48	12.99	---	13.29	13.17	12.63	7.34	7.48	8.11	10.56	11.80
11	12.39	12.68	12.92	---	13.25	13.22	12.69	7.48	7.55	8.27	10.63	11.76
12	12.45	12.77	12.91	---	13.17	13.26	12.47	7.59	7.53	8.46	10.69	11.73
13	12.54	12.79	12.71	---	13.12	13.29	12.08	7.56	7.57	8.64	10.74	11.76
14	12.52	12.71	12.60	---	13.13	13.32	11.48	7.34	7.72	8.70	10.78	11.83
15	12.43	12.66	12.76	---	13.16	13.45	10.79	7.17	7.91	8.74	10.83	11.88
16	12.44	12.81	12.93	13.03	13.34	13.40	10.31	7.20	7.88	8.80	10.91	11.85
17	12.36	13.00	12.90	12.97	13.51	13.40	9.76	7.11	7.82	8.90	10.98	11.84
18	12.30	13.00	12.70	13.06	13.62	13.49	9.13	7.21	7.84	8.99	10.96	11.88
19	12.37	12.90	12.72	13.15	13.62	13.55	8.43	7.14	8.05	9.11	10.84	11.92
20	12.38	12.90	12.87	13.15	13.69	13.58	8.00	7.09	8.21	9.23	10.87	11.99
21	12.38	12.90	12.80	13.18	13.39	13.36	7.87	7.09	8.22	9.29	10.92	12.03
22	12.40	13.02	12.87	13.10	13.27	13.18	7.70	7.12	8.37	9.28	10.96	12.13
23	12.37	12.98	13.06	13.02	13.42	13.26	7.62	7.19	8.45	9.30	11.06	12.16
24	12.30	13.08	13.11	13.01	13.66	13.39	7.62	7.25	8.30	9.39	11.16	12.21
25	12.30	13.05	12.91	13.11	13.62	13.51	7.66	7.34	8.43	9.50	11.18	12.26
26	12.26	12.94	12.81	13.22	13.42	13.66	7.57	7.40	8.48	9.60	11.16	12.30
27	12.32	12.93	12.82	13.21	13.30	13.52	7.55	7.33	8.41	9.71	11.20	12.32
28	12.45	12.84	---	13.07	13.24	13.45	7.66	7.36	8.51	9.70	11.27	12.29
29	12.64	12.83	---	13.03	---	13.59	7.59	7.47	8.76	9.70	11.33	12.34
30	12.44	12.79	---	13.11	---	13.74	7.51	7.45	8.79	9.73	11.39	12.38
31	12.40	---	---	13.24	---	13.66	---	7.39	---	9.80	11.52	---
LOW	12.64	13.08	---	---	13.69	13.74	13.52	7.76	8.79	9.80	11.52	12.38
HIGH	12.07	12.31	---	---	13.05	13.17	7.51	7.09	7.19	7.86	9.92	11.60



GROUND-WATER RECORDS

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.

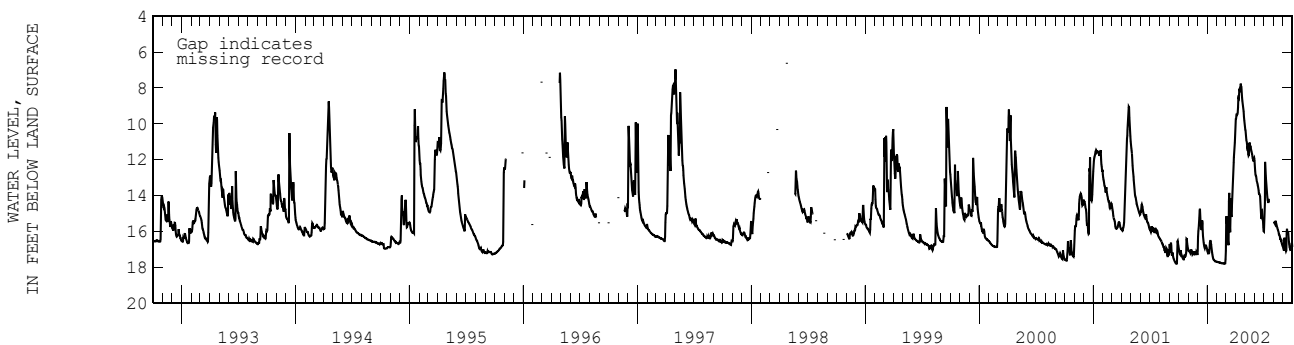
REMARKS.--Missing record, July 18-31.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.92	17.06	17.10	17.11	17.69	17.08	10.17	10.12	12.05	16.01	15.48	16.93
2	17.02	17.10	16.31	17.18	17.70	15.51	9.74	10.30	12.34	15.43	15.49	17.00
3	17.12	17.12	15.98	17.21	17.71	15.15	9.70	10.38	12.63	14.94	15.51	17.07
4	17.20	17.09	15.82	17.20	17.71	15.55	9.51	10.60	12.82	14.42	15.54	16.93
5	17.27	17.13	15.53	17.16	17.72	15.48	9.52	10.79	12.89	12.12	15.56	16.36
6	17.30	17.15	15.24	17.26	17.73	15.68	9.49	10.91	12.93	12.50	15.60	16.67
7	17.05	17.18	14.86	17.21	17.73	16.18	9.46	10.97	13.05	12.88	15.45	16.86
8	17.16	17.22	14.74	16.96	17.73	16.50	9.37	11.12	13.18	13.12	15.45	16.97
9	17.25	17.18	15.14	16.65	17.74	16.71	9.07	11.33	13.23	13.36	15.54	17.04
10	17.30	17.00	15.54	16.53	17.74	16.77	8.56	11.30	13.30	13.58	15.62	17.11
11	17.34	17.09	15.70	16.53	17.74	14.34	8.59	11.46	13.42	13.87	15.67	17.07
12	17.39	17.16	15.79	16.63	17.75	13.85	8.44	11.67	13.51	14.09	15.75	16.04
13	17.45	17.22	15.92	16.75	17.76	15.06	8.09	11.78	13.61	14.24	15.82	15.86
14	17.50	17.29	15.81	16.91	17.77	15.72	8.05	11.74	13.73	14.31	15.87	16.02
15	17.54	17.27	15.39	17.05	17.77	16.05	8.18	11.24	13.86	14.42	15.91	16.20
16	17.56	17.16	15.55	17.19	17.77	15.46	8.19	11.04	13.90	14.18	15.95	16.01
17	17.56	17.17	15.93	17.31	17.77	14.16	8.02	11.13	13.91	14.37	16.01	16.09
18	17.41	17.26	16.27	17.41	17.78	15.03	7.75	11.29	13.96	---	16.15	16.38
19	17.37	17.28	16.45	17.49	17.78	15.19	7.91	11.28	14.06	---	16.19	16.58
20	17.41	17.22	16.61	17.54	17.78	14.78	7.93	11.36	14.36	---	16.20	16.74
21	17.43	17.11	16.74	17.58	17.78	14.19	8.20	11.45	14.74	---	16.28	16.86
22	17.41	17.19	16.83	17.61	17.79	13.58	8.52	11.54	15.09	---	16.40	16.94
23	17.38	17.25	16.91	17.62	17.79	13.10	8.72	11.61	15.29	---	16.39	16.89
24	17.30	17.27	16.96	17.64	17.79	12.74	8.88	11.69	14.90	---	16.44	16.84
25	17.20	17.27	16.91	17.65	17.80	12.43	9.03	11.81	14.87	---	16.53	16.94
26	16.41	17.24	16.80	17.66	17.80	12.16	9.17	11.90	15.29	---	16.51	17.01
27	16.43	17.15	16.78	17.67	17.79	11.87	9.30	11.96	15.34	---	16.63	17.08
28	16.66	17.18	16.80	17.68	17.55	11.62	9.61	12.02	15.41	---	16.71	16.69
29	16.81	17.22	16.86	17.68	---	11.34	9.80	12.09	15.77	---	16.77	16.64
30	16.92	17.32	16.93	17.69	---	11.05	9.95	11.95	16.00	---	16.81	16.87
31	17.00	---	17.02	17.69	---	10.63	---	11.92	---	---	16.87	---
LOW	17.56	17.32	17.10	17.69	17.80	17.08	10.17	12.09	16.00	---	16.87	17.11
HIGH	16.41	17.00	14.74	16.53	17.55	10.63	7.75	10.12	12.05	---	15.45	15.86



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: Electric tape gage index, 2.93 ft above land-surface datum.

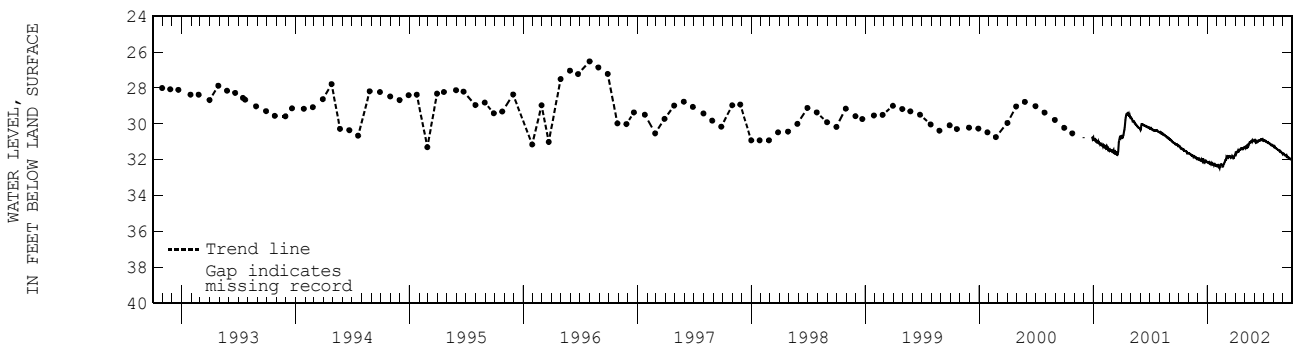
PERIOD OF RECORD.--April 1958 to current year.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.21	31.64	31.92	32.16	32.24	32.00	31.67	31.31	30.89	30.91	31.27	31.67
2	31.24	31.64	31.97	32.16	32.36	31.99	31.69	31.29	30.93	30.90	31.28	31.67
3	31.27	31.66	31.96	32.14	32.35	31.83	31.62	31.27	31.00	30.91	31.30	31.67
4	31.28	31.66	31.99	32.16	32.33	31.85	31.63	31.34	31.02	30.92	31.31	31.68
5	31.29	31.66	31.98	32.18	32.37	31.85	31.58	31.30	30.96	30.94	31.28	31.71
6	31.28	31.68	31.95	32.15	32.40	31.83	31.55	31.27	31.00	30.97	31.31	31.74
7	31.33	31.69	31.99	32.14	32.36	31.85	31.56	31.23	31.04	30.99	31.33	31.77
8	31.38	31.71	32.02	32.18	32.40	31.86	31.53	31.29	31.03	31.00	31.36	31.76
9	31.38	31.71	32.02	32.16	32.45	31.82	31.49	31.27	30.98	30.97	31.38	31.76
10	31.36	31.71	32.04	32.18	32.38	31.76	31.54	31.22	31.03	31.00	31.38	31.74
11	31.37	31.75	32.06	32.18	32.31	31.84	31.55	31.29	31.01	31.03	31.39	31.74
12	31.39	31.78	32.06	32.22	32.27	31.82	31.49	31.27	31.00	31.04	31.40	31.82
13	31.42	31.78	31.99	32.15	32.28	31.80	31.46	31.22	30.95	31.04	31.42	31.83
14	31.41	31.76	32.02	32.25	32.28	31.81	31.46	31.14	30.94	31.05	31.44	31.85
15	31.42	31.76	32.08	32.20	32.27	31.83	31.45	31.10	30.92	31.03	31.45	31.84
16	31.45	31.79	32.10	32.25	32.27	31.83	31.43	31.06	30.91	31.07	31.45	31.85
17	31.39	31.83	32.04	32.22	32.30	31.88	31.41	31.02	30.91	31.08	31.46	31.86
18	31.48	31.80	31.93	32.25	32.37	31.86	31.41	31.02	30.93	31.07	31.46	31.89
19	31.48	31.80	32.09	32.26	32.37	31.87	31.36	31.03	30.93	31.11	31.48	31.89
20	31.48	31.79	32.07	32.26	32.37	31.84	31.36	30.99	30.92	31.13	31.53	31.90
21	31.50	31.85	32.12	32.24	32.33	31.80	31.38	30.97	30.88	31.14	31.54	31.91
22	31.52	31.87	32.14	32.30	32.27	31.84	31.36	30.98	30.89	31.12	31.52	31.94
23	31.52	31.90	32.11	32.26	32.23	31.86	31.36	30.94	30.86	31.14	31.54	31.95
24	31.51	31.90	32.08	32.25	32.19	31.89	31.39	30.91	30.86	31.19	31.54	31.97
25	31.52	31.89	32.12	32.30	32.14	31.93	31.36	30.99	30.89	31.20	31.56	31.98
26	31.55	31.88	32.08	32.32	32.11	31.91	31.34	30.97	30.85	31.20	31.59	31.97
27	31.58	31.91	32.06	32.33	32.04	31.84	31.38	30.96	30.84	31.18	31.62	31.95
28	31.63	31.94	32.08	32.30	32.02	31.83	31.32	30.96	30.88	31.19	31.64	31.98
29	31.61	31.93	32.10	32.32	---	31.81	31.30	30.95	30.94	31.19	31.63	32.02
30	31.64	31.91	32.12	32.36	---	31.76	31.31	30.91	30.95	31.21	31.64	32.00
31	31.64	---	32.14	32.36	---	31.74	---	30.89	---	31.24	31.69	---
LOW	31.64	31.94	32.14	32.36	32.45	32.00	31.69	31.34	31.04	31.24	31.69	32.02
HIGH	31.21	31.64	31.92	32.14	32.02	31.74	31.30	30.89	30.84	30.90	31.27	31.67



GROUND-WATER RECORDS

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.--Missing record, Feb. 13-28, Apr. 22, and Apr. 25 to July 22.

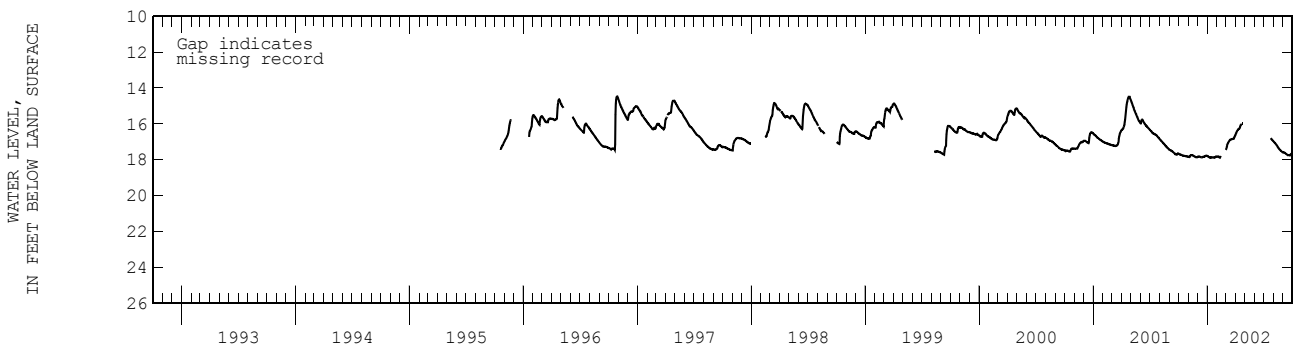
PERIOD OF RECORD.--October 1995 to current year. Records prior to October 1999 have not been published but are available in the files of the U.S. Geological Survey.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.66	17.84	17.84	17.79	17.82	17.46	16.62	---	---	---	16.98	17.59
2	17.68	17.84	17.83	17.81	17.82	17.42	16.58	---	---	---	17.00	17.59
3	17.69	17.84	17.82	17.82	17.82	17.37	16.54	---	---	---	17.02	17.60
4	17.70	17.85	17.82	17.83	17.83	17.29	16.50	---	---	---	17.04	17.60
5	17.70	17.84	17.82	17.84	17.83	17.21	16.44	---	---	---	17.06	17.61
6	17.71	17.80	17.82	17.85	17.84	17.15	16.41	---	---	---	17.08	17.62
7	17.72	17.77	17.83	17.86	17.85	17.11	16.37	---	---	---	17.10	17.63
8	17.72	17.75	17.83	17.87	17.87	17.07	16.34	---	---	---	17.12	17.64
9	17.73	17.74	17.84	17.87	17.88	17.04	16.32	---	---	---	17.15	17.65
10	17.74	17.74	17.85	17.88	17.89	17.01	16.30	---	---	---	17.17	17.67
11	17.75	17.74	17.86	17.88	17.85	16.98	16.29	---	---	---	17.19	17.68
12	17.75	17.74	17.86	17.89	17.78	16.95	16.28	---	---	---	17.22	17.70
13	17.76	17.74	17.87	17.89	---	16.92	16.27	---	---	---	17.25	17.71
14	17.77	17.75	17.87	17.88	---	16.90	16.25	---	---	---	17.28	17.73
15	17.78	17.76	17.87	17.87	---	16.89	16.21	---	---	---	17.30	17.74
16	17.78	17.77	17.86	17.86	---	16.88	16.16	---	---	---	17.33	17.75
17	17.78	17.78	17.85	17.86	---	16.87	16.12	---	---	---	17.35	17.74
18	17.78	17.79	17.85	17.86	---	16.86	16.09	---	---	---	17.37	17.74
19	17.78	17.80	17.84	17.86	---	16.86	16.05	---	---	---	17.39	17.74
20	17.79	17.81	17.84	17.87	---	16.85	16.02	---	---	---	17.42	17.75
21	17.79	17.82	17.83	17.88	---	16.84	16.01	---	---	---	17.44	17.75
22	17.79	17.83	17.83	17.89	---	16.84	---	---	---	---	17.46	17.76
23	17.80	17.84	17.82	17.89	---	16.83	15.98	---	---	m16.79	17.48	17.75
24	17.80	17.85	17.82	17.89	---	16.83	15.98	---	---	16.82	17.49	17.72
25	17.81	17.86	17.81	17.88	---	16.84	---	---	---	16.84	17.51	17.70
26	17.81	17.86	17.79	17.86	---	16.84	---	---	---	16.86	17.52	17.69
27	17.81	17.86	17.78	17.84	---	16.82	---	---	---	16.88	17.54	17.68
28	17.82	17.86	17.77	17.83	---	16.78	---	---	---	16.90	17.56	17.66
29	17.82	17.86	17.77	17.82	---	16.74	---	---	---	16.92	17.57	17.63
30	17.83	17.86	17.78	17.82	---	16.70	---	---	---	16.93	17.58	17.61
31	17.83	---	17.79	17.82	---	16.66	---	---	---	16.96	17.59	---
LOW	17.83	17.86	17.87	17.89	---	17.46	---	---	---	---	17.59	17.76
HIGH	17.66	17.74	17.77	17.79	---	16.66	---	---	---	---	16.98	17.59

m Measured



GROUND-WATER RECORDS

FRANKLIN COUNTY

44430207025401, 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.

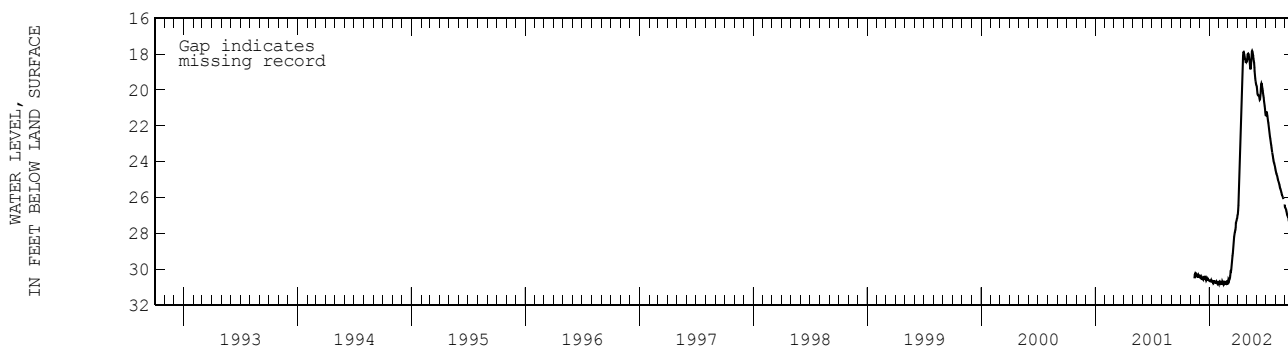
DATUM.--Elevation of land-surface datum is 1142 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF REOCD.--November 2001 to September 2002.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	30.35	30.66	30.65	30.81	27.01	18.40	19.74	21.42	24.46	26.57
2	---	---	30.44	30.66	30.72	30.79	26.95	18.26	19.82	21.35	24.54	26.60
3	---	---	30.46	30.65	30.75	30.57	26.73	18.02	20.02	21.25	24.62	26.65
4	---	---	30.49	30.66	30.71	30.60	26.43	17.98	20.21	21.24	24.70	26.69
5	---	---	30.47	30.67	30.76	30.64	25.93	17.96	20.26	21.33	24.73	26.76
6	---	---	30.41	30.65	30.79	30.59	25.25	17.98	20.30	21.46	24.78	26.86
7	---	---	30.46	30.60	30.76	30.54	24.62	18.00	20.32	21.59	24.87	26.94
8	---	---	30.52	30.66	30.77	30.50	24.01	18.16	20.32	21.74	24.96	26.99
9	---	---	30.52	30.64	30.87	30.35	23.45	18.31	20.31	21.85	25.03	27.04
10	---	---	30.55	30.65	30.80	30.13	23.02	18.38	20.44	22.01	25.08	27.08
11	---	---	30.55	30.67	30.67	30.14	22.63	18.61	20.54	22.17	25.14	27.10
12	---	---	30.57	30.70	30.72	30.03	22.04	18.77	20.52	22.32	25.21	27.25
13	---	---	30.45	30.62	30.76	29.84	21.42	18.84	20.34	22.46	25.28	27.34
14	---	30.51	30.46	30.74	30.81	29.65	20.85	18.68	20.17	22.61	25.36	27.43
15	---	30.31	30.50	30.70	30.76	29.48	20.20	18.36	19.94	22.71	25.42	27.43
16	---	30.26	30.56	30.70	30.73	29.25	19.44	18.07	19.71	22.85	25.47	27.43
17	---	30.33	30.49	30.68	30.75	29.12	18.81	17.86	19.63	22.98	25.54	27.51
18	---	30.27	30.38	30.70	30.84	28.90	18.40	17.81	19.68	23.09	25.59	27.60
19	---	30.24	30.50	30.74	30.82	28.68	18.07	17.85	19.80	23.23	25.65	27.66
20	---	30.24	30.51	30.72	30.80	28.46	17.89	17.98	19.93	23.35	25.73	27.70
21	---	30.32	30.56	30.70	30.71	28.20	17.87	18.09	20.04	23.48	25.83	27.76
22	---	30.36	30.63	30.75	30.72	28.08	17.93	18.25	20.19	23.59	25.85	27.82
23	---	30.42	30.60	30.74	30.78	27.96	18.00	18.38	20.32	23.68	25.91	27.89
24	---	30.42	30.53	30.70	30.81	27.87	18.15	18.48	20.44	23.82	25.96	27.97
25	---	30.37	30.58	30.74	30.78	27.79	18.25	18.74	20.63	23.91	26.01	28.02
26	---	30.33	30.58	30.77	30.73	27.67	18.30	18.94	20.77	23.99	26.09	28.05
27	---	30.38	30.54	30.81	30.63	27.42	18.41	19.14	20.89	24.04	---	28.03
28	---	30.41	30.57	30.76	30.70	27.37	18.41	19.35	21.05	24.11	26.45	28.02
29	---	30.42	30.59	30.76	---	27.32	18.32	19.50	21.26	24.17	26.44	28.16
30	---	30.35	30.61	30.79	---	27.20	18.43	19.61	21.41	24.25	26.44	28.20
31	---	---	30.64	30.82	---	27.16	---	19.69	---	24.36	26.54	---
LOW	---	---	30.64	30.82	30.87	30.81	27.01	19.69	21.41	24.36	---	28.20
HIGH	---	---	30.35	30.60	30.63	27.16	17.87	17.81	19.63	21.24	---	26.57



GROUND-WATER RECORDS

FRANKLIN COUNTY--Continued

44430207025401, FW916--Continued

PERIOD OF REOCDR.--November 2001 to September 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	BAROMETRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATURATION (PER-CENT) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	PH WATER WHOLE LAB (STANDARD UNITS) (00403)	SPECIFIC CONDUCTANCE (US/CM) (00095)	SPECIFIC CONDUCTANCE LAB (US/CM) (90095)	TEMPERATURE WATER (DEG C) (00010)
NOV 13...	1405	32.19	1142	.80	170	746	1.1	9	7.2	7.5	123	140	7.3
JUN 13...	1330	22.28	1142	.80	182	730	1.0	9	7.2	7.3	149	150	7.9
AUG 26...	1245	28.07	1142	.78	168	730	.5	4	7.1	7.6	140	146	7.9

Date	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKALINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV 13...	52	15.5	3.33	2.32	5.52	60	48	1.91	.4	16.7	8.8	84	<.015
JUN 13...	56	16.5	3.64	2.53	5.54	62	59	1.50	.3	17.7	10.1	93	<.015
AUG 26...	56	16.6	3.59	2.43	5.73	62	57	1.41	.3	17.3	10.0	92	<.015

Date	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
NOV 13...	.034	<.002	.026	<.2
JUN 13...	.026	<.002	.022	<.2
AUG 26...	.026	<.002	.025	<.2

0Remark codes used in this report:
 < -- Less than

GROUND-WATER RECORDS

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.

