

COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DRINKING WATER PROGRAM

# MASSACHUSETTS HYDROGEOLOGIC INFORMATION MATRIX

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SIXTH EDITION  
2013

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## INTRODUCTION

The Massachusetts Hydrogeologic Information Matrix summarizes currently available information sources on the geology and hydrology of Massachusetts. The matrix, arranged by United States Geological Survey (USGS) 7 ½ minute topographic sheets, contains information bedrock and surficial geology, unconsolidated materials drainage, hydrologic data, groundwater availability and quality, and related reports.

The geologic and hydrologic information in the matrix is derived from a number of sources, each of which is keyed to the matrix, identified by footnotes, and referenced. USGS Bulletins and Professional Papers relate primarily to bedrock and surficial geology. The Survey's Geologic Quadrangle Maps include bedrock geology and surficial geology maps. USGS Geophysical Investigations Maps consist of aeromagnetic maps printed on transparent paper and are designed to be used as overlays on the USGS Geologic Quadrangle bedrock maps. The Survey's Hydrologic Atlases identify water resources of major river basins. These studies include information on drainage, quality and availability of surface water and groundwater, regional storage analysis, and water use. USGS Hydrologic Data Reports include descriptions and logs of selected wells, test wells, and borings; records of water levels at selected observation wells; and information on chemical analyses of surface water and groundwater. The Survey's Water Resource Investigations include a variety of groundwater studies as well as a series of gazetteers of hydrologic characteristics of streams in major river basins. The gazetteers include information on monthly flows, low-flow frequencies, the duration of daily flows, and subbasin drainage areas. USGS Water Supply Papers relate primarily to groundwater availability and quality. The USGS Miscellaneous Geologic Investigations Maps, Miscellaneous Field Studies Maps, and Open-File Reports consist of a variety of geologic and hydrologic studies.

Most sources of information used in the matrix, as well as copies of the matrix itself, are available to the general public. An address list at the end of the matrix identifies the state and federal agencies information from which the matrix information was derived.

Any additional comments on the matrix, including updated information and corrections, are welcome and should directed to:

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## USE OF THE MATRIX

To identify hydrogeologic information for a particular region in the Commonwealth, the city town or region of interest must be identified with the particular USGS quadrangle which covers the area of interest. For example, to locate any information pertaining to the town of Adams, the quadrangle or quadrangles in which Adams occurs must be determined by consulting Appendix A.

City/Town	Quadrangle Names	
Adams	Cheshire North Adams	Williamstown Windsor

As the appendix indicates, Adams occurs in the four quadrangles of Cheshire, North Adams, Williamstown, and Windsor. Because each quadrangle in turn may encompass a number of other cities/towns, the information on each quadrangle is not necessarily restricted to Adams. Once the quadrangles which encompass Adams have been identified, each quadrangle must be surveyed for hydrogeological information that relates to the Adams.

Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability and Quality
North Adams	B-159 GP-454 GQ-139 WRI-99-4000	B-159 OF-68-133	HA-481,506 OF-66-131 OF-81-1199 OF-96-397 WRI-83-4250 WRI-84-4282 WRI-96-4115	HD-6 HD-13 HD-15	HA-249, 481 HA-506 WSP-110 c WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1

The following is a review of the information available on the North Adams quadrangle which would be used in the hydrogeological survey of Adams; this example should serve as a guide on how to use the matrix. It must be kept in mind, however, that first, the information in this example is not exclusively limited to Adams, because that the North Adams quadrangle also contains portions of Clarksburg, Florida, Monroe, North Adams, and Savoy; and secondly, a complete review of all information available on the town of Adams must include a review of the Cheshire, Williamstown, and Windsor quadrangles, as each of these quadrangles also encompass parts of Adams.

### Bedrock Geology

- 1) Bulletin B-159 includes general bedrock geology of eastern Berkshire County.
- 2) Geophysical Investigations Map GP-454 is an aeromagnetic map of the North Adams Quadrangle, printed on transparent paper for use as an overlay on Geologic Quadrangle
- 3) Map GQ-139 which is a bedrock geology map of the North Adams quadrangle

### Surficial Geology

- 1) Bulletin B-159 includes general surficial geology of eastern Berkshire County.
- 2) Open-File Report OF-68-133 is a Preliminary Materials map which included surficial geologic information for the North Adams quadrangle

### Drainage

- 1) Hydrologic Investigations Atlases HA-481 and HA-506 include drainage information for the Hoosic River basin (HA-481), which covers most of the town of Adams; and the Deerfield River basin (HA-506), which covers only the northeast portion of the town.
- 2) Open-File Reports OF-81-1199 and OF-82-632 delineate drainage divides for the Hudson River basin (OF-81-1199), which includes the Hoosic River subbasin; and the Deerfield and Millers River basins (OF-82-632).
- 3) Water Resources Investigations WRI-83-4250 and WRI-84-4282 include drainage information for the Hudson River basin (WRI-83-4250), and the Connecticut River basin which includes the Deerfield River subbasin.

### Hydrologic Data Reports

Hydrologic Data Reports HD-6, HD-13, and HD-15 cover Western Massachusetts, the Deerfield River basin, and the Hoosic River basin, respectively. These reports include descriptions and logs of selected wells, test wells, and borings; records of water levels in selected observation wells; and information on chemical analyses of surface water and groundwater.

### Groundwater Availability and Quantity

- 1) Hydrologic Atlas HA-249 is a groundwater favorability map of the Connecticut River Basin.
- 2) Hydrologic Atlases HA-481 and HA-506 present information on the water resources of the Hoosic and Deerfield River basin, respectively.
- 3) Water Supply Paper 110c gives general information on water resources for a region which includes northern Berkshire County.

## LIST OF STATEWIDE USGS DOCUMENTS

The following USGS documents contain geologic and hydrogeologic information that covers the entire state of Massachusetts.

**B- Bulletin**  
**HD- Hydrologic Data Report**  
**HUD- Hydrologic Unit Map**  
**I-Miscellaneous Geologic Investigation Map**  
**OF- Open-File Report**  
**P-Publication**  
**SIR-Scientific Investigations Report**  
**WRI- Water Resource Investigation**  
**WSP-Water Supply Paper**

- B-5** Pegmatites of Massachusetts, 1941, by Marland P. Billings, 29p.i
- HD-17** Ground-Water Levels in Massachusetts, 1936-74, by Anthony Maevsky, 1976, 107 p.
- HUD-1974** States of Massachusetts, Rhode Island and Connecticut. 1 sheet, scale 1:500,000
- HUD-1988** States of Massachusetts, Rhode Island and Connecticut 1 sheet
- I-1420 (NK-19)** Quaternary Geologic Map of the Boston 40 x 60 Quadrangle, United States and Canada, by Joseph H. Hartshorn and others. 1 sheet, scale: 1:1,000,000.
- I-1420 (NK-18)** Quaternary Geologic Map of the Hudson River 40 x 60 Quadrangle, United States and Canada, by David S. Fullerton and others. 1 sheet, scale: 1:1,000,000.
- I-1970-A** Map Showing the Thickness and Character of Quaternary Sediments in the Glaciated United States East of the Rocky Mountains-Northeastern States, the Great Lakes, and Parts of Southern Ontario and the Atlantic Offshore Area (East of 800 31' West Longitude) by David R. Soller, 1993. 1 sheet, scale 1:1,000,000.
- OF-80-1205** Probable High Ground-Water Levels in Massachusetts, by Michael H. Frimpter, 1981, 19 p.
- OF-87-0731** Massachusetts Ground-Water Quality, by Michael Frimpter, 1987, 7 p.
- OF-88-493** A Mass Balance Model for Predicting the Effects of Land Use on Groundwater Quality in Municipal Wellhead Protection Areas, by M.H. Frimpter, J.J. Donohue IV, and M.V. Rapacz, 1990, 36 p.
- OF-90-374** A Plan for the Study of the Hydrology of Bedrock of New England, by Wayne W. Lapham, 1990, 16 p.
- OF-93-38** Estimation of Low-Flow Duration Discharges in Massachusetts, by Kernell G. Ries III, 1993, 59 p.
- OF-94-380** Map Showing Stream Gage Locations and Major Drainage Basins in Massachusetts, by John Rader, 1994, 1 sheet
- OF-03-277** The U.S. Geological Survey Streamflow and Observation-Well Network in Massachusetts and Rhode Island, by Phillip J. Zarriello and Roy S. Socolow,

2003, 114 p.

- P-1366** The Bedrock Geology of Massachusetts, edited by Norman Hatch, (two volumes: A-D, 1988, E-J, 1991).
- SIR-2004-5012** Estimation of Total Nitrogen and Phosphorous in New England Streams Using Spatially Referenced Regression Models, by Richard B. Moore, Craig M. Johnston, Keith W. Robinson, and Jeffrey R. Deacon, 2004, 42 p.
- SIR-2006-5031** A Revised Logistic Regression Equation and an Automated Procedure for Mapping the Probability of a Stream Flowing Perennially in Massachusetts, by Gardner C. Bent and Peter A. Steeves, 2006, 107 p.
- SIR-2006-5044** Factors Affecting Firm Yield and the Estimation of Firm Yield for a Selected Streamflow-Dominated Drinking-Water –Supply Reservoirs in Massachusetts, by Marcus C. Waldron and Stacey A. Archfield, 2006, 39 p.
- SIR-2007-5022** Assessment of Data for Use in the Development of Nutrient Criteria for Massachusetts Rivers and Streams, by Marc J. Zimmerman and Kimberly W. Campo, 2007, 44 p.
- SIR-2009-5227** The Massachusetts Sustainable-Yield Estimator: A decision-support tool to assess water availability at ungaged stream locations in Massachusetts, by Stacey A. Archfield, Richard M. Vogel, Peter A. Steeves, Sara L. Brandt, Peter K. Weiskel, and Stephen P. Garabedian, 2010, 41p, 1CD.
- SIR-2009-5272** Indicators of Streamflow Alteration, Habitat Fragmentation, Impervious Cover, and Water Quality for Massachusetts Stream Basins, by Peter K. Weiskel, Sara L. Brandt, Leslie A. Desimone, Lance J. Ostiguy, and Stacey A. Archfield, 2010, 70 p., 1CD.
- SIR-2011-5125** Refinement and Evaluation of the Massachusetts Firm-Yield Estimator Model Version 2.0, by Sara B. Levin, Stacey A. Archfield, and Andrew J. Massey, 2011, 41 p, 1CD.
- SIR-2011-5193** Factors Influencing Riverine Fish Assemblages in Massachusetts, by David S. Armstrong, Todd A. Richards, and Sara B. Levin, 2011, 59 p.
- WRI-86-4111** A Procedure for Estimating Reaeration Coefficients for Massachusetts Streams, by Gene W. Parker and Frederick B. Gay, 1997, 34 p.
- WRI-91-4129** Quality of Water From Public-Water Supply Wells in Massachusetts, 1975-86, by Thomas J. Trombley, 1992, 63 p.
- WRI-91-4188** Estimating Reaeration Coefficients for Low Slope Streams in Massachusetts and New York, 1985-88, by Gene W. Parker and Leslie DeSimone, 1992, 34 p.
- WRI-93-4115** Yields of Bedrock Wells in Massachusetts, by Bruce P. Hansen and Alison C. Simcox, 1994, 43 p.
- WRI-94-4100** Estimating the Magnitude and Frequency of Low Flows of Streams in Massachusetts, by John C. Risley, 1994, 29 p.
- WRI-94-4224** Relation of Precipitation Quality to Storm Type, and Deposition of Dissolved Chemical Constituents from Precipitation in Massachusetts, 1983-1985, by Frederick Gay and Charles S. Melching, 1995, 82 p.

- WRI-95-4144** Wastewater Collection and Return Flow in New England, 1990, by Laura Medalie, 1996, 79 p.
- WRI-97-4190** August Median Streamflows in Massachusetts, by Kernell G. Ries III, 1997, 27 p.
- WRI-98-4094** Relations Between Discharge and Wetted Perimeter and Other Hydraulic-Geometry Characteristics at Selected Streamflow-Gaging Stations in Massachusetts, by Philip C. Mackey, Paul Barlow and Kernell Ries, III, 1998, 44p.
- WRI-99-4006** Streamflow Measurements, Basin Characteristics, and Streamflow Statistics for Low-Flow Partial-Record Stations Operated in Massachusetts from 1989 Through 1996, by Kernell G. Ries III, 1999, 162 p.
- WRI-00-4135** Methods for Estimating Low-Flow Statistics for Massachusetts Streams, by Kernell G. Ries, III and Paul J. Friesz, 2000, 81 p.
- WRI-01-4081** Statewide Water-Quality Network for Massachusetts, by Leslie A. DeSimone, Peter A. Steeves, and Marc Zimmerman, 2001, 76 p.
- WRI-02-4043** A Logistic Regression Equation for Estimating the Probability of a Stream Flowing Perennially in Massachusetts, by Gardner C. Bent and Stacey A. Archfield, 2002, 45 p.
- WRI-03-4266** Characteristics and Areas Contributing Recharge to Public-Supply Springs in Massachusetts, by Bruce P. Hansen and Kirk P. Smith, 2004, 70p.
- WRI-03-4332** Evaluation of Streamflow Requirements for Habitat Protection by Comparison to Streamflow Characteristics at Index Streamflow-Gaging Stations in Southern New England, by David S. Armstrong, Gene W. Parker, and Todd Richards, 2004, 101 p.
- WSP-2214** Estimating Peak Discharges of Small, Rural Streams in Massachusetts, by S. William Wandle, Jr., 1983, 26 p.
- WSP-2418** Estimation of Low-Flow Duration Discharges in Massachusetts, by Kernell G. Ries III, 1994, 50 p.
- WSP-2445** Effect on Seasonal and Long-Term Changes on Stress on Sources of Water to Wells, by Thomas E. Reilly and David W. Pollock, 1995, 25 p.



## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Ashburnham	GP-729 HA-293 OF-81-593 WRI-99-4000 WRI-99-4162 SIR-2011-5013		HA-276, 293 OF-82-924 OF-96-397 OF-98-562 WRI-84-4282 WRI-84-4284	HD-11 HD-27	HA-249, 276 WRI-88-4147 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-98-4249 WRI-99-4162 SIR-2011-5013 OF-96-358 OF-96-397 MP-1
Ashby	GP-730 MF-959 OF-81-593 WRI-99-4162 SIR-2011-5013	OF-81-651	HA-276 OF-82-924 OF-98-562 WRI-84-4284	HD-11 HD-27	HA-276 WRI-88-4147 WRI-98-4249 WRI-99-4162 SIR-2011-5013
Ashfield	GP-429 GP-626 MF-855 WRI-99-4000	I-1074-B,C HA-716 WRI-84-4106	HA-506 I-1074-F,G, H OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-96-4115	HD-6 HD-13	HA-349, 506 HA-716 I-1074-1 WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1 MP-5
Ashley Falls	GP-526 HA-281 I-628 OF-66-93 OF-75-148 WRI-99-4000	GQ-936 HA-281 MF-1016 OF-64-79 OF-66-93	HA-281 OF-82-634 OF-96-397 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 WRI-03-4266 MP-1 MP-3
Assawampsett Pond	GP-794 GQ-265 I-742 OF-77-816 WRI-99-4162	GQ-265 HA-560 I-742 OF-75-651 WRI-86-4053	HA-460, 560 OF-75-651 OF-98-562 WRI-84-4283 WRI-84-4288 WRI-95-4234	HD-7 HD-12 HD-20	HA-460, 560 OF-75-651 WSP-2062 WRI-86-4053A WRI-86-4053 WRI-98-4249 WRI-99-4162

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Assonet	GP-793 I-742 OF-77-816 OF-78-484 WRI-99-4162	HA-275 OF-78-484 I-742 WRI-86-4053	HA-275, 460 OF-98-562 WRI-84-4283 WRI-86-4053	HD-7 HD-12 HD-25	HA-25, 460 WSP-2062 WRI-86-4053A WRI-86-4053 WRI-98-4249 WRI-99-4162
Athol	GP-736 HA-293 OF-54-76 OF-54-318 OF-54-319 OF-54-320 OF-68-185 OF-77-788 WRI-94-4003 WRI-99-4000	B-1163-C I-1074-B, C OF-54-76 OF-54-318 OF-54-319 OF-4-320	HA-273 I-1074-F, G, H OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-94-4003	HD-6 HD-11	HA-249, 293 HA-693 I-1074-I WRI-94-4003 WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-90-0182 OF-96-358 OF-96-397 MP-1
Attleboro	GP-781 I-742 OF-77-816 WRI-99-4162	HA-275 I-742	HA-275, 300 HA-460 OF-98-562 WRI-84-4283 WRI-84-4286 WRI-86-4053 SIR 2007-5291	HD-7 HD-10 HD-12 HD-25	HA-275, 300 HA-460 WSP-2062 WRI-86-4033 WRI-86-4053 WRI-98-4249 WRI-99-4162
Ayer	GP-741 MF-957 OF-81-593 SIR-2011-5013 SIR-2012-5155	GQ-21 OF-81-651	HA-276, 662 OF-82-924 OF-93-482 WRI-84-4284 WRI-95-4157	HD-27	HA-276, 662 OF-93-482 WRI-88-4147 WRI-94-4256 WRI-95-4157 SIR-2011-5013 SIR-2012-5155
Barre	GP-700 WRI-99-4000 SIR-2011-5013	HA-693 MP-4	WRI-91-4144 WRI-95-4157 OF-93-482 OF-96-397 OF-98-562		HA-249, 693 WRI-91-4144 WRI-95-4157 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 OF-93-482 OF-96-358 OF-96-397 MP-1 MP-4

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Babish Falls	GP-527 GQ-507 HA-281 I-628 OF-66-93 WRI-99-4000	GQ-507 HA-281 OF-64-73 OF-66-93	WRI-98-4232 OF-96-397	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 MP-1 MP-3
Becket	B-159 GP-448, 625 OF-74-92 WRI-99-4000	B-159 OF-67-116 OF-74-92 HA-716	OF-96-397 SIR 2007-5291	HD-6	HA-249, 716 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-03-4266 OF-96-358 OF-96-397 MP-1 MP-5
Belchertown	GP-663 WSP-110A WRI-99-4000	I-1074-B, C OF-77-633 WSP-996 HA-693 WRI-84-4106	OF-96-397 OF-98-562	HD-6	HA-249, 563 HA-693 I-1074-1 OF-76-93 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Berlin	GP-449 WRI-99-4000	OF-65-73	HA-481 OF-81-1199 OF-96-397 WRI-83-4250	HD-6 HD-15	HA-481 WSP-110c OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Bernardston	GP-430 GQ-90 WSP-110a WRI-99-4000	I-1074-B, C WSP-996 WRI-84-4106	HA-506, 562 HA-563 I-1074-F, G, H OF-76-93 OF-76-101 OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-96-4115	HD-6 HD-13	HA-249, 506 HA-563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 MP-1
Billerica	GP-743 OF-53-171 OF-53-172 OF-53-173 OF-53-174 OF-53-175 OF-53-176 OF-53-177 OF-54-189 OF-65-125 OF-75-387 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	OF-53-171 OF-53-172 OF-53-173 OF-53-174 OF-53-175 OF-53-176 OF-53-177 OF-54-189 OF-55-62 OF-65-125	HA-312, 371 HA-614, 616 HA-662 OF-82-924 OF-93-482 WRI-84-4284 WRI-95-4157	HD-3 HD-8 HD-22 HD-24	HA-312, 614 HA-616, 662 OF-65-125 OF-93-482 WSP-1669-Y WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4162 SIR-2011-5013 SIR-2012-5155
Blackstone	GP-770 WRI-94-4121 WRI-94-4185 WRI-99-4162	WRI-93-4167 HA-682	HA-682 WRI-84-4281 WRI-84-4286 WRI-03-4190 SIR-2006-5213 SIR-2007-5183	HD-19	HA-554, 682 WRI-88-4173 WRI-94-4121 WRI-94-4185 WRI-98-4249 WRI-99-4162 WRI-93-4167 WRI-03-4190 MP-7
Blandford	B-1324-B GP-528, 625 GQ-1312 OF-78-271 WRI-99-4000	I-1074-B, C OF-68-130 OF-78-271 HA-716	I-1074-F,G, H OF-82-635 OF-96-397 WRI-84-4282 SIR 2007-5291	HD-6	HA-249, 716 I-1074-I WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-96-397 OF-96-358 MP-1 MP-5
Blue Hills	B-1 GP-764 GQ-796 I-742 OF-54-194 OF-54-195 WRI-99-4162	B-1 GQ-463 OF-54-194 OF-54-195 MP-2 I-742 WRI-86-4053	HA-460, 484 HA-500 WRI-84-4281 WRI-84-4283	HD-12 HD-14	HA-460, 484 WRI-86-4053A WRI-93-4142 WRI-98-4249 WRI-99-4162 MP-2

### KEY

B – Bulletin  
 GP– Geophysical Investigations Map  
 GQ– Geologic Quadrangle Map  
 HA– Hydrologic Investigations Atlas  
 C- Circular  
 HD– Hydrologic Data Report  
 I– Miscellaneous Geologic Investigations Map

MF– Miscellaneous Field Studies Map  
 MP- Miscellaneous Publications  
 OF– Open File Report  
 SIR-Scientific Investigations Report  
 SIM-Scientific Investigations Map  
 WRI- Water Resource Investigation Report  
 WSP-Water Supply/Professional Paper

## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Boston North	B-704, 839 B-1061-F GP-708 MF-1241 OF-53-33 OF-70-178 OF-76-697 WRI-99-4162 SIR-2011-5013 MP-6	B-839 B-1061-F OF-53-53 OF-78-111 MP-6	HA-554, 589 WRI-84-481 WRI-87-4100 WRI-03-4210 SIR-2005-5191	HD-19 HD-21	HA-554, 589 WRI-86-4053 WRI-87-4100 WRI-88-4173 WRI-98-4249 WRI-99-4162 SIR-2011-5013 MP-7
Boston South	B-8 B-839 B-1061-F GP-677 MF-1241 OF-54-195 OF-70-178 WRI-99-4162 MP-6	B-8 B-839 B-1061-F OF-54-195 OF-75-57 OF-78-111 MP-6	HA-484, 500 HA-513, 554 HA-589 WRI-84-4281 WRI-98-4027	HD-14 HD-19 HD-21	HA-484, 513 HA-554, 589 WRI-88-4173 WRI-93-4142 WRI-98-4249 WRI-99-4162 WRI-00-4180 MP-7
Bridgewater	GP-784 GQ-127 I-742 OF-55-60 OF-77-816 WRI-99-4162	GQ-127 OF-55-60 MP-2 I-742 WRI-86-4053	HA-460 OF-98-562 WRI-84-4283 SIR 2007-5291	HD-7 HD-12	HA-460 WSP-2062 WRI-86-4053A WRI-98-4249 WRI-99-4162 MP-2
Brockton	GP-774 GQ-5 I-742 OF-53-108 OF-54-119 OF-54-198 OF-54-199 OF-77-816 WRI-99-4162	GQ-6 OF-53-108 OF-54-119 OF-54-198 OF-54-199 MP-2 I-742 WRI-86-4053	HA-300, 460 HA-484 OF-93-482 OF-98-562 WRI-84-4281 WRI-84-4283 WRI-95-4157 SIR 2007-5291	HD-5 HD-7 HD-10 HD-12 HD-14	HA-300, 460 HA-484 WSP-2062 OF-93-482 WRI-86-4053A WRI-86-4053 WRI-93-4142 WRI-95-4157 WRI-98-4249 WRI-99-4162 MP-2
Canann	GP-450 HA-281, 980 OF-66-93	HA-281 OF-65-72 OF-66-93	HA-281 OF-81-1199 OF-82-634 WRI-83-4250 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 WSP-2266 WRI-98-4247 WRI-98-4232

### KEY

<p>B – Bulletin          GP– Geophysical Investigations Map          GQ– Geologic Quadrangle Map          HA– Hydrologic Investigations Atlas          C- Circular          HD– Hydrologic Data Report          I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map          MP- Miscellaneous Publications          OF– Open File Report          SIR-Scientific Investigations Report          SIM-Scientific Investigations Map          WRI- Water Resource Investigation Report          WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Chatham	GP-808 OF-67-171 OF-76-765 WRI-99-4162	HA-692 B-1260-D B-285-L GQ-911 I-1763 OF-67-171 OF-76-765 OF-93-618 OF-93-159 WRI-90-4086 WSP-2447 SIR-2004-5181 SIR-2007-5259	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4086 WRI-90-4140 WRI-94-4156 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 OF-88-330 OF-93-0159 OF-94-0316 SIR-2004-5181 SIR-2007-5259 C-1338
Cheshire	B-159 GP-451 GQ-108 HA-281 OF-66-93 WRI-99-4000 I-2369	B-159 HA-28 OF-66-93 OF-68-131	HA-281, 481 OF-81-1199 OF-96-397 WRI-83-4250 WRI-84-4285 WRI-98-4232	HD-6 HD-9 HD-15	HA-281, 481 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-110c WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 WRI-03-4266 MP-1 MP-3
Chester	GP-625 GQ-858 WRI-99-4000	GQ-858 I-1074-B, C MF-667-A OF-67-117 HA-716	I-1074-F,G, H OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249, 716 I-1074-I WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1 MP-5

### KEY

<p>B – Bulletin  GP– Geophysical Investigations Map  GQ– Geologic Quadrangle Map  HA– Hydrologic Investigations Atlas  C- Circular  HD– Hydrologic Data Report  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map  MP- Miscellaneous Publications  OF– Open File Report  SIR-Scientific Investigations Report  SIM-Scientific Investigations Map  WRI- Water Resource Investigation Report  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Clinton	GP-703 OF-65-125 OF-75-658 OF-81-593 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	GQ-567 OF-65-125 OF-81-651 SIR-2004-5119	HA-276, 312 HA-662 OF-82-924 WRI-84-4284 SIR-2004-5119 SIR-2005-5131 MP-9	HD-8 HD-27	HA-276, 312 HA-662 OF-65-125 WRI-88-4147 WRI-94-4256 WRI-98-4249 WRI-99-4162 SIR-2004-5119 SIR-2011-5013 SIR-2012-5155
Cohasset	GP-766 WRI-99-4162	MP-2 WRI-91-4112	HA-504 WRI-84-4281 WRI-84-4288	HD-7 HD-16	HA-504 WRI-91-4112 WRI-98-4249 WRI-99-4162 WRI-03-4266
Colrain	GP-431 GQ-86 WSP-110a WRI-99-4000	I-1074-B, C WRI-84-4106	HA-506, 562 HA-563 I-1074-F,G, H OF-76-93 OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-96-4115 SIR 2007-5291	HD-6 HD-13	HA-249, 506 HA-563 I-1074-I OF-76-93 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 MP-1
Concord	GP-706 OF-65-125 OF-76-697 WRI-99-4162 SIR-2011-5013 C-1280	GQ-331 OF-65-125 C-1280	HA-371, 554 HA-614, 662 OF-93-482 WRI-84-4281 WRI-84-4284 WRI-95-4157 WRI-00-4262 WRI-01-4137 WRI-01-4153	HD-8 HD-19 HD-22	HA-312, 554 HA-614, 662 OF-65-125 OF-93-482 WRI-88-4173 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-00-4262 WRI-01-4137 WRI-01-4153 SIR-2011-5013

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<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Cotuit	GP-814 GQ-1213 OF-76-765 WRI-99-4162	HA-692 B-285-L GQ-1213 OF-76-765 OF-93-159 OF-93-618 OF-96-214 OF-96-465 I-1763 WSP-2447 WSP-2482 SIR-2004-5181 SIR-2007-5259	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4140 WRI-93-4064 WRI-94-4156 WRI-98-4112 WRI-98-4237 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 WSP-2482 OF-93-159 OF-94-316 OF-94-462 OF-96-214 SIR-2004-5181 SIR-2004-5299 SIR-2006-5054 SIR-2007-5259 C-1338
Cuttyhunk	MF-1186 WRI-99-4162	MF-889 MF-1186 I-1763		HD-7	WRI-98-4249 WRI-99-4162

