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U.S. GEOLOGICAL SURVEY

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2002

PREFACE

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

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13. ABSTRACT (Maximum 200 words) Water resources data for the 2001 water year for Massachusetts and Rhode Island consists of records of stage, discharge, and water quality of streams; contents of lakes and reservoirs; and water levels of ground-water wells. This report contains discharge records for 93 gaging stations, stage records at 1 gaging station, monthend contents of 4 lakes and reservoirs, water quality for 31 gaging stations, water levels for 139 observation wells, ground-water quality for 24 water-supply wells, and stage records for 1 pond. Miscellaneous hydrologic data were collected at various sites that were not a part of the systematic data-collection program and are published as miscellaneous discharge measurements and miscellaneous surface-water-quality data. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Massachusetts and Rhode Island.				
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SURFACE-WATER AND WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

(Letters after station name designate type of data: (d) discharge; (l) lake; (c) chemical; (b) biological; (m) microbiological;
(p) precipitation; (s) sediment; (t) water temperature' (st) stage only)

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The following continuous-record surface-water discharge stations (gaging stations) in Massachusetts and Rhode Island have been discontinued. Daily streamflow records were collected and published for the period of record, expressed in water years, shown for each station.

Discontinued surface-water discharge stations

Station Name	Station Number	Drainage Area (mi ²)	Period of Record (water years)
MERRIMACK RIVER BASIN			
Rocky Brook near Sterling, Mass.	01095000	1.95	1947–67
Boulder Brook near East Bolton, Mass.	01096906	1.32	1975–78
Boulder Brook at East Bolton, Mass.	01096910	1.60	1972–81
Sudbury River at Ashland, Mass.	01097480	35.1	1994–95
Beaverdam Brook at Natick, Mass.	01098320	7.27	1978–79
Course Brook at Natick, Mass.	01098340	3.44	1978–79
Pegan Brook at Natick, Mass.	01098360	.54	1978–79
Snake Brook at Wayland, Mass.	01098450	2.10	1978–79
Lake Cochituate outlet at Framingham, Mass.	01098500	21.1	1978–79
Hager Pond outlet at Marlborough, Mass.	01098710	1.80	1978–80
East Meadow River near Haverhill, Mass.	01100700	5.47	1963–74
IPSWICH RIVER BASIN			
Maple Meadow Brook at Wilmington, Mass.	01101300	4.04	1963–74
NORTH COASTAL BASIN			
Mill Brook at Rockport, Mass.	01102029	0.55	1999–2000
Sawmill Brook near Rockport, Mass.	011020308	0.53	1999–2000
CHARLES RIVER BASIN			
Charles River at Millis, Mass.	01103305	84.0	1974–80
Hobbs Brook at Mill Street near Lincoln, Mass.	01104405	2.16	1998
Cambridge Reservoir, Unnamed Tributary 1 near Lexington, Mass.	01104410	.35	1998
Cambridge Reservoir, Unnamed Tributary 2 near Lexington, Mass.	01104415	.41	1998
Cambridge Reservoir, Unnamed Tributary 3 near Lexington, Mass.	01104420	.73	1998
Hobbs Brook at Kendal Green, Mass.	01104440	8.47	1998
Stony Brook, Unnamed Tributary 1 near Waltham, Mass.	01104455	.48	1998
Stony Brook at Route 20 near Waltham, Mass.	01104460	22.0	1998
Charles River above Watertown Dam at Watertown, Mass.	01104615	268	2000
NEPONSET RIVER BASIN			
Mine Brook at Walpole, Mass.	01104850	6.00	1967–68
BLACKS CREEK BASIN			
Furnace Brook at Quincy, Mass.	01105557	3.81	1973–80
BOUND BROOK BASIN			
Bound Brook near Cohasset, Mass.	01105660	4.86	1970–71
NORTH RIVER BASIN			
Indian Head Brook near Hanson, Mass.	01105700	4.30	1958–60
Pudding Brook at East Pembroke, Mass.	01105800	1.38	1958–62
EEL RIVER BASIN			
Eel River near Plymouth, Mass.	01105876	14.7	1970–71