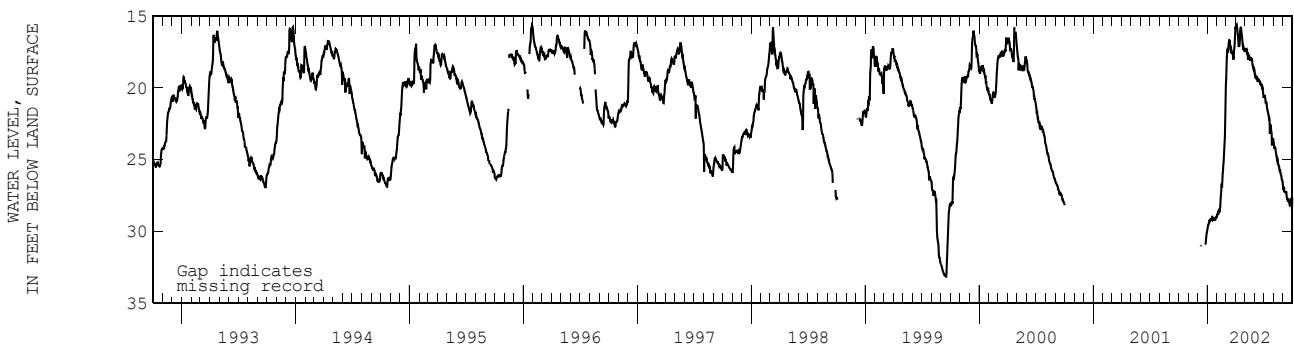
PERIOD OF RECORD.--November 1989 to Sept. 2000, December 2001 to September 2002.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	29.83	28.78	19.79	15.71	17.37	18.73	20.61	23.77	27.06
2	---	---	---	29.71	28.88	19.36	15.88	17.37	19.09	20.59	23.89	27.10
3	---	---	---	29.57	28.80	18.53	15.68	17.21	19.16	20.48	24.10	26.96
4	---	---	---	29.51	28.63	17.83	15.65	17.49	19.29	20.58	24.24	26.98
5	---	---	---	29.48	28.64	17.43	15.61	17.40	19.31	20.65	24.17	27.24
6	---	---	---	29.42	28.67	17.31	15.77	17.31	19.20	20.79	24.11	27.25
7	---	---	---	29.31	28.55	17.31	16.02	17.29	19.23	21.07	24.29	27.25
8	---	---	---	29.31	28.58	17.55	16.24	17.59	19.27	21.01	24.45	27.26
9	---	---	---	29.22	28.66	17.34	16.37	17.62	19.19	20.95	24.57	27.30
10	---	---	---	29.19	28.46	16.98	16.72	17.61	19.44	21.14	24.77	27.29
11	---	---	m31.01	29.18	28.26	16.76	17.12	17.97	19.58	21.35	24.83	27.28
12	---	---	---	29.27	27.76	16.66	17.08	17.97	19.50	21.51	24.99	27.57
13	---	---	---	29.11	27.49	16.68	17.07	17.96	19.34	21.59	24.93	27.67
14	---	---	---	29.27	27.18	16.76	16.91	17.72	19.40	21.70	25.08	27.75
15	---	---	---	29.12	26.87	17.04	16.55	17.76	19.50	21.79	25.34	27.72
16	---	---	---	29.16	26.66	17.11	16.03	17.82	19.51	21.91	25.29	27.77
17	---	---	---	29.08	26.96	17.33	15.82	17.85	19.51	22.05	25.34	27.72
18	---	---	---	29.15	26.51	17.29	15.79	17.93	19.52	21.99	25.46	27.96
19	---	---	---	29.21	25.98	17.51	15.82	18.12	19.67	22.23	25.49	27.90
20	---	---	---	29.18	25.79	17.49	16.04	17.99	19.66	23.20	25.73	27.97
21	---	---	---	29.12	25.36	17.48	16.26	17.96	19.77	22.60	25.72	28.12
22	---	---	---	29.18	25.14	17.56	16.45	18.06	19.80	22.59	25.72	28.19
23	---	---	---	29.18	24.79	17.67	16.65	17.97	19.71	22.63	25.92	28.17
24	---	---	---	29.14	24.34	17.81	17.03	17.98	19.79	22.99	25.99	28.15
25	---	---	---	29.26	23.80	17.98	17.16	18.35	19.96	23.05	26.04	27.92
26	---	---	30.93	29.21	23.35	18.01	17.12	18.42	20.03	23.19	26.18	27.76
27	---	---	30.67	29.16	22.51	17.56	17.26	18.49	20.00	24.01	26.37	27.79
28	---	---	30.42	29.04	20.77	17.28	17.32	18.59	20.27	23.54	26.40	27.73
29	---	---	30.22	29.01	---	17.09	17.25	18.70	20.51	23.56	26.45	28.46
30	---	---	30.06	29.01	---	16.64	17.35	18.75	20.69	23.61	26.58	27.65
31	---	---	29.97	29.01	---	16.18	---	18.67	---	23.59	26.87	---
LOW	---	---	---	29.83	28.88	19.79	17.35	18.75	20.69	24.01	26.87	28.46
HIGH	---	---	---	29.01	20.77	16.18	15.61	17.21	18.73	20.48	23.77	26.96

m Measured



GROUND-WATER RECORDS

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 Nov. 19 and Sept. 18-30.

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

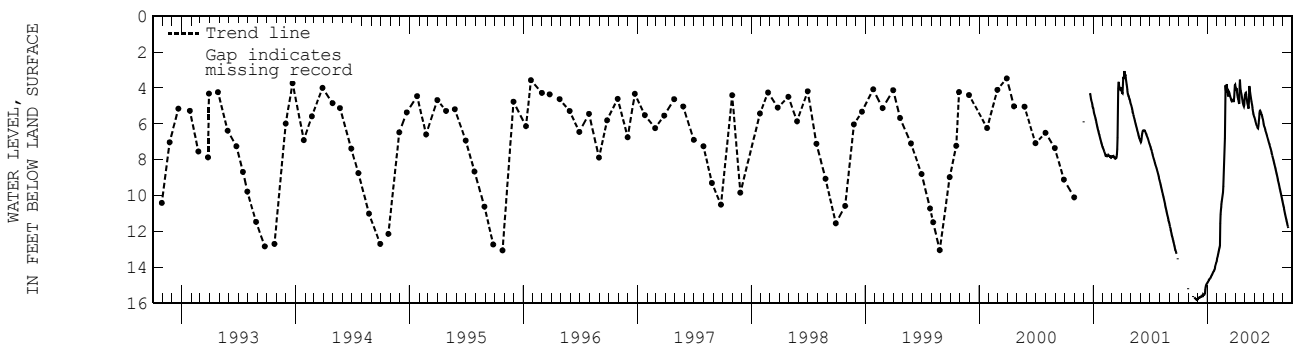
REVISED RECORDS.--WRD ME-82-1: 1978, 1979, 1981.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	15.76	14.86	13.54	4.10	3.95	4.40	5.63	6.08	8.04	10.54
2	---	---	15.76	14.83	13.48	4.25	3.99	4.38	5.69	6.14	8.12	10.61
3	---	---	15.73	14.80	13.40	3.89	4.13	4.27	5.77	6.18	8.20	10.68
4	---	---	15.72	14.77	13.29	3.78	4.01	4.25	5.85	6.23	8.27	10.77
5	---	---	15.70	14.75	13.21	4.07	4.11	4.35	5.92	6.28	8.34	10.85
6	---	---	15.67	14.72	13.13	4.21	4.26	4.47	5.98	6.35	8.41	10.94
7	---	---	15.67	14.68	13.03	4.32	4.40	4.57	6.04	6.41	8.49	11.03
8	---	---	15.68	14.67	12.95	4.40	4.50	4.70	6.09	6.47	8.57	11.12
9	---	---	15.67	14.63	12.88	4.46	4.58	4.83	6.12	6.52	8.66	11.19
10	---	---	15.66	14.61	12.79	4.39	4.65	4.90	6.18	6.59	8.74	11.27
11	---	---	15.66	14.59	11.56	4.20	4.76	4.99	6.24	6.65	8.81	11.34
12	---	---	15.65	14.57	11.04	4.24	4.83	5.09	6.25	6.72	8.89	11.43
13	---	---	15.61	14.52	10.81	4.33	4.88	5.14	6.14	6.78	8.97	11.51
14	---	---	15.62	14.49	10.64	4.38	3.87	4.77	5.98	6.85	9.05	11.59
15	---	---	15.62	14.43	10.49	4.46	3.53	3.89	5.85	6.91	9.13	11.66
16	---	m15.64	15.62	14.41	10.34	4.50	3.72	3.96	5.68	6.97	9.20	11.73
17	---	---	15.59	14.37	10.22	4.58	4.00	4.13	5.42	7.04	9.27	11.81
18	---	---	15.53	14.34	10.09	4.65	4.15	4.29	5.28	7.10	9.35	---
19	---	---	15.57	14.30	9.96	4.69	4.26	4.39	5.25	7.17	9.44	---
20	---	15.68	15.56	14.27	9.83	4.74	4.33	4.52	5.29	7.23	9.53	---
21	---	15.70	15.55	14.23	9.49	4.73	4.44	4.63	5.33	7.29	9.61	---
22	---	15.73	15.54	14.20	8.93	4.68	4.55	4.75	5.40	7.34	9.68	---
23	---	15.75	15.52	14.17	8.35	4.65	4.65	4.86	5.45	7.40	9.77	---
24	---	15.77	15.47	14.12	7.83	4.67	4.77	4.95	5.48	7.48	9.85	---
25	---	15.77	15.27	14.03	7.37	4.72	4.86	5.08	5.56	7.55	9.93	---
26	---	15.77	15.13	13.97	6.81	4.78	4.92	5.19	5.63	7.62	10.02	---
27	---	15.80	15.05	13.91	5.06	4.72	4.98	5.29	5.69	7.69	10.10	---
28	---	15.83	15.00	13.84	3.84	4.50	5.02	5.39	5.77	7.76	10.19	---
29	---	15.83	14.97	13.78	---	4.18	4.95	5.48	5.88	7.83	10.28	---
30	---	15.82	14.93	13.73	---	3.85	4.63	5.54	6.00	7.90	10.36	---
31	m15.20	---	14.89	13.65	---	3.82	---	5.60	---	7.97	10.46	---
MEAN	---	---	15.50	14.36	10.51	4.39	4.42	4.74	5.76	6.98	9.22	---
LOW	---	---	15.76	14.86	13.54	4.78	5.02	5.60	6.25	7.97	10.46	---
HIGH	---	---	14.89	13.65	3.84	3.78	3.53	3.89	5.25	6.08	8.04	---

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 2.7 ft above the general land surface.

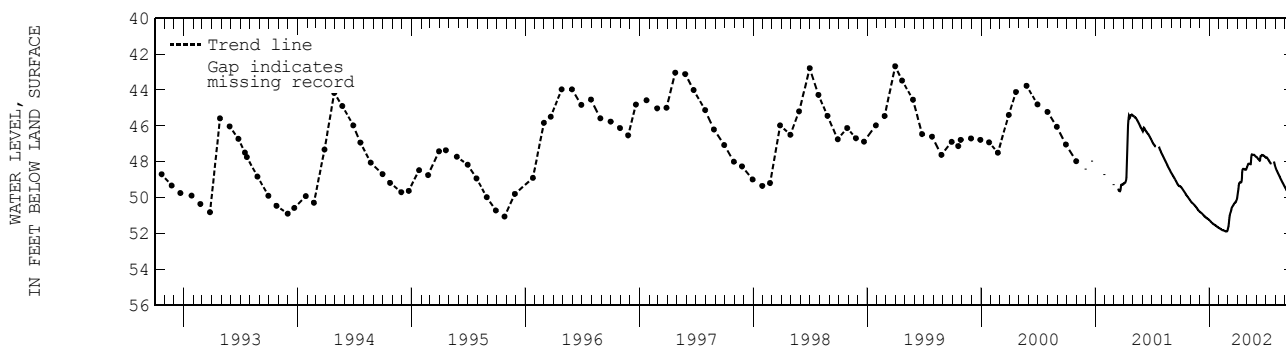
REMARKS.--Record affected by integrity test, July 20-26.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.39	50.18	50.79	51.27	51.70	51.74	49.90	48.33	47.74	47.78	48.31	49.45
2	49.41	50.20	50.80	51.28	51.71	51.68	49.77	48.29	47.75	47.77	48.36	49.48
3	49.43	50.23	50.82	51.30	51.72	51.61	49.64	48.23	47.77	47.76	48.41	49.51
4	49.45	50.25	50.83	51.32	51.73	51.45	49.52	48.19	47.80	47.76	48.45	49.54
5	49.48	50.27	50.84	51.33	51.74	51.26	49.33	48.15	47.82	47.78	48.49	49.57
6	49.50	50.29	50.86	51.35	51.75	51.12	49.23	48.13	47.84	47.81	48.53	49.60
7	49.53	50.30	50.88	51.37	51.77	51.02	49.19	48.11	47.86	47.83	48.57	49.63
8	49.56	50.31	50.89	51.39	51.78	50.95	49.16	48.11	47.88	47.87	48.61	49.66
9	49.58	50.33	50.91	51.40	51.80	50.90	49.15	48.12	47.90	47.89	48.65	49.70
10	49.61	50.34	50.93	51.42	51.81	50.84	49.14	48.12	47.92	47.91	48.68	49.73
11	49.64	50.36	50.95	51.44	51.82	50.78	49.15	48.13	47.94	47.94	48.72	49.76
12	49.67	50.38	50.96	51.46	51.82	50.69	49.15	48.14	47.94	47.97	48.76	49.79
13	49.70	50.40	50.98	51.47	51.82	50.62	49.15	48.14	47.76	48.00	48.79	49.82
14	49.72	50.42	51.00	51.48	51.82	50.57	49.11	48.05	47.69	48.03	48.83	49.85
15	49.75	50.44	51.02	51.50	51.83	50.53	48.89	47.76	47.69	48.06	48.86	49.88
16	49.78	50.46	51.04	51.51	51.84	50.50	48.63	47.64	47.68	48.08	48.90	49.91
17	49.80	50.48	51.06	51.52	51.85	50.47	48.48	47.60	47.65	48.10	48.94	49.91
18	49.83	50.51	51.07	51.53	51.85	50.44	48.42	47.61	47.63	48.11	48.97	49.92
19	49.85	50.53	51.09	51.54	51.86	50.41	48.41	47.61	47.64	48.13	49.00	49.93
20	49.88	50.55	51.10	51.55	51.87	50.39	48.40	47.61	47.64	---	49.04	49.95
21	49.90	50.57	51.12	51.57	51.88	50.35	48.40	47.61	47.64	---	49.08	49.96
22	49.92	50.60	51.13	51.58	51.89	50.32	48.41	47.61	47.65	---	49.11	49.98
23	49.95	50.63	51.14	51.59	51.89	50.30	48.41	47.61	47.66	---	49.15	50.00
24	49.97	50.65	51.16	51.60	51.89	50.28	48.43	47.61	47.66	---	49.18	50.02
25	50.00	50.68	51.17	51.62	51.89	50.27	48.44	47.63	47.68	---	49.22	50.04
26	50.02	50.70	51.18	51.63	51.89	50.27	48.44	47.65	47.69	---	49.25	50.06
27	50.05	50.72	51.19	51.64	51.88	50.24	48.44	47.66	47.70	47.99	49.29	50.08
28	50.07	50.74	51.20	51.65	51.84	50.20	48.44	47.68	47.72	48.06	49.32	50.10
29	50.10	50.76	51.22	51.67	---	50.16	48.42	47.70	47.74	48.13	49.35	50.10
30	50.13	50.77	51.23	51.68	---	50.11	48.39	47.72	47.77	48.20	49.39	50.11
31	50.15	---	51.25	51.69	---	50.02	---	47.73	---	48.26	49.42	---
LOW	50.15	50.77	51.25	51.69	51.89	51.74	49.90	48.33	47.94	---	49.42	50.11
HIGH	49.39	50.18	50.79	51.27	51.70	50.02	48.39	47.60	47.63	---	48.31	49.45



GROUND-WATER RECORDS

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 2.2 ft above the general land surface.

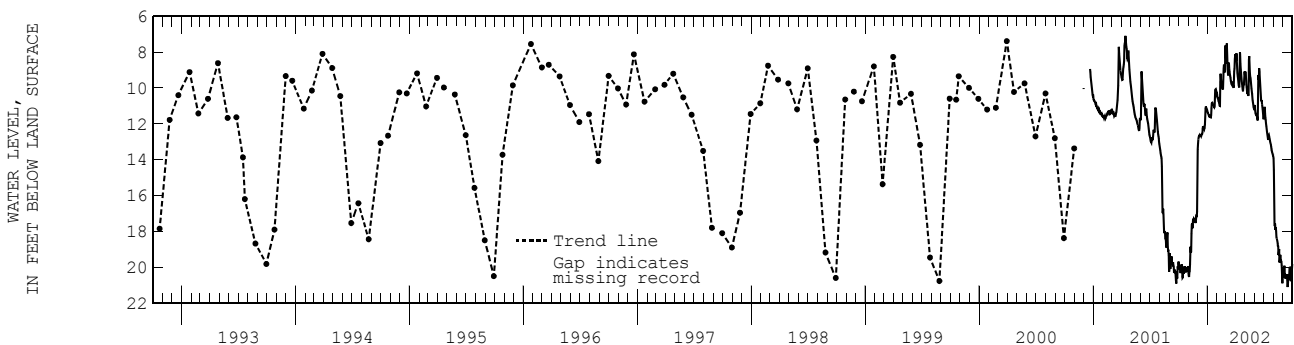
PERIOD OF RECORD.--November 1978 to current year.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.68	20.32	13.41	11.31	10.35	8.24	8.11	9.26	10.95	11.63	13.91	20.30
2	19.90	20.47	13.10	11.38	10.48	8.62	8.22	9.37	11.08	11.23	14.57	20.10
3	20.07	20.54	12.88	11.41	10.56	7.81	8.47	9.08	11.25	11.05	16.54	20.28
4	20.07	20.26	12.75	11.46	10.56	7.51	8.06	9.36	11.40	11.20	17.64	20.02
5	20.07	20.22	12.71	11.51	10.66	8.16	8.50	9.61	11.46	11.42	17.65	19.91
6	20.04	19.82	12.64	11.54	10.75	8.59	8.86	9.80	11.48	11.64	17.64	20.36
7	20.33	19.46	12.61	11.53	10.78	8.94	9.15	9.96	11.42	11.80	17.92	20.39
8	19.94	18.85	12.66	11.61	10.84	9.18	9.34	10.17	11.53	11.99	17.78	20.63
9	20.07	19.18	12.65	11.61	10.98	9.30	9.48	10.31	11.60	12.13	17.98	20.43
10	19.84	19.15	12.66	11.62	11.00	8.73	9.65	10.22	11.72	12.29	18.31	20.50
11	19.94	18.13	12.66	11.63	9.66	8.58	9.83	10.35	11.81	12.44	18.40	20.58
12	20.09	17.64	12.70	11.64	9.20	8.90	9.92	10.44	10.81	12.57	18.46	20.39
13	20.58	17.57	12.63	11.52	9.44	9.09	9.97	10.36	9.28	12.70	18.57	20.48
14	20.56	17.83	12.57	11.12	9.67	9.23	8.70	8.41	9.46	12.82	18.68	20.77
15	20.22	17.61	12.56	10.85	9.80	9.32	8.01	8.22	9.53	12.89	18.83	21.10
16	20.15	17.29	12.46	10.82	9.89	9.44	8.10	8.76	8.90	12.67	18.80	20.90
17	20.36	17.39	12.28	10.82	9.88	9.60	8.65	9.14	9.11	12.63	19.33	20.69
18	20.27	17.51	12.14	10.86	10.01	9.68	8.95	9.36	9.48	12.71	19.19	20.40
19	20.06	17.30	12.21	10.95	10.05	9.77	9.16	9.41	9.85	12.82	18.99	20.58
20	19.94	17.33	12.19	10.96	10.08	9.80	9.37	9.62	10.15	12.90	19.74	20.42
21	20.20	17.25	12.22	10.98	9.62	9.75	9.61	9.81	10.41	13.01	19.63	20.03
22	20.17	17.44	12.28	11.06	8.91	9.65	9.77	10.02	10.65	13.07	19.36	20.02
23	20.23	17.46	12.19	11.09	8.69	9.75	9.91	10.19	10.74	13.14	19.31	20.16
24	20.29	17.53	12.06	11.02	8.91	9.86	10.08	10.35	10.68	13.27	19.59	20.70
25	20.17	17.38	11.52	10.44	9.09	9.94	10.18	10.56	10.90	13.38	19.65	20.72
26	20.06	17.16	11.15	10.15	9.13	9.99	9.98	10.68	11.04	13.46	19.68	20.47
27	20.12	17.16	11.03	10.07	8.06	9.59	9.78	10.79	11.19	13.54	19.90	20.54
28	20.26	17.20	11.08	10.06	7.62	9.06	9.78	10.93	11.39	13.61	20.35	20.29
29	19.98	16.89	11.12	10.13	---	8.92	9.43	11.05	11.60	13.67	20.90	20.12
30	20.03	15.04	11.17	10.25	---	8.38	9.07	11.12	11.74	13.74	20.03	19.82
31	19.96	---	11.23	10.37	---	8.19	---	11.09	---	13.82	20.57	---
LOW	20.58	20.54	13.41	11.64	11.00	9.99	10.18	11.12	11.81	13.82	20.90	21.10
HIGH	19.68	15.04	11.03	10.06	7.62	7.51	8.01	8.22	8.90	11.05	13.91	19.82



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.