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Dennis	GP-806 GQ-1114 OF-62-96 OF-76-765 WRI-99-4162	HA-692 GQ-1114 OF-62-96 OF-76-765 OF-93-159 OF-93-618 I-1763 WRI-90-4086 WSP-2447 SIR-2004-5181 SIR-2007-5259	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 OF-88-330 OF-93-159 OF-94-316 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4086 WRI-94-4156 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 SIR-2004-5181 SIR-2007-5259 C-1338
Duxbury	GP-777 GQ-466 OF-81-358 WRI-90-4204 WRI-99-4162	GQ-466	HA-504 WRI-84-4288	HD-7 HD-16	HA-504 WRI-91-4112 WRI-90-4204 WRI-98-4249 WRI-99-4162 SIR 2009-5063 C-1338
East Brookfield	GP-621 OF-75-530 WRI-99-4000 SIR-2011-5013	OF-75-531 OF-76-203 HA-693, 700	OF-82-631 OF-93-482 OF-96-397 WRI-84-4282 WRI-84-4287 WRI-95-4157		HA-249, 693 HA-700 OF-96-358 OF-93-482 OF-96-397 WRI-95-4157 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 MP-1
Easthampton	GP-661 WSP-110a WRI-99-4000	I-1074-B, C WSP-996 WRI-84-4106	HA-562, 563 I-1074-F, G, H OF-76-93 OF-82-633 OF-96-397 WRI-84-4282 SIR 2007-5291	HD-6	HA-249, 563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1

### KEY

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| <p>B – Bulletin<br/>                 GP– Geophysical Investigations Map<br/>                 GQ– Geologic Quadrangle Map<br/>                 HA– Hydrologic Investigations Atlas<br/>                 C- Circular<br/>                 HD– Hydrologic Data Report<br/>                 I– Miscellaneous Geologic Investigations Map</p> | <p>MF– Miscellaneous Field Studies Map<br/>                 MP- Miscellaneous Publications<br/>                 OF– Open File Report<br/>                 SIR-Scientific Investigations Report<br/>                 SIM-Scientific Investigations Map<br/>                 WRI- Water Resource Investigation Report<br/>                 WSP-Water Supply/Professional Paper</p> |
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
East Lee	B-159 GP-452 GQ-1573 HA-281 OF-53-180 OF-53-187 OF-54-196 OF-66-93 WRI-99-4000	B-159 HA-281, 716 OF-53-180 OF-53-187 OF-54-196 OF-66-93 OF-67-118	HA-281 OF-82-634 OF-96-397 WRI-84-4282 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-249, 281 HA-716 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 WRI-03-4266 MP-1 MP-3
East Providence	GP-791 OF-77-816 WRI-99-4162	GQ-70 HA-275	HA-275 OF-98-562 WRI-84-4283	HD-7 HD-25	HA-275 WSP-2062 WRI-98-4249 WRI-99-4162
Edgartown	B-1488 WRI-99-4162	B-1488 I-1763 WSP-2447 MF-534	HA-618	HD-7	HA-618 OF-75-189 OF-94-316 WRI-98-4249 WRI-99-4162 WSP-2447
Egremont	GP-529 HA-281 I-628 OF-66-93 WRI-99-4000	HA-281 OF-64-80 OF-66-93	HA-281 OF-81-1199 OF-82-634 OF-96-397 WRI-83-4250 WRI-84-4285 WRI-98-4232 SIR 2007-5291	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 WRI-03-4266 MP-1 MP-3
Exeter	B-704 WRI-99-4162		HA-616 OF-83-209	HD-24	HA-616 WRI-98-4249 WRI-99-4162
Fall River	GP-798 I-742 OF-77-816 OF-78-484 WRI-99-4162	GQ-70 HA-275 OF-78-484 I-742 WRI-86-4053	HA-275, 460 OF-98-562 WRI-84-4283	HD-7 HD-12 HD-25	HA-275, 460 WSP-2062 WRI-86-4053 WRI-88-4053A WRI-98-4249 WRI-99-4162

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<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Fall River East	GP-799 I-742 OF-78-484 WRI-99-4162	HA-275, 560 OF-75-651 OF-78-484 I-742 WRI-86-4053	HA-275, 460 HA-560 OF-75-651 OF-98-562 WRI-84-4283 WRI-95-4234	HD-7 HD-12 HD-20 HD-25	HA-275, 460 HA-560 OF-75-651 WRI-86-4053 WRI-88-4053A WRI-98-4249 WRI-99-4162
Falmouth	GP-813 OF-76-765 WRI-99-4162	B-2 HA-692 OF-76-765 OF-93-618 OF-96-465 I-1763 WSP-2447 WSP-2482 B-285-L SIR-2004-5181 SIR-2007-5259	OF-77-419 OF-93-159 OF-96-214 WRI-80-1008	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 OF-84-475 OF-93-158 OF-94-316 OF-94-384 OF-94-462 OF-95-734 OF-96-214 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-85-4188 WRI-86-4093 WRI-90-4140 WRI-93-4064 WRI-94-4156 WRI-97-4269 WRI-98-4112 WRI-98-4237 WRI-98-4249 WRI-99-4162 WRI-00-4017 WSP-2209 WSP-2218 WSP-2434 WSP-2447 WSP-2482 WSP-1629 SIR-2004-5181 SIR-2004-5299 SIR-2007-5259 C-1338 MP-10 MP-11
Fitchburg	GP-739 MF-959 OF-81-593 WRI-99-4162 SIR-2011-5013		HA-276 OF-82-924 OF-98-562 WRI-84-4284	HD-27	HA-276 WRI-88-4147 SIR-2011-5013

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Framingham	GP-674 GQ-1274 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	GQ-1176	HA-554, 662 OF-82-924 OF-93-482 WRI-84-4284 WRI-84-4315 WRI-95-4157	HD-19 HD-23	HA-554, 662 OF-93-482 WRI-84-4315 WRI-88-4173 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4060 WRI-99-4162 SIR-2011-5013 SIR-2012-5155 MP-7
Franklin	GP-771 OF-77-816 WRI-99-4162 WRI-02-4234	WRI-93-4167 HA-682	HA-554,682 OF-93-482 WRI-84-4281 WRI-84-4286 WRI-95-4157 WRI-02-4234 WRI-03-4190 WRI-03-4330 SIR 2004-5092 SIR-2007-5183	HD-19	HA-554, 682 OF-67-278 OF-93-482 WSP-2062 WRI-88-4173 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-93-4167 WRI-02-4234 WRI-03-4190 WRI-03-4330 MP-7
Gardner	GP-738 HA-293 OF-81-593 WRI-99-4000 SIR-2011-5013	OF-78-379 HA-693 MP-4	HA-276, 293 OF-82-924 OF-96-397 OF-98-562 WRI-84-4282 WRI-84-4284	HD-11 HD-27	HA-249, 276 HA-293, 673 OF-96-358 OF-96-397 WRI-88-4147 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 MP-1 MP-4
Georgetown	B-704 GP-718 OF-61-131 OF-77-179 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	GQ-850 HA-247 OF-61-131	HA-196, 247 HA-482, 616 OF-83-209 OF-93-482 OF-01-483 WRI-84-4281 WRI-95-4157 SIR-2004-5122	HD-2 HD-4 HD-24 WRI-02-4278	HA-196, 247 HA-616 OF-61-131 OF-93-482 WSP-1826 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-00-4029 SIR-2010-5007 SIR-2011-5013 SIR-2012-5155

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Gloucester	B-704 GP-724 OF-75-546 I-2285 WRI-99-4162		HA-589 WRI-84-4281	HD-21	HA-589 WRI-98-4249 WRI-99-4162
Goshen	GP-626 GQ-1561 WRI-99-4000	GQ-1561 I-1074-B, C MF-1292 OF-68-132 HA-716 WRI-84-4106	HA-506, 562 HA-563 I-1074-F,G, H OF-76-93 OF-82-635 OF-96-397 WRI-82-4282 WRI-96-4115	HD-6 HD-13	HA-249, 506 HA-563,716 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 MP-1 MP-5
Grafton	GP-759 OF-65-125 OF-77-131 WRI-99-4162 SIR-2011-5013 SIR-2012-5155 SIM-3171	OF-65-125 WRI-93-4167 HA-682	HA-312, 662 HA-682 WRI-84-4284 WRI-84-4286 SIR-2006-5213 SIR-2007-5183	HD-8	HA-312, 662 HA-682 OF-65-125 OF-95-425 WRI-94-4256 WRI-98-4249 WRI-99-4060 WRI-99-4162 WRI-93-4167 SIR-2011-5013 SIR-2012-5155
Great Barrington	GP-530 GQ-1141 HA-281 I-628 OF-53-178 OF-66-93 WRI-99-4000	HA-281 OF-53-178 OF-64-81 OF-66-93	HA-281 OF-82-634 OF-96-397 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 WRI-03-4266 MP-1 MP-3
Great Point	I-1580 WRI-99-4162	B-53 I-1763 I-1580 WSP-2297 WSP-2447	HA-615	HD-7	HA-615 OF-94-316 WRI-98-4249 WRI-99-4162 WSP-2297 WSP-2447

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Greenfield	GP-432, 660 HA-293 GQ-20 MF-629-A WSP-110a WRI-99-4000	GQ-474 I-1074-B, C MF-629-B WSP-996 WRI-84-4106	HA-293, 506 HA-562, 563 I-1074-F, G, H OF-76-93 OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-96-4115	HD-6 HD-11 HD-13	HA-249, 293 HA-506, 563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 WRI-03-4266 MP-1
Hampden	GP-629 GQ-1368 MF-468-A WSP-110a WRI-99-4000	GQ-1544 I-1074-B, C MF-486-B WSP-996 OF-69-57	HA-562, 563 I-1074-F, G, H MF-486-C OF-76-93 OF-82-633 OF-96-397 WRI-84-4282	HD-6	HA-249, 563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-79-72 WSP-110b WSP-1670 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Hancock	GP-453 HA-281 OF-66-93 WRI-99-4000	HA-281 OF-66-93 OF-67-119	HA-281, 481 OF-81-1199 OF-96-397 WRI-83-4250 WRI-84-4285 WRI-98-4232	HD-6 HD-9 HD-15	HA-281, 481 OF-66-93 OF-88-588 OF-96-358 OF-96-397 WSP-110c WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 MP-1 MP-3
Hanover	GP-776 I-742 OF-77-816 OF-81-358 WRI-90-4204 WRI-99-4162	GQ-633 MP-2 I-742 WRI-91-4112 WRI-86-4053	HA-460, 504 WRI-84-4283 WRI-84-4288 OF-98-562 SIR-2004-5269 SIR 2007-5291	HD-5 HD-7 HD-12 HD-16	HA-460, 504 WSP-2062 WRI-86-4053 WRI-86-4053A WRI-91-4112 WRI-90-4204 WRI-98-4249 WRI-99-4162 MP-2 SIR-2004-5269 SIR 2009-5063 C-1338

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Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Harwich	GP-807 GQ-786 OF-62-96 OF-76-765 WRI-99-4162	HA-692 GQ-786 OF-62-96 OF-76-765 OF-93-618 I-1763 WSP-2447 B-285-L SIR-2004-5181 SIR-2007-5259	OF-77-419 WRI-80-1008 SIR 2007-5291	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4140 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2447 OF-88-330 SIR-2004-5181 SIR-2007-5259 C-1338
Haverhill	B-704 GP-713 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	HA-247	HA-247, 616 OF-83-209 WRI-84-4281 WRI-84-4284 SIR-2006-5103 SIR 2007-5291	HD-4 HD-24	HA-247, 616 WRI-98-4249 WRI-99-4162 SIR-2011-5013 SIR-2012-5155
Heath	GP-443 GQ-735 WRI-99-4000	GQ735 I-1074-B, C MF-663-A WRI-84-4106	HA-504 I-1074-F,G, H OF-82-632 OF-96-397 WRI-84-4282 WRI-96-4115	HD-6 HD-13	HA-249, 506 I-1074-I WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1
Holliston	GP-761 I-1053 WRI-99-4162 WRI-02-4234	GQ-1217	HA-419, 554 HA-662 OF-93-482 WRI-84-4281 WRI-84-4284 WRI-84-4315 WRI-95-4157 WRI-02-4234 WRI-03-4330 SIR 2004-5092	HD-19	HA-554, 662 OF-93-482 WRI-84-4315 WRI-88-4173 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4060 WRI-99-4162 WRI-02-4234 WRI-03-4330 MP-7

### KEY

B – Bulletin  
 GP– Geophysical Investigations Map  
 GQ– Geologic Quadrangle Map  
 HA– Hydrologic Investigations Atlas  
 C- Circular  
 HD– Hydrologic Data Report  
 I- Miscellaneous Geologic Investigations Map

MF– Miscellaneous Field Studies Map  
 MP- Miscellaneous Publications  
 OF– Open File Report  
 SIR-Scientific Investigations Report  
 SIM-Scientific Investigations Map  
 WRI- Water Resource Investigation Report  
 WSP-Water Supply/Professional Paper

## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Hudson	B-1038 GP-704 OF-65-125 OF-81-593 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	B-1038 OF-65-125 SIR-2004-5119	HA-276, 312 HA-662 OF-82-924 OF-93-482 WRI-84-4284 WRI-95-4157 SIR-2004-5092 SIR 2004-5119 SIR-2005-5131 SIR 2007-5291 MP-9	HD-8 HD-27	HA-276, 312 HA-662 OF-65-125 OF-93-482 WSP-1539-E WRI-88-4141 WRI-88-4147 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4162 SIR-2004-5119 SIR-2011-5013 SIR-2012-5155
Hull	GP-678 WRI-99-4162 OF-96-117		HA-484, 589 WRI-84-4281	HD-7 HD-14 HD-21	HA-484, 589 OF-96-117 WRI-98-4249 WRI-99-4162
Hyannis	GP-805 GQ-1158 OF-76-765 WRI-99-4162	HA-692 GQ-1158 I-1763 OF-76-765 OF-93-158 OF-93-618 WSP-2447 B-285-L SIR-2004-5181 SIR-2007-5259	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 OF-93-159 OF-94-316 WRI-79-65 WRI-80-67 WRI-83-4112 WRI-86-4093 WRI-90-4140 WRI-94-4156 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 SIR-2004-5181 SIR-2007-5259 C-1338
Ipswich	B-704 GP-719 OF-61-131 OF-75-544 OF-79-435 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	GQ-189 HA-247 OF-61-131	HA-196, 247 HA-482, 589 OF-83-209 OF-01-483 WRI-84-4281 WRI-02-4278 SIR-2004-5122	HD-2 HD-4 HD-21	HA-196, 247 HA-589 OF-61-131 WSP-1826 WRI-98-4249 WRI-99-4162 WRI-00-4029 SIR-2010-5007 SIR-2011-5013 SIR-2012-5155