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

Discontinued surface-water discharge stations--Continued

Station Name	Station Number	Drainage Area (mi ²)	Period of Record (water years)
HERRING RIVER BASIN			
Herring River at North Harwich, Mass.	01105880	9.4	1966–88
RED BROOK BASIN			
Red Brook below Route 25 near Wareham, Mass.	01105885	9.14	1981–86
WEWEANTIC RIVER BASIN			
Weveantic River at South Wareham, Mass.	01105895	56.1	1970–71
WEST BRANCH WESTPORT RIVER BASIN			
Adamsville Brook at Adamsville, R.I.	01106000	8.01	1941–78, 1987
TAUNTON RIVER BASIN			
Matfield River at Elmwood, Mass.	01106500	40.5	1958–60
Poor Meadow Brook at South Hanson, Mass.	01106900	14.6	1958–60
Dorchester Brook near Brockton, Mass.	01107000	4.67	1963–74
Taunton River at Titicut near Brockton, Mass.	01107200	182	1920–25
Fall Brook near Middleborough, Mass.	01107400	9.32	1967
Wading River at West Mansfield, Mass.	01108500	19.5	1954–86
PALMER RIVER BASIN			
West Branch Palmer River near Rehoboth, Mass.	01109200	4.35	1962–74
BLACKSTONE RIVER BASIN			
Kettle Brook at Worcester, Mass.	01109500	31.6	1923–78
Mumford River at East Douglas, Mass.	01111000	29.1	1939–51
West River below West Hill Dam near Uxbridge, Mass.	01111200	27.9	1962–90
Chepachet River at Chepachet, R.I.	01111400	17.4	1965–73
Chepachet River at Gazzaville, R.I.	01111410	19.2	1973–75
Blackstone River tributary at Woonsocket, R.I.	01112700	2.31	1965–74
PAWTUXET RIVER BASIN			
Mosquitohawk Brook near North Scituate, R.I.	01115100	3.06	1965–74
Pawtuxet River at Fiskeville, R.I.	01115500	102	1915–25
Nooseneck River at Nooseneck, R.I.	01115630	8.23	1964–81
Carr River near Nooseneck, R.I.	01115770	6.73	1964–80
Flat River near Coventry, R.I.	01115900	9.13	1961–64
Furnace Hill Brook at Cranston, R.I.	01116300	4.19	1965–74
ANNAQUATUCKET RIVER BASIN			
Annaquatucket River at Belleville, R.I.	01117100	6.4	1961–64
PAWCATUCK RIVER BASIN			
Beaver River at Kenyon, R.I.	01117472	11.7	1975–79
Meadow Brook near Carolina, R.I.	01117600	5.53	1965–74
THAMES RIVER BASIN			
Quinebaug River below East Brimfield Dam near Fiskdale, Mass.	01123360	67.4	1973–90
Quinebaug River at Westville, Mass.	01123500	93.6	1940–62
Quinebaug River below Westville Dam near Southbridge, Mass.	01123600	99.0	1963–90
French River below Hodges Village Dam at Hodges Village, Mass.	01124350	31.2	1962–90
Little River near Oxford, Mass.	01124500	26.0	1939–90

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

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Discontinued surface-water discharge stations--Continued