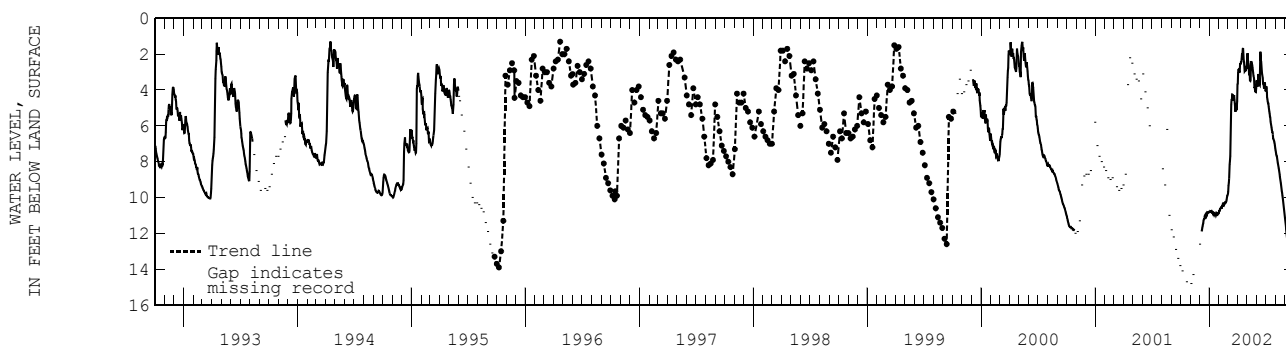
PERIOD OF RECORD.--October 1989 to October 2000. December 2001 to September 2002.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	10.81	10.72	9.83	3.70	2.44	3.52	4.03	7.36	11.29
2	---	---	m12.6	10.81	10.78	9.68	3.65	2.13	3.46	3.79	7.46	11.45
3	---	---	---	10.77	10.71	9.34	3.02	1.95	3.69	3.91	7.59	11.62
4	---	m14.8	---	10.79	10.64	9.19	2.86	2.30	3.81	4.14	7.65	11.79
5	---	---	---	10.80	10.63	8.91	2.84	2.42	3.72	4.40	7.69	11.96
6	---	---	---	10.78	10.61	8.48	2.94	2.52	3.27	4.52	7.81	12.14
7	m14.1	---	11.89	10.76	10.55	8.16	3.04	2.62	3.11	4.64	7.94	12.31
8	---	---	11.81	10.80	10.55	7.95	2.98	3.03	3.23	4.73	8.07	12.47
9	---	---	11.69	10.77	10.62	7.68	2.58	3.01	3.34	4.74	8.17	12.64
10	---	---	11.59	10.81	10.51	6.90	2.51	3.03	3.70	4.93	8.27	12.79
11	---	m14.3	11.51	10.82	10.48	5.54	2.57	3.47	3.73	5.07	8.37	12.94
12	---	---	11.43	10.87	10.42	4.81	2.39	3.48	2.66	5.20	8.49	13.11
13	---	---	11.28	10.81	10.46	4.55	2.46	3.40	1.86	5.31	8.60	13.26
14	---	---	11.22	10.97	10.45	4.54	2.26	2.51	2.09	5.46	8.73	13.40
15	---	---	11.21	10.92	10.37	4.26	2.01	2.39	2.33	5.53	8.85	13.53
16	---	---	11.18	10.97	10.33	4.26	1.99	2.51	2.39	5.77	8.96	13.65
17	---	---	11.07	10.93	10.33	4.59	1.99	2.52	2.64	5.87	9.08	13.75
18	---	---	10.97	10.96	10.38	4.41	1.71	2.57	2.94	5.98	9.20	13.82
19	---	---	11.02	10.98	10.34	4.47	1.65	2.74	3.12	6.10	9.34	13.86
20	---	---	10.96	10.96	10.30	4.40	1.98	2.89	3.22	6.23	9.49	13.90
21	m14.7	---	11.00	10.93	10.25	4.28	2.32	3.03	3.34	6.32	9.64	13.95
22	---	---	11.03	11.00	10.25	4.53	2.45	3.21	3.63	6.34	9.75	14.00
23	---	---	10.95	10.95	10.27	4.71	2.71	3.27	3.64	6.48	9.90	14.04
24	---	---	10.89	10.91	10.23	4.99	2.95	3.42	3.73	6.70	10.02	14.09
25	---	---	10.93	10.95	10.13	5.21	2.92	3.87	3.92	6.74	10.17	14.13
26	---	---	10.87	10.97	10.02	5.12	2.88	3.84	3.87	6.76	10.33	14.17
27	---	---	10.83	10.97	9.90	4.76	2.94	3.96	3.57	6.80	10.50	14.18
28	---	---	10.82	10.90	9.88	5.02	2.85	4.07	3.65	6.89	10.66	14.24
29	---	---	10.82	10.87	---	5.13	2.78	4.10	3.93	6.97	10.80	14.30
30	---	---	10.80	10.88	---	4.92	2.82	4.11	4.08	7.10	10.96	14.28
31	---	---	10.81	10.87	---	4.62	---	3.89	---	7.24	11.15	---
LOW	---	---	---	11.00	10.78	9.83	3.70	4.11	4.08	7.24	11.15	14.30
HIGH	---	---	---	10.76	9.88	4.26	1.65	1.95	1.86	3.79	7.36	11.29

m Measured



GROUND-WATER RECORDS

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 1.2 ft above the general land surface.

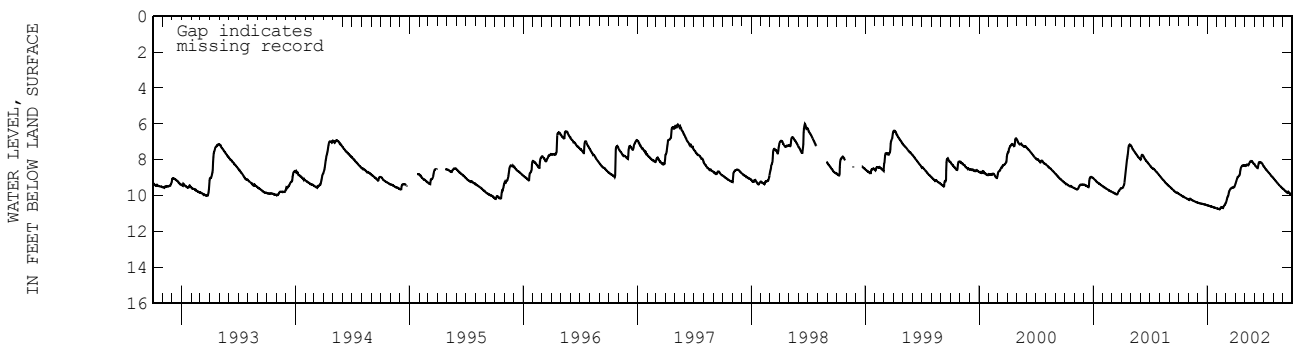
PERIOD OF RECORD.--September 1980 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 4.07 ft below land-surface datum, corrected, June 3, 1984; lowest recorded, 10.77 ft below land-surface datum, Feb. 9-10, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.89	10.21	10.40	10.54	10.71	10.40	9.35	8.34	8.24	8.38	9.04	9.64
2	9.91	10.22	10.40	10.55	10.73	10.38	9.30	8.33	8.28	8.40	9.06	9.65
3	9.92	10.23	10.41	10.55	10.73	10.32	9.24	8.32	8.32	8.43	9.09	9.66
4	9.93	10.24	10.41	10.56	10.73	10.22	9.19	8.33	8.35	8.45	9.11	9.68
5	9.94	10.22	10.42	10.57	10.74	10.15	9.13	8.32	8.36	8.48	9.12	9.69
6	9.96	10.18	10.42	10.57	10.75	10.10	9.07	8.30	8.38	8.50	9.14	9.71
7	9.97	10.17	10.43	10.57	10.75	10.06	9.03	8.28	8.41	8.52	9.17	9.73
8	9.98	10.18	10.43	10.58	10.76	10.04	8.99	8.30	8.43	8.55	9.19	9.75
9	9.99	10.20	10.44	10.59	10.77	10.01	8.95	8.29	8.44	8.56	9.21	9.76
10	10.00	10.21	10.44	10.59	10.77	9.91	8.94	8.28	8.46	8.58	9.23	9.78
11	10.01	10.23	10.45	10.60	10.73	9.82	8.93	8.31	8.47	8.61	9.25	9.79
12	10.02	10.24	10.45	10.61	10.67	9.77	8.91	8.32	8.41	8.63	9.27	9.81
13	10.04	10.26	10.45	10.61	10.66	9.74	8.89	8.30	8.28	8.65	9.30	9.83
14	10.05	10.27	10.46	10.62	10.65	9.70	8.85	8.25	8.21	8.67	9.32	9.85
15	10.05	10.28	10.46	10.62	10.65	9.64	8.78	8.22	8.17	8.69	9.34	9.86
16	10.06	10.29	10.47	10.63	10.66	9.62	8.68	8.17	8.14	8.71	9.35	9.81
17	10.07	10.30	10.47	10.63	10.67	9.61	8.57	8.13	8.13	8.74	9.37	9.78
18	10.08	10.30	10.47	10.64	10.68	9.59	8.50	8.11	8.13	8.75	9.39	9.80
19	10.09	10.31	10.48	10.65	10.68	9.58	8.44	8.09	8.15	8.78	9.41	9.82
20	10.10	10.32	10.48	10.65	10.69	9.57	8.40	8.08	8.15	8.79	9.43	9.85
21	10.11	10.33	10.49	10.66	10.67	9.56	8.37	8.08	8.15	8.82	9.46	9.87
22	10.12	10.34	10.50	10.67	10.62	9.56	8.35	8.08	8.17	8.84	9.47	9.88
23	10.13	10.35	10.50	10.67	10.58	9.55	8.33	8.08	8.17	8.86	9.49	9.90
24	10.14	10.35	10.50	10.68	10.55	9.55	8.33	8.08	8.18	8.89	9.50	9.91
25	10.15	10.36	10.51	10.68	10.53	9.56	8.32	8.12	8.21	8.91	9.52	9.93
26	10.16	10.36	10.51	10.68	10.52	9.55	8.32	8.14	8.23	8.93	9.54	9.94
27	10.17	10.37	10.52	10.69	10.49	9.53	8.34	8.16	8.25	8.94	9.56	9.94
28	10.18	10.38	10.52	10.69	10.44	9.52	8.33	8.19	8.29	8.96	9.58	9.94
29	10.19	10.39	10.53	10.70	---	9.50	8.32	8.22	8.34	8.97	9.59	9.95
30	10.20	10.39	10.53	10.71	---	9.46	8.33	8.23	8.37	8.99	9.61	9.97
31	10.21	---	10.54	10.71	---	9.41	---	8.23	---	9.02	9.63	---
LOW	10.21	10.39	10.54	10.71	10.77	10.40	9.35	8.34	8.47	9.02	9.63	9.97
HIGH	9.89	10.17	10.40	10.54	10.44	9.41	8.32	8.08	8.13	8.38	9.04	9.64



GROUND-WATER RECORDS

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.

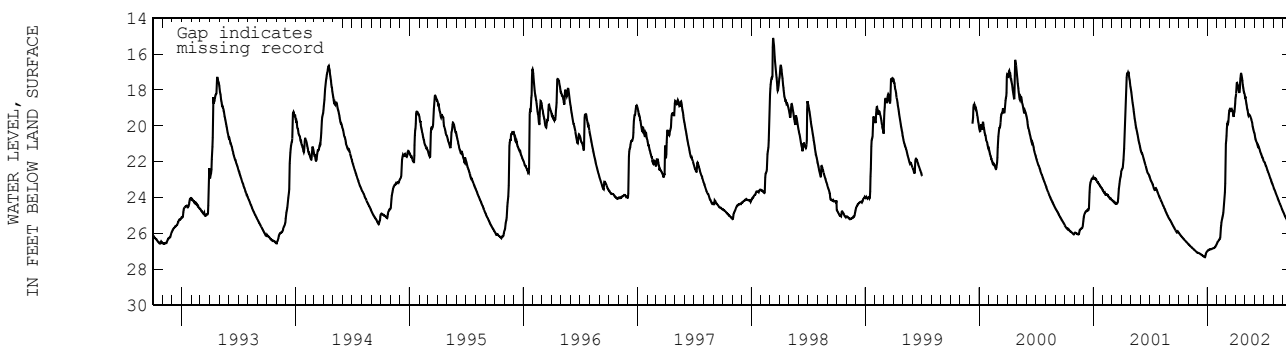
PERIOD OF RECORD.--April 1978 to current year.

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, 267.32 ft below land-surface datum, Dec. 24, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.96	26.60	27.08	26.98	26.56	20.99	18.46	18.33	20.42	21.99	23.42	24.81
2	25.98	26.62	27.08	26.96	26.52	20.83	18.36	18.44	20.52	22.01	23.47	24.84
3	26.01	26.64	27.09	26.95	26.49	20.56	18.19	18.43	20.65	22.03	23.52	24.88
4	26.03	26.65	27.10	26.93	26.45	20.17	17.90	18.59	20.74	22.06	23.56	24.91
5	26.06	26.67	27.10	26.92	26.42	19.92	17.61	18.69	20.78	22.09	23.59	24.95
6	26.08	26.68	27.11	26.91	26.40	19.86	17.60	18.77	20.83	22.14	23.64	25.00
7	26.10	26.71	27.13	26.91	26.37	19.88	17.68	18.84	20.87	22.19	23.69	25.04
8	26.13	26.72	27.14	26.90	26.34	19.90	17.72	18.98	20.93	22.24	23.75	25.08
9	26.15	26.74	27.15	26.89	26.33	19.83	17.74	19.07	20.96	22.27	23.80	25.11
10	26.17	26.75	27.16	26.89	26.30	19.61	17.86	19.11	21.05	22.33	23.84	25.14
11	26.19	26.77	27.17	26.88	26.22	19.34	18.02	19.27	21.11	22.39	23.88	25.17
12	26.21	26.79	27.19	26.89	25.93	19.16	18.08	19.37	21.15	22.44	23.92	25.22
13	26.24	26.80	27.20	26.88	25.69	19.11	18.16	19.44	21.11	22.49	23.97	25.26
14	26.26	26.82	27.21	26.88	25.54	19.06	18.07	19.40	21.15	22.54	24.01	25.30
15	26.28	26.84	27.22	26.87	25.41	19.08	17.87	19.37	21.21	22.58	24.06	25.33
16	26.30	26.85	27.24	26.86	25.31	19.07	17.56	19.39	21.24	22.64	24.10	25.34
17	26.32	26.87	27.25	26.85	25.22	19.14	17.35	19.41	21.27	22.69	24.14	25.34
18	26.34	26.89	27.26	26.84	25.13	19.12	17.18	19.46	21.34	22.73	24.19	25.37
19	26.35	26.90	27.27	26.84	25.04	19.14	17.05	19.49	21.41	22.79	24.23	25.40
20	26.37	26.92	27.28	26.83	24.96	19.13	17.11	19.54	21.47	22.84	24.28	25.43
21	26.39	26.94	27.29	26.82	24.86	19.09	17.24	19.60	21.51	22.90	24.34	25.47
22	26.41	26.95	27.31	26.81	24.68	19.13	17.34	19.68	21.57	22.94	24.37	25.50
23	26.43	26.97	27.31	26.80	24.46	19.22	17.47	19.74	21.61	22.98	24.41	25.53
24	26.45	26.99	27.32	26.79	24.20	19.32	17.67	19.79	21.65	23.06	24.45	25.52
25	26.46	27.00	27.30	26.78	23.94	19.44	17.80	19.94	21.73	23.11	24.49	25.54
26	26.48	27.02	27.22	26.76	23.71	19.50	17.89	20.01	21.77	23.15	24.54	25.56
27	26.50	27.04	27.14	26.73	23.21	19.35	18.03	20.09	21.77	23.18	24.59	25.58
28	26.53	27.05	27.09	26.70	21.65	19.26	18.13	20.17	21.83	23.22	24.64	25.55
29	26.54	27.07	27.05	26.66	---	19.19	18.15	20.25	21.91	23.26	24.68	25.47
30	26.56	27.08	27.02	26.63	---	18.98	18.21	20.31	21.96	23.31	24.72	25.46
31	26.58	---	27.00	26.60	---	18.76	---	20.36	---	23.36	24.77	---
LOW	26.58	27.08	27.32	26.98	26.56	20.99	18.46	20.36	21.96	23.36	24.77	25.58
HIGH	25.96	26.60	27.00	26.60	21.65	18.76	17.05	18.33	20.42	21.99	23.42	24.81



GROUND-WATER RECORDS

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.

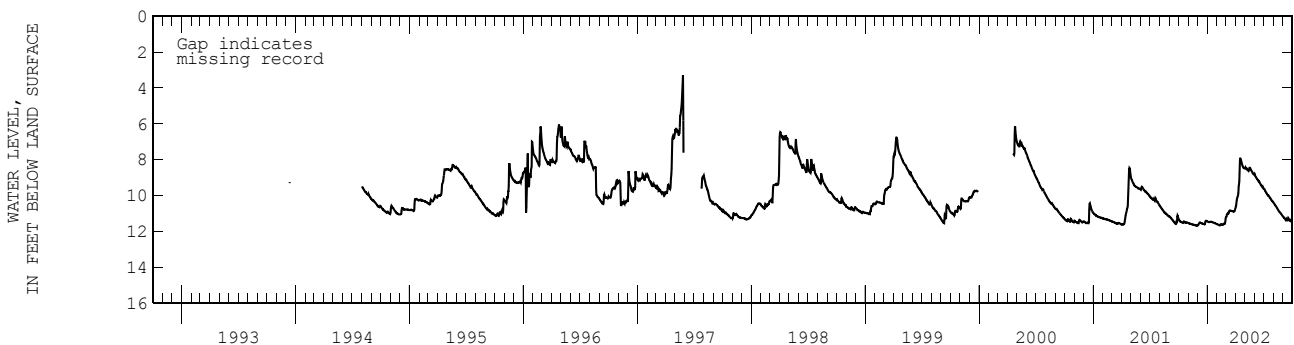
DATUM.--Elevation of land-surface datum is 520 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.30	11.54	11.68	11.45	11.59	11.22	10.72	8.49	8.79	9.63	10.40	11.20
2	11.34	11.54	11.65	11.46	11.61	11.20	10.64	8.49	8.84	9.63	10.42	11.22
3	11.38	11.55	11.63	11.47	11.62	11.17	10.55	8.44	8.90	9.66	10.45	11.24
4	11.41	11.56	11.61	11.48	11.62	11.10	10.40	8.47	8.93	9.69	10.48	11.24
5	11.44	11.56	11.57	11.48	11.63	11.04	10.26	8.48	8.95	9.73	10.50	11.25
6	11.45	11.57	11.53	11.48	11.64	11.01	10.17	8.48	8.98	9.76	10.53	11.28
7	11.46	11.58	11.51	11.48	11.65	11.00	10.11	8.49	9.02	9.79	10.55	11.31
8	11.47	11.59	11.50	11.48	11.65	11.01	10.06	8.54	9.04	9.82	10.58	11.34
9	11.48	11.59	11.51	11.47	11.66	11.02	10.01	8.55	9.07	9.84	10.61	11.36
10	11.49	11.59	11.52	11.47	11.67	10.99	9.85	8.55	9.10	9.88	10.64	11.39
11	11.49	11.60	11.53	11.46	11.63	10.91	9.50	8.60	9.13	9.91	10.66	11.38
12	11.50	11.60	11.54	11.46	11.60	10.86	9.38	8.61	9.14	9.94	10.69	11.29
13	11.51	11.61	11.55	11.46	11.61	10.84	9.18	8.63	9.16	9.97	10.72	11.31
14	11.52	11.61	11.55	11.47	11.61	10.84	8.57	8.58	9.20	10.0	10.75	11.35
15	11.52	11.62	11.56	11.48	11.62	10.83	8.03	8.50	9.23	10.0	10.78	11.37
16	11.52	11.62	11.57	11.48	11.62	10.84	7.93	8.45	9.22	10.00	10.81	11.31
17	11.49	11.63	11.57	11.49	11.62	10.85	7.94	8.45	9.25	10.03	10.84	11.26
18	11.45	11.63	11.58	11.49	11.62	10.85	7.97	8.48	9.29	10.06	10.86	11.29
19	11.46	11.64	11.59	11.50	11.62	10.86	8.04	8.52	9.32	10.09	10.89	11.32
20	11.47	11.64	11.59	11.51	11.63	10.86	8.12	8.55	9.35	10.11	10.91	11.36
21	11.49	11.65	11.60	11.51	11.62	10.87	8.19	8.58	9.38	10.14	10.94	11.38
22	11.50	11.65	11.61	11.52	11.59	10.87	8.24	8.62	9.42	10.16	10.95	11.39
23	11.51	11.66	11.61	11.53	11.57	10.88	8.30	8.64	9.44	10.19	10.97	11.40
24	11.51	11.66	11.61	11.54	11.56	10.89	8.36	8.66	9.46	10.22	10.99	11.40
25	11.51	11.67	11.49	11.54	11.56	10.89	8.39	8.71	9.50	10.25	11.02	11.42
26	11.49	11.67	11.43	11.55	11.57	10.90	8.41	8.73	9.52	10.27	11.04	11.43
27	11.49	11.67	11.41	11.56	11.51	10.89	8.46	8.76	9.50	10.29	11.07	11.45
28	11.51	11.68	11.41	11.57	11.31	10.88	8.47	8.79	9.55	10.32	11.10	11.31
29	11.52	11.68	11.42	11.57	---	10.87	8.47	8.82	9.59	10.33	11.12	11.24
30	11.53	11.69	11.43	11.58	---	10.84	8.48	8.82	9.62	10.34	11.14	11.26
31	11.53	---	11.44	11.59	---	10.79	---	8.80	---	10.37	11.17	---
LOW	11.53	11.69	11.68	11.59	11.67	11.22	10.72	8.82	9.62	10.37	11.17	11.45
HIGH	11.30	11.54	11.41	11.45	11.31	10.79	7.93	8.44	8.79	9.63	10.40	11.20



GROUND-WATER RECORDS

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.

REMARKS.--Missing record, June 27 to July 8.