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Lawrence	B-704 GP-716 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	GQ-107	HA-196, 614 HA-616 WRI-84-4284 SIR-2006-5103	HD-22 HD-24	HA-196, 614 HA-616 WSP-1826 WRI-98-4249 WRI-99-4162 SIR-2011-5013 SIR-2012-5155
Leicester	GP-624 OF-76-814 WRI-99-4000 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	HA-673, 682 HA-700 MP-4 WRI-93-4167	HA-682 OF-82-631 OF-93-482 OF-96-397 WRI-84-4282 WRI-84-4286 WRI-84-4287 WRI-95-4157		HA-249, 693 HA-682,700 OF-93-482 OF-96-358 OF-96-397 WRI-95-4157 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-98-4249 WRI-99-4162 WRI-93-4167 SIR-2011-5013 SIR-2012-5155 MP-1 MP-4
Lexington	B-1061-F GP-707 OF-70-178 OF-76-697 WRI-99-4162 SIR-2011-5013	B-1061-F	HA-554, 589 HA-614 OF-93-482 WRI-84-4281 WRI-84-4284 WRI-87-4100 WRI-95-4157 WRI-00-4262 WRI-03-4210	HD-19 HD-21 HD-22	HA-554, 589 HA-614 OF-93-482 WRI-87-4100 WRI-88-4173 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-00-4262 SIR-2011-5013 MP-7
Lowell	B-704 GP-734 WRI-99-4162 SIR-2011-5013 SIR-2012-5155		HA-614, 616 HA-662 OF-82-924 WRI-84-4284 WRI-94-4256 WRI-03-4210 SIR-2006-5103	HD-3 HD-22 HD-24	HA-614, 616 HA-662 WS-1669-Y WRI-94-4256 WRI-98-4249 WRI-99-4162 SIR-2011-5013 SIR-2012-5155

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<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Ludlow	GP-619 GQ-1353 MF-503-A OF-54-197 OF-74-102 WRI-99-4000	I-1074-B, C MF-503-B, C OF-54-197 WSP-996 HA-693 WRI-84-4106	HA-562, 563 I-1074-F,G, H MF-503-D OF-76-93 OF-82-633 OF-96-397 WRI-84-4282	HD-6	HA-249, 563 HA-693 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-79-72 WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 WSP-110b WSP-1670 MP-1
Lynn	B-704 GP-709 OF-77-180 WRI-99-4162		HA-589 WRI-84-4281	HD-21	HA-589 WRI-98-4249 WRI-99-4162
Manomet	GP-787 WRI-90-4204 WRI-99-4162	HA-507	HA-507 WRI-84-4288 WRI-95-4234	HD-7 HD-18	HA-507 WRI-90-4204 WRI-98-4249 WRI-99-4162 SIR 2009-5063 C-1338
Mansfield	GP-773 I-742 OF-77-816 WRI-99-4162	I-742 WRI-86-4053	HA-300, 460 HA484, 500 OF-93-482 OF-98-562 WRI-84-4281 WRI-84-4283 WRI-95-4157	HD-7 HD-10 HD-12 HD-14	HA-300, 460 HA-484 WSP-2062 OF-93-482 WRI-86-4053 WRI-86-4053A WRI-93-4142 WRI-95-4157 WRI-98-4249 WRI-99-4162
Marblehead North	B-704 GQ-1693 GP-723 OF-61-131 OF-75-543 WRI-99-4162 SIR-2011-5013	OF-61-131	HA-196, 589 OF-83-209 OF-01-483 WRI-84-4281 WRI-02-4278 SIR-2004-5122	HD-2 HD-21	HA-196, 589 OF-61-131 WSP-1826 WRI-98-4249 WRI-99-4162 WRI-00-4029 SIR-2010-5007 SIR-2011-5013
Marblehead South	B-704 GP-710 OF-77-180 WRI-99-4162		HA-589 WRI-84-4281	HD-21	HA-589 WRI-98-4249 WRI-99-4162
Marion	GP-801 WRI-99-4162	HA-560 MF-889	HA-560 OF-98-562 WRI-84-4288 WRI-95-4234	HD-7 HD-20	HA-560 WRI-84-4043 WRI-98-4249 WRI-99-4162

### KEY

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Marlborough	GP-673 OF-65-125 OF-78-221 OF-78-222 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	OF-65-125 SIR-2004-5119	HA-312, 662 OF-82-924 WRI-84-4284 SIR 2004-5092 SIR-2004-5119 SIR-2005-5131 MP-9	HD-8	HA-312, 662 OF-65-125 WRI-94-4256 WRI-98-4249 WRI-99-4060 WRI-99-4162 SIR-2004-5119 SIR-2011-5013 SIR-2012-5155
Maynard	B-1038 GP-705 OF-65-125 OF-01-354 WRI-99-4162 WRI-02-4290 SIR-2011-5013 SIR-2012-5155	B-1038 OF-65-125 WRI-02-4290 SIR-2004-5119	HA-312, 371 HA-662 OF-82-924 WRI-84-4284 WRI-02-4290 SIR 2004-5092 SIR-2004-5119 SIR-2005-5131 MP-9	HD-8	HA-312, 662 OF-57-88 OF-65-125 WSP-1539-E WRI-94-4256 WRI-98-4249 WRI-99-4162 WRI-02-4290 SIR-2004-5119 SIR-2011-5013 SIR-2012-5155
Medfield	GP-762 I-1053 WRI-99-4162	GQ-1218 WRI-02-4234	HA-419, 484 HA-500, 554 OF-93-482 WRI-84-4281 WRI-95-4157 WRI-02-4234 WRI-03-4330	HD-14 HD-19	HA-484, 554 OF-67-278 OF-93-482 WRI-88-4173 WRI-93-4142 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-02-4234 WRI-03-4330
Milford	GP-760 WRI-99-4162 SIR-2011-5013	WRI-93-4167 HA-682 WRI-02-4234	HA-554, 662 HA-682 OF-93-482 WRI-84-4281 WRI-84-4284 WRI-84-4286 WRI-95-4157 WRI-02-4234 WRI-03-4330 SIR-2006-5213 SIR-2007-5183	HD-19	HA-554, 662 HA-682 OF-93-482 WRI-88-4173 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4060 WRI-99-4162 WRI-93-4167 WRI-02-4234 WRI-03-4330 SIR-2011-5013 MP-7

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Millers Falls	GP-434, 697 GQ-93 HA-293 WSP-110a WRI-94-4003 WRI-99-4000	I-1074-B, C WSP-996 WRI-84-4106	HA-293, 562 HA-563 I-1074-F,G, H OF-76-93 OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-94-4003	HD-6 HD-11	HA-249, 293 HA-563 I-1074-I OF-76-93 OF-90-182 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-94-4003 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Monomoy Point	GQ-787 OF-67-139 OF-76-765 WRI-99-4162	HA-692 B-285-L B-1260-D GQ-787 I-1763 OF-67-139 OF-76-765 OF-93-159 OF-93-618	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 OF-93-159 OF-94-316 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-94-4156 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434
Monson	B-1389 GP-630 GQ-1374 OF-74-50 OF-74-103 WRI-99-4000	GQ-1429 HA-693, 700 I-1074-B, C MF-734-A OF-75-50 OF-75-374 MP-4	HA-562, 563 I-1074-F,G, H OF-76-93 OF-82-633 OF-96-397 WRI-84-4284 WRI-84-4287	HD-6	HA-249, 563 HA-693, 700 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-79-72 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1 MP-4

### KEY

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Monterey	B-159 GP-531 GQ-1572 HA-281 OF-66-93 OF-75-126 WRI-99-4000	B-159 HA-281, 716 OF-64-82 OF-66-93	HA-281, 716 OF-82-634 OF-96-397 WRI-84-4282 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-249, 281 HA-716 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-98-4232 WRI-98-4249 WRI-99-4162 MP-1 MP-3
Mount Tom	GP-622 MF-504-A WSP-110a WRI-99-4000	I-1074-B, C MF-504-C OF-72-219 WSP-996 HA-716 WRI-84-4106	HA-562, 563 I-1074-F,G, H MF-504-B OF-76-93 OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249, 563 HA-716 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1 MP-5
Mount Grace	GP-726 GQ-3 HA-293 OF-77-788 WRI-99-4000	GQ-4 I-107-B, C	HA-293, 562 HA-563 I-1074-F,G, H OF-76-93 OF-82-632 OF-96-397 OF-98-562 WRI-84-4282	HD-6 HD-11	HA-249, 293 HA-563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Mt. Holyoke	GP-662 MF-640-A WSP-110a WRI-99-4000 WRI-03-4320	I-1074-B, C MF-640-B WSP-996 WRI-84-4106 WRI-03-4320	HA-562, 563 I-1074-F,G, H OF-76-93 OF-82-633 OF-96-397 WRI-84-4282	HD-6	HA-249, 563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-03-4320 MP-1

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Mt. Toby	GP-660 GQ-8 MF-621-A WSP-110a WRI-99-4000	GQ-9 I-1074-B, C WSP-996 WRI-84-4106	HA-562, 563 I-1074-F,G, H OF-76-93 OF-82-633 OF-96-397 OF-98-562 WRI-84-4282	HD-6	HA-249, 563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110b WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Nantasket Beach	GP-679 WRI-99-4162	WRI-91-4112	HA-504 WRI-84-4281 WRI-84-4288	HD-7 HD-16	HA-504 WRI-91-4112 WRI-98-4249 WRI-99-4162
Nantucket	I-1580 WRI-99-4162	B-53 I-1580 I-1763 WSP-2297 WSP-2447	HA-615 OF-79-58	HD-7	HA-615 WRI-98-4249 WRI-99-4162 WSP-2297 WSP-2447
Nashua South	GP-733 OF-2007-1399 WRI-99-4162 SIR-2011-5013	OF-55-62 OF-77-641 OF-2007-1399	HA-662 OF-82-924 OF-83-209 WRI-84-4284 SIR-2006-5103	HD-3	HA-662 WSP-1669-Y WRI-98-4249 WRI-99-4162 SIR-2011-5013
Natick	B-1395-E GP-675 GQ-1208 WRI-99-4162 SIR-2011-5013	GQ-1151	HA-419, 554 HA-662 OF-93-482 WRI-84-4281 WRI-84-4284 WRI-84-4315 WRI-95-4157 WRI-01-4040	HD-19 HD-23	HA-554, 662 OF-93-482 WRI-84-4315 WRI-88-4173 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4060 WRI-99-4162 WRI-01-4040 SIR-2011-5013 MP-7
Naushon Island	MF-1186 WRI-99-4162	MF-534 MF-889 MF-1186 MF-1186 I-1763	HA-618	HD-7	HA-618 OF-75-189 OF-94-316 WRI-98-4249 WRI-99-4162
New Bedford North	GP-800 I-742 OF-78-484 WRI-99-4162	HA-275, 560 OF-78-484 I-742 WRI-86-4053	HA-275, 460 HA-560 OF-98-562 WRI-84-4283 WRI-84-4288 WRI-95-4234 SIR-2005-5184	HD-7 HD-12 HD-20 HD-25	HA-275, 460 HA-560 WRI-86-4053 WRI-86-4053A WRI-98-4249 WRI-99-4162

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
New Bedford South	GP-810 OF-78-484 WRI-99-4162	HA-560 MF-889 OF-78-484	HA-560 OF-98-562 WRI-84-4288 WRI-95-4234	HD-7 HD-20	HA-560 WRI-98-4249 WRI-99-4162
Newburyport East	B-704 GP-715 OF-53-107 OF-76-488 OF-79-435 WRI-99-4162 SIR-2011-5013	HA-247 OF-53-107	HA-247, 616 OF-83-209 WRI-84-4281 WRI-84-4284 SIR-2006-5103	HD-4 HD-24	HA-247, 616 WRI-98-4249 WRI-99-4162 SIR-2011-5013
Newburyport West	B-704 GP-714 OF-53-170 OF-76-488 OF-01-353 WRI-99-4162 WRI-02-4290 SIR-2011-5013 SIR-2012-5155	HA-247 OF-53-170 WRI-02-4290	HA-247, 616 OF-83-209 WRI-84-4281 WRI-84-4284 SIR-2006-5103	HD-4 HD-24	HA-247, 616 WRI-98-4249 WRI-99-4162 WRI-02-4290 SIR-2011-5013 SIR-2012-5155
Newton	B-1061-F GP-676 MF-1241 OF-70-178 WRI-99-4162 MP-6	B-1061-F MP-6	HA-419, 484 HA-554, 589 WRI-84-4281 WRI-03-4210	HD-14 HD-19 HD-21	HA-484, 554 HA-589 WRI-88-4173 WRI-98-4249 WRI-99-4162 WRI-00-4124 WRI-00-4180
North Adams	B-159 GP-454 GQ-139 WRI-99-4000 I-2369	B-159 OF-68-133	HA-481,506 OF-66-131 OF-81-1199 OF-96-397 WRI-83-4250 WRI-84-4282 WRI-96-4115 SIR 2007-5291	HD-6 HD-13 HD-15	HA-249, 481 HA-506 WSP-110 c WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 WRI-03-4266 OF-96-358 OF-96-397 MP-1
North Brookfield	GP-666 WRI-99-4000 SIR-2011-5013	HA-693	OF-82-633 OF-93-482 OF-96-397 WRI-84-4282 WRI-95-4157 SIR 2007-5291		HA-249, 693 OF-93-482 OF-96-358 OF-96-397 WRI-95-4157 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 MP-1

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Northfield	GP-435, 726 GQ-92 HA-293 OF-77-788 WSP-110a WRI-99-4000	GQ-1440 I-1074-B, C MF-605-A OF-74-55 WSP-996 WRI-84-4106	HA-293,562 HA-563 I-1074-F,G, H OF-76-93 OF-82-632 OF-98-562 WRI-84-4282	HD-6 HD-11	HA-249, 293 HA-563 I-1074-I OF-76-93 OF-96-358 WSP-110b WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
North Truro	GQ-599 OF-62-95 OF-76-765 WRI-99-4162	HA-692 GQ-599 OF-62-95 OF-76-765 OF-93-159 OF-93-618 I-1763 WSP-2447 B-285-L SIR-2004-5014	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-72-85 OF-76-614 OF-80-1008 OF-82-274 OF-82-438 OF-93-159 OF-94-316 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4140 WRI-94-4156 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 SIR-2004-5014 MP-8 C-1338
Norton	GP-782 I-742 OF-77-816 WRI-99-4162	HA-275 I-742 WRI-86-4053	HA-275, 300 HA-460 OF-98-562 WRI-84-4283 WRI-03-4210 SIR 2007-5291	HD-7 HD-10 HD-12 HD-25	HA-275, 300 HA-460 WSP-2062 WRI-86-4053 WRI-86-4053A WRI-98-4249 WRI-99-4162
Norwood	B-1163-B GP-763 OF-54-193 WRI-99-4162	B-1163-B OF-54-193	HA-419, 484 HA-500, 554 WRI-84-4281 WRI-03-4210	HD-14 HD-19	HA-484, 554 WRI-88-4173 WRI-93-4142 WRI-98-4249 WRI-99-4162

