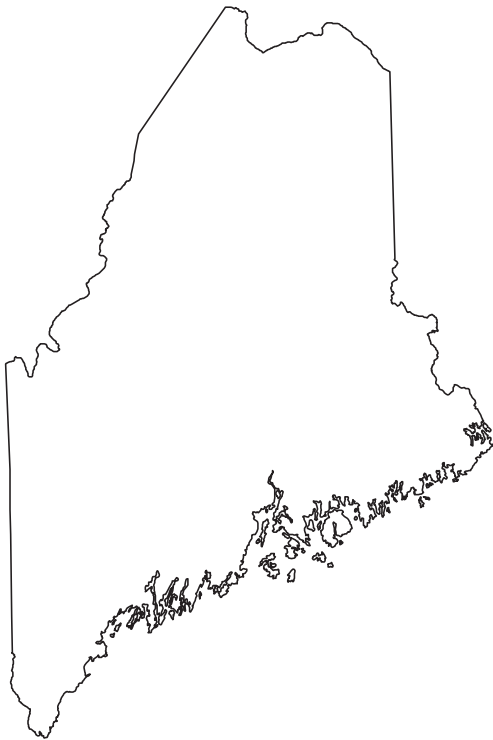


U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Maine Water Year 2003

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

Water-Data Report ME-03-1



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

U.S. DEPARTMENT OF THE INTERIOR
Gale Norton, Secretary

U.S. GEOLOGICAL SURVEY
Charles G. Groat, Director

For additional information write to
Chief, Maine District
Water Resources Division
U.S. Geological Survey
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	Patrick C. Miller
Laura E. Flight	Joseph P. Nielsen
Joshua P. Kempf	Timothy C. Sargent

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.

REPORT DOCUMENTATION PAGEForm Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE April 2004	3. REPORT TYPE AND DATES COVERED Annual-October 1, 2002 to September 30, 2003	
4. TITLE AND SUBTITLE Water Resources Data - Maine Water Year 2003			5. FUNDING NUMBERS	
6. AUTHOR(S) G. J. Stewart, J.M. Caldwell, A.R. Cloutier				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 196 Whitten Road Augusta, Maine 04330			8. PERFORMING ORGANIZATION REPORT NUMBER USGS-WDR-ME-03-1	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 196 Whitten Road Augusta, Maine 04330			10. SPONSORING / MONITORING AGENCY REPORT NUMBER USGS-WDR-ME-03-1	
11. SUPPLEMENTARY NOTES Prepared in cooperation with the State of Maine and other agencies				
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.				
14. SUBJECT TERMS *Maine, *Hydrologic Data, *Surface Water, *Ground Water, *Water Quality, Flow Rate, Gaging Stations, Chemical Analyses, Water Temperature, Sediments, Sampling Sites, Water Levels, Water Analyses			15. NUMBER OF PAGES 250	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT Unclassified	

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	14
Summary statistics	14
Hydrograph	15
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	16
Accuracy of the records	17
Remark codes	17
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	19
Records of snow quantity	19
Data collection and computation	19
Data presentation	19
Access to USGS water data	19
Definition of terms	20
Publications on Techniques of Water-Resources Investigations	35
Station records, surface water	40
Discharge at partial-record and special study stations	192
Station records, ground water	196
Ground-water quality analyses at special study stations	219
Station records, precipitation quantity	224
Station records, snow quantity	238
Index	248

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 2003 water year with median discharge for period 1971-2000	7
6. Maps showing monthly surface-water conditions during the 2003 water year in Maine	8
7. Maps showing monthly ground-water conditions during the 2003 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 2003 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 partial-record and special-study stations for both surface-water discharge and quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

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

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
Libby Brook near Northfield (d)	01021470	74
Old Stream near Wesley (d)	01021480	76
Machias River at Whitneyville (d)	01021500	78
<u>PLEASANT RIVER BASIN</u>		
Pleasant River near Crebo Flat (d)	01022220	80
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 Deblois (d)	01022330	90
Narraguagus River at Cherryfield (d)	01022500	94
<u>OTTER CREEK BASIN</u>		
Otter Creek:		
Cadillac Brook near Bar Harbor (d)	01022835	96
<u>HADLOCK BROOK BASIN</u>		
Hadlock Brook near Cedar Swamp Mountain near Northeast Harbor (d)	01022860	98
<u>PENOBSCOT RIVER BASIN</u>		
Penobscot River:		
North Branch Penobscot River near Pittston Farms (d)	01027200	100
Seboeis River near Shin Pond (d)	01029200	104
East Branch Penobscot River at Grindstone (d)	01029500	106
Mattawamkeag River near Mattawamkeag (d)	01030500	108
Piscataquis River at Blanchard (d)	01031300	110
Kingsbury Stream at Abbot Village (d)	01031450	112
Piscataquis River near Dover-Foxcroft (d)	01031500	114
Piscataquis River at Medford (d)	01034000	116
Penobscot River at West Enfield (d)	01034500	118
Penobscot River at Eddington (g)	01036390	120