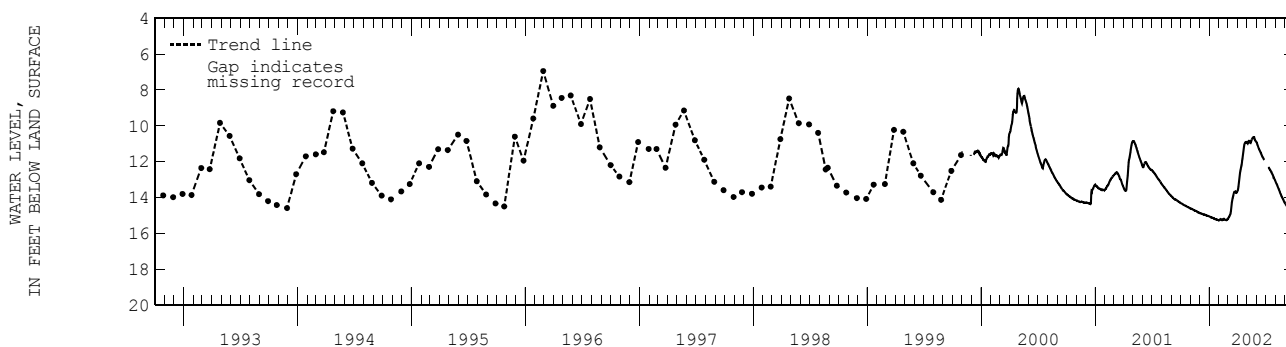
PERIOD OF RECORD.--January 1985 to November 1985, October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.94 ft below land-surface datum, Feb. 27, 1996; lowest measured, 15.28 ft below land-surface datum, Jan. 31, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.31	14.61	14.86	15.06	15.27	15.19	13.64	10.96	10.91	---	13.10	14.34
2	14.32	14.61	14.87	15.07	15.27	15.19	13.60	10.96	10.94	---	13.14	14.37
3	14.33	14.62	14.87	15.08	15.26	15.14	13.51	10.94	11.00	---	13.19	14.39
4	14.34	14.63	14.88	15.08	15.22	15.09	13.39	10.97	11.06	---	13.23	14.41
5	14.35	14.63	14.89	15.10	15.20	15.07	13.25	10.93	11.10	---	13.26	14.43
6	14.35	14.64	14.89	15.10	15.21	15.05	13.08	10.89	11.14	---	13.29	14.47
7	14.36	14.65	14.90	15.10	15.21	15.02	12.91	10.86	11.21	---	13.34	14.49
8	14.38	14.66	14.91	15.11	15.22	14.99	12.76	10.88	11.25	---	13.39	14.52
9	14.40	14.66	14.92	15.12	15.25	14.95	12.62	10.88	11.28	m12.30	13.43	14.54
10	14.41	14.67	14.93	15.12	15.27	14.87	12.51	10.86	11.33	12.32	13.48	14.56
11	14.41	14.68	14.93	15.13	15.26	14.77	12.43	10.92	11.37	12.35	13.53	14.56
12	14.42	14.70	14.95	15.14	15.25	14.60	12.33	10.95	11.41	12.38	13.56	14.60
13	14.44	14.71	14.94	15.14	15.23	14.43	12.25	10.96	11.44	12.41	13.60	14.63
14	14.44	14.72	14.95	15.16	15.23	14.27	12.16	10.90	11.48	12.44	13.66	14.66
15	14.45	14.72	14.96	15.16	15.20	14.16	12.05	10.88	11.52	12.46	13.70	14.68
16	14.46	14.73	14.97	15.17	15.18	14.07	11.94	10.82	11.55	12.50	13.74	14.70
17	14.46	14.74	14.97	15.18	15.18	14.00	11.84	10.76	11.58	12.53	13.78	14.71
18	14.47	14.75	14.96	15.19	15.21	13.92	11.71	10.73	11.63	12.56	13.82	14.73
19	14.49	14.75	14.97	15.20	15.23	13.84	11.55	10.69	11.68	12.60	13.86	14.76
20	14.49	14.76	14.98	15.20	15.25	13.78	11.40	10.66	11.72	12.64	13.91	14.78
21	14.50	14.77	14.98	15.21	15.25	13.72	11.28	10.63	11.75	12.68	13.95	14.79
22	14.51	14.78	15.00	15.21	15.25	13.68	11.15	10.63	11.78	12.71	13.98	14.82
23	14.52	14.80	15.01	15.22	15.26	13.67	11.05	10.62	11.81	12.74	14.02	14.84
24	14.53	14.81	15.01	15.22	15.27	13.67	11.00	10.62	11.84	12.78	14.06	14.86
25	14.53	14.82	15.01	15.23	15.27	13.69	10.96	10.70	11.88	12.88	14.08	14.88
26	14.54	14.82	15.02	15.24	15.26	13.71	10.92	10.74	11.90	12.88	14.12	14.90
27	14.55	14.83	15.02	15.25	15.23	13.68	10.94	10.77	---	12.91	14.17	14.91
28	14.57	14.84	15.03	15.25	15.19	13.71	10.94	10.81	---	12.95	14.21	14.92
29	14.58	14.85	15.03	15.26	---	13.73	10.92	10.85	---	12.98	14.24	14.95
30	14.59	14.86	15.04	15.26	---	13.72	10.95	10.87	---	13.01	14.27	14.98
31	14.60	---	15.05	15.28	---	13.69	---	10.88	---	13.05	14.32	---
LOW	14.60	14.86	15.05	15.28	15.27	15.19	13.64	10.97	---	---	14.32	14.98
HIGH	14.31	14.61	14.86	15.06	15.18	13.67	10.92	10.62	---	---	13.10	14.34

m Measured



GROUND-WATER RECORDS

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.

REMARKS.--Missing record, Oct. 11 to Dec. 25.

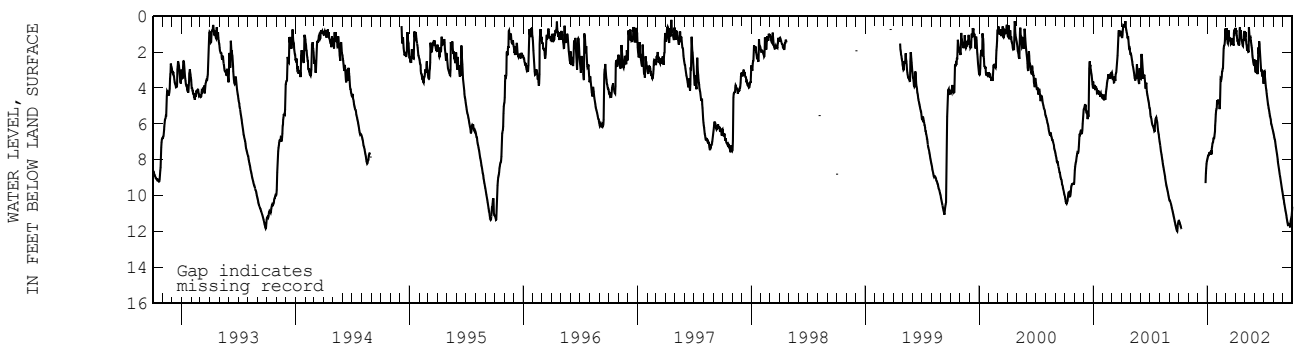
PERIOD OF RECORD.--November 1989 to current year.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.41	---	---	7.94	4.69	1.24	0.64	1.10	2.40	3.56	6.54	10.10
2	11.40	---	---	7.87	4.89	1.30	0.94	1.10	2.67	3.06	6.62	10.20
3	11.44	---	---	7.77	4.82	0.66	0.84	0.87	2.93	3.05	6.72	10.30
4	11.49	---	---	7.77	4.65	0.81	0.77	1.29	3.09	3.34	6.82	10.40
5	11.57	---	---	7.76	4.80	1.22	1.07	1.44	3.10	3.43	6.86	10.49
6	11.62	---	---	7.70	4.90	1.37	1.22	1.53	2.79	3.65	6.98	10.59
7	11.70	---	---	7.60	4.81	1.47	1.37	1.61	2.46	3.85	7.12	10.70
8	11.76	---	---	7.71	4.88	1.51	1.40	1.85	2.67	4.01	7.25	10.82
9	11.83	---	---	7.62	5.17	1.31	1.32	1.91	2.81	4.13	7.37	10.91
10	11.87	---	---	7.63	4.96	0.78	1.45	1.59	3.11	4.32	7.49	11.00
11	---	---	---	7.63	4.25	1.08	1.62	1.84	3.23	4.45	7.60	11.10
12	---	---	---	7.69	3.46	1.22	1.58	1.99	2.61	4.60	7.72	11.24
13	---	---	---	7.46	3.49	1.22	1.56	1.98	1.74	4.74	7.85	11.35
14	---	---	---	7.70	3.53	1.22	0.75	0.61	2.01	4.88	7.99	11.46
15	---	---	---	7.38	3.46	1.33	0.61	0.86	2.08	4.97	8.12	11.55
16	---	---	---	7.27	3.38	1.37	0.82	1.13	1.39	5.10	8.24	11.64
17	---	---	---	7.11	3.09	1.54	0.91	1.20	1.55	5.19	8.36	11.64
18	---	---	---	7.04	3.07	1.51	0.78	1.16	1.84	5.30	8.48	11.58
19	---	---	---	7.01	2.93	1.52	0.96	1.16	2.19	5.43	8.60	11.58
20	---	---	---	6.88	2.88	1.46	1.17	1.35	2.47	5.52	8.72	11.60
21	---	---	---	6.76	2.42	1.27	1.34	1.49	2.69	5.61	8.85	11.66
22	---	---	---	6.84	1.82	1.21	1.41	1.63	2.98	5.67	8.94	11.73
23	---	---	---	6.72	1.67	1.44	1.50	1.75	3.08	5.80	9.06	11.78
24	---	---	---	6.57	1.63	1.58	1.63	1.92	2.96	5.97	9.17	11.63
25	---	---	---	6.41	1.55	1.60	1.66	2.20	3.24	6.01	9.28	11.44
26	---	---	m9.31	6.09	1.36	1.59	1.34	2.27	3.37	6.08	9.40	11.32
27	---	---	8.78	5.83	0.68	0.93	1.32	2.39	3.11	6.13	9.54	11.23
28	---	---	8.48	5.47	0.86	0.87	1.37	2.54	3.34	6.22	9.67	11.16
29	---	---	8.25	5.26	---	0.91	0.95	2.65	3.62	6.28	9.76	10.91
30	---	---	8.09	5.17	---	0.72	0.82	2.70	3.76	6.38	9.88	10.62
31	---	---	8.01	5.13	---	0.86	---	2.72	---	6.45	10.01	---
LOW	---	---	---	7.94	5.17	1.60	1.66	2.72	3.76	6.45	10.01	11.78
HIGH	---	---	---	5.13	0.68	0.66	0.61	0.61	1.39	3.05	6.54	10.10

m Measured



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 0.8 ft above the general land surface.

REMARKS.--Missing record, Oct. 11 to Feb. 5.

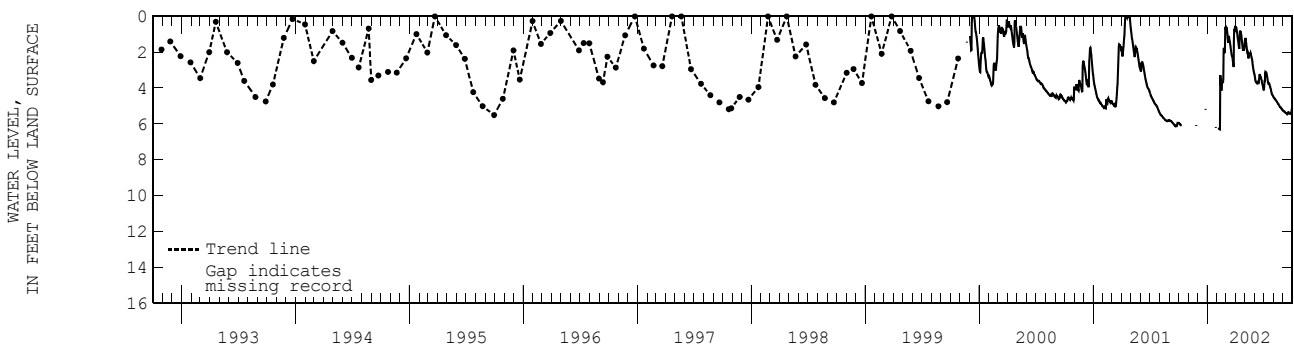
PERIOD OF RECORD.--September 1980 to current year.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.94	---	---	---	---	0.74	0.56	1.33	3.26	4.13	4.50	5.28
2	5.96	---	---	---	---	0.86	0.67	1.32	3.35	3.81	4.54	5.29
3	5.99	---	---	---	---	0.64	0.59	1.20	3.49	3.61	4.57	5.30
4	6.00	---	---	---	---	0.67	0.67	1.37	3.61	3.61	4.60	5.30
5	6.02	---	---	---	---	0.85	0.80	1.51	3.64	3.19	4.60	5.30
6	6.02	---	---	---	m6.31	1.01	0.89	1.63	3.67	3.09	4.62	5.33
7	6.04	---	---	---	6.27	1.17	1.06	1.73	3.70	3.11	4.64	5.36
8	6.07	---	---	---	6.26	1.34	1.21	1.88	3.71	3.13	4.68	5.38
9	6.09	---	---	---	6.30	1.47	1.33	2.00	3.69	3.14	4.71	5.39
10	6.10	---	---	---	6.31	1.17	1.43	1.99	3.72	3.22	4.72	5.40
11	---	---	---	---	3.28	1.10	1.62	2.14	3.74	3.32	4.75	5.41
12	---	---	---	---	3.44	1.23	1.72	2.26	3.68	3.43	4.77	5.42
13	---	---	---	---	3.85	1.35	1.80	2.34	3.64	3.55	4.80	5.43
14	---	---	---	---	4.12	1.43	1.23	2.17	3.65	3.67	4.83	5.47
15	---	---	---	---	4.15	1.56	0.86	2.06	3.67	3.73	4.86	5.46
16	---	---	---	---	3.97	1.68	0.80	2.14	3.47	3.73	4.88	5.41
17	---	---	---	---	3.70	1.83	0.85	2.09	3.26	3.73	4.90	5.35
18	---	---	---	---	3.68	1.95	0.87	2.10	3.27	3.75	4.93	5.36
19	---	---	---	---	3.67	2.07	0.98	2.05	3.31	3.82	4.96	5.37
20	---	---	---	---	3.72	2.18	1.11	2.13	3.35	3.88	5.00	5.38
21	---	---	---	---	3.46	2.21	1.29	2.18	3.38	3.95	5.05	5.40
22	---	---	---	---	1.81	2.30	1.47	2.27	3.45	3.99	5.06	5.44
23	---	---	---	---	1.81	2.44	1.62	2.34	3.52	4.05	5.08	5.44
24	---	---	---	---	1.97	2.58	1.78	2.41	3.57	4.17	5.10	5.43
25	---	---	---	---	2.05	2.73	1.90	2.56	3.70	4.23	5.10	5.43
26	---	m6.09	m5.19	---	1.92	2.83	1.82	2.68	3.77	4.28	5.13	5.43
27	---	---	---	---	0.78	1.38	1.79	2.79	3.82	4.34	5.18	5.42
28	---	---	---	m6.20	0.58	0.71	1.92	2.91	3.92	4.38	5.20	5.25
29	---	---	---	---	---	0.75	1.81	3.02	4.03	4.40	5.21	5.14
30	---	---	---	---	---	0.67	1.52	3.11	4.10	4.42	5.22	5.10
31	---	---	---	---	---	0.70	---	3.18	---	4.46	5.27	---
LOW	---	---	---	---	---	2.83	1.92	3.18	4.10	4.46	5.27	5.47
HIGH	---	---	---	---	---	0.64	0.56	1.20	3.26	3.09	4.50	5.10

m Measured



GROUND-WATER RECORDS

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.

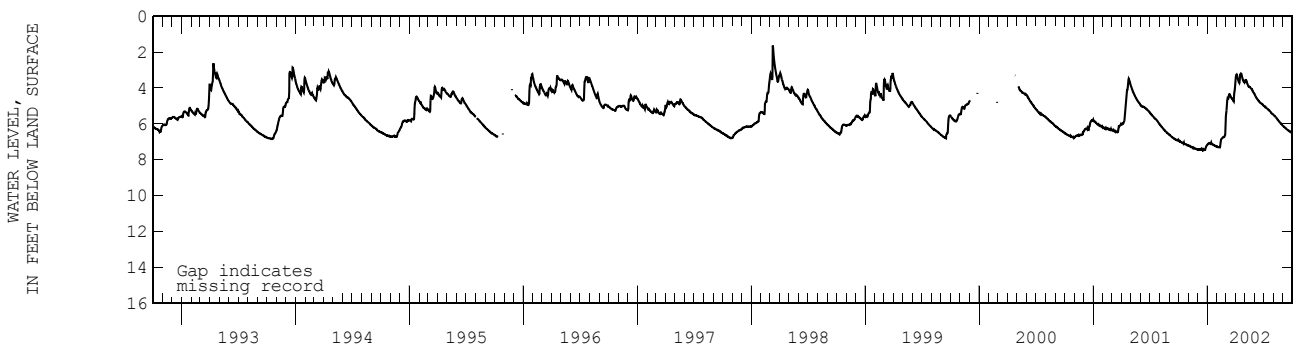
DATUM.--Elevation of land-surface datum is 250 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: V-notch on top of casing, north side of shelter, which is 3.42 ft above land-surface datum.

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, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.91	7.21	7.43	7.15	7.26	5.57	3.63	3.65	4.33	5.01	5.50	6.13
2	6.95	7.21	7.44	7.13	7.28	5.40	3.39	3.61	4.36	5.01	5.52	6.14
3	6.97	7.22	7.44	7.11	7.29	5.25	3.32	3.55	4.41	5.03	5.54	6.16
4	6.97	7.23	7.45	7.10	7.29	4.98	3.26	3.55	4.46	5.05	5.55	6.16
5	6.98	7.23	7.43	7.10	7.30	4.73	3.24	3.55	4.48	5.04	5.56	6.18
6	6.98	7.23	7.42	7.08	7.30	4.61	3.29	3.58	4.51	5.07	5.58	6.20
7	7.00	7.24	7.43	7.07	7.30	4.57	3.39	3.62	4.55	5.08	5.60	6.22
8	7.02	7.29	7.45	7.09	7.30	4.58	3.46	3.70	4.58	5.10	5.63	6.23
9	7.02	7.27	7.44	7.07	7.31	4.58	3.52	3.75	4.59	5.10	5.65	6.25
10	7.03	7.29	7.44	7.08	7.31	4.51	3.58	3.78	4.62	5.12	5.67	6.26
11	7.04	7.30	7.44	7.08	7.21	4.40	3.65	3.84	4.65	5.14	5.69	6.27
12	7.05	7.30	7.44	7.10	7.03	4.36	3.69	3.89	4.67	5.16	5.71	6.29
13	7.07	7.31	7.40	7.05	6.94	4.34	3.72	3.92	4.69	5.18	5.74	6.31
14	7.07	7.31	7.42	7.12	6.88	4.36	3.60	3.92	4.71	5.19	5.76	6.33
15	7.07	7.31	7.44	7.11	6.84	4.41	3.40	3.92	4.73	5.21	5.78	6.34
16	7.09	7.32	7.46	7.13	6.81	4.43	3.27	3.94	4.75	5.22	5.80	6.35
17	7.05	7.36	7.43	7.14	6.80	4.50	3.23	3.94	4.77	5.24	5.82	6.36
18	7.12	7.34	7.34	7.15	6.79	4.53	3.23	3.97	4.79	5.25	5.85	6.37
19	7.11	7.33	7.46	7.17	6.77	4.56	3.19	3.99	4.81	5.27	5.87	6.38
20	7.11	7.34	7.44	7.17	6.76	4.58	3.21	4.01	4.83	5.29	5.89	6.39
21	7.13	7.37	7.46	7.18	6.74	4.58	3.29	4.02	4.84	5.31	5.92	6.41
22	7.14	7.39	7.46	7.20	6.74	4.61	3.37	4.05	4.86	5.32	5.94	6.42
23	7.14	7.39	7.46	7.20	6.73	4.64	3.43	4.06	4.87	5.34	5.96	6.43
24	7.14	7.38	7.45	7.20	6.72	4.68	3.50	4.08	4.87	5.37	5.97	6.44
25	7.14	7.39	7.45	7.22	6.69	4.72	3.56	4.12	4.90	5.39	5.99	6.46
26	7.16	7.40	7.39	7.23	6.65	4.75	3.60	4.16	4.91	5.41	6.01	6.47
27	7.17	7.41	7.31	7.24	6.59	4.60	3.64	4.19	4.92	5.43	6.03	6.47
28	7.19	7.41	7.27	7.24	6.01	4.31	3.67	4.22	4.94	5.45	6.06	6.47
29	7.18	7.42	7.23	7.25	---	4.19	3.68	4.25	4.97	5.45	6.08	6.48
30	7.20	7.43	7.20	7.26	---	4.06	3.70	4.28	5.00	5.46	6.09	6.49
31	7.21	---	7.18	7.27	---	3.84	---	4.30	---	5.48	6.11	---
LOW	7.21	7.43	7.46	7.27	7.31	5.57	3.72	4.30	5.00	5.48	6.11	6.49
HIGH	6.91	7.21	7.18	7.05	6.01	3.84	3.19	3.55	4.33	5.01	5.50	6.13



GROUND-WATER RECORDS

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, 2.9 ft above land-surface datum.

REMARKS.--Missing record, Oct. 11-12.

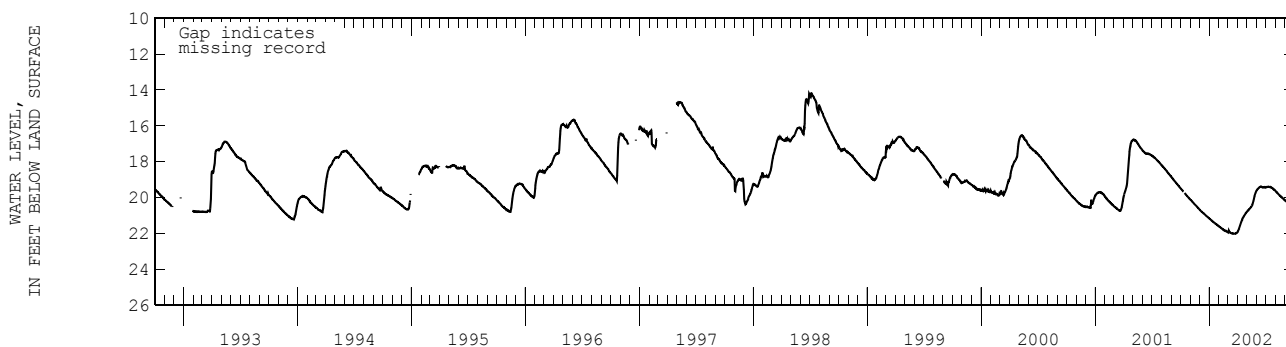
PERIOD OF RECORD.--July 1988 to current year.

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 BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.49	20.12	20.68	21.18	21.61	21.94	21.93	20.79	19.62	19.42	19.64	20.17
2	19.51	20.14	20.70	21.19	21.63	21.95	21.91	20.77	19.58	19.42	19.66	20.18
3	19.53	20.15	20.72	21.21	21.64	21.92	21.88	20.75	19.56	19.41	19.68	20.20
4	19.55	20.17	20.74	21.22	21.65	21.84	21.84	20.73	19.54	19.41	19.70	20.21
5	19.57	20.18	20.75	21.24	21.66	21.88	21.79	20.71	19.51	19.41	19.70	20.23
6	19.59	20.20	20.77	21.25	21.68	21.92	21.74	20.70	19.49	19.41	19.72	20.25
7	19.61	20.22	20.79	21.27	21.69	21.94	21.68	20.68	19.48	19.41	19.75	20.27
8	19.64	20.25	20.80	21.28	21.71	21.96	21.63	20.66	19.46	19.41	19.77	20.28
9	19.66	20.26	20.82	21.29	21.72	21.96	21.57	20.64	19.44	19.40	19.79	20.29
10	19.67	20.28	20.84	21.31	21.73	21.97	21.53	20.62	19.44	19.41	19.81	20.30
11	---	20.30	20.86	21.32	21.75	21.98	21.47	20.61	19.42	19.41	19.83	20.31
12	---	20.32	20.87	21.34	21.76	21.98	21.42	20.58	19.41	19.41	19.84	20.34
13	m19.75	20.34	20.87	21.35	21.78	21.99	21.37	20.56	19.41	19.41	19.86	20.36
14	19.76	20.36	20.89	21.37	21.79	22.00	21.32	20.53	19.40	19.41	19.88	20.38
15	19.78	20.38	20.91	21.38	21.80	22.00	21.28	20.51	19.39	19.41	19.90	20.39
16	19.80	20.40	20.92	21.40	21.81	22.01	21.24	20.49	19.39	19.42	19.91	20.40
17	19.82	20.42	20.94	21.41	21.82	22.01	21.20	20.46	19.40	19.43	19.93	20.42
18	19.84	20.43	20.95	21.43	21.84	22.01	21.16	20.42	19.41	19.43	19.94	20.44
19	19.86	20.45	20.97	21.44	21.85	22.01	21.12	20.38	19.43	19.44	19.96	20.45
20	19.88	20.47	20.99	21.45	21.86	22.01	21.09	20.33	19.43	19.46	19.98	20.46
21	19.90	20.49	21.01	21.47	21.87	22.02	21.06	20.26	19.42	19.47	20.00	20.48
22	19.92	20.51	21.02	21.48	21.85	22.02	21.02	20.19	19.43	19.47	20.01	20.50
23	19.94	20.53	21.04	21.49	21.86	22.02	21.00	20.11	19.42	19.49	20.03	20.51
24	19.96	20.55	21.05	21.50	21.88	22.02	20.97	20.04	19.42	19.53	20.04	20.53
25	19.98	20.57	21.07	21.52	21.89	22.02	20.94	19.98	19.43	19.54	20.05	20.55
26	20.00	20.58	21.08	21.53	21.90	22.01	20.91	19.91	19.43	19.55	20.07	20.56
27	20.02	20.60	21.10	21.54	21.91	22.01	20.89	19.85	19.42	19.55	20.09	20.57
28	20.05	20.62	21.11	21.56	21.93	22.00	20.86	19.80	19.43	19.56	20.12	20.59
29	20.06	20.64	21.13	21.57	---	---	21.98	19.75	19.44	19.57	20.13	20.60
30	20.08	20.66	21.14	21.59	---	---	21.97	20.81	19.70	19.44	19.59	20.62
31	20.10	---	21.16	21.60	---	---	21.95	---	19.66	---	19.61	---
LOW	---	20.66	21.16	21.60	21.93	22.02	21.93	20.79	19.62	19.61	20.16	20.62
HIGH	---	20.12	20.68	21.18	21.61	21.84	20.81	19.66	19.39	19.40	19.64	20.17

m Measured



QUANTITY OF PRECIPITATION

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.