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Onset	GP-802 OF-76-763 WRI-90-4204 WRI-99-4162	HA-507, 560 HA-692 OF-76-765 OF-93-618 OF-96-214 I-1763 WSP-2447 B-285-L MF-889 SIR-2004-5181	HA-507, 562 OF-77-419 WRI-80-1008 WRI-84-4288 WRI-95-2434	HD-7 HD-18 HD-20 HD-26	HA-507, 560 HA-692 OF-82-274 OF-94-462 OF-96-214 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-84-4043 WRI-84-4166 WRI-85-4188 WRI-90-4204 WRI-98-4237 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2447 SIR-2004-5181
Orange	GP-735 HA-293 OF-54-318 OF-54-319 OF-54-320 OF-77-788 WRI-94-4003 WRI-99-4000	I-1074-B, C OF-54-318 OF-54-319 OF-54-320 HA-693	HA-293 I-1074-F,G,H OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-94-4003 SIR 2007-5291	HD-6 HD-11	HA-249, 293 HA-693 I-1074-I WRI-94-4003 WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-90-182 OF-96-358 OF-96-397 MP-1

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Orleans	GP-807, 808 OF-62-95 OF-68-203 OF-76-765 WRI-99-4162	HA-692 GQ-931 OF-62-95 OF-68-203 OF-76-765 OF-93-159 OF-93-618 OF-95-290 I-1763 WRI-90-4086 WSP-2447 WSP-2456 B-285-L SIR-2004-5014 SIR-2004-5181 SIR-2007-5259	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-80-1008 OF-82-274 OF-88-330 OF-93-159 OF-94-316 OF-95-290 OF-98-184 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4086 WRI-90-4140 WRI-94-4156 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 WSP-2456 SIR-2004-5014 SIR-2004-5181 SIR-2007-5259 MP-8 C-1338
Otis	B-159 GP-532 OF-53-185 OF-54-192 WRI-99-4000	B-159 OF-53-185 OF-54-192 OF-65-74	OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249 WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1 MP-5
Oxford	GP-768 OF-76-622 WRI-99-4000 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	HA-682, 700, HA-716 MP-4 WRI-93-4167	HA-682 OF-82-631 OF-96-397 WRI-84-4286 WRI-84-4287 WRI-03-4190 SIR-2006-5213 SIR-2007-5183		HA-682, 700 HA-716 OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-98-4249 WRI-99-4162 WRI-93-4167 WRI-03-4190 SIR-2011-5013 SIR-2012-5155 MP-1 MP-4

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| <p>B – Bulletin<br/>                 GP– Geophysical Investigations Map<br/>                 GQ– Geologic Quadrangle Map<br/>                 HA– Hydrologic Investigations Atlas<br/>                 C- Circular<br/>                 HD– Hydrologic Data Report<br/>                 I– Miscellaneous Geologic Investigations Map</p> | <p>MF– Miscellaneous Field Studies Map<br/>                 MP- Miscellaneous Publications<br/>                 OF– Open File Report<br/>                 SIR-Scientific Investigations Report<br/>                 SIM-Scientific Investigations Map<br/>                 WRI- Water Resource Investigation Report<br/>                 WSP-Water Supply/Professional Paper</p> |
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Palmer	GP-617 OF-75-50 OF-76-489 OF-76-708 WRI-99-4000	GQ-1465 I-1074-B, C MF-911-A OF-75-50 OF-76-489 HA-693 MP-4	I-1074-F,G,H OF-82-633 OF-96-397 WRI-84-4282 SIR 2007-5291	HD-6	HA-249, 693 I-1074-I WRI-79-72 WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1 MP-4
Pawtucket	GP-780 GQ-1 OF-77-816 WRI-99-4162	GQ-2	WRI-84-4283 WRI-84-4286	HD-7	WSP-2062 WRI-98-4249 WRI-99-4162
Paxton	GP-667 OF-77-131 OF-81-593 OF-02-433 WRI-99-4000 WRI-99-4162 SIR-2011-5013	I-1158 HA-682, 693 MP-4 WRI-93-4167	HA-276, 682 OF-82-924 OF-93-482 OF-96-397 OF-98-562 WRI-84-4282 WRI-84-4284 WRI-84-4286 WRI-95-4157 SIR-2007-5183	HD-27	HA-249, 276 HA-682, 693 OF-93-482 OF-96-358 OF-96-397 WRI-88-4147 WRI-95-4157 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-98-4249 WRI-99-4162 WRI-93-4167 SIR-2011-5013 MP-1 MP-4
Pepperell	GP-732 MF-957 OF-76-266 OF-81-593 WRI-99-4162 SIR-2011-5013	GQ-1118 OF-76-266 OF-81-651	HA-276, 662 OF-82-924 WRI-84-4284	HD-3	HA-276, 662 WRI-88-4147 WRI-98-4249 WRI-99-4162 SIR-2011-5013
Peru	B-159 GP-455, 627 HA-281 OF-66-93 OF-74-93 WRI-99-4000	B-159 HA-281, 716 OF-66-93 OF-74-93	HA-281 OF-82-635 OF-96-397 WRI-84-4282 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-249, 281 HA-716 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 MP-1 MP-3 MP-5

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Petersham	GP-699 WRI-94-4003 WRI-99-4000	I-1074-B, C HA-693 MP-4	I-1074-F,G, H OF-82-633 OF-96-397 OF-98-562 WRI-84-4282 WRI-94-4003 SIR 2007-5291		HA-249, 693 I-1074-I WRI-84-4282 WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-90-182 OF-96-358 OF-96-397 MP-1 MP-4
Pittsfield East	B-159 GP-456 HA-281 OF-66-93 OF-78-952 WRI-99-4000	B-159 GQ-1574 HA-281, 716 OF-66-93 OF-68-134	HA-281, 481 HA-716 OF-81-1199 OF-82-634 OF-96-397 WRI-83-4250 WRI-84-4282 WRI-84-4285 WRI-98-4232	HD-6 HD-9 HD-15	HA-249, 281 HA-481, 716 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 MP-1 MP-3
Pittsfield West	GP-457 MF-980 OF-66-93 WRI-99-4000	OF-65-75 OF-66-93	HA-281 OF-81-1199 OF-82-634 OF-96-397 WRI-83-4250 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-98-4232 MP-1 MP-3
Plainfield	B-159 GP-436, 627 GQ-877 WRI-99-4000	B-159 GQ-877 I-1074-B, C MF-664-A OF-68-135 HA-716	HA-506 I-1074-F,G,H OF-82-632 OF-96-397 WRI-84-4284 WRI-84-4288 WRI-96-4115	HD-6 HD-13	HA-249, 506 HA-716 I-1074-I WRI-96-4115 WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1 MP-5

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Plymouth	GP-786 OF-81-358 WRI-90-4204 WRI-99-4162	HA-507 MP-2 WRI-86-4053 WRI-91-4112	HA-504, 507 WRI-95-4234 SIR 2007-5291	HD-7 HD-16 HD-18	HA-504, 507 WRI-86-4053 WRI-86-4053A WRI-91-4112 WRI-90-4204 WRI-98-4249 WRI-99-4162 MP-2 SIR 2009-5063 C-1338
Plympton	GP-785 I-742 OF-77-816 WRI-90-4204 WRI-99-4162	HA-507 MP-2 I-742 WRI-86-4053 WRI-91-4112	HA-460, 504 HA-507 WRI-84-4283 WRI-84-4288 WRI-95-4234 OF-98-562	HD-7 HD-12 HD-16 HD-18	HA-460, 504 HA-507 WSP-2062 WRI-86-4053 WRI-86-4053A WRI-91-4112 WRI-90-4204 WRI-98-4249 WRI-99-4162 MP-2 SIR 2009-5063 C-1338

### KEY

<p>B – Bulletin</p> <p>GP– Geophysical Investigations Map</p> <p>GQ– Geologic Quadrangle Map</p> <p>HA– Hydrologic Investigations Atlas</p> <p>C- Circular</p> <p>HD– Hydrologic Data Report</p> <p>I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map</p> <p>MP- Miscellaneous Publications</p> <p>OF– Open File Report</p> <p>SIR-Scientific Investigations Report</p> <p>SIM-Scientific Investigations Map</p> <p>WRI- Water Resource Investigation Report</p> <p>WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Pocasset	GP-803 OF-76-765 WRI-90-4204 WRI-99-4162	B-2 HA-507, 692 OF-76-765 OF-93-159 OF-93-618 OF-96-214 OF-96-465 I-1763 WSP-2447 WSP-2482 B-285-L WRI-96-4200 SIR-2004-5181 SIR-2007-5259	HA-507 OF-77-419 WRI-80-1008 WRI-95-4234	HD-7 HD-18 HD-26	HA-507, 692 OF-80-1008 OF-82-274 OF-84-475 OF-93-159 OF-94-316 OF-94-462 OF-96-214 OF-96-472 OF-97-202 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-84-4166 WRI-85-4188 WRI-90-4140 WRI-90-4204 WRI-93-4064 WRI-94-4156 WRI-96-4200 WRI-97-4269 WRI-98-4112 WRI-98-4237 WRI-98-4249 WRI-99-4162 WRI-99-4174 WRI-00-4017 WRI-02-4143 WRI-02-4306 WRI-03-4133 WSP-2209 WSP-2218 WSP-2434 WSP-2447 WSP-2463 WSP-2482 SIR-2004-5181 SIR-2004-5269 SIR-2005-5010 SIR-2006-5054 SIR-2007-5259 SIR-2012-5084 SIM-3078 C-1338 MP-11

### KEY

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| <p>B – Bulletin</p> <p>GP– Geophysical Investigations Map</p> <p>GQ– Geologic Quadrangle Map</p> <p>HA– Hydrologic Investigations Atlas</p> <p>C- Circular</p> <p>HD– Hydrologic Data Report</p> <p>I- Miscellaneous Geologic Investigations Map</p> | <p>MF– Miscellaneous Field Studies Map</p> <p>MP- Miscellaneous Publications</p> <p>OF– Open File Report</p> <p>SIR-Scientific Investigations Report</p> <p>SIM-Scientific Investigations Map</p> <p>WRI- Water Resource Investigation Report</p> <p>WSP-Water Supply/Professional Paper</p> |
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Provincetown	OF-62-95 OF-76-765 WRI-99-4162	HA-692 OF-62-95 OF-76-765 OF-93-618 I-1763 WSP-2447 B-285-L WRI-93-159 SIR-2004-5014	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-72-85 OF-76-614 OF-80-1008 OF-82-274 OF-82-438 OF-93-159 OF-94-316 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4140 WRI-94-4156 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 SIR-2004-5014 MP-8 C-1338
Quabbin Reservoir	GP-698 WRI-94-4003 WRI-99-4000	I-1074-B, C HA-693	I-1074-F,G,H OF-82-633 OF-96-397 OF-98-562 WRI-84-4282 WRI-94-4003 WRI-95-4124 SIR 2007-5291	HD-6	HA-249, 693 I-1074-I WRI-94-4003 WRI-95-4124 WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-90-182 OF-96-358 OF-96-397 MP-1
Reading	B-704 B-1061-F GP-721 OF-61-131 OF-76-697 WSP-1694 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	B-1061-F GQ-168 OF-61-131 WSP-1694	HA-196, 482 HA-589, 614 OF-93-482 OF-01-483 WRI-84-4281 WRI-87-4100 WRI-95-4157 WRI-02-4278 WRI-03-4210 SIR-2004-5122	HD-1 HD-2 HD-21 HD-22	HA-196, 589 HA-614 OF-61-131 OF-93-482 WRI-87-4100 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-00-4029 SIR-2010-5007 SIR-2011-5013 SIR-2012-5155 WSP-1694 WSP-1826

### KEY

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Rockport	B-704 GP-724 OF-75-545 I-2285 WRI-99-4162		HA-589 WRI-84-4281	HD-21	HA-589 WRI-98-4249 WRI-99-4162
Rowe	B-159 GP-437 GQ-642 OF-66-14 WRI-99-4000	B-159 GQ-642 I-1074-B, C OF-66-14	HA-506 I-1074-F,G,H OF-82-632 OF-96-397 WRI-84-4282 WRI-96-4115	HD-6 HD-13	HA-249, 506 I-1074-I WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1
Royalston	GP-727 HA-293 OF-77-788 WRI-99-4000	I-1074-B, C	HA-293 I-1074-F,G,H OF-82-632 OF-96-397 WRI-84-4282	HD-6 HD-11	HA-249, 293 I-1074-I OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Sagamore	GP-797 OF-76-765 WRI-90-4204 WRI-99-4162	B-2 HA-507, 692 OF-76-765 OF-93-159 OF-93-618 OF-96-214 OF-96-465 WRI-95-4160 WRI-96-4200 I-1763 WSP-2447 WSP-2482 WRI-95-4160 B-285-L SIR-2004-5181 SIR-2007-5259	HA-507 OF-77-419 WRI-80-1008 WRI-84-4288 WRI-95-4234	HD-7 HD-18 HD-26	HA-507, 692 OF-80-1008 OF-82-274 OF-93-159 OF-94-316 OF-94-462 OF-96-214 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4140 WRI-90-4204 WRI-94-4156 WRI-95-4160 WRI-96-4200 WRI-98-4112 WRI-98-4237 WRI-98-4249 WRI-99-4077 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 WSP-2482 SIR-2004-5181 SIR-2007-5259 SIR 2009-5063 C-1338
Salem	B-704 B-1163-A GP-722 OF-61-131 OF-76-697 WRI-99-4162 SIR-2011-5013	GQ-271 OF-61-131	HA-196, 482 HA-589 OF-83-209 OF-93-482 OF-01-483 WRI-84-4281 WRI-95-4157 WRI-02-4278 SIR-2004-5122	HD-2 HD-21	HA-196, 589 OF-61-131 OF-93-482 WSP-1826 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-00-4029 SIR-2010-5007 SIR-2011-5013
Salem Depot	B-704 GP-712 WRI-99-4162 SIR-2011-5013		HA-616 OF-83-209 WRI-84-4284	HD-24	HA-616 WRI-98-4249 WRI-99-4162 SIR-2011-5013