Station Name	Station Number	Drainage Area (mi ²)	Period of Record (water years)
PAWCATUCK RIVER BASIN—Continued			
Browns Brook near Webster, Mass.	01124750	.49	1963–77
French River at Webster, Mass.	01125000	84.0	1949–81
Bucks Horn Brook at Greene, R.I.	01126200	5.52	1965–74
CONNECTICUT RIVER BASIN			
Tarbell Brook near Winchendon, Mass.	01161500	17.8	1916–82
Otter River near Gardner, Mass.	01163000	20.0	1916–17
Millers River at South Royalston, Mass.	01164000	189	1939–90
East Branch Tully River near Athol, Mass.	01165000	50.5	1916–90
Lake Rohunta Outlet near Athol, Mass.	01165300	20.3	1965–85
Moss Brook at Wendell Depot, Mass.	01165500	12.1	1909–10, 1916–82
Whetstone Brook at Depot Road at Wendell Depot, Mass.	01166105	5.22	1985–91
Deerfield River near Rowe, Mass.	01168151	254	1974–97
Unnamed Channel to Wilder Brook at Buckland, Mass.	01168639	0.01	1993–95
Wilder Brook at Buckland, Mass.	01168640	0.07	1993–95
Fort River near Amherst, Mass.	01171300	36.3	1966–96
Bassett Brook near Northampton, Mass.	01171800	5.56	1963–74
Natty Pond Brook Templeton Rd (DS) near Hubbardston, Mass.	01172680	1.63	1985–88
Natty Pond Brook near Hubbardston, Mass.	01172800	5.48	1985–88
Moose Brook near Barre, Mass.	01173260	4.63	1963–74
Hop Brook near New Salem, Mass.	01174000	3.39	1947–82
East Branch Fever Brook near Petersham, Mass.	01174050	4.85	1984–85
Dickey Brook near Cooleyville, Mass.	01174570	1.19	1985–89
Dickey Brook tributary near Cooleyville, Mass.	01174575	1.06	1985–89
Cadwell Creek near Pelham, Mass.	01174600	0.60	1962–94
Cadwell Creek near Belchertown, Mass.	01174900	2.55	1961–97
Mill River at Springfield, Mass.	01178000	33.2	1939–51
Westfield River at West Chesterfield, Mass.	01178500	110	1946–51
Sykes Brook at Knightville, Mass.	01180000	1.73	1945–74
Middle Branch Westfield River at Goss Heights, Mass.	01180500	52.7	1910–90
Walker Brook near Becket Center, Mass.	01180800	2.94	1963–77
Great Brook near Westfield, Mass.	01183450	22.6	1973–82
Fall River below Otis Reservoir near Otis, Mass.	01185100	16.5	1969–82
HOUSATONIC RIVER BASIN			
Town Brook at Bridge Street at Lanesborough, Mass.	01197015	10.6	1980–83
Marsh Brook at Lenox, Mass.	01197300	2.12	1963–74
Green River near Great Barrington, Mass.	01198000	51.0	1951–71, 1994–96
Schenob Brook near Sheffield, Mass.	01198030	23.3	1971–72
Willard Brook near Sheffield, Mass.	01198070	3.20	1971–72
Hubbard Brook at Sheffield, Mass.	01198075	25.8	1971–72
Ironworks Brook, East Road, at Sheffield, Mass.	01198122	11.2	1994–96
Housatonic River near Ashley Falls, Mass.	01198125	465	1994–96
Konkapot River at Ashley Falls, Mass.	01198200	61.1	1994–96
HUDSON RIVER BASIN			
Dry Brook at Adams, Mass.	01331400	7.67	1963–74
North Branch Hoosic River at North Adams, Mass.	01332000	40.9	1931–90

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record surface-water-quality stations have been discontinued. Daily records of temperature (temp.), specific conductance (S.C.), pH (pH), dissolved oxygen (D.O.) or sediment (sed.) were collected and published for the period of record, expressed in water years, shown for each station. Those stations currently being operated as water-quality partial-record stations (sampled quarterly or more frequently) are shown with an asterisk (*) beside the station number.