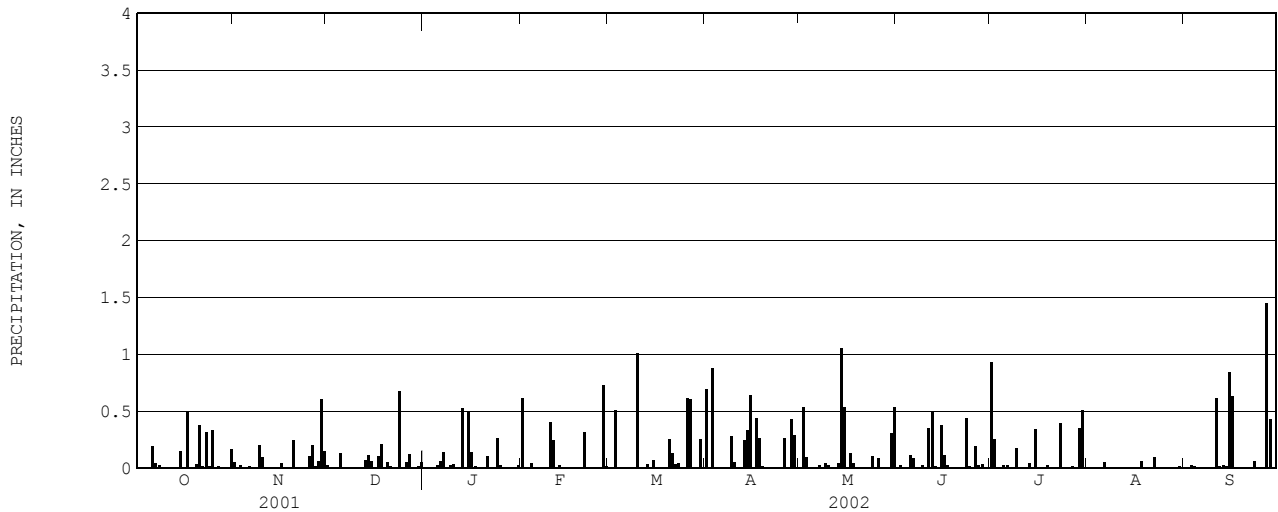
PERIOD OF RECORD.--November 2000 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on 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 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.05	0.02	0.00	0.61	0.00	0.69	0.00	0.00	0.93	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.02	0.25	0.00	0.00
3	0.00	0.02	0.00	0.00	0.00	0.51	0.88	0.09	0.00	0.00	0.00	0.02
4	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01
5	0.00	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.11	0.02	0.00	0.00
6	0.19	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.08	0.02	0.05	0.00
7	0.04	0.00	0.00	0.14	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
8	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.20	0.00	0.02	0.00	0.00	0.28	0.04	0.02	0.17	0.00	0.00
10	0.00	0.09	0.00	0.03	0.40	1.01	0.05	0.02	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.35	0.00	0.00	0.61
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.01
13	0.00	0.00	0.07	0.52	0.02	0.03	0.24	0.04	0.01	0.04	0.00	0.02
14	0.00	0.00	0.11	0.00	0.00	0.00	0.33	1.05	0.00	0.00	0.00	0.01
15	0.15	0.00	0.06	0.49	0.00	0.07	0.64	0.53	0.37	0.34	0.00	0.84
16	0.00	0.04	0.00	0.14	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.63
17	0.49	0.00	0.10	0.01	0.00	0.00	0.44	0.13	0.02	0.00	0.00	0.00
18	0.00	0.00	0.21	0.00	0.00	0.00	0.26	0.04	0.00	0.00	0.06	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00
20	0.03	0.24	0.05	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
21	0.37	0.00	0.01	0.10	0.31	0.13	0.00	0.00	0.00	0.00	0.00	0.00
22	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.09	0.00
23	0.31	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.44	0.39	0.00	0.06
24	0.01	0.00	0.67	0.26	0.00	0.00	0.00	0.10	0.01	0.00	0.00	0.00
25	0.33	0.10	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.20	0.05	0.00	0.00	0.61	0.26	0.08	0.19	0.00	0.00	0.00
27	0.01	0.01	0.12	0.00	0.73	0.60	0.00	0.02	0.02	0.01	0.00	1.45
28	0.00	0.06	0.00	0.00	0.01	0.00	0.43	0.00	0.03	0.00	0.00	0.43
29	0.00	0.60	0.00	0.00	---	0.00	0.29	0.00	0.00	0.35	0.00	0.00
30	0.00	0.15	0.01	0.00	---	0.25	0.00	0.30	0.00	0.51	0.01	0.00
31	0.16	---	0.05	0.02	---	0.00	---	0.53	---	0.00	0.00	---
TOTAL	2.12	1.77	1.66	1.83	2.36	3.53	4.80	3.50	2.27	3.05	0.21	4.09



QUANTITY OF PRECIPITATION

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, 1.0 miles downstream of the confluence of the east and west branches of the Piscataquis River.

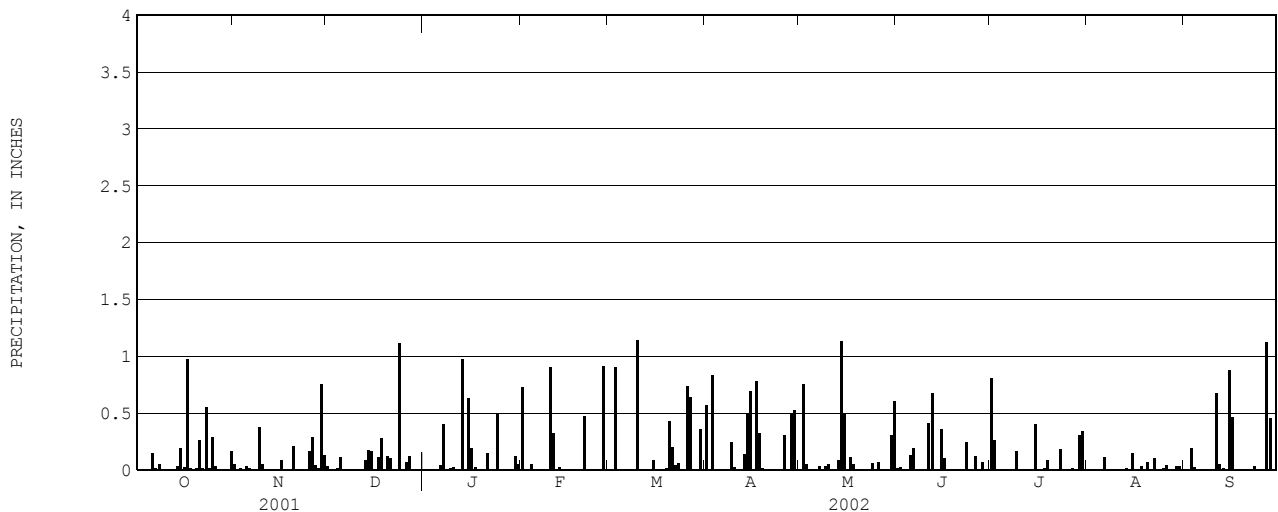
PERIOD OF RECORD.--October 1997 to current year.

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. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.05	0.03	0.00	0.73	0.00	0.57	0.00	0.01	0.81	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.02	0.26	0.00	0.00
3	0.00	0.01	0.00	0.00	0.00	0.90	0.83	0.05	0.00	0.00	0.00	0.19
4	0.00	0.00	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.02
5	0.00	0.03	0.11	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
6	0.15	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.19	0.00	0.11	0.00
7	0.01	0.00	0.00	0.40	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
8	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.37	0.00	0.01	0.00	0.00	0.24	0.03	0.00	0.16	0.00	0.00
10	0.00	0.05	0.00	0.02	0.90	1.14	0.02	0.05	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.41	0.00	0.00	0.67
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.05
13	0.00	0.00	0.08	0.97	0.02	0.00	0.14	0.08	0.00	0.00	0.01	0.01
14	0.03	0.00	0.17	0.00	0.00	0.00	0.49	1.13	0.00	0.00	0.00	0.00
15	0.19	0.00	0.16	0.63	0.00	0.08	0.69	0.49	0.36	0.40	0.15	0.88
16	0.02	0.08	0.00	0.19	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.46
17	0.97	0.00	0.11	0.02	0.00	0.00	0.78	0.11	0.00	0.00	0.00	0.00
18	0.01	0.00	0.28	0.00	0.00	0.00	0.32	0.05	0.00	0.01	0.03	0.00
19	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.08	0.00	0.00
20	0.01	0.21	0.12	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.07	0.00
21	0.26	0.00	0.10	0.15	0.47	0.20	0.00	0.00	0.00	0.00	0.00	0.00
22	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.10	0.00
23	0.55	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.24	0.18	0.00	0.03
24	0.01	0.00	1.11	0.50	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
25	0.29	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
26	0.03	0.29	0.07	0.00	0.00	0.74	0.30	0.07	0.12	0.00	0.04	0.00
27	0.00	0.04	0.12	0.00	0.91	0.64	0.00	0.00	0.00	0.01	0.00	1.12
28	0.00	0.01	0.00	0.00	0.00	0.00	0.49	0.00	0.07	0.00	0.00	0.45
29	0.00	0.75	0.00	0.00	---	0.00	0.52	0.00	0.00	0.30	0.03	0.00
30	0.00	0.13	0.00	0.12	---	0.36	0.00	0.30	0.00	0.34	0.03	0.00
31	0.16	---	0.00	0.05	---	0.00	---	0.60	---	0.00	0.00	---
TOTAL	2.75	2.19	2.47	3.10	3.40	4.60	5.40	3.80	2.32	2.55	0.58	3.88



QUANTITY OF PRECIPITATION

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.

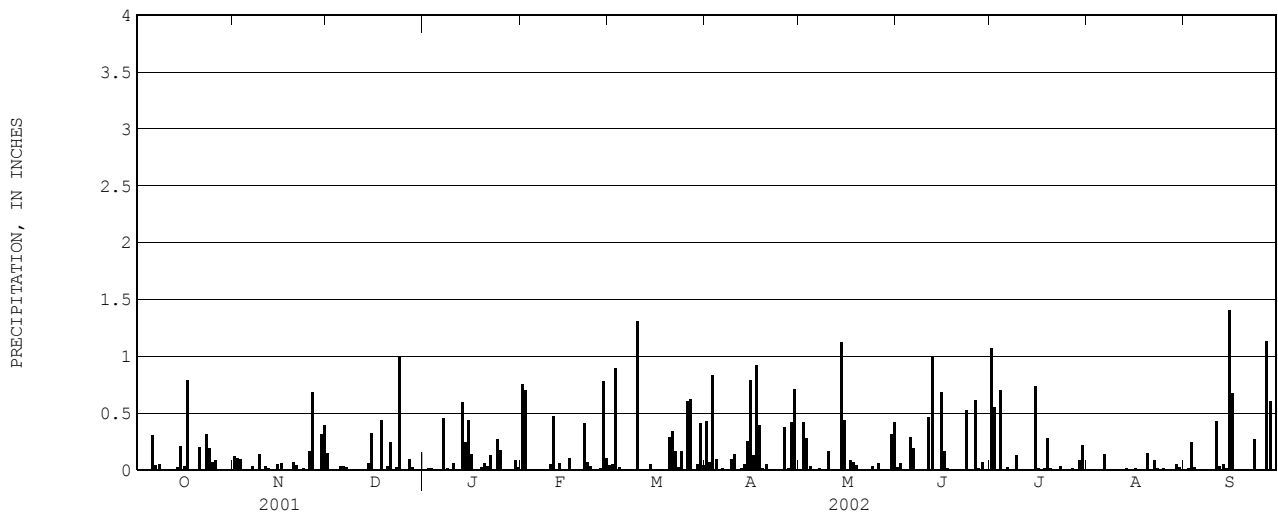
PERIOD OF RECORD.--October 1997 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage and attached snowfall adaptor, with 0.01 in. tip increment, mounted on 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.--Gage is operated as part of the upper Piscataquis River flood warning system. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.12	0.15	0.00	0.75	0.04	0.43	0.00	0.02	1.07	0.00	0.00
2	0.00	0.10	0.00	0.01	0.70	0.05	0.07	0.42	0.06	0.55	0.00	0.01
3	0.00	0.09	0.00	0.01	0.00	0.89	0.83	0.28	0.00	0.00	0.00	0.24
4	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.03	0.00	0.70	0.00	0.02
5	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
6	0.30	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.19	0.02	0.14	0.00
7	0.04	0.03	0.02	0.45	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
8	0.05	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.14	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.13	0.00	0.00
10	0.00	0.00	0.00	0.06	0.05	1.31	0.14	0.16	0.00	0.00	0.00	0.00
11	0.00	0.03	0.00	0.00	0.47	0.00	0.00	0.00	0.46	0.00	0.00	0.43
12	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.99	0.00	0.00	0.03
13	0.00	0.00	0.00	0.59	0.06	0.00	0.05	0.00	0.00	0.00	0.01	0.05
14	0.02	0.00	0.06	0.24	0.00	0.05	0.25	1.12	0.00	0.00	0.00	0.01
15	0.21	0.05	0.32	0.44	0.00	0.00	0.79	0.44	0.68	0.74	0.00	1.40
16	0.03	0.06	0.00	0.14	0.10	0.00	0.13	0.00	0.16	0.01	0.01	0.67
17	0.79	0.00	0.00	0.00	0.00	0.00	0.92	0.08	0.01	0.00	0.00	0.00
18	0.00	0.00	0.44	0.00	0.00	0.00	0.39	0.07	0.00	0.01	0.00	0.00
19	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.04	0.00	0.28	0.00	0.00
20	0.00	0.07	0.03	0.06	0.00	0.29	0.05	0.00	0.00	0.01	0.15	0.00
21	0.20	0.04	0.24	0.03	0.41	0.34	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.13	0.07	0.16	0.00	0.00	0.00	0.00	0.08	0.00
23	0.31	0.01	0.02	0.00	0.03	0.02	0.00	0.00	0.52	0.03	0.01	0.27
24	0.19	0.00	1.00	0.27	0.00	0.16	0.00	0.03	0.00	0.00	0.00	0.00
25	0.07	0.16	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
26	0.08	0.68	0.00	0.00	0.01	0.60	0.37	0.06	0.61	0.00	0.00	0.00
27	0.00	0.00	0.09	0.00	0.78	0.62	0.01	0.00	0.01	0.01	0.00	1.13
28	0.00	0.00	0.02	0.00	0.10	0.00	0.42	0.00	0.07	0.00	0.00	0.60
29	0.00	0.31	0.00	0.00	---	0.05	0.71	0.00	0.00	0.08	0.05	0.00
30	0.00	0.39	0.00	0.08	---	0.41	0.00	0.31	0.00	0.22	0.02	0.00
31	0.00	---	0.00	0.02	---	0.04	---	0.42	---	0.00	0.00	---
TOTAL	2.29	2.29	2.45	2.73	3.53	5.05	5.77	3.47	4.07	3.86	0.48	4.86



QUANTITY OF PRECIPITATION

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 Route 15/16 bridge in Abbot Village, and 0.9 mi upstream from mouth.

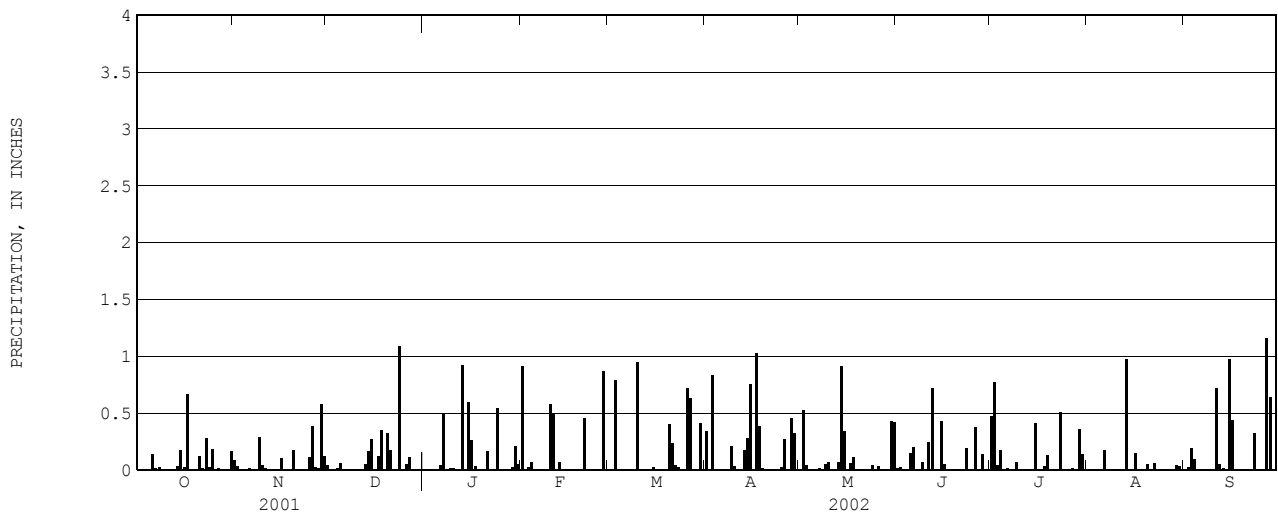
PERIOD OF RECORD.--October 1997 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on 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.--Gage is operated in conjunction with a co-located streamflow gage as part of the upper Piscataquis River flood warning system. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.08	0.04	0.00	0.91	0.00	0.34	0.00	0.01	0.47	0.00	0.00
2	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.52	0.02	0.77	0.00	0.02
3	0.00	0.00	0.00	0.00	0.02	0.79	0.83	0.04	0.00	0.04	0.00	0.19
4	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00	0.17	0.00	0.09
5	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
6	0.14	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.20	0.01	0.17	0.00
7	0.01	0.00	0.00	0.49	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
8	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.29	0.00	0.01	0.00	0.00	0.21	0.05	0.07	0.07	0.00	0.00
10	0.00	0.04	0.00	0.01	0.58	0.95	0.03	0.07	0.00	0.00	0.00	0.00
11	0.00	0.01	0.00	0.00	0.50	0.00	0.00	0.00	0.24	0.00	0.00	0.72
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.05
13	0.00	0.00	0.05	0.92	0.07	0.00	0.17	0.07	0.00	0.00	0.97	0.01
14	0.03	0.00	0.16	0.00	0.00	0.00	0.28	0.91	0.00	0.00	0.00	0.00
15	0.17	0.00	0.27	0.59	0.00	0.02	0.75	0.34	0.43	0.41	0.00	0.97
16	0.02	0.10	0.00	0.26	0.00	0.00	0.00	0.00	0.05	0.00	0.15	0.44
17	0.66	0.00	0.12	0.03	0.00	0.00	1.03	0.06	0.00	0.00	0.00	0.00
18	0.00	0.00	0.35	0.00	0.00	0.00	0.38	0.11	0.00	0.03	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.13	0.00	0.00
20	0.00	0.17	0.32	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.05	0.00
21	0.12	0.00	0.17	0.16	0.45	0.23	0.00	0.00	0.00	0.00	0.00	0.00
22	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.06	0.00
23	0.28	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.19	0.51	0.00	0.32
24	0.02	0.00	1.09	0.54	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
25	0.18	0.11	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
26	0.00	0.38	0.05	0.00	0.00	0.72	0.27	0.03	0.37	0.00	0.00	0.00
27	0.01	0.02	0.11	0.00	0.87	0.63	0.00	0.00	0.00	0.01	0.00	1.16
28	0.00	0.01	0.00	0.00	0.00	0.00	0.45	0.00	0.14	0.00	0.00	0.64
29	0.00	0.58	0.00	0.02	---	0.00	0.32	0.00	0.00	0.36	0.04	0.00
30	0.00	0.12	0.00	0.21	---	0.41	0.00	0.43	0.00	0.14	0.03	0.00
31	0.16	---	0.00	0.05	---	0.00	---	0.42	---	0.00	0.00	---
TOTAL	1.83	1.95	2.80	3.33	3.47	4.21	5.09	3.10	2.59	3.12	1.47	4.61



QUANTITY OF PRECIPITATION

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.

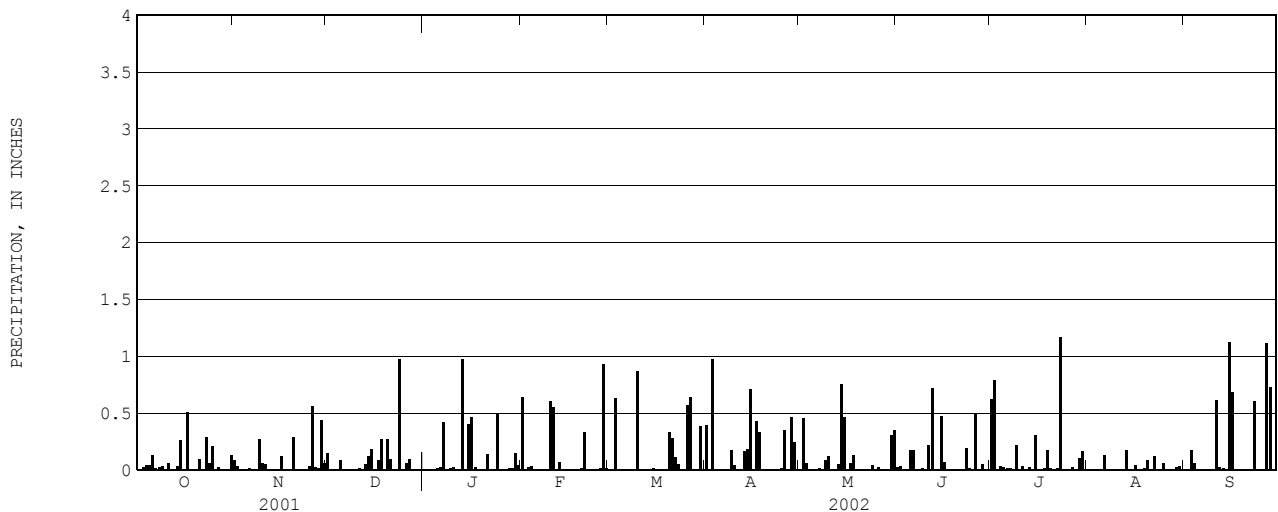
PERIOD OF RECORD.--October 1997 to current year.