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Sandwich	GP-804 GQ-1222 OF-76-765 WRI-99-4162	B-2 GQ-1222 HA-507, 692 OF-76-765 OF-93-159 OF-93-618 OF-96-214 OF-96-465 I-1763 WSP-2447 WSP-2482 B-285-L WRI-95-4160 WRI-96-4200 SIR-2004-5181 SIR-2007-5259	HA-507 OF-77-419 WRI-80-1008 WRI-95-4234	HD-7 HD-18 HD-26	HA-507, 692 OF-80-1008 OF-82-274 OF-93-159 OF-94-316 OF-94-462 OF-96-214 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-86-4093 WRI-90-4140 WRI-93-4064 WRI-94-4156 WRI-96-4200 WRI-98-4112 WRI-98-4237 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 WSP-2482 SIR-2004-5181 SIR-2007-5259 C-1338
Scituate	GP-767 GQ-467 WRI-99-4162	GQ-467 WRI-91-4112	HA-504 WRI-84-4288	HD-7 HD-16	HA-504 WRI-91-4112 WRI-98-4249 WRI-99-4162 C-1338
Scienticut Neck	GP-811 WRI-99-4162	HA-560 MF-889	HA-560 WRI-84-4288 WRI-95-4234	HD-7 HD-20	HA-560 WRI-98-4249 WRI-99-4162
Shelburne Falls	GP-438, 659 GQ-87 WSP-110 a WRI-99-4000	GQ-116 I-1074-B, C MF-591-A WSP-996 WRI-84-4106	HA-506, 562 HA-563 I-1074-F,G,H OF-76-93 OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 WRI-96-4115 SIR 2007-5291	HD-6 HD-13	HA-249, 506 HA-563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 WRI-03-4266 WSP-110 b MP-1

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| <p>B – Bulletin<br/>                 GP– Geophysical Investigations Map<br/>                 GQ– Geologic Quadrangle Map<br/>                 HA– Hydrologic Investigations Atlas<br/>                 C- Circular<br/>                 HD– Hydrologic Data Report<br/>                 I– Miscellaneous Geologic Investigations Map</p> | <p>MF– Miscellaneous Field Studies Map<br/>                 MP- Miscellaneous Publications<br/>                 OF– Open File Report<br/>                 SIR-Scientific Investigations Report<br/>                 SIM-Scientific Investigations Map<br/>                 WRI- Water Resource Investigation Report<br/>                 WSP-Water Supply/Professional Paper</p> |
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Shirley	GP-740 MF-957 OF-76-267 OF-81-593 WRI-99-4162 SIR-2011-5013	OF-76-388 OF-81-651	HA-276 OF-82-924 WRI-84-4284	HD-27	HA-276 WRI-88-4147 SIR-2011-5013
Shrewsbury	GP-672 OF-65-125 OF-77-131 OF-78-394 OF-78-951 OF-81-593 OF-92-646 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	GQ-794 OF-92-646 WRI-93-4167 HA-682 SIR-2004-5119	HA-276, 312 HA-662, 682 OF-82-924 OF-93-482 WRI-84-4284 WRI-84-4286 WRI-95-4157 SIR 2004-5092 SIR-2004-5119 SIR-2005-5131 SIR-2006-5213 SIR-2007-5183 MP-9	HD-8 HD-27	HA-276, 312 HA-662, 682 OF-65-125 OF-93-482 WRI-88-4147 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4060 WRI-99-4162 WRI-93-4167 SIR-2004-5119 SIR-2011-5013 SIR-2012-5155
Shutesbury	GP-697 WRI-94-4003 WRI-99-4000	I-1074-B, C OF-78-285 HA-693 WRI-84-4106	HA-562, 563 I-1074-F,G,H OF-76-93 OF-82-633 OF-96-397 OF-98-562 WRI-84-4282 WRI-94-4003 WRI-95-4124 SIR 2007-5291	HD-6	HA-249, 563 HA-693 I-1074-I OF-76-93 OF-90-182 OF-96-358 OF-96-397 WRI-84-4106 WRI-94-4003 WRI-95-4124 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Siasconset	I-1580 WRI-99-4162	B-53 I-1580 MF-1304 MF-1397 I-1763 WSP-2297 WSP-2447	HA-615	HD-7	HA-615 OF-94-316 WRI-98-4249 WRI-99-4162 WSP-2297 WSP-2447
Snipatuit Pond	GP-795 I-742 OF-77-816 WRI-90-4204 WRI-99-4162	HA-507, 560 I-742 WRI-86-4053	HA-300, 460 HA-507, 560 OF-98-562 WRI-84-4288 WRI-95-4234	HD-7 HD-12 HD-18 HD-20	HA-300, 460 HA-507, 560 WRI-84-4043 WRI-86-4053 WRI-86-4053A WRI-90-4204 WRI-98-4249 WRI-99-4162

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Somerset	GP-792 I-742 OF-77-816 OF-78-484 WRI-99-4162	GQ-70 HA-275 I-742 OF-78-484 WRI-86-4053	HA-275, 460 OF-98-562 WRI-84-4283	HD-7 HD-12 HD-25	HA-275, 460 WSP-2062 WRI-86-4053 WRI-86-4053A WRI-98-4249 WRI-99-4162
Southbridge	GP-631 OF-53-181 OF-53-182 OF-78-220 WRI-99-4000 SIR-2011-5013	OF-53-181 OF-53-182 OF-78-220 HA-700, 693 MP-4	OF-82-631 OF-96-397 WRI-84-4287		HA-700, 693 OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 MP-1 MP-4
South Groveland	B-704 GP-717 OF-61-131 OF-76-697 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	HA-247 OF-61-131	HA-196, 247 HA-614, 616 OF-01-483 WRI-84-4281 WRI-84-4284 WRI-02-4278 SIR-2004-5122	HD-1 HD-2 HD-4 HD-22 HD-24	HA-196, 247 HA-614, 616 OF-61-131 WSP-1826 WRI-98-4249 WRI-99-4162 WRI-00-4029 SIR-2010-5007 SIR-2011-5013 SIR-2012-5155
South Sandisfield	B-159 GP-533 GQ-1519 HA-281 OF-66-93 WRI-99-4000	B-159 HA-281, 716 MF-1016 OF-63-83 OF-64-83 OF-64-93	HA-281 OF-82-634 OF-96-397 WRI-84-4282 WRI-84-4285 WRI-98-4232	HD-6 HD-9	HA-249, 281 HA-716 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 MP-1 MP-3
Southwick	GP-534, 635 GP-645 GQ-1170 OF-74-99 OF-78-271 WSP-110 a WRI-99-4000	GQ-891 HA-716 I-1074-B, C MF-606-A OF-78-271 WSP-996	I-1074-F,G,H OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249, 716 I-1074-I WSP-110 b WRI-95-4203 WRI-98-4042 WRI-98-4247 OF-96-358 OF-96-397 MP-1 MP-5

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Springfield North	GP-618 OF-53-188 WSP-110 a WRI-99-4000	I-1074-B, C OF-53-188 WSP-996 HA-693 WRI-84-4106	HA-562, 563 I-1074-F,G,H OF-76-93 OF-82-633 OF-96-397 WRI-84-4282	HD-6	HA-562, 563 HA-693 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-79-72 WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 WSP-110 b WSP-1670 MP-1
Springfield South	GP-632 GQ-678 OF-53-48 OF-54-117 WSP-110 a WRI-99-4000	GQ-678 I-1074-B, C OF-53-48 OF-54-117 WSP-996 HA-693, 716 MF-509-A, B	HA-562, 563 HA-716 I-1074-F,G,H OF-76-93 OF-82-633 OF-84-4282 OF-96-397	HD-6	HA-249, 563 HA-693, 716 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-79-72 WRI-95-4203 WRI-98-4042 WRI-98-4247 WSP-110 b WSP-1670 MP-1
Squibnocket	MF-1186 WRI-99-4162	MF-534 MF-1186 I-1763 OF-80-148 WSP-2447	HA-618	HD-7	HA-618 OF-75-189 OF-94-316 WRI-98-4249 WRI-99-4162 WSP-2447
State Line	GP-458, 529 GQ-1142 HA-281 I-628 OF-66-93 WRI-99-4000	HA-281 OF-64-84 OF-64-85 OF-66-93	HA-281 OF-82-634 OF-96-397 WRI-84-4285 WRI-98-4332	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 MP-1 MP-3
Sterling	GP-702 OF-81-593 WRI-99-4162 SIR-2011-5013	OF-81-651	HA-276 OF-82-924 OF-98-562 WRI-84-4284 WRI-03-4210 SIR 2007-5291	HD-27	HA-276 WRI-88-4147 WRI-98-4249 WRI-99-4162 SIR-2011-5013

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Stockbridge	GP-459 GQ-1143 I-628 HA-281 OF-53-178 OF-53-179 OF-53-180 OF-53-183 OF-53-184 OF-53-187 OF-54-196 OF-66-93 WRI-99-4000	HA-281 OF-53-178 OF-53-179 OF-53-180 OF-53-183 OF-53-184 OF-53-187 OF-54-196 OF-64-85 OF-66-93	HA-281 OF-82-634 OF-96-397 WRI-84-4285 WRI-98-4232 SIR 2007-5291	HD-6 HD-9	HA-281 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WSP-2266 WRI-95-4203 WRI-98-4042 WRI-98-4232 WRI-98-4247 WRI-03-4266 MP-1 MP-3
Tariffville	GP-645 GQ-370 MF-512-C	GQ-798 MF-512-A, B		HD-6	
Taunton	B-1163-D GP-783 I-742 OF-53-169 OF-53-186 OF-55-60 OF-77-816 WRI-99-4162	B-1163-D OF-53-169 OF-53-186 OF-55-60 OF-55-61 I-742 WRI-86-4053	HA-300, 460 OF-93-482 OF-98-562 WRI-84-4283 WRI-95-4157	HD-7 HD-10 HD-12	HA-300, 460 WSP-2062 OF-93-482 WRI-86-4053 WRI-86-4053A WRI-95-4157 WRI-98-4249 WRI-99-4162
Templeton	GP-737 HA-293 WRI-99-4000 SIR-2011-5013	HA-693 MP-4	HA-293 OF-82-632 OF-93-482 OF-96-397 OF-98-562 WRI-84-4282 WRI-95-4157	HD-11	HA-249, 293 HA-693 OF-93-482 OF-96-358 OF-96-397 WRI-95-4157 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 MP-1 MP-4
Tisbury Great Pond	MF-1186 WRI-99-4162	MF-534 MF-1186 I-1763 WSP-2447	HA-618	HD-7	HA-618 OF-75-189 OF-94-316 WRI-98-4249 WRI-99-4162 WSP-2447
Tiverton	B-1158-D OF-77-816 OF-78-484 WRI-99-4162	HA-275 OF-78-484	HA-275 WRI-84-4283 WRI-95-4234	HD-7 HD-25	HA-275 WSP-2062 WRI-98-4249 WRI-99-4162

### KEY

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MF– Miscellaneous Field Studies Map  
 MP- Miscellaneous Publications  
 OF– Open File Report  
 SIR-Scientific Investigations Report  
 SIM-Scientific Investigations Map  
 WRI- Water Resource Investigation Report  
 WSP-Water Supply/Professional Paper

## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Tolland Center	B-159 GP-535 OF-53-185 OF-54-192 WRI-99-4000	B-159 OF-53-185 OF-54-192 HA-716	OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249, 716 WRI-95-4203 WRI-98-4247 WRI-03-4266 OF-96-397 OF-96-358 MP-1
Townsend	GP-731 MF-957 OF-81-593 WRI-99-4162 SIR-2011-5013	OF-81-651 GQ-1677	HA-276 OF-82-924 WRI-84-4284 SIR 2007-5291	HD-27	HA-276 WRI-88-4147 WRI-98-4042 WRI-98-4247 WRI-98-4249 WRI-99-4162 SIR-2011-5013
Tuckernuck Island	I-1580 WRI-99-4162	B-53 I-1580 I-1763 WSP-2297 WSP-2447	HA-615	HD-7	HA-615 OF-94-316 WRI-98-4249 WRI-99-4162 WSP-2297 WSP-2447
Uxbridge	GP-769 WRI-99-4162 SIR-2011-5013	WRI-93-4167 HA-682	HA-682 WRI-84-4286 WRI-03-4190 SIR-2006-5213 SIR-2007-5183		HA-682 WRI-98-4249 WRI-99-4162 WRI-93-4167 WRI-03-4190 SIR-2011-5013
Vineyard Haven	MF-1186 WRI-99-4162	MF-534 MF-1186 WSP-2447	HA-618	HD-7	HA-618 OF-75-189 OF-94-316 WRI-98-4249 WRI-99-4162 WSP-2447
Wachusett Mt.	GP-701 OF-81-593 WRI-99-4000 SIR-2011-5013	HA-693 MP-4	HA-276 OF-82-924 OF-96-397 OF-98-562 WRI-84-4282 WRI-84-4284	HD-27	HA-249, 276 HA-693 OF-96-358 OF-96-397 WRI-88-4147 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 MP-1 MP-4