NORTH ATLANTIC SLOPE BASINS--Continued	Station number	Page
<u>DUCKTRAP RIVER BASIN</u>		
Ducktrap River near Lincolnville (d).....	01037380	122
<u>SHEEPSCOT RIVER BASIN</u>		
Sheepscot River at North Whitefield (d)	01038000	124
<u>KENNEBEC RIVER BASIN</u>		
Kennebec River at The Forks (d).....	01042500	126
Spencer Stream near Grand Falls (d)	01044550	128
Kennebec River at Bingham (d)	01046500	130
Carrabassett River near North Anson (d).....	01047000	132
Sandy River near Mercer (d).....	01048000	134
Sebasticook River near Pittsfield (d).....	01049000	136
Kennebec River at North Sidney (d).....	01049265	138
Kennebec River at Father Curran Bridge at Augusta (g).....	01049320	140
Cobbosseecontee Stream at Gardiner (d)	01049500	142
Kennebec River at Gardiner (g).....	01049505	144
<u>ANDROSCOGGIN RIVER BASIN</u>		
Androscoggin River:		
Umbagog Lake:		
Magalloway River:		
Diamond River near Wentworth Location, NH (d)	01052500	146
Androscoggin River at Errol, NH (d)	01053500	148
Androscoggin River near Gorham, NH (d).....	01054000	150
Wild River at Gilead (d,c,e,n)	01054200	152
Ellis River near South Andover (d).....	01054300	154
Androscoggin River at Rumford (d)	01054500	156
Swift River near Roxbury (d).....	01055000	158
Androscoggin River at Jay (m)	01055100	160
Dead River at Leeds (d)	01055220	162
Nezinscot River at Turner Center (d).....	01055500	166
The Basin outlet at North Auburn (d)	01056400	168
Townsend Brook near Auburn (d)	01056480	170
Bobbin Mill Brook near Auburn (d)	01056505	172
Little Androscoggin River near South Paris (d).....	01057000	174
Androscoggin River near Auburn (d)	01059000	176
<u>ROYAL RIVER BASIN</u>		
Royal River at Yarmouth (d)	01060000	178
<u>PRESUMPCOT RIVER BASIN</u>		
Sebago Lake:		
Stony Brook at East Sebago (d)	01063310	180
Sebago Lake near North Windham (g)	01063995	182
Presumpscot River at Westbrook (g)	01064118	184
<u>SACO RIVER BASIN</u>		
Saco River near Conway, NH (d)	01064500	186
Saco River at Cornish (d).....	01066000	188
<u>PISCATAQUA RIVER BASIN</u>		
Salmon Falls River (head of Piscataqua River) at Milton, NH (d).....	01072100	190
Discharge at partial-record and special study stations		192

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

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

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

	Page
<u>ANDROSCOGGIN COUNTY</u>	
Well 440213070203201 Local numbr ANW 1135 (l,c,e,n)	196
<u>AROOSTOOK COUNTY</u>	
Well 471457068353001 Local number ARW 890 (l)	198
Well 464259067572901 Local number ARW 906 (l)	199
<u>CUMBERLAND COUNTY</u>	
Well 435453070013601 Local number CW 26 (l)	200
Well 435039070261101 Local number CW 1983 (l)	201
<u>FRANKLIN COUNTY</u>	
Well 444302070252401 Local number FW 916 (l,c,e,n)	202
<u>HANCOCK COUNTY</u>	
Well 444950068220602 Local number HW 1A (l)	204
<u>KENNEBEC COUNTY</u>	
Well 441849069442001 Local number KW 52 (l)	205
Well 440918069564001 Local number KW 766 (l)	206
Well 440810069553601 Local number KW 872A (l,c,e,n)	207
<u>OXFORD COUNTY</u>	
Well 443647070552302 Local number OW 400A (l)	209
Well 440823070291501 Local number OW 1214 (l)	210
<u>PENOBSCOT COUNTY</u>	
Well 445319068560101 Local number PEW 456 (l,c,e,n)	211
Well 453629068531801 Local number PEW 594 (l)	213
<u>SOMERSET COUNTY</u>	
Well 445148069513301 Local number SMW 61 (l)	214
<u>WALDO COUNTY</u>	
Well 442822069081301 Local number WOW 85 (l)	215
<u>WASHINGTON COUNTY</u>	
Well 450713067162801 Local number WW 796 (l)	216
Well 445227067520101 Local number WW 797 (l)	217
<u>YORK COUNTY</u>	
Well 432310070393301 Local number YW 807 (l)	218
Ground-water quality analyses at special-study stations	219