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.--Gage is operated in conjunction with a co-located streamflow gage as part of the upper Piscataquis River flood warning system. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.08	0.15	0.00	0.64	0.00	0.39	0.00	0.02	0.62	0.00	0.00
2	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.45	0.03	0.79	0.00	0.00
3	0.02	0.00	0.00	0.00	0.02	0.63	0.97	0.06	0.00	0.00	0.00	0.17
4	0.04	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.06
5	0.04	0.00	0.08	0.01	0.00	0.00	0.00	0.00	0.17	0.02	0.00	0.00
6	0.13	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.17	0.01	0.13	0.00
7	0.01	0.00	0.00	0.42	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
8	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.03	0.27	0.00	0.01	0.00	0.00	0.17	0.08	0.01	0.22	0.00	0.00
10	0.00	0.06	0.00	0.02	0.60	0.87	0.04	0.12	0.00	0.00	0.00	0.00
11	0.06	0.05	0.01	0.00	0.55	0.00	0.00	0.00	0.22	0.03	0.00	0.61
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.02
13	0.00	0.00	0.05	0.97	0.07	0.00	0.16	0.05	0.00	0.02	0.17	0.01
14	0.03	0.00	0.12	0.00	0.00	0.00	0.18	0.75	0.00	0.00	0.00	0.00
15	0.26	0.00	0.18	0.40	0.00	0.01	0.71	0.46	0.47	0.30	0.00	1.12
16	0.00	0.12	0.00	0.46	0.00	0.00	0.00	0.00	0.07	0.00	0.04	0.68
17	0.51	0.00	0.08	0.02	0.00	0.00	0.43	0.06	0.00	0.00	0.00	0.00
18	0.00	0.00	0.27	0.00	0.00	0.00	0.33	0.13	0.00	0.01	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.00
20	0.00	0.29	0.27	0.00	0.01	0.33	0.00	0.00	0.00	0.01	0.08	0.00
21	0.09	0.00	0.09	0.14	0.33	0.28	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.01	0.12	0.00
23	0.29	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.19	1.17	0.00	0.60
24	0.06	0.00	0.97	0.50	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00
25	0.21	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.06	0.00
26	0.00	0.56	0.06	0.00	0.01	0.57	0.35	0.02	0.50	0.00	0.00	0.00
27	0.02	0.02	0.09	0.00	0.93	0.64	0.00	0.00	0.00	0.02	0.00	1.11
28	0.00	0.01	0.00	0.01	0.01	0.00	0.46	0.00	0.05	0.00	0.00	0.73
29	0.00	0.44	0.00	0.01	---	0.00	0.24	0.00	0.00	0.10	0.02	0.00
30	0.00	0.06	0.00	0.15	---	0.38	0.00	0.30	0.00	0.16	0.03	0.00
31	0.13	---	0.00	0.04	---	0.00	---	0.35	---	0.00	0.00	---
TOTAL	1.95	2.03	2.42	3.18	3.20	3.87	4.44	2.88	2.63	3.70	0.66	5.11



QUANTITY OF PRECIPITATION

01042500 KENNEBEC RIVER AT THE FORKS, ME

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

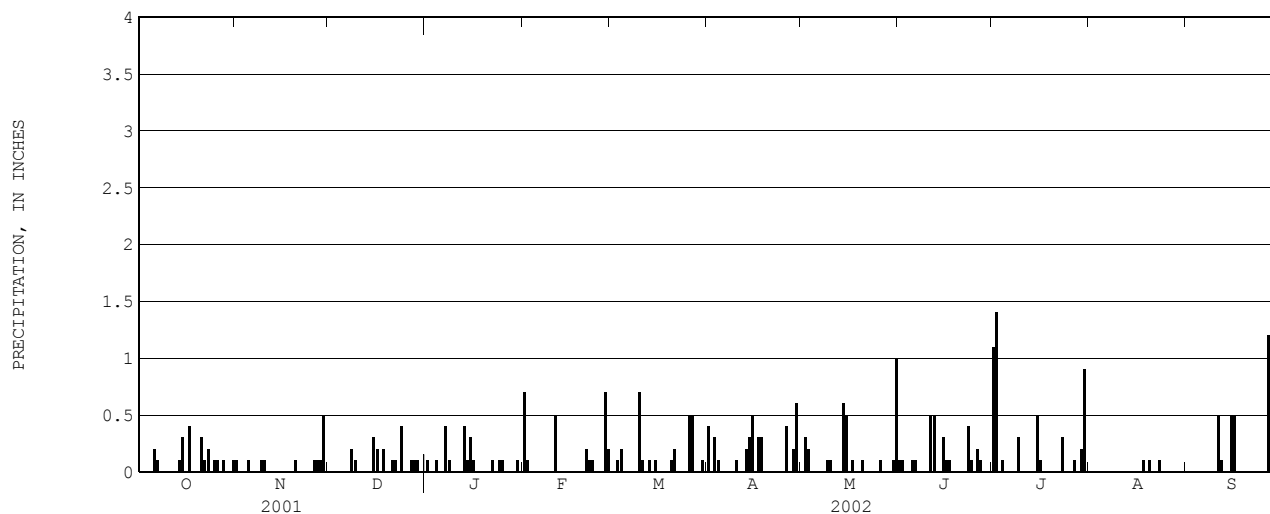
PERIOD OF RECORD.--October 1999 to current year.

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. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.1	0.0	0.1	0.7	0.0	0.4	0.0	0.1	1.1	0.0	0.0
2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1	1.4	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.0
5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
7	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0
10	0.0	0.1	0.0	0.0	0.0	0.7	0.1	0.1	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.5	0.0	0.0	0.5
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1
13	0.0	0.0	0.0	0.4	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0
14	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0
15	0.3	0.0	0.3	0.3	0.0	0.1	0.5	0.5	0.3	0.5	0.0	0.5
16	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.5
17	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0
18	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0
19	0.0	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	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0
21	0.3	0.0	0.1	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
22	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.3	0.1	0.0
24	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
25	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.1	0.1	0.0	0.0	0.0	0.5	0.4	0.1	0.2	0.0	0.0	0.0
27	0.0	0.1	0.1	0.0	0.7	0.5	0.0	0.0	0.1	0.1	0.0	1.2
28	0.1	0.1	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.5
29	0.0	0.5	0.1	0.0	---	0.0	0.6	0.0	0.0	0.2	0.0	0.0
30	0.0	0.0	0.0	0.1	---	0.1	0.0	0.1	0.0	0.9	0.0	0.0
31	0.1	---	0.0	0.0	---	0.0	---	1.0	---	0.0	0.0	---
TOTAL	2.1	1.3	1.9	2.0	2.6	2.7	3.7	3.2	2.7	5.0	0.3	3.3



QUANTITY OF PRECIPITATION

01046500 BINGHAM PRECIPITATION 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 highway bridge, 0.4 mi downstream from Austin Stream, and 1.6 mi downstream from Wyman Dam.

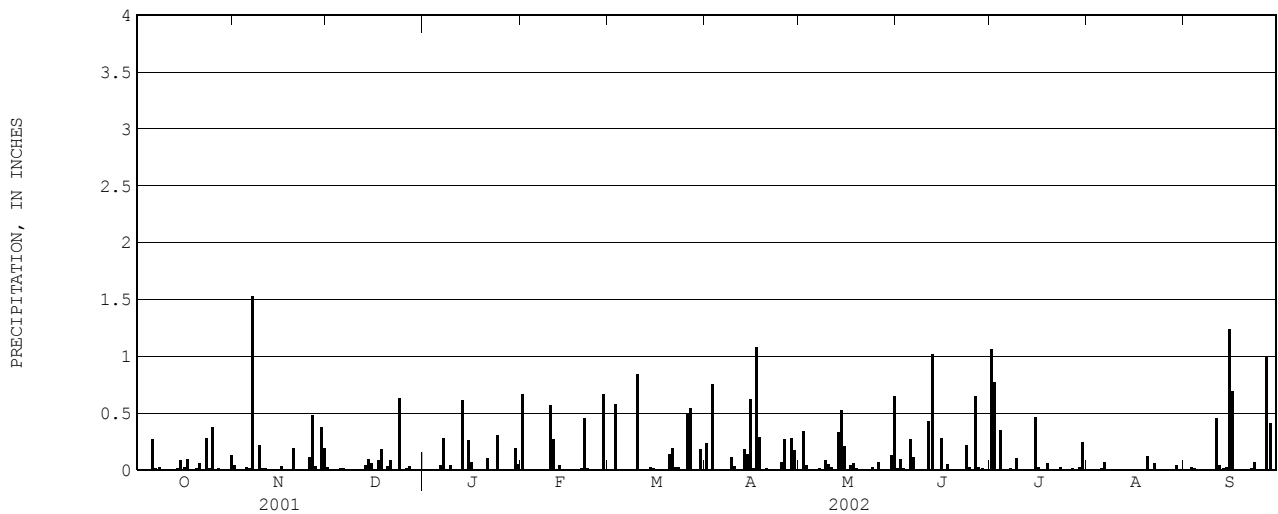
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment mounted on top of the 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. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.04	0.02	0.00	0.66	0.00	0.23	0.00	0.01	1.06	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.09	0.77	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.58	0.75	0.04	0.01	0.00	0.00	0.02
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.01
5	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.01	0.00
6	0.27	0.01	0.01	0.04	0.00	0.00	0.00	0.00	0.11	0.00	0.07	0.00
7	0.01	1.53	0.00	0.28	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
8	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.22	0.00	0.04	0.00	0.00	0.11	0.08	0.00	0.10	0.00	0.00
10	0.00	0.01	0.00	0.00	0.57	0.84	0.03	0.05	0.00	0.00	0.00	0.00
11	0.00	0.01	0.00	0.00	0.27	0.00	0.00	0.02	0.43	0.00	0.00	0.45
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.04
13	0.00	0.00	0.04	0.61	0.04	0.00	0.18	0.33	0.00	0.00	0.00	0.01
14	0.01	0.00	0.09	0.00	0.00	0.02	0.14	0.52	0.00	0.00	0.00	0.02
15	0.08	0.00	0.06	0.26	0.00	0.01	0.62	0.21	0.28	0.46	0.00	1.24
16	0.02	0.03	0.00	0.07	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.69
17	0.09	0.00	0.08	0.00	0.00	0.00	1.08	0.04	0.05	0.00	0.00	0.00
18	0.00	0.00	0.18	0.00	0.00	0.00	0.29	0.06	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.00
20	0.01	0.19	0.03	0.00	0.01	0.14	0.01	0.00	0.00	0.00	0.12	0.00
21	0.06	0.00	0.08	0.10	0.45	0.19	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.06	0.01
23	0.28	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.22	0.02	0.00	0.07
24	0.01	0.00	0.63	0.30	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00
25	0.37	0.11	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
26	0.00	0.48	0.01	0.00	0.00	0.50	0.27	0.07	0.65	0.00	0.00	0.00
27	0.01	0.03	0.03	0.00	0.66	0.54	0.00	0.00	0.02	0.01	0.00	0.99
28	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.01	0.00	0.00	0.41
29	0.00	0.37	0.00	0.00	---	0.00	0.17	0.00	0.00	0.02	0.04	0.00
30	0.00	0.19	0.00	0.19	---	0.18	0.00	0.13	0.00	0.24	0.00	0.00
31	0.13	---	0.00	0.05	---	0.00	---	0.65	---	0.00	0.00	---
TOTAL	1.37	3.24	1.27	1.94	2.67	3.04	4.24	2.58	3.19	3.12	0.30	3.96



QUANTITY OF PRECIPITATION

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.

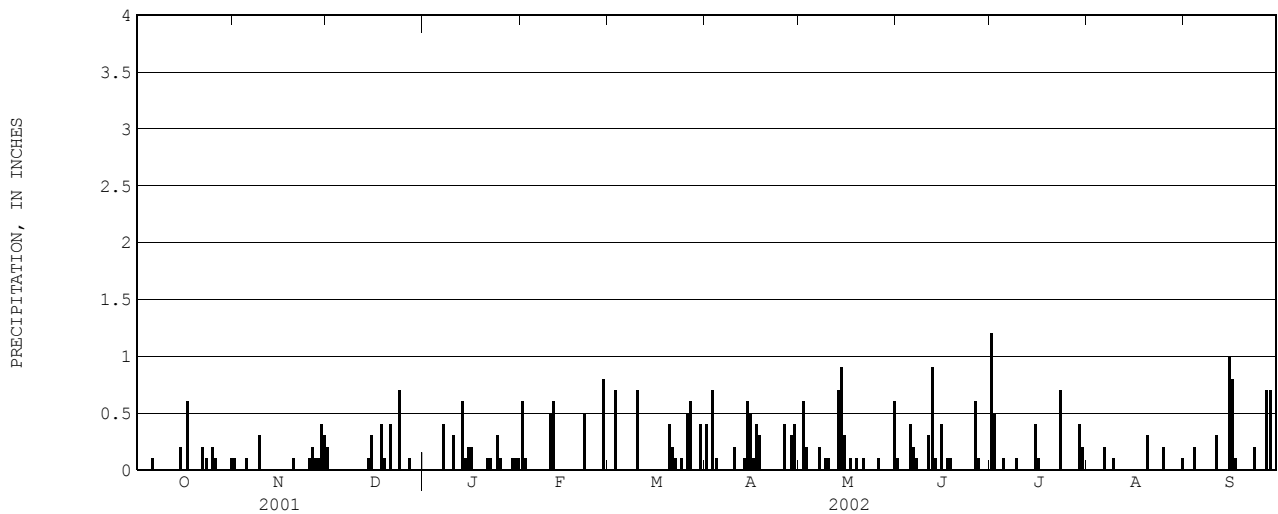
PERIOD OF RECORD.--October 1999 to current year.

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. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.1	0.2	0.0	0.6	0.0	0.4	0.0	0.1	1.2	0.0	0.0
2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.6	0.0	0.5	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.2	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2
5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0
6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0
7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.1	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	0.0	0.0
9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0
10	0.0	0.0	0.0	0.3	0.5	0.7	0.2	0.1	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.3	0.0	0.0	0.3
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
13	0.0	0.0	0.0	0.6	0.0	0.0	0.1	0.7	0.1	0.0	0.0	0.0
14	0.0	0.0	0.1	0.1	0.0	0.0	0.6	0.9	0.0	0.0	0.0	0.0
15	0.2	0.0	0.3	0.2	0.0	0.0	0.5	0.3	0.4	0.4	0.0	1.0
16	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.8
17	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.0	0.0	0.1
18	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0
19	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.3	0.0
21	0.0	0.0	0.4	0.1	0.5	0.2	0.0	0.1	0.0	0.0	0.0	0.0
22	0.2	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
23	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2
24	0.0	0.0	0.7	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
25	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
26	0.1	0.2	0.0	0.0	0.0	0.5	0.4	0.1	0.6	0.0	0.0	0.0
27	0.0	0.1	0.1	0.0	0.8	0.6	0.0	0.0	0.1	0.0	0.0	0.7
28	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.7
29	0.0	0.4	0.0	0.1	---	0.0	0.4	0.0	0.0	0.4	0.0	0.0
30	0.0	0.3	0.0	0.1	---	0.4	0.0	0.0	0.0	0.2	0.0	0.0
31	0.1	---	0.0	0.1	---	0.0	---	0.6	---	0.0	0.1	---
TOTAL	1.6	1.8	2.3	2.7	3.1	3.7	4.5	4.1	3.4	3.7	0.9	4.0



QUANTITY OF PRECIPITATION

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.

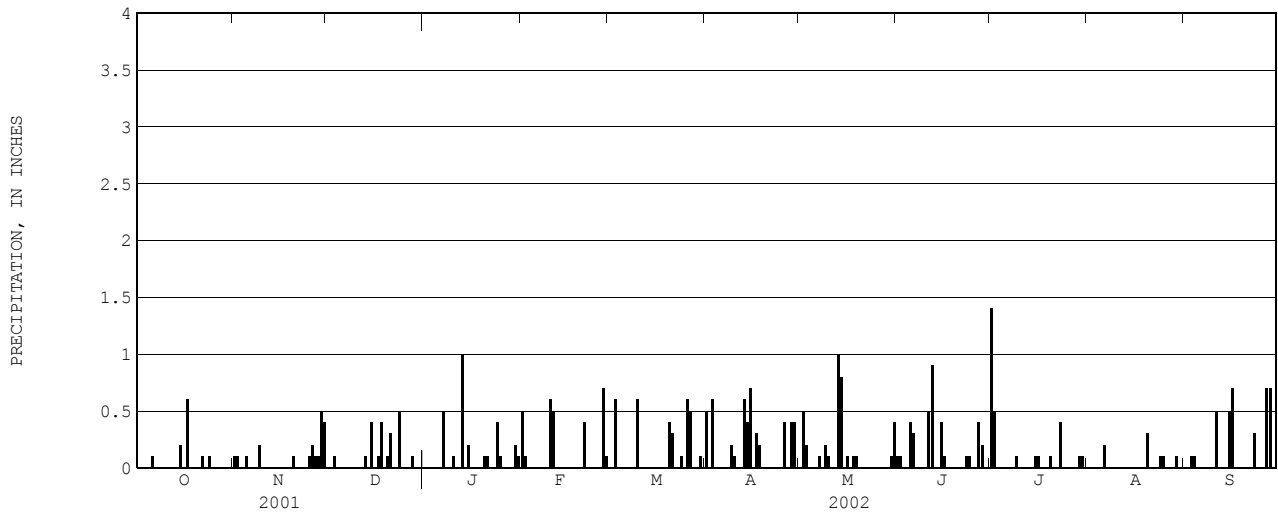
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, weighing bucket gage with 20 in. capacity, mounted on top of gage house with the top of 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. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.1	0.0	0.0	0.5	0.0	0.5	0.0	0.1	1.4	0.0	0.0
2	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.5	0.1	0.5	0.0	0.0
3	0.0	0.0	0.1	0.0	0.0	0.6	0.6	0.2	0.0	0.0	0.0	0.1
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0
7	0.0	0.0	0.0	0.5	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	0.0	0.0	0.0
9	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.1	0.0	0.0
10	0.0	0.0	0.0	0.1	0.6	0.6	0.1	0.1	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
13	0.0	0.0	0.1	1.0	0.0	0.0	0.6	1.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0
15	0.2	0.0	0.4	0.2	0.0	0.0	0.7	0.0	0.4	0.1	0.0	0.5
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.7
17	0.6	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
20	0.0	0.1	0.1	0.1	0.0	0.4	0.0	0.0	0.0	0.1	0.3	0.0
21	0.0	0.0	0.3	0.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
22	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.3
24	0.1	0.0	0.5	0.4	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0
25	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
26	0.0	0.2	0.0	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0
27	0.0	0.1	0.0	0.0	0.7	0.5	0.0	0.0	0.4	0.0	0.0	0.7
28	0.0	0.1	0.1	0.0	0.1	0.0	0.4	0.0	0.2	0.0	0.0	0.7
29	0.0	0.5	0.0	0.0	---	0.0	0.4	0.0	0.0	0.1	0.1	0.0
30	0.0	0.4	0.0	0.2	---	0.1	0.0	0.1	0.0	0.1	0.0	0.0
31	0.0	---	0.0	0.1	---	0.0	---	0.4	---	0.0	0.0	---
TOTAL	1.1	2.0	2.1	2.8	2.9	3.2	4.8	3.7	3.6	2.9	0.8	3.6



QUANTITY OF PRECIPITATION

01053500 ERROL PRECIPITATION 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.

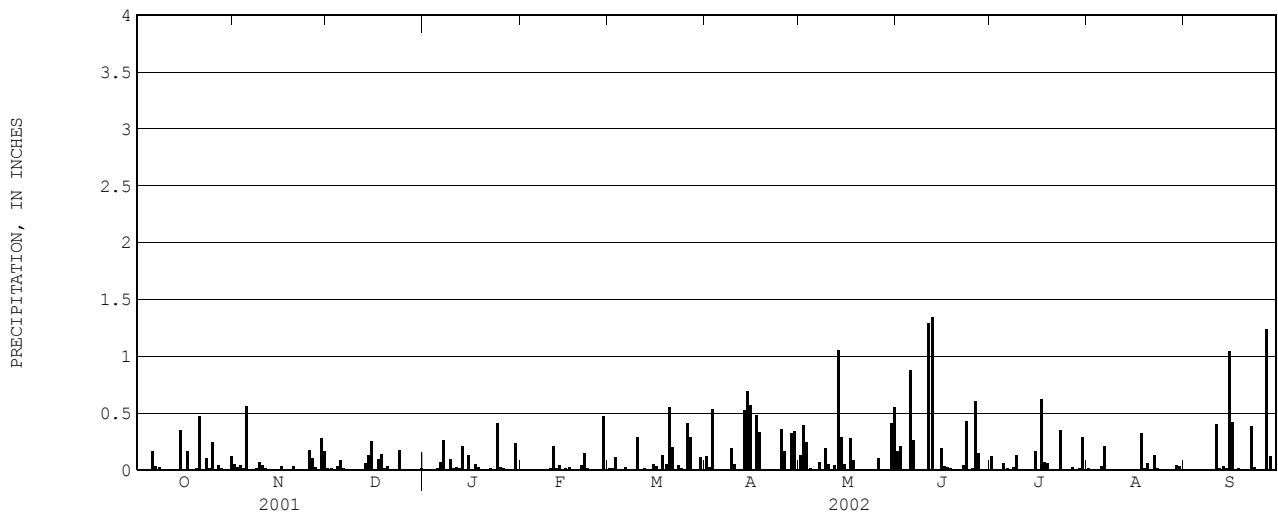
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Unshielded, standard 8-in. diameter, tipping bucket gage with 0.01 in. tip increment, mounted on top of the 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.--Gage is operated in conjunction with a co-located streamflow gage. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.04	0.01	0.00	0.00	0.01	0.12	0.13	0.16	0.12	0.01	0.00
2	0.00	0.02	0.01	0.00	0.00	0.01	0.02	0.39	0.21	0.00	0.00	0.00
3	0.00	0.04	0.00	0.00	0.00	0.11	0.53	0.24	0.00	0.00	0.00	0.00
4	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
5	0.00	0.56	0.08	0.01	0.00	0.00	0.00	0.00	0.88	0.06	0.03	0.00
6	0.17	0.00	0.01	0.07	0.00	0.02	0.00	0.00	0.26	0.01	0.21	0.00
7	0.03	0.00	0.00	0.26	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
8	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
9	0.00	0.07	0.00	0.09	0.00	0.00	0.19	0.19	0.00	0.13	0.00	0.00
10	0.00	0.04	0.00	0.01	0.01	0.29	0.05	0.05	0.00	0.00	0.00	0.00
11	0.00	0.01	0.00	0.02	0.21	0.00	0.00	0.00	1.29	0.00	0.00	0.40
12	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.04	1.34	0.00	0.00	0.01
13	0.00	0.00	0.06	0.21	0.04	0.00	0.52	1.05	0.00	0.00	0.00	0.03
14	0.00	0.00	0.13	0.00	0.00	0.00	0.69	0.29	0.00	0.00	0.00	0.01
15	0.35	0.00	0.25	0.13	0.01	0.05	0.57	0.05	0.19	0.16	0.00	1.04
16	0.00	0.03	0.00	0.00	0.02	0.03	0.00	0.00	0.03	0.00	0.00	0.42
17	0.17	0.00	0.09	0.05	0.00	0.00	0.48	0.28	0.02	0.62	0.00	0.00
18	0.00	0.00	0.14	0.02	0.00	0.13	0.33	0.08	0.01	0.07	0.32	0.01
19	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.00	0.06	0.01	0.00
20	0.01	0.03	0.03	0.00	0.04	0.55	0.00	0.00	0.00	0.00	0.06	0.00
21	0.47	0.00	0.00	0.00	0.15	0.20	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.04	0.00	0.13	0.38
23	0.10	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.43	0.35	0.01	0.02
24	0.01	0.00	0.17	0.41	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
25	0.24	0.17	0.00	0.02	0.00	0.00	0.36	0.00	0.01	0.00	0.00	0.00
26	0.00	0.10	0.00	0.01	0.00	0.41	0.16	0.10	0.60	0.00	0.00	0.00
27	0.04	0.02	0.00	0.00	0.47	0.29	0.00	0.00	0.15	0.02	0.00	1.24
28	0.01	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.12
29	0.00	0.28	0.00	0.00	---	0.00	0.34	0.00	0.00	0.01	0.04	0.00
30	0.00	0.16	0.00	0.23	---	0.11	0.00	0.41	0.00	0.29	0.03	0.00
31	0.12	---	0.01	0.00	---	0.00	---	0.55	---	0.00	0.00	---
TOTAL	1.74	1.59	1.03	1.56	0.97	2.32	4.68	3.93	5.62	1.92	0.85	3.68



QUANTITY OF PRECIPITATION

01054500 RUMFORD PRECIPITATION 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.

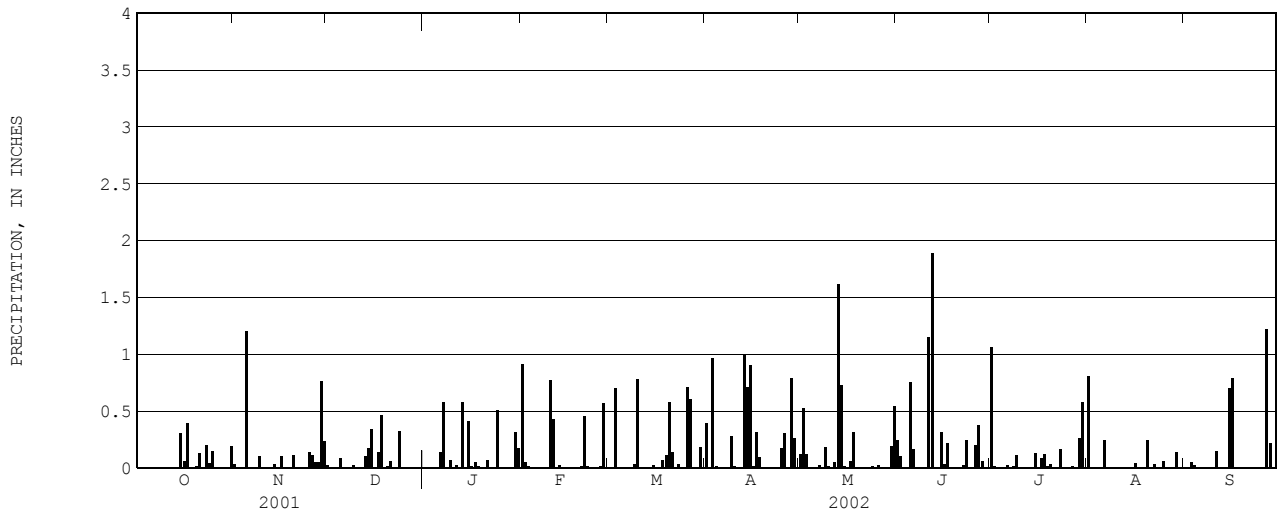
PERIOD OF RECORD.--October 1999 to current year.