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Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Wales	B-1389 GP-633 GQ-1320 OF-53-181 OF-53-182 OF-74-300 OF-75-50 WRI-99-4000	I-1074-B, C OF-53-181 OF-53-182 OF-75-50 HA-693, 700 MP-4	I-1074-F,G,H OF-82-631 OF-96-397 WRI-84-4282 WRI-84-4287	HD-6	HA-249 I-1074-I HA-693, 700 OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1 MP-4
Ware	GP-665 OF-76-708 WRI-99-4000 SIR-2011-5013	I-1074-B, C HA-693	I-1074-F,G,H WRI-84-4282 OF-82-633 OF-96-397	HD-6	HA-249, 693 I-1074-I OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 MP-1
Wareham	GP-796 WRI-90-4204 WRI-99-4162	HA-507 WRI-95-4160	HA-507 WRI-84-4288 WRI-95-4234	HD-7 HD-18	HA-507 WRI-84-4043 WRI-84-4166 WRI-90-4204 WRI-95-4160 WRI-99-4077 WRI-98-4249 WRI-99-4162 C-1338 SIR 2009-5063
Warren	GP-620 GQ-1358 MF-541-A OF-74-138 OF-75-50 OF-76-708 WRI-99-4000	GQ-1357 I-1074-B,C,D MF-541-B,C,D OF-74-299 OF-75-50 OF-75-388 HA-693, 700	I-1074-F,G,H MF-541-F OF-82-631 OF-93-482 OF-96-397 WRI-84-4282 WRI-84-4287 WRI-95-4157	HD-6	HA-249 HA-693, 700 I-1074-I MF-541-E OF-93-482 OF-96-358 OF-96-397 WRI-95-415 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Webster	GP-634 OF-74-192 WRI-99-4000 SIR-2011-5013 SIR-2012-5155	HA-700 MF-925 MP-4	OF-82-631 OF-96-397 WRI-84-4287		HA-700 OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 SIR-2011-5013 SIR-2012-5155 MP-1 MP-4

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Wellfleet	GQ-750 OF-62-95 OF-76-765 WRI-99-4162	HA-692 GQ-750 OF-62-95 OF-76-765 OF-93-159 OF-93-618 I-1763 B-285-L WSP-2447 SIR-2004-5014	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-72-85 OF-76-614 OF-80-1008 OF-82-274 OF-82-438 OF-89-677 OF-93-159 OF-94-316 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-90-4140 WRI-94-4156 WRI-86-4093 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2434 WSP-2447 SIR-2004-5014 MP-8 C-1338
Westford	GP-742 OF-65-125 OF-75-387 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	OF-65-125 OF-77-641 SIR-2004-5119	HA-312, 662 OF-82-924 OF-93-482 WRI-84-4284 WRI-95-4157 SIR-2004-5119 SIR-2005-5131 SIR 2007-5291 MP-9	HD-8	HA-312, 662 OF-65-125 OF-93-482 WRI-94-4256 WRI-95-4157 WRI-98-4249 WRI-99-4162 SIR-2004-5119 SIR-2011-5013 SIR-2012-5155
West Granville	GP-536 OF-73-251 OF-78-271 WRI-99-4000	I-1074-B, C OF-73-251 OF-78-271 HA-716	I-1074-F,G,H OF-82-635 OF-96-397 WRI-84-4284	HD-6	HA-249, 716 I-1074-I WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-03-4266 OF-96-358 OF-96-397 MP-1 MP-5

### KEY

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Westhampton	GP-628 GQ-1640 WRI-99-4000	I-1074-B, C HA-716 WRI-84-4106	HA-562, 563 I-1074-F,G,H OF-76-93 OF-82-635 OF-96-397 WRI-84-4282 SIR 2007-5291	HD-6	HA-249, 563 HA-716 I-1074-I OF-76-93 OF-96-358 OF-96-397 WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1 MP-5
Westport	GP-809 WRI-99-4162	HA-275, 560 MF-889	HA-275, 560 OF-98-562 WRI-84-4283 WRI-84-4288 WRI-95-4234	HD-7 HD-20 HD-25	HA-275, 560 OF-58-47 WRI-98-4249 WRI-99-4162
West Springfield	GP-635 GQ-537 WSP-110 a WRI-99-4000	GQ-892 I-1074-B, C WSP-996 HA-716	HA-562, 563 I-1074-F,G,H MF-563-A OF-76-93 OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249, 563 HA-716 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110 b WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1 MP-5
Weymouth	GP-765 I-742 WRI-99-4162	MP-2 I-742 WRI-86-4053	HA-460, 484 HA-504 OF-93-482 WRI-84-4281 WRI-84-4283 WRI-84-4288 WRI-95-4157 SIR 2007-5291	HD-7 HD-12 HD-14 HD-16	HA-460, 484 HA-504 OF-93-482 WRI-86-4053 WRI-86-4053A WRI-93-4142 WRI-95-4157 WRI-98-4249 WRI-99-4162 MP-2
Whitman	GP-775 I-742 OF-77-816 WRI-99-4162	GQ-632 MP-2 I-742 WRI-86-4053	HA-460, 504 OF-93-482 OF-98-562 WRI-84-4283 WRI-84-4288 WRI-95-4157	HD-5 HD-7 HD-12 HD-16	HA-460, 504 WSP-2062 OF-93-482 WRI-86-4053 WRI-86-4053A WRI-95-4157 WRI-98-4249 WRI-99-4162 MP-2

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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Williamsburg	GP-659 GQ-85 WSP-110 a WRI-99-4000	GQ-80 I-1074-B, C MF-589-A WSP-996 WRI-84-4106	HA-506, 562 HA-563 I-1074-F,G,H OF-76-93 OF-82-635 OF-96-397 OF-98-562 WRI-84-4282 WRI-96-4115	HD-6 HD-13	HA-249, 506 HA-563 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110 b WRI-84-4106 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4247 WRI-03-4266 MP-1
Williamstown	B-159 GP-460 WRI-99-4000 I-2369	B-159	HA-481 OF-66-31 OF-81-1199 OF-83-4250 OF-96-397 SIR 2007-5291	HD-6 HD-15	HA-481 WSP-110 c OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1
Wilmington	B-704 B-1061-F GP-720 OF-54-190 OF-54-191 OF-61-131 WSP-1694 WRI-99-4162 SIR-2011-5013 SIR-2012-5155	B-1061-F GQ122 OF-54-190 OF-54-191 OF-61-131 WSP-1694	HA-196, 482 HA-589, 614 HA-616 OF-93-482 OF-01-483 WRI-84-4281 WRI-84-4284 WRI-87-4100 WRI-95-4157 WRI-02-4278 SIR-2004-5122	HD-1 HD-2 HD-21 HD-22 HD-24	HA-196, 589 HA-614, 616 OF-61-131 OF-93-482 WRI-87-4100 WRI-95-4157 WRI-98-4249 WRI-99-4162 WRI-00-4029 SIR-2010-5007 SIR-2011-5013 SIR-2012-5155 WSP-1694 WSP-1826
Winchendon	GP-728 HA-293 WRI-99-4000		HA-293 OF-82-632 OF-96-397 OF-98-562 WRI-84-4282 SIR 2007-5291	HD-11	HA-249, 293 OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1

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<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I- Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Windsor	B-159 GP-461 HA-281 OF-66-93 OF-67-170 WRI-99-4000	B-159 HA-281, 716 OF-65-76 OF-66-93 OF-67-170	HA-281, 481 HA-506 OF-81-1199 OF-82-635 OF-96-397 WRI-83-4250 WRI-84-4282 WRI-84-4285 WRI-96-4115 WRI-98-4232 SIR 2007-5291	HD-6 HD-9 HD-13 HD-15	HA-249, 281 HA-481, 506 HA-716 OF-66-93 OF-84-588 OF-96-358 OF-96-397 WRI-95-4203 WRI-96-4115 WRI-98-4042 WRI-98-4232 WRI-98-4247 WSP-110 c WSP-2266 MP-1 MP-5
Winsor Dam	GP-664 OF-76-708 WRI-99-4000	I-1074-B,C HA-693 MP-4	I-1074-F,G,H OF-82-633 OF-96-397 OF-98-562 WRI-84-4282 SIR 2007-5291	HD-6	HA-481, 693 I-1074-I OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1 MP-4
Woods Hole	GP-812 OF-76-765 MF-1186 WRI-99-4162	B-2 HA-692 OF-76-765 OF-93-618 OF-96-214 OF-96-465 MF-889 MF-1186 I-1763 WSP-2447 B-285-L SIR-2004-5181 SIR-2007-5259	OF-77-419 WRI-80-1008	HD-7 HD-26	HA-692 OF-82-274 OF-94-426 OF-96-214 WRI-79-65 WRI-80-67 WRI-80-571 WRI-83-4112 WRI-85-4188 WRI-86-4093 WRI-98-4237 WRI-98-4249 WRI-99-4162 WSP-2209 WSP-2218 WSP-2447 SIR-2004-5181 SIR-2007-5259 C-1338
Worcester North	GP-668 OF-77-131 OF-81-593 WRI-99-4162 WRI-02-4290 SIR-2011-5013 SIR-2012-5155	I-1158 OF-77-126 OF-81-651 WRI-93-4167 WRI-02-4290 HA-682	HA-276, 682 OF-82-924 OF-98-562 WRI-84-4284 WRI-84-4286 SIR-2006-5213 SIR-2007-5183	HD-27	HA-276, 682 WRI-88-4147 WRI-98-4249 WRI-99-4162 WRI-93-4167 WRI-02-4290 SIR-2011-5013 SIR-2012-5155

### KEY

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| <p>B – Bulletin<br/>                 GP– Geophysical Investigations Map<br/>                 GQ– Geologic Quadrangle Map<br/>                 HA– Hydrologic Investigations Atlas<br/>                 C- Circular<br/>                 HD– Hydrologic Data Report<br/>                 I– Miscellaneous Geologic Investigations Map</p> | <p>MF– Miscellaneous Field Studies Map<br/>                 MP- Miscellaneous Publications<br/>                 OF– Open File Report<br/>                 SIR-Scientific Investigations Report<br/>                 SIM-Scientific Investigations Map<br/>                 WRI- Water Resource Investigation Report<br/>                 WSP-Water Supply/Professional Paper</p> |
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## Massachusetts Hydrogeologic Information Matrix

Information Available In USGS Publications					
Quadrangle Name	Bedrock Geology	Surficial Geology	Drainage	Hydrologic Data Reports	Groundwater Availability And Quality
Worcester South	GP-623 OF-77-131 WRI-99-4000 SIR-2011-5013 SIR-2012-5155	HA-682, 700 MP-4 WRI-93-4167	HA-682 OF-82-631 OF-96-397 WRI-84-4286 WRI-84-4287 SIR-2006-5213 SIR-2007-5183		HA-682, 700 OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-93-4167 SIR-2011-5013 SIR-2012-5155 MP-1 MP-4
Woronoco	B-1324-B GP-537, 622 GP-628 GQ-1565 OF-77-363 WSP-110a WRI-99-4000	I-1074-B,C OF-68-136 WSP-996 HA-716 WRI-84-4106	HA-562, 563 I-1074-F,G,H OF-76-93 OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249, 563 HA-716 I-1074-I OF-76-93 OF-96-358 OF-96-397 WSP-110 b WRI-84-4106 WRI-95-4203 WRI-98-4042 WRI-98-4247 MP-1 MP-5
Worthington	B-159 GP-627 GQ-857 WRI-99-4000	B-159 GQ-857 I-1074-B, C MF-662-A HA-716	I-1074-F,G,H OF-82-635 OF-96-397 WRI-84-4282	HD-6	HA-249, 716 I-1074-I OF-96-358 OF-96-397 WRI-95-4203 WRI-98-4042 WRI-98-4247 WRI-03-4266 MP-1 MP-5
Wrentham	GP-772 I-742 OF-77-816 WRI-99-4162	HA-682 I-742 WRI-86-4053 WRI-93-4167 WRI-02-4234	HA-300, 460 HA-484, 554 HA-682 OF-93-482 OF-98-562 WRI-84-4281 WRI-84-4283 WRI-84-4286 WRI-95-4157 WRI-02-4234 WRI-03-4330	HD-7 HD-10 HD-12 HD-14 HD-19	HA-300, 460 HA-484, 554 HA-682 WSP-2062 OF-93-482 WRI-86-4053 WRI-86-4053A WRI-88-4173 WRI-93-4142 WRI-95-4157 WRI-98-4247 WRI-98-4249 WRI-99-4162 WRI-93-4167 WRI-02-4234 WRI-03-4330

### KEY

<p>B – Bulletin                  GP– Geophysical Investigations Map                  GQ– Geologic Quadrangle Map                  HA– Hydrologic Investigations Atlas                  C- Circular                  HD– Hydrologic Data Report                  I– Miscellaneous Geologic Investigations Map</p>	<p>MF– Miscellaneous Field Studies Map                  MP- Miscellaneous Publications                  OF– Open File Report                  SIR-Scientific Investigations Report                  SIM-Scientific Investigations Map                  WRI- Water Resource Investigation Report                  WSP-Water Supply/Professional Paper</p>
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U.S.G.S. Bulletins

- B-1 Preliminary Report on the Geology of the Blue Hills Quadrangle, Massachusetts, by Newton E. Chute, 1940
- B-2 Preliminary Report on the Geology of the Western Cape Cod Massachusetts, by Kirtley F. Maher, Richard P. Goldwaith, and Lincoln R. Theismeyer, 1940
- B-8 Seismic Study of Governors Island, Boston, Massachusetts, by F.W. Lee, 1942,
- B-53 The Geology of Nantucket, by N. S. Shaler, 1889. .
- B-159 Geology of Eastern Berkshire County, Massachusetts, by B. K. Emerson, 1899.
- B-285-L Clays of Cape Cod, Massachusetts, by M. L. Fuller, 1906.
- B-704 Geology of the Igneous Rocks of Essex County, Massachusetts, by C. H. Clapp, 1921.
- B-839 Geology of the Boston area, Massachusetts, by L. LaForge, 1932. .
- B-1038 Geology and Mineral Resources of the Hudson and Maynard Quadrangles, Massachusetts, by W. R. Hansen, 1956.
- B-1061-F Glacial Geology of the Mystic Lakes - Fresh Pond area, Massachusetts, by N. E. Chute, 1959.
- B-1158-D Bedrock Geology of the Tiverton Quadrangle, Rhode Island-Massachusetts, by S. J. Pollock, 1964. .
- B-1163-A Bedrock Geology of the Salem Quadrangle and Vicinity Massachusetts, by P. Toulmin, III, 1964. .
- B-1163-B Geology of the Norwood Quadrangle, Norfolk and Suffolk Counties, Massachusetts, by N. E. Chute, 1966. .
- B-1163-C Surficial Geology of the Athol Quadrangle, Worcester and Franklin Counties, Massachusetts, by D. F. Eschmann, 1966.
- B-1163-D Geology of the Taunton Quadrangle, Bristol and Plymouth Counties, Massachusetts, by J. H. Hartshorn, 1967. .
- B-1260-D Summary Report on the Geology and Mineral Resources of the Monomoy National Wildlife Refuge, Barnstable County, Massachusetts, by C. Koteff, 1967.
- B-1324-B The Russell Mountain Formation, a New Stratigraphic Unit in Western Massachusetts, by N. L. Hatch, Jr., R. S. Stanley, and S. F. Clark, Jr., 1970.
- B-1389 Stratigraphic and Structural Relationships of the Brimfield Group in Northeast-Central Connecticut and Adjacent Massachusetts, by J. D. Peper, M. H. Pease, and V. M. Seiders, 1975.
- B-1395-E Changes in Nomenclature of Upper Precambrian to Lower Paleozoic Formations in the Natick Quadrangle, Eastern Massachusetts, and their Tentative Correlations with Rocks in Rhode Island and Connecticut, by A. E. Nelson, 1974.
- B-1488 A Stratigraphic Test Well, Martha's Vineyard, Massachusetts, by R. E. Hall, L. J. Poppe, and W. M. Ferrebee, 1980.