Discontinued continuous-record surface-water-quality stations

Station Name	Station Number	Drainage Area (mi ²)	Type of record	Period of record (water years)
MERRIMACK RIVER BASIN				
North Nashua River near Lancaster, Mass.	01094700	128	Temp., S.C., pH, D.O.	1969–74
Merrimack River above Concord River at Lowell, Mass.	01096570	3956	Temp., S.C., pH, D.O.	1968–72
Boulder Brook near East Bolton, Mass.	01096906	1.32	Temp., S.C.	1971–78
Boulder Brook at East Bolton, Mass.	01096910	1.60	Temp., S.C.	1971–78
Nashoba Brook near Acton, Mass.	01097300	12.8	Temp., S.C.	1972–74, 1976–78
Merrimack River at West Newbury, Mass.	01100750	--	Temp., S.C., pH, D.O.	1969–76
CHARLES RIVER BASIN				
Charles River at Dover, Mass.	01103500	183	Temp., S.C.	1975–81
Hobbs Brook at Mill Street near Lincoln, Mass.	01104405	2.16	Temp., S.C.	1998
Cambridge Reservoir, Unnamed Tributary 1 near Lexington, Mass.	01104410	.35	Temp., S.C.	1998
Cambridge Reservoir, Unnamed Tributary 2 near Lexington, Mass.	01104415	.41	Temp., S.C.	1998
Cambridge Reservoir, Unnamed Tributary 3 near Lexington, Mass.	01104420	.73	Temp., S.C.	1998
Hobbs Brook at Kendal Green, Mass.	01104440	8.47	Temp., S.C.	1998
Stony Brook, Unnamed Tributary 1 near Waltham, Mass.	01104455	.48	Temp., S.C.	1998
Stony Brook at Route 20 near Waltham, Mass.	01104460	22.0	Temp., S.C.	1998
NORTH RIVER BASIN				
Indian Head River at Hanover, Mass.	01105730	30.3	Temp., S.C.	1970–71
JONES RIVER BASIN				
Jones River at Kingston, Mass.	01105870	15.7	Temp., S.C.	1970–71
EEL RIVER BASIN				
Eel River near Plymouth, Mass.	01105876	14.7	Temp. S.C.	1970–71 1971
WEWEANTIC RIVER BASIN				
Weweantic River at South Wareham, Mass.	01105895	56.1	Temp., S.C.	1970–71
WEST BRANCH WESTPORT RIVER BASIN				
Adamsville Brook at Adamsville, Mass.	01106000	8.01	Temp., S.C.	1973–74
PALMER RIVER BASIN				
West Branch Palmer River near Rehoboth, Mass.	01109200	4.35	Temp., S.C.	1973–74
BLACKSTONE RIVER BASIN				
Blackstone River at Millville, Mass.	*01111230	263	Temp., S.C., pH, D.O.	1969–81
Blackstone River at Woonsocket, R.I.	01112500	416	Temp.	1962–67

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

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Discontinued continuous-record surface-water-quality stations--Continued

Station Name	Station Number	Drainage Area (mi ²)	Type of record	Period of record (water years)
PAWTUXET RIVER BASIN				
Pawtuxet River at Cranston, R.I.	*01116500	200	Temp., S.C.	1962-81
POTOWOMUT RIVER BASIN				
Hunt River near Davisville, R.I.	01116910	17.3	Temp.	1962-65
Hunt River near East Greenwich, R.I.	01117000	23.0	Temp., S.C.	1977-81
PAWCATUCK RIVER BASIN				
Chipuxet River at West Kingston, R.I.	01117350	9.99	Temp., S.C.	1974-83
Usquepaug River near Usquepaug, R.I.	01117420	36.1	Temp., S.C.	1975-83
Beaver River near Usquepaug, R.I.	01117468	8.87	Temp. S.C.	1979-83 1979-80, 1982-83
Beaver River at Kenyon, R.I.	01117472	11.7	Temp., S.C.	1976-79
THAMES RIVER BASIN				
Quinebaug River near Dudley, Mass.	01123990	156	Temp., S.C., pH, D.O.	1969-81
Browns Brook near Webster, Mass.	01124750	.49	Temp., S.C.	1972-77
CONNECTICUT RIVER BASIN				
Millers River at South Royalston, Mass.	01164000	189	Temp.	1966
Deerfield River near West Deerfield, Mass.	01170000	557	Temp., S.C.	1969-70
Moose Brook near Barre, Mass.	01173260	4.63	Temp., S.C.	1972-73
Hop Brook near New Salem, Mass.	01174000	3.39	Temp., S.C.	1972-73
Chicopee River at Chicopee Falls, Mass.	01177100	711	Temp., S.C., pH D.O.	1973-81 1973-76, 1978-81
Connecticut River at West Springfield, Mass.	01177200	9623	Temp., S.C., pH, D.O.	1972-75, 1977, 1979-81
Walker Brook near Becket Center, Mass.	01180800	2.94	Temp., S.C.	1972-77
Westfield River at West Springfield, Mass.	01183600	513	Temp., S.C., pH, D.O.	1972-76
Connecticut River at Agawam, Mass.	01183750	--	Temp., S.C., D.O. pH	1969-81 1969-76, 1979-81
HOUSATONIC RIVER BASIN				
Housatonic River near Great Barrington, Mass.	01197500	282	Sed.	1979-80, 1994-96