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.--No precipitation record, Oct. 1-11. Gage is operated in conjunction with a co-located streamflow gage. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.03	0.02	0.00	0.91	0.00	0.39	0.12	0.24	1.06	0.81	0.00
2	---	0.00	0.00	0.00	0.05	0.00	0.00	0.52	0.10	0.01	0.00	0.00
3	---	0.00	0.00	0.00	0.01	0.70	0.96	0.12	0.00	0.00	0.00	0.05
4	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02
5	---	1.20	0.08	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00
6	---	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.16	0.02	0.24	0.00
7	---	0.00	0.00	0.58	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
8	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
9	---	0.10	0.02	0.07	0.00	0.03	0.28	0.18	0.00	0.11	0.00	0.00
10	---	0.00	0.00	0.00	0.77	0.78	0.01	0.01	0.00	0.00	0.00	0.00
11	---	0.00	0.00	0.02	0.43	0.00	0.00	0.00	1.15	0.00	0.00	0.15
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.89	0.00	0.00	0.00
13	0.00	0.00	0.10	0.58	0.02	0.00	0.99	1.61	0.00	0.00	0.00	0.00
14	0.00	0.03	0.17	0.00	0.00	0.00	0.71	0.73	0.00	0.00	0.00	0.00
15	0.30	0.00	0.34	0.41	0.00	0.02	0.90	0.01	0.31	0.13	0.00	0.70
16	0.06	0.10	0.00	0.01	0.00	0.00	0.01	0.00	0.03	0.00	0.04	0.79
17	0.39	0.00	0.14	0.05	0.00	0.00	0.31	0.06	0.22	0.08	0.00	0.00
18	0.00	0.00	0.46	0.01	0.00	0.07	0.09	0.31	0.00	0.12	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.01	0.00	0.00
20	0.01	0.11	0.01	0.00	0.01	0.58	0.00	0.00	0.00	0.03	0.24	0.00
21	0.13	0.00	0.06	0.07	0.45	0.14	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.03	0.00
23	0.20	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.24	0.16	0.00	0.00
24	0.04	0.00	0.32	0.51	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
25	0.15	0.14	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.06	0.00
26	0.00	0.11	0.00	0.00	0.01	0.71	0.30	0.02	0.20	0.00	0.00	0.00
27	0.00	0.05	0.00	0.00	0.57	0.60	0.00	0.00	0.37	0.01	0.00	1.22
28	0.00	0.05	0.00	0.00	0.00	0.00	0.79	0.00	0.06	0.00	0.00	0.22
29	0.00	0.76	0.00	0.00	---	0.00	0.26	0.00	0.00	0.26	0.14	0.00
30	0.00	0.23	0.00	0.31	---	0.18	0.00	0.19	0.00	0.58	0.00	0.00
31	0.19	---	0.00	0.17	---	0.00	---	0.54	---	0.00	0.00	---
TOTAL	---	2.91	1.72	2.93	3.24	3.95	6.18	4.50	5.74	2.59	1.56	3.15



QUANTITY OF PRECIPITATION

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 Route 117 bridge at Cornish and 0.4 mi downstream from Ossipee River.

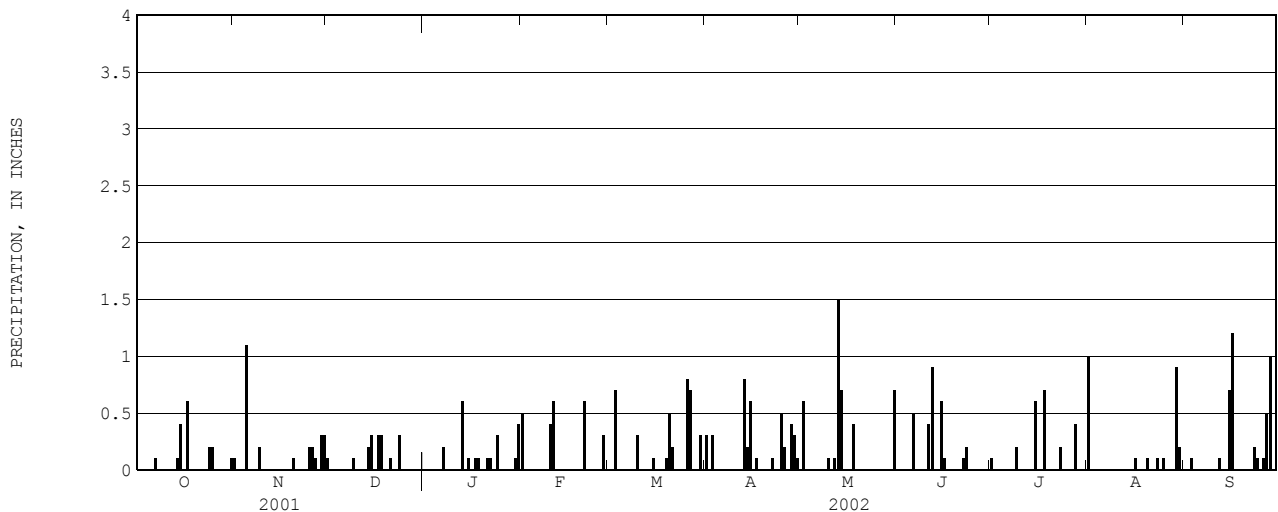
PERIOD OF RECORD.--October 1999 to current year.

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.--Gage is operated in conjunction with a co-located streamflow gage. Satellite telemeter at station.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.1	0.1	0.0	0.5	0.0	0.3	0.0	0.0	0.1	1.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.1
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
7	0.1	0.0	0.0	0.2	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	0.0	0.0
9	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
10	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.1	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.4	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.1
13	0.0	0.0	0.0	0.6	0.0	0.0	0.8	1.5	0.0	0.0	0.0	0.0
14	0.1	0.0	0.2	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0
15	0.4	0.0	0.3	0.1	0.0	0.1	0.6	0.0	0.6	0.6	0.0	0.7
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.2
17	0.6	0.0	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.4	0.0	0.7	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.1	0.0
21	0.0	0.0	0.1	0.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.2
24	0.2	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
25	0.2	0.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.1	0.0
26	0.0	0.2	0.0	0.0	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.1
27	0.0	0.1	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.5
28	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	1.0
29	0.0	0.3	0.0	0.0	---	0.0	0.3	0.0	0.0	0.0	0.9	0.0
30	0.0	0.3	0.0	0.1	---	0.3	0.1	0.0	0.0	0.0	0.2	0.0
31	0.1	---	0.0	0.4	---	0.0	---	0.7	---	0.0	0.0	---
TOTAL	1.7	2.6	1.7	2.1	2.4	3.7	3.9	4.1	2.8	2.2	2.5	4.0



QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
435900070030001 DURHAM (NWS) SNOW SITE (1494-000) (LAT 43 59 00N LONG 070 03 00W)					
JAN 2002			MAR 2002		
08...	6.0	1.50	05...	.0	.00
FEB					
05...	14	3.50			
440336070163101 AUBURN SNOW SITE (1136-095) (LAT 44 03 36N LONG 070 16 31W)					
MAR 2002					
04...	6.2	1.80			
455656067593201 HOULTON (B) SNOW SITE (1208-011) (LAT 45 56 56N LONG 067 59 32W)					
MAR 2002					
06...	10	3.60			
460259068133001 DYER BROOK SNOW SITE (1110-035) (LAT 46 02 59N LONG 068 13 30W)					
JAN 2002			MAR 2002		
16...	.25	.10	12...	12	4.40
FEB			18...	13	5.20
05...	22	4.00	26...	12	4.30
MAR			APR		
04...	14	4.70	01...	12	4.70
461948067502301 MONTICELLO SNOW SITE (1500-000) (LAT 46 19 48N LONG 067 50 23W)					
FEB 2002			APR 2002		
05...	23	4.60	01...	9.0	3.90
MAR			08...	.25	.10
04...	15	5.30	16...	.25	.00
08...	.25	.10			
12...	14	5.30			
26...	7.1	2.80			
462153068205801 KNOWLES CORNER SNOW SITE (1080-012) (LAT 46 21 53N LONG 068 20 58W)					
FEB 2002			APR 2002		
05...	26	5.20	01...	19	7.00
MAR			08...	.25	.10
04...	18	5.80	16...	.25	.10
12...	16	6.10			
18...	17	5.80			
26...	19	6.00			
463600070000001 DAAQUAM (B) (US) SNOW SITE (1426-134) (LAT 46 36 00N LONG 070 00 00W)					
JAN 2002			MAR 2002		
08...	6.0	2.10	12...	16	6.20
FEB			19...	15	5.60
05...	19	5.10	26...	20	7.00
MAR			APR		
05...	20	5.30	02...	18	7.00
			09...	18	7.20
463613069310901 CLAYTON LAKE SNOW SITE (1206-003) (LAT 46 36 13N LONG 069 31 09W)					
JAN 2002			MAR 2002		
08...	7.7	1.70	12...	19	6.50
FEB			19...	17	6.80
05...	21	5.10	26...	19	7.20
MAR			APR		
05...	21	6.10	02...	21	7.90
			09...	19	8.60
463619069081201 MUSQUACOOK SNOW SITE (1297-133) (LAT 46 36 19N LONG 069 08 12W)					
JAN 2002			MAR 2002		
08...	5.7	2.20	12...	20	7.10
FEB			19...	19	6.90
05...	21	4.50	26...	22	7.50
MAR			APR		
05...	21	6.80	02...	24	9.10
			09...	22	8.50

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
463625068134703 SQUA PAN (MPSC) (AVERAGE) SNOW SITE (1487-000) (LAT 46 36 25N LONG 068 13 47W)					
JAN 2002			MAR 2002		
08...	1.6	.30	12...	14	5.50
FEB			19...	13	5.60
05...	20	3.60	26...	14	5.60
MAR			APR		
05...	15	5.20	02...	17	7.00
464051068450201 MACHIAS LAKE SNOW SITE (1064-132) (LAT 46 40 51N LONG 068 45 02W)					
JAN 2002			MAR 2002		
08...	4.3	1.60	12...	13	5.10
FEB			19...	12	5.90
05...	20	4.10	26...	13	5.80
MAR			APR		
05...	15	5.60	02...	16	7.10
			09...	14	8.00
465232068000601 CARIBOU (B) (MEDICAL CENTER) SNOW SITE (1520-000) (LAT 46 52 32N LONG 068 00 06W)					
FEB 2002			APR 2002		
04...	18	2.60	08...	.25	.10
MAR			16...	.25	.10
04...	16	3.00			
12...	13	4.50			
18...	13	5.00			
26...	7.3	2.30			
465350068305901 WINTERVILLE SNOW SITE (1090-021) (LAT 46 53 50N LONG 068 30 59W)					
FEB 2002			APR 2002		
04...	20	3.30	01...	21	7.10
MAR			08...	18	6.40
04...	20	4.50	16...	5.8	2.10
12...	18	6.00			
18...	22	7.10			
26...	21	7.10			
465451069423401 SEVEN ISLANDS (CHARLIE POND) SNOW SITE (1266-136) (LAT 46 54 51N LONG 069 42 34W)					
JAN 2002			MAR 2002		
08...	5.1	1.40	12...	16	6.60
FEB			18...	18	6.80
05...	15	4.30	26...	20	7.00
MAR			APR		
05...	18	5.80	02...	20	8.30
			09...	19	7.80
470432069041501 ALLAGASH SNOW SITE (1038-001) (LAT 47 04 32N LONG 069 04 15W)					
FEB 2002			APR 2002		
05...	19	3.50	01...	15	5.60
MAR			09...	15	6.40
05...	18	4.20	15...	5.7	1.80
11...	15	4.20			
18...	14	3.80			
25...	17	5.20			
470501068135301 GUERETTE SNOW SITE (1061-135) (LAT 47 05 01N LONG 068 13 53W)					
FEB 2002			APR 2002		
04...	20	3.20	01...	25	8.00
MAR			08...	28	8.50
04...	22	4.90			
12...	23	6.40			
18...	26	6.60			
26...	30	8.00			
471412068345201 FORT KENT SNOW SITE (1022-008) (LAT 47 14 12N LONG 068 34 52W)					
FEB 2002			APR 2002		
04...	18	2.90	01...	16	5.70
MAR			08...	15	5.80
04...	16	3.70	16...	.25	.10
12...	16	5.00			
18...	14	5.10			
26...	18	6.20			

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
434403070152601 FALMOUTH SNOW SITE (1183-112) (LAT 43 44 03N LONG 070 15 26W)					
JAN 2002			APR 2002		
08...	4.0	.80	01...	.0	.00
FEB			09...	.0	.00
04...	5.0	1.10	16...	.0	.00
MAR					
05...	.0	.00			
12...	.0	.00			
25...	1.0	.50			
434538070310101 SEBAGO SNOW SITE (1083-111) (LAT 43 45 38N LONG 070 31 01W)					
JAN 2002			APR 2002		
08...	2.0	.60	01...	.0	.00
FEB			09...	.0	.00
05...	15	4.30	16...	.0	.00
MAR					
05...	.0	.00			
12...	.0	.00			
25...	2.0	.70			
434900070461401 CORNISH SNOW SITE (1056-114) (LAT 43 49 00N LONG 070 46 14W)					
JAN 2002			APR 2002		
08...	7.0	1.40	01...	.0	.00
FEB			09...	.0	.00
04...	10	2.70	16...	.0	.00
MAR					
04...	3.4	1.20			
12...	.0	.00			
25...	2.0	.70			
435223070422501 DOUGLAS MOUNTAIN (NWS) SNOW SITE (1526-000) (LAT 43 52 23N LONG 070 42 25W)					
JAN 2002			MAR 2002		
08...	9.7	1.90	05...	6.3	1.80
FEB			12...	1.2	.50
05...	17	3.20			
435259070150001 GRAY (NWS) SNOW SITE (1509-000) (LAT 43 52 59N LONG 070 15 00W)					
JAN 2002			APR 2002		
08...	4.5	1.00	01...	.0	.00
FEB			09...	.0	.00
05...	11	2.80	16...	.0	.00
MAR					
12...	.0	.00			
25...	1.0	.50			
443514070211601 DIXFIELD SNOW SITE (1151-098) (LAT 44 35 14N LONG 070 21 16W)					
JAN 2002			APR 2002		
04...	11	2.00	02...	12	4.40
FEB			09...	7.4	3.00
04...	15	4.60	16...	.0	.00
MAR					
04...	12	4.30			
11...	10	3.90			
19...	10	3.40			
26...	17	4.90			
443759070000001 NEW SHARON (NWS) SNOW SITE (1493-000) (LAT 44 37 59N LONG 070 00 00W)					
FEB 2002					
05...	15	4.10			
444551070263801 WELD-PHILLIPS SNOW SITE (1133-107) (LAT 44 45 51N LONG 070 26 38W)					
JAN 2002			APR 2002		
07...	12	2.10	02...	12	4.60
FEB			09...	7.7	3.30
04...	15	4.70	16...	.0	.00
MAR					
05...	12	4.30			
11...	11	4.20			
19...	13	4.50			
26...	15	4.60			

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
445730070070801 KINGFIELD SNOW SITE (1187-159) (LAT 44 57 30N LONG 070 07 08W)					
JAN 2002			APR 2002		
07...	10	2.00	01...	7.4	2.80
FEB			09...	1.1	.50
04...	16	4.50	16...	.0	.00
MAR					
04...	10	3.80			
11...	8.6	3.40			
19...	6.5	2.30			
26...	10	3.80			
443324068474901 BUCKSPORT SNOW SITE (1146-027) (LAT 44 33 24N LONG 068 47 49W)					
JAN 2002			APR 2002		
08...	5.8	1.10	02...	.0	.00
FEB			09...	.0	.00
05...	13	3.20	16...	.0	.00
MAR					
05...	.0	.00			
12...	.0	.00			
19...	.0	.00			
26...	.30	.10			
443748068072701 FRANKLIN SNOW SITE (1112-124) (LAT 44 37 48N LONG 068 07 27W)					
MAR 2002					
05...	.30	.10			
441723069422801 AUGUSTA SNOW SITE (1008-066) (LAT 44 17 23N LONG 069 42 28W)					
JAN 2002			APR 2002		
08...	6.9	1.20	02...	.0	.00
FEB			09...	.0	.00
05...	13	3.40	16...	.0	.00
MAR					
05...	2.9	1.20			
12...	.30	.10			
19...	.0	.00			
26...	.70	.20			
442059069530301 MANCHESTER SNOW SITE (1118-084) (LAT 44 20 59N LONG 069 53 03W)					
MAR 2002					
05...	5.3	1.60			
443116069525801 BELGRADE SNOW SITE (1123-067) (LAT 44 31 16N LONG 069 52 58W)					
JAN 2002			APR 2002		
08...	9.7	2.00	02...	.40	.15
FEB			09...	.0	.00
05...	14	3.60	16...	.0	.00
MAR					
05...	8.5	1.90			
12...	2.3	.80			
19...	1.5	.40			
26...	.80	.30			
441250069105701 SOUTH HOPE SNOW SITE (1325-127) (LAT 44 12 50N LONG 069 10 57W)					
JAN 2002			APR 2002		
08...	4.0	.70	02...	.0	.00
FEB			09...	.0	.00
05...	10	2.40	16...	.0	.00
MAR					
05...	.30	.10			
12...	.0	.00			
19...	.30	.10			
26...	1.6	.80			
441156069294401 JEFFERSON SNOW SITE (1318-137) (LAT 44 11 56N LONG 069 29 44W)					
JAN 2002			APR 2002		
08...	5.8	1.20	02...	.0	.00
FEB			09...	.0	.00
05...	11	3.60	16...	.0	.00
MAR					
05...	2.4	1.00			
12...	.30	.10			
19...	.30	.10			
26...	1.5	.50			

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
435743070475501 DENMARK SNOW SITE (1184-115) (LAT 43 57 43N LONG 070 47 55W)					
MAR 2002					
04...	11	3.70			
442227070190101 HARTFORD (NWS) SNOW SITE (1516-000) (LAT 44 22 27N LONG 070 19 01W)					
FEB 2002			APR 2002		
05...	20	5.70	01...	2.6	1.80
MAR			09...	.25	.10
05...	10	4.10			
11...	5.5	2.00			
18...	1.7	.60			
25...	6.0	1.90			
442451070501601 BETHEL SNOW SITE (1045-097) (LAT 44 24 51N LONG 070 50 16W)					
JAN 2002			APR 2002		
07...	12	2.30	02...	13	4.90
FEB			09...	8.0	3.20
04...	15	4.00	16...	.0	.00
MAR					
04...	12	4.00			
11...	11	4.10			
19...	13	4.10			
26...	15	4.70			
443412070542201 NEWRY (SCREW AUGER FALLS) SNOW SITE (1169-180) (LAT 44 34 12N LONG 070 54 22W)					
JAN 2002			APR 2002		
07...	13	2.40	02...	12	4.70
FEB			09...	7.9	3.40
04...	14	4.60	16...	.0	.00
MAR					
04...	12	4.30			
11...	11	4.40			
19...	14	4.10			
26...	18	5.70			
443836070350801 ROXBURY SNOW SITE (1051-102) (LAT 44 38 36N LONG 070 35 08W)					
JAN 2002			APR 2002		
07...	9.4	1.70	02...	8.4	3.20
FEB			09...	.90	.30
04...	14	4.10	16...	.0	.00
MAR					
04...	10	3.60			
11...	8.8	3.20			
19...	10	2.70			
26...	11	3.60			
444053069084801 DIXMONT SNOW SITE (1205-032) (LAT 44 40 53N LONG 069 08 48W)					
JAN 2002			APR 2002		
08...	9.0	1.20	02...	.0	.00
FEB			09...	.0	.00
05...	16	4.00	16...	.0	.00
MAR					
05...	3.6	1.20			
12...	.30	.10			
19...	.30	.10			
26...	3.8	.80			
445346068530301 KENDUSKEAG SNOW SITE (1099-040) (LAT 44 53 46N LONG 068 53 03W)					
JAN 2002			APR 2002		
08...	9.4	1.70	02...	1.2	.50
FEB			09...	.0	.00
05...	19	2.80	16...	.0	.00
MAR					
05...	9.5	3.20			
19...	3.5	1.20			
26...	5.6	1.70			

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
450237069185901 DEXTER SNOW SITE (1165-077) (LAT 45 02 37N LONG 069 18 59W)					
JAN 2002			APR 2002		
08...	11	1.60	01...	7.3	2.60
FEB			09...	.0	.00
05...	18	4.90	16...	.0	.00
MAR					
05...	9.1	3.00			
12...	6.3	2.30			
18...	4.7	1.50			
25...	9.1	2.90			
451138068281601 LOWELL SNOW SITE (1005-046) (LAT 45 11 38N LONG 068 28 16W)					
MAR 2002					
06...	7.8	2.40			
452249068265801 LINCOLN SNOW SITE (1132-045) (LAT 45 22 49N LONG 068 26 58W)					
JAN 2002			APR 2002		
08...	10	1.50	02...	4.5	1.50
FEB			09...	.25	.10
05...	22	4.50	16...	.0	.00
MAR					
06...	8.7	2.65			
12...	5.0	1.80			
19...	3.0	1.30			
26...	7.5	2.40			
453559068265901 MATTASEUNK SNOW SITE (1201-047) (LAT 45 35 59N LONG 068 26 59W)					
MAR 2002					
06...	11	3.30			
454346068351301 GRINDSTONE SNOW SITE (1004-038) (LAT 45 43 46N LONG 068 35 13W)					
MAR 2002					
06...	10	3.30			
450826069204101 DOVER-FOXCROFT (B) SNOW SITE (1020-034) (LAT 45 08 26N LONG 069 20 41W)					
MAR 2002					
05...	9.6	3.10			
451015069351701 KINGSBURY SNOW SITE (1195-041) (LAT 45 10 15N LONG 069 35 17W)					
JAN 2002			APR 2002		
08...	11	1.80	01...	14	4.80
FEB			09...	8.4	3.25
05...	20	4.70	16...	.0	.00
MAR					
05...	14	5.30			
12...	12	4.20			
18...	11	3.90			
25...	14	4.20			
451500069135901 GREELEY'S LANDING (NWS) SNOW SITE (1492-000) (LAT 45 15 00N LONG 069 13 59W)					
FEB 2002			APR 2002		
05...	19	4.00	01...	12	3.90
MAR			08...	8.0	2.50
05...	11	3.40	15...	.0	.00
11...	9.3	2.80			
18...	7.4	2.20			
25...	14	4.00			
451559069345301 BLANCHARD (NWS) SNOW SITE (1101-056) (LAT 45 15 59N LONG 069 34 53W)					
FEB 2002			MAR 2002		
05...	21	4.70	05...	14	4.30