PRECIPITATION STATIONS FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

	Station number	Page
<u>ST. JOHN RIVER BASIN</u>		
St. John River at Ninemile Bridge	01010000	224
St. John River at Dickey	01010500	225
<u>PENOBSCOT RIVER BASIN</u>		
Shirley Precipitation at Shirley Mills.....	452156069371801	226
Piscataquis River at Blanchard	01031300	227
Kingsbury Precipitation at Kingsbury	450705069384801	228
Kingsbury Stream at Abbot Village.....	01031450	229
Piscataquis River near Dover-Foxcroft.....	01031500	230
<u>KENNEBEC RIVER BASIN</u>		
Kennebec River at The Forks	01042500	231
Kennebec River at Bingham	01046500	232
Carrabassett River near North Anson	01047000	233
Sandy River near Mercer	01048000	234
<u>ANDROSCOGGIN RIVER BASIN</u>		
Androscoggin River at Errol, NH	01053500	235
Androscoggin River at Rumford.....	01054500	236
<u>SACO RIVER BASIN</u>		
Saco River at Cornish	01066000	237
Snow quantity data.....		238

DISCONTINUED SURFACE-WATER DISCHARGE OR GAGE-HEIGHT STATIONS

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

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

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

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

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

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

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

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

^b Revisions to the maximum discharges for some periods at this site have been published in WDR ME-97-1.

^c Station formerly published as Cold Brook near Northern Maine Junction, Maine

DISCONTINUED SURFACE-WATER QUALITY STATIONS

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

Discontinued continuous-recording surface-water quality monitor stations

Station Name	Station Number	Drainage Area (mi ²)	Type of Record	Period of Record (water year)
St. John River basin				
St. John River at Ninemile Bridge, ME	01010000	1,341	sc,wt	1976-80
St. John River at Dickey, ME	01010500	2,680	sc,wt 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 stations--Continued

Station Name	Station Number	Drainage Area (mi ²)	Type of Record	Period of Record and (number of samples)
Penobscot River basin				
East Branch Penobscot River at Grindstone, ME	01029500	1,086	c,e,n	1952-53 (2)
Penobscot River near Mattawamkeag, ME	01030000	3,356	c,e,n	1954 (2)
Mattawamkeag River near Mattawamkeag, ME	01030500	1,418	c,e,n	1954 (2)
Piscataquis River near Dover Foxcroft, ME	01031500	298	c,e,n	1955 (2)
Sebec River at Sebec, ME	01033000	326	c,e,n	1954 (2)
Pleasant River near Milo, ME	01033500	323	c,e,n	1955 (2)
Piscataquis River at Medford, ME	01034000	1,162	c,e,n	1952-53 (2)
Penobscot River at West Enfield, ME	01034500	6,671	c,e,r,o,n,b,s	1952 (1), 1955 (2), 1961 (3), 1966-78 (151)
Passadumkeag River at Lowell, ME	01035000	297	c,e,n	1955 (2)
Penobscot River at Passadumkeag, ME	01036000	^a 7,000	c,e,n	1954 (2)
Penobscot River at Orono, ME	-----	7,710	e	1971 (1)
Penobscot River at Eddington, ME	01036390	7,764	c,e,r,o,n,b,s	1979-94 (87)
Kenduskeag Stream near Kenduskeag, ME	01036500	176	c,e,n	1955 (2)
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 stations-Continued

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

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

DISCONTINUED GROUND-WATER OBSERVATION WELLS

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

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

DISCONTINUED GROUND-WATER OBSERVATION WELLS--Continued

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

DISCONTINUED PRECIPITATION STATIONS

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

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