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
451700069005501 MILO SNOW SITE (1006-052) (LAT 45 17 00N LONG 069 00 55W)					
JAN 2002			APR 2002		
08...	11	1.60	01...	8.2	2.60
FEB			09...	.0	.00
05...	19	3.90	16...	.0	.00
MAR					
06...	10	3.50			
12...	8.9	3.00			
18...	8.0	2.70			
25...	11	3.50			
451829069073001 BARNARD PLT. (NWS) SNOW SITE (1384-061) (LAT 45 18 29N LONG 069 07 30W)					
MAR 2002			MAR 2002		
05...	9.0	3.30	18...	8.1	3.10
11...	5.4	2.00	25...	11	4.60
451955069324701 MONSON SNOW SITE (1190-053) (LAT 45 19 55N LONG 069 32 47W)					
MAR 2002					
05...	18	4.40			
461013069122901 CHAMBERLAIN BRIDGE (NWS) SNOW SITE (1522-000) (LAT 46 10 13N LONG 069 12 29W)					
FEB 2002			APR 2002		
05...	22	3.60	08...	15	4.90
MAR					
05...	16	4.90			
18...	13	4.10			
25...	15	4.70			
462933069171101 CHURCHILL DAM (NWS) SNOW SITE (1521-000) (LAT 46 29 33N LONG 069 17 11W)					
FEB 2002			APR 2002		
05...	22	4.70	01...	18	6.50
MAR			10...	16	5.80
05...	19	5.20	15...	7.0	2.40
18...	16	5.00			
25...	17	5.10			
440009069565001 TOPSHAM SNOW SITE (1170-104) (LAT 44 00 09N LONG 069 56 50W)					
JAN 2002			APR 2002		
08...	4.0	.80	01...	.0	.00
FEB			09...	.0	.00
04...	10	2.70	16...	.0	.00
MAR					
05...	.0	.00			
12...	.0	.00			
25...	2.0	.90			
444055069535301 MERCER SNOW SITE (1015-085) (LAT 44 40 55N LONG 069 53 53W)					
JAN 2002			APR 2002		
08...	11	1.30	01...	.0	.00
FEB			09...	.0	.00
05...	14	2.70	16...	.0	.00
MAR					
05...	7.0	1.80			
12...	3.3	1.00			
18...	.30	.10			
25...	2.7	.80			
444408069254501 PITTSFIELD (B) SNOW SITE (1050-091) (LAT 44 44 08N LONG 069 25 45W)					
JAN 2002			APR 2002		
08...	9.0	1.10	01...	.0	.00
FEB			09...	.0	.00
05...	14	3.50	16...	.0	.00
MAR					
05...	2.8	1.00			
12...	1.0	.32			
18...	.0	.00			
25...	1.5	.45			

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
445226069565301 NORTH ANSON SNOW SITE (1024-088) (LAT 44 52 26N LONG 069 56 53W)					
JAN 2002			APR 2002		
07...	11	2.20	02...	2.1	.80
FEB			09...	.0	.00
04...	15	4.40	16...	.0	.00
MAR					
04...	10	3.50			
11...	8.0	3.10			
19...	3.4	1.40			
26...	6.9	2.60			
445730069361501 HARMONY-ATHENS SNOW SITE (1159-161) (LAT 44 57 30N LONG 069 36 15W)					
MAR 2002					
05...	11	3.10			
445847069515101 SOLON (BINGHAM) SNOW SITE (1153-069) (LAT 44 58 47N LONG 069 51 51W)					
JAN 2002			APR 2002		
08...	9.5	1.00	01...	9.5	3.00
FEB			09...	3.3	1.25
05...	17	2.90	16...	.0	.00
MAR					
05...	11	3.90			
12...	9.4	3.10			
18...	7.6	2.60			
25...	9.6	3.10			
450559069464501 MAYFIELD (BINGHAM UPPER) SNOW SITE (1066-068) (LAT 45 05 59N LONG 069 46 45W)					
MAR 2002					
05...	16	5.00			
452038069565501 THE FORKS SNOW SITE (1002-094) (LAT 45 20 38N LONG 069 56 55W)					
JAN 2002			APR 2002		
08...	11	1.30	01...	10	3.40
FEB			09...	6.7	2.65
05...	15	3.20	16...	.0	.00
MAR					
05...	11	4.50			
12...	9.1	3.30			
18...	7.8	2.90			
25...	10	3.10			
442412069133801 SEARSMONT SNOW SITE (1093-126) (LAT 44 24 12N LONG 069 13 38W)					
JAN 2002			APR 2002		
08...	7.0	1.50	02...	.0	.00
FEB			09...	.0	.00
05...	12	2.70	16...	.0	.00
MAR					
05...	.30	.10			
12...	.0	.00			
19...	.30	.10			
26...	.50	.20			
444229067312801 WHITNEYVILLE SNOW SITE (1041-130) (LAT 44 42 29N LONG 067 31 28W)					
MAR 2002					
05...	.30	.10			
444311067450801 COLUMBIA FALLS/EPPING SNOW SITE (1317-145) (LAT 44 43 11N LONG 067 45 08W)					
MAR 2002					
05...	3.9	1.20			
445022068043701 BEDDINGTON SNOW SITE (1117-131) (LAT 44 50 22N LONG 068 04 37W)					
JAN 2002			APR 2002		
08...	7.1	1.10	02...	.40	.15
FEB			09...	.0	.00
05...	20	3.90	16...	.0	.00
MAR					
05...	6.8	2.00			
12...	1.8	.80			
19...	.30	.10			
26...	6.6	1.80			

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
445833067384301 WESLEY SNOW SITE (1327-147) (LAT 44 58 33N LONG 067 38 43W)					
JAN 2002			APR 2002		
08...	7.0	1.00	02...	.0	.00
FEB			09...	.0	.00
05...	26	4.00	16...	.0	.00
MAR					
05...	2.5	.70			
12...	.30	.10			
19...	.0	.00			
26...	3.9	.80			
450634067194201 BARING SNOW SITE (1152-023) (LAT 45 06 34N LONG 067 19 42W)					
JAN 2002			APR 2002		
08...	7.2	1.10	02...	.40	.15
FEB			09...	.0	.00
05...	26	4.20	16...	.0	.00
MAR					
05...	7.0	2.30			
12...	3.6	1.40			
19...	1.8	.80			
26...	6.7	1.80			
452435067581401 CARROL-KOSSUTH SNOW SITE (1075-028) (LAT 45 24 35N LONG 067 58 14W)					
MAR 2002					
06...	11	4.00			
452623067442901 TOPSFIELD SNOW SITE (1154-025) (LAT 45 26 23N LONG 067 44 29W)					
JAN 2002			MAR 2002		
08...	7.2	1.00	12...	4.8	2.00
FEB			19...	2.6	1.20
05...	26	5.00	26...	6.1	1.50
MAR			APR		
06...	6.4	2.30	09...	.0	.00
			16...	.0	.00
453900067491001 DANFORTH SNOW SITE (1331-036) (LAT 45 39 00N LONG 067 49 10W)					
MAR 2002					
06...	12	4.20			
431232070471101 SOUTH BERWICK SNOW SITE (1324-143) (LAT 43 12 32N LONG 070 47 11W)					
FEB 2002			APR 2002		
04...	6.0	1.30	01...	.0	.00
MAR			09...	.0	.00
05...	.0	.00	16...	.0	.00
12...	.0	.00			
25...	7.0	1.40			
431943070543801 SOUTH LEBANON SNOW SITE (1069-128) (LAT 43 19 43N LONG 070 54 38W)					
FEB 2002			APR 2002		
04...	4.0	.80	01...	.0	.00
MAR			09...	.0	.00
05...	.0	.00	16...	.0	.00
12...	.0	.00			
25...	5.7	.90			
432500070394001 WEST KENNEBUNK SNOW SITE (1121-129) (LAT 43 25 00N LONG 070 39 40W)					
JAN 2002			APR 2002		
08...	2.0	.50	01...	.0	.00
FEB			09...	.0	.00
04...	7.0	1.80	16...	.0	.00
MAR					
05...	.0	.00			
12...	.0	.00			
25...	5.0	1.20			
433147070505901 SHAPLEIGH SNOW SITE (1322-142) (LAT 43 31 47N LONG 070 50 59W)					
MAR 2002					
04...	.30	.10			

QUANTITY OF SNOW

DATE	SNOW DEPTH	SNOW, WATER CONTENT	DATE	SNOW DEPTH	SNOW, WATER CONTENT
433159070290301 SACO (TANNERY SITE) SNOW SITE (1490-240) (LAT 43 31 59N LONG 070 29 03W)					
JAN 2002			APR 2002		
08...	2.0	.30	01...	.0	.00
FEB			09...	.0	.00
04...	6.8	1.60	16...	.0	.00
MAR					
05...	.0	.00			
12...	.0	.00			
25...	4.0	1.00			
433750070535501 NEWFIELD SNOW SITE (1192-117) (LAT 43 37 50N LONG 070 53 55W)					
JAN 2002			APR 2002		
08...	5.0	1.10	01...	.0	.00
FEB			09...	.0	.00
04...	10	2.40	16...	.0	.00
MAR					
05...	1.2	.50			
12...	.0	.00			
25...	3.0	.80			
433900070401101 HOLLIS (NWS) SNOW SITE (1510-000) (LAT 43 39 00N LONG 070 40 11W)					
JAN 2002			APR 2002		
08...	6.5	1.30	01...	.0	.00
FEB			09...	.0	.00
05...	10	2.30	16...	.0	.00
MAR					
05...	.30	.10			
12...	.0	.00			

INDEX

A		PRECIPITATION-QUANTITY RECORDS	213
ACID NEUTRALIZING CAPACITY, DEFINITION OF	19	WATER-DISCHARGE RECORDS	124
ACRE-FOOT, DEFINITION OF	19	CELLS VOLUME, DEFINITION OF	21
ADENOSINE TRIPHOSPHATE, DEFINITION OF	19	CELLS/VOLUME, DEFINITION OF	21
ALGAE, DEFINITION BLUE-GREEN, DEFINITION OF	21	CFS-DAY, DEFINITION OF	21
ALGAE, DEFINITION OF	21	CHANNEL BARS, DEFINITION OF	21
FIRE, DEFINITION OF	23	CHEMICAL OXYGEN DEMAND, DEFINITION OF	21
GREEN, DEFINITION OF	24	CLOSTRIDIUM PERFRINGENS, DEFINITION OF	21
ALGAL GROWTH POTENTIAL, DEFINITION OF	19	COBBOSSECONTEE STREAM AT GARDINER, ME	134
ALKALINITY, DEFINITION OF	20	COLIPHAGES, DEFINITION OF	21
ALLAGASH RIVER NEAR ALLAGASH, ME	46	COLOR UNIT, DEFINITION OF	21
ANDROSCOGGIN RIVER AT ERROL, NH	152	CONFINED AQUIFER, DEFINITION OF	21
PRECIPITATION-QUANTITY RECORDS	215	CONTENTS, DEFINITION OF	21
WATER-DISCHARGE RECORDS	140	CONTINUOUS-RECORD STATION, DEFINITION OF	21
ANDROSCOGGIN RIVER AT JAY, ME	152	CONTROL STRUCTURE, DEFINITION OF	21
ANDROSCOGGIN RIVER AT RUMFORD, ME	216	CONTROL, DEFINITION OF	21
PRECIPITATION-QUANTITY RECORDS	148	CUBIC FOOT PER SECOND PER SQUARE MILE,	
WATER-DISCHARGE RECORDS	164	DEFINITION OF	22
ANDROSCOGGIN RIVER NEAR AUBURN, ME	164	CUBIC FOOT PER SECOND, DEFINITION OF	21
ANDROSCOGGIN RIVER NEAR GORHAM, NH	142	CUBIC FOOT PER SECOND-DAY, DEFINITION OF	22
ANNUAL 7-DAY MINIMUM, DEFINITION OF	20	D	
ANNUAL RUNOFF, DEFINITION OF	20	DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION,	
AQUIFER, WATER TABLE, DEFINITION OF	33	DEFINITION OF	22
ABLE, DEFINITION OF	33	DAILY-RECORD STATION, DEFINITION OF	22
AROCOLOR	20	DATA COLLECTION PLATFORM, DEFINITION OF	22
AROOSTOOK COUNTY, GROUND-WATER RECORDS	187	DATA LOGGER, DEFINITION OF	22
AROOSTOOK RIVER AT WASHBURN, ME	56	DATUM, DEFINITION OF	22
AROOSTOOK RIVER NEAR MASARDIS, ME	54	DENNYS RIVER AT DENNYSVILLE, ME	70
ARTIFICIAL SUBSTRATE, DEFINITION OF	20	DIAMOND RIVER NEAR WENTWORTH LOCATION, NH	138
ASH MASS, DEFINITION OF	20	DIATOM, DEFINITION OF	22
ASPECT, DEFINITION OF	20	DIEL, DEFINITION OF	22
B		DISCHARGE, DEFINITION OF	22
BACTERIA FECAL STREPTOCOCCAL, DEFINITION OF	23	DISSOLVED OXYGEN, DEFINITION OF	22
BACTERIA STREPTOCOCCAL, DEFINITION OF	23	DISSOLVED, DEFINITION OF	22
BACTERIA ESCHERICHIA COLI, DEFINITION OF	23	DISSOLVED-SOLIDS CONCENTRATION, DEFINITION OF	22
ESCHERICHIA COLI, DEFINITION OF	23	DIVERSITY INDEX, DEFINITION OF	22
BACTERIA, D FECAL COLIFORM, DEFINITION OF	23	DRAINAGE AREA, DEFINITION OF	23
FECAL COLIFORM, DEFINITION OF	23	DRAINAGE BASIN, DEFINITION OF	23
BACTERIA, DEF ENTEROCOCCUS, DEFINITION OF	23	DRY MASS, DEFINITION OF	23
ENTEROCOCCUS, DEFINITION OF	23	DRY WEIGHT, DEFINITION OF	23
BACTERIA, DEFINITION OF	20	DUCKTRAP RIVER NEAR LINCOLNVILLE, ME	114
BACTERIA, DETOTAL COLIFORM, DEFINITION OF	31	E	
TOTAL COLIFORM, DEFINITION OF	31	EAST BRANCH BEAR BROOK NEAR BEDDINGTON, ME	86
BANKFULL STAGE, DEFINITION OF	20	EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME	98
BASE DISCHARGE, DEFINITION OF	20	ELLIS RIVER AT SOUTH ANDOVER, ME	146
BASE FLOW, DEFINITION OF	20	EMBEDDEDNESS, DEFINITION OF	23
BED LOAD, DEFINITION OF	20	ENTEROCOCCUS BACTERIA, DEFINITION OF	23
BED MATERIAL, DEFINITION OF	20	EPT INDEX, DEFINITION OF	23
BED-LOAD DISCHARGE, DEFINITION OF	20	ESCHERICHIA COLI (E. COLI), DEFINITION OF	23
BENTHIC ORGANISMS, DEFINITION OF	20	ESTIMATED (E) CONCENTRATION VALUE, DEFINITION OF	23
BIG BLACK RIVER NEAR DEPOT MOUNTAIN, ME	42	EUGLENOIDS, DEFINITION OF	23
BIOCHEMICAL OXYGEN DEMAND, DEFINITION OF	20	EXTRACTABLE ORGANIC HALIDES, DEFINITION OF	23
BIOMASS PIGMENT RATIO, DEFINITION OF	21	F	
BIOMASS, DEFINITION OF	20	FECAL COLIFORM BACTERIA, DEFINITION OF	23
BLACK BROOK NEAR NORTHFIELD, ME	74	FECAL STREPTOCOCCAL BACTERIA, DEFINITION OF	23
BLUE-GREEN ALGAE, DEFINITION OF	21	FIRE ALGAE, DEFINITION OF	23
BOBBIN MILL BROOK NR AUBURN, ME	160	FISH RIVER NEAR FORT KENT, ME	50
BOTTOM MATERIAL, DEFINITION OF	21	FLOW, DEFINITION OF	22
BULK ELECTRICAL CONDUCTIVITY, DEFINITION OF	21	FLOW-DURATION PERCENTILES, DEFINITION OF	23
C		FRANKLIN COUNTY, GROUND-WATER RECORDS	191
CADILLAC BROOK NEAR BAR HARBOR, ME	92	G	
CARRABASSETT RIVER NEAR NORTH ANSON, ME	92	GAGE DATUM, DEFINITION OF	24
		GAGE HEIGHT, DEFINITION OF	24

INDEX--Continued

GAGE VALUES, DEFINITION OF	24	MEAN SEA LEVEL, DEFINITION OF	25
GAGING STATION, DEFINITION OF	24	MEASURING POINT, DEFINITION OF	25
GAS CHROMATOGRAPHY/FLAME IONIZATION DETECTOR, DEFINITION OF	24	MEMBRANE FILTER, DEFINITION OF	25
GEOMORPHIC CHANNEL UNITS, DEFINITION OF	24	METAMORPHIC STAGE, DEFINITION OF	25
GRAND LAKE STREAM AT GRAND LAKE STREAM, ME	62	METHOD DETECTION LIMIT, DEFINITION OF	26
GREEN ALGAE, DEFINITION OF	24	METHYLENE BLUE ACTIVE SUBSTANCES, DEFINITION OF	26
GROUND-WATER RECORDS, BY COUNTY		MICROGRAMS PER GRAM, DEFINITION OF	26
AROSTOOK	187	MICROGRAMS PER KILOGRAM, DEFINITION OF	26
FRANKLIN	191	MICROGRAMS PER LITER, DEFINITION OF	26
YORK	205	MICROSIEMENS PER CENTIMETER, DEFINITION OF	26
H			
HABITAT QUALITY INDEX, DEFINITION OF	24	MILLIGRAMS PER LITER, DEFINITION OF	26
HABITAT, DEFINITION OF	24	MINIMUM REPORTING LEVEL, DEFINITION OF	26
HADLOCK BROOK NEAR CEDAR SWAMP MOUNTAIN NEAR NORTHEAST HARBOR, ME	94	MISCELLANEOUS SITE, DEFINITION OF	26
HARDNESS, DEFINITION OF	24	MOPANG STREAM NEAR BEDDINGTON, ME	72
HIGH TIDE, DEFINITION OF	24	MOST PROBABLE NUMBER (MPN), DEFINITION OF	26
HILSENHOFF'S BIOTIC INDEX, DEFINITION OF	24	MULTIPLE-PLATE SAMPLERS, DEFINITION OF	26
HORIZONTAL DATUM, DEFINITION OF	24	N	
HYDROLOGIC INDEX STATIONS, DEFINITION OF	24	NANOGRAMS PER LITER, DEFINITION OF	26
HYDROLOGIC UNIT, DEFINITION OF	24	NARRAGUAGUS RIVER AT CHERRYFIELD, ME	90
I			
INCH, DEFINITION OF	24	NATIONAL GEODETIC VERTICAL DATUM OF 1929, DEFINITION OF	26
INSTANTANEOUS DISCHARGE, DEFINITION OF	24	NATURAL SUBSTRATE, DEFINITION OF	26
INTRODUCTION	1	ND	1
ISLAND, DEFINITION OF	24	NEKTON, DEFINITION OF	26
K			
KENNEBEC RIVER AT BINGHAM, ME		NEPHELOMETRIC TURBIDITY UNIT, DEFINITION OF	26
PRECIPITATION-QUANTITY RECORDS	212	NEZINSCOT RIVER NEAR TURNER CENTER, ME	154
WATER-DISCHARGE RECORDS	122	NORTH AMERICAN VERTICAL DATUM OF 1988, DEFINITION OF	26
KENNEBEC RIVER AT FR. CURRAN BRIDGE		O	
AT AUGUSTA, ME	132	OLD STREAM NEAR WESLEY, ME	80
KENNEBEC RIVER AT GARDINER, ME	136	OPEN OR SCREENED INTERVAL, DEFINITION OF	26
KENNEBEC RIVER AT NORTH SIDNEY, ME	130	ORGANIC CARBON, DEFINITION OF	27
KENNEBEC RIVER AT THE FORKS, ME		ORGANIC MASS, DEFINITION OF	27
PRECIPITATION-QUANTITY RECORDS	211	ORGANISM COUNT, DEFINITION OF	
WATER-DISCHARGE RECORDS	118	AREA, DEFINITION OF	27
KINGSBURY PRECIPITATION AT KINGSBURY, ME	208	TOTAL, DEFINITION	32
KINGSBURY STREAM AT ABBOT VILLAGE, ME		VOLUME, DEFINITION OF	27
PRECIPITATION-QUANTITY RECORDS	209	ORGANOCHLORINE COMPOUNDS, DEFINITION OF	27
WATER-DISCHARGE RECORDS	104	P	
L			
LABORATORY REPORTING LEVEL, DEFINITION OF	25	PARAMETER CODE, DEFINITION OF	27
LAND-SURFACE DATUM, DEFINITION OF	25	PARTIAL-RECORD STATION, DEFINITION OF	27
LATENT HEAT FLUX, DEFINITION OF	25	PARTICLE SIZE, DEFINITION OF	27
LIBBY BROOK NEAR NORTHFIELD, ME	76	PARTICLE-SIZE CLASSIFICATION, DEFINITION OF	27
LIGHT-ATTENUATION COEFFICIENT, DEFINITION OF	25	PEAK FLOW, DEFINITION OF	27
LIPID, DEFINITION OF	25	PENOBSCOT RIVER AT EDDINGTON, ME	112
LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME	162	PENOBSCOT RIVER AT WEST ENFIELD, ME	110
LONG-TERM METHOD DETECTION LEVEL, DEFINITION OF	25	PERCENT COMPOSITION, DEFINITION OF	27
LOW FLOW, 7-DAY 10-YEAR, DEFINITION OF	29	PERCENT SHADING, DEFINITION OF	27
LOW TIDE, DEFINITION OF	25	PERIODIC STATION, DEFINITION OF	27
M			
MACHIAS RIVER AT WHITNEYVILLE, ME	82	PERIPHYTON, DEFINITION OF	27
MACROPHYTES, DEFINITION OF	25	PESTICIDES, DEFINITION OF	28
MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME	100	PH, DEFINITION OF	28
DEFINITION OF	25	PHYTOPLANKTON, DEFINITION OF	28
MEAN DISCHARGE, DEFINITION OF	25	PICOCURIE, DEFINITION OF	28
MEAN HIGH TIDE, DEFINITION OF	25	PISCATAQUIS RIVER AT BLANCHARD, ME	
MEAN LOW TIDE, DEFINITION OF	25	PRECIPITATION-QUANTITY RECORDS	207
		WATER-DISCHARGE RECORDS	102
		PISCATAQUIS RIVER AT MEDFORD, ME	108
		PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME	
		PRECIPITATION-QUANTITY RECORDS	210
		WATER-DISCHARGE RECORDS	106
		PLANKTON, DEFINITION OF	28
		PLEASANT RIVER NEAR EPPING, ME	84
		POLYCHLORINATED BIPHENYLS (PCB S), DEFINITION OF	28

CONVERSION FACTORS

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

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