## U.S.G.S. Geophysical Investigations Maps

- GP-429 Aeromagnetic Map of the Ashfield Quadrangle, Franklin and Hampshire Counties, Mass., by J. L. Meuschke and G. L. Zandle. 1963. Scale 1:24,000.
- GP-430 Aeromagnetic Map of the Bernardston Quadrangle, Franklin County, Mass., and Windham County, Vt., by G. E. Andreasen and G. L. Zandle. 1963. Scale 1:24,000.
- GP-431 Aeromagnetic Map of the Colrain Quadrangle, Franklin County, Mass., and Windham County, Vt., by G. E. Andreasen and G. L. Zandle. 1963. Scale 1:24,000.
- GP-432 Aeromagnetic Map of the Greenfield Quadrangle, Franklin County, Mass., by J. L. Meuschke and G. L. Zandle. 1963. Scale 1:24,000.
- GP-433 Aeromagnetic Map of the Heath Quadrangle, Franklin County, Mass., and Windham County, Vt., by P. Popenoe and G. L. Zandle. 1963. Scale 1:24,000.
- GP-434 Aeromagnetic Map of the Millers Falls Quadrangle, Franklin County, Mass., by P. Popenoe and G. L. Zandle. 1963. Scale 1:24,000.
- GP-435 Aeromagnetic Map of the Northfield Quadrangle, Franklin County, Mass., Windham County, Vt., and Cheshire County, N.H., by G. E. Andreasen and G. L. Zandle. 1963. Scale 1:24,000.
- GP-436 Aeromagnetic Map of the Plainfield Quadrangle, Franklin, Hampshire, and Berkshire Counties, Mass., by J. L. Meuschke and G. L. Zandle. 1963. Scale 1:24,000.
- GP-437 Aeromagnetic Map of the Rowe Quadrangle, Franklin and Berkshire Counties, Mass., and Windham and Bennington Counties, Vt., by P. Popenoe and G. L. Zandle. 1963. Scale 1:24,000.
- GP-438 Aeromagnetic Map of the Shelburne Falls Quadrangle, Franklin County, Mass., by J. L. Meuschke and G. L. Zandle. 1963. Scale 1:24,000.
- GP-448 Aeromagnetic Map of the Beckett Quadrangle, Berkshire, Hampshire, and Hampden Counties, Mass., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-449 Aeromagnetic Map of the Berlin Quadrangle, Berkshire County, Mass., Rensselaer County, N.Y., and Bennington County, Vt., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-450 Aeromagnetic Map of the part of the Canaan Quadrangle, Berkshire County, Mass., and Columbia and Rensselaer Counties, N.Y., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-451 Aeromagnetic Map of the Cheshire Quadrangle, Berkshire County, Mass., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-452 Aeromagnetic Map of the East Lee Quadrangle, Berkshire County, Mass., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-453 Aeromagnetic Map of the Hancock Quadrangle, Berkshire County, Mass., and Rensselaer County, N.Y., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.

- GP-454 Aeromagnetic Map of the North Adams Quadrangle, Berkshire and Franklin Counties, Mass., and Bennington County, Vt., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-455 Aeromagnetic Map of the Peru Quadrangle, Berkshire and Hampshire Counties, Mass., by P. Popenoe, G. R. Boynton and G. L. Zandle. 1964. Scale 1:24,000.
- GP-456 Aeromagnetic Map of the Pittsfield East Quadrangle, Berkshire County, Mass., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-457 Aeromagnetic Map of the Pittsfield West Quadrangle, Berkshire County, Mass., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-458 Aeromagnetic Map of the State Line Quadrangle, Berkshire County, Mass., and Columbia County, N.Y., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-459 Aeromagnetic Map of the Stockbridge Quadrangle, Berkshire County, Mass., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-460 Aeromagnetic Map of the Williamstown Quadrangle, Berkshire County, Mass., and Bennington County, Vt., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-461 Aeromagnetic Map of the Windsor Quadrangle, Berkshire County, Mass., by P. Popenoe, G. R. Boynton, and G. L. Zandle. 1964. Scale 1:24,000.
- GP-526 Aeromagnetic Map of part of the Ashley Falls Quadrangle, Berkshire County, Mass., and Litchfield County, Conn., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-527 Aeromagnetic Map of part of the Bashbish Falls Quadrangle, Massachusetts, Connecticut, and New York, by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-528 Aeromagnetic Map of the Blandford Quadrangle, Hampden and Hampshire Counties, Mass., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-529 Aeromagnetic Map of the Egremont Quadrangle and part of the State Line Quadrangle, Berkshire County, Mass., and Columbia County, N.Y., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-530 Aeromagnetic Map of the Great Barrington Quadrangle, Berkshire County, Mass., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-531 Aeromagnetic Map of the Monterey Quadrangle, Berkshire County, Mass., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-532 Aeromagnetic Map of the Otis Quadrangle, Berkshire and Hampden Counties, Mass., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-533 Aeromagnetic Map of part of the South Sandisfield Quadrangle, Berkshire County, Mass., and Litchfield County, Conn., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.



- GP-534 Aeromagnetic Map of part of the Southwick Quadrangle, Hampden County, Mass., and Hartford County, Conn., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-535 Aeromagnetic Map of the Tolland Center Quadrangle, Berkshire and Hampden Counties, Mass., and Hartford and Litchfield Counties, Conn., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-536 Aeromagnetic Map of part of the West Granville Quadrangle, Hampden County, Mass., and Hartford County, Conn., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-537 Aeromagnetic Map of the Woronoco Quadrangle, Hampden and Hampshire Counties, Mass., by G. R. Boynton, P. Popenoe, and G. L. Zandle. 1965. Scale 1:24,000.
- GP-617 Aeromagnetic Map of the Palmer Quadrangle, Hampden and Hampshire and Worcester Counties, Mass. 1968. Scale 1:24,000.
- GP-618 Aeromagnetic Map of the Springfield North Quadrangle, Hampden and Hampshire Counties, Mass. 1968. Scale 1:24,000.
- GP-619 Aeromagnetic Map of the Ludlow Quadrangle, Hampden and Hampshire Counties, Mass. 1968. Scale 1:24,000.
- GP-620 Aeromagnetic Map of the Warren Quadrangle, Worcester, Hampden, and Hampshire Counties, Mass. 1968. Scale 1:24,000.
- GP-621 Aeromagnetic Map of the East Brookfield Quadrangle, Worcester County, Mass. 1968. Scale 1:24,000.
- GP-622 Aeromagnetic Map of the Mount Tom Quadrangle and part of the Woronoco Quadrangle, Hampden and Hampshire Counties, Mass. 1968. Scale 1:24,000.
- GP-623 Aeromagnetic Map of the Worcester South Quadrangle, Worcester County, Mass. 1968. Scale 1:24,000.
- GP-624 Aeromagnetic Map of the Leicester Quadrangle, Worcester County, Mass. 1968. Scale 1:24,000.
- GP-625 Aeromagnetic Map of the Chester Quadrangle and parts of the Beckett and Blandford Quadrangles, Berkshire, Hampden, and Hampshire Counties, Mass. 1968. Scale 1:24,000.
- GP-626 Aeromagnetic Map of the Goshen Quadrangle and part of the Ashfield Quadrangle, Franklin and Hampshire Counties, Mass. 1968. Scale 1:24,000.
- GP-627 Aeromagnetic Map of the Worthington Quadrangle and parts of the Plainfield and Peru Quadrangles, Berkshire and Hampshire Counties, Mass. 1968. Scale 1:24,000.
- GP-628 Aeromagnetic Map of the Westhampton Quadrangle and part of the Woronoco Quadrangle, Hampshire County, Mass. 1968. Scale 1:24,000.
- GP-629 Aeromagnetic Map of the Hampden Quadrangle, Hampden County, Mass., and Tolland County, Conn. 1968. Scale 1:24,000.

- GP-630 Aeromagnetic Map of the Monson Quadrangle, Hampden County, Mass., and Tolland County, Conn. 1968. Scale 1:24,000.
- GP-631 Aeromagnetic Map of the Southbridge Quadrangle, Worcester County, Mass., and Windham and Tolland Counties, Conn. 1968. Scale 1:24,000.
- GP-632 Aeromagnetic Map of the Springfield South Quadrangle, Hampden County, Mass., and Hartford and Tolland Counties, Conn. 1968. Scale 1:24,000.
- GP-633 Aeromagnetic Map of the Wales Quadrangle, Hampden and Worcester Counties, Mass., and Tolland County, Conn. 1968. Scale 1:24,000.
- GP-634 Aeromagnetic Map of the Webster Quadrangle, Worcester County, Mass., and Windham County, Conn. 1968. Scale 1:24,000.
- GP-635 Aeromagnetic Map of the West Springfield Quadrangle and part of the Southwick Quadrangle, Hampden County, Mass., and Hartford County, Conn. 1968. Scale 1:24,000.
- GP-645 Aeromagnetic Map of the Tariffville Quadrangle and parts of the Avon and Southwick Quadrangles, Connecticut and Massachusetts. 1969. Scale 1:24,000.
- GP-659 Aeromagnetic Map of the Williamsburg Quadrangle and part of the Shelburne Falls Quadrangle, Franklin and Hampshire Counties, Mass. 1969. Scale 1:24,000.
- GP-660 Aeromagnetic Map of the Mt. Toby Quadrangle and part of the Greenfield Quadrangle, Franklin and Hampshire Counties, Mass. 1969. Scale 1:24,000.
- GP-661 Aeromagnetic Map of the Easthampton Quadrangle, Hampshire and Hampden Counties, Mass. 1969. Scale 1:24,000.
- GP-662 Aeromagnetic Map of the Mt. Holyoke Quadrangle, Hampshire and Hampden Counties, Mass. 1969. Scale 1:24,000.
- GP-663 Aeromagnetic Map of the Belchertown Quadrangle, Hampshire County, Mass. 1969. Scale 1:24,000.
- GP-664 Aeromagnetic Map of the Winsor Dam Quadrangle, Hampshire, Worcester, and Franklin Counties, Mass. 1969. Scale 1:24,000.
- GP-665 Aeromagnetic Map of the Ware Quadrangle, Worcester and Hampshire Counties, Mass. 1969. Scale 1:24,000.
- GP-666 Aeromagnetic Map of the North Brookfield Quadrangle, Worcester County, Mass. 1969. Scale 1:24,000.
- GP-667 Aeromagnetic Map of the Paxton Quadrangle, Worcester County, Mass. 1969. Scale 1:24,000.
- GP-668 Aeromagnetic Map of the Worcester North Quadrangle, Worcester County, Mass. 1969. Scale 1:24,000.
- GP-672 Aeromagnetic Map of the Shrewsbury Quadrangle, Worcester County, Mass. 1969. Scale 1:24,000.
- GP-673 Aeromagnetic Map of the Marlborough Quadrangle, Middlesex and Worcester Counties, Mass. 1969. Scale 1:24,000.
- GP-674 Aeromagnetic Map of the Framingham Quadrangle, Middlesex and Worcester

- Counties, Mass. 1969. Scale 1:24,000.
- GP-675 Aeromagnetic Map of the Natick Quadrangle, Middlesex and Norfolk Counties, Mass. 1969. Scale 1:24,000.
- GP-676 Aeromagnetic Map of the Newton Quadrangle, Middlesex, Norfolk, and Suffolk Counties, Mass. 1969. Scale 1:24,000.
- GP-677 Aeromagnetic Map of the Boston South Quadrangle, Middlesex, Norfolk, and Suffolk Counties, Mass. 1969. Scale 1:24,000.
- GP-678 Aeromagnetic Map of the Hull Quadrangle, Suffolk, Norfolk, and Plymouth Counties, Mass. 1969. Scale 1:24,000.
- GP-679 Aeromagnetic Map of the Nantasket Beach Quadrangle, Suffolk, Norfolk, and Plymouth Counties, Mass. 1969. Scale 1:24,000.
- GP-697 Aeromagnetic Map of the Shutesbury Quadrangle and part of the Millers Falls Quadrangle, Franklin and Hampshire Counties, Mass. 1970. Scale 1:24,000.
- GP-698 Aeromagnetic Map of the Quabbin Reservoir Quadrangle, Franklin, Worcester, and Hampshire Counties, Mass. 1970. Scale 1:24,000.
- GP-699 Aeromagnetic Map of the Petersham Quadrangle, Worcester County, Mass. 1970. Scale 1:24,000.
- GP-700 Aeromagnetic Map of the Barre Quadrangle, Worcester County, Mass. 1970. Scale 1:24,000.
- GP-701 Aeromagnetic Map of the Wachusett Mountain Quadrangle, Worcester County, Mass. 1970. Scale 1:24,000.
- GP-702 Aeromagnetic Map of the Sterling Quadrangle, Worcester County, Mass. 1970. Scale 1:24,000.
- GP-703 Aeromagnetic Map of the Clinton Quadrangle, Worcester County, Mass. 1970. Scale 1:24,000.
- GP-704 Aeromagnetic Map of the Hudson Quadrangle, Worcester and Middlesex Counties, Mass. 1970. Scale 1:24,000.
- GP-705 Aeromagnetic Map of the Maynard Quadrangle, Middlesex County, Mass. 1970. Scale 1:24,000.
- GP-706 Aeromagnetic Map of the Concord Quadrangle, Middlesex County, Mass. 1970. Scale 1:24,000.
- GP-707 Aeromagnetic Map of the Lexington Quadrangle, Middlesex County, Mass. 1970. Scale 1:24,000.
- GP-708 Aeromagnetic Map of the Boston North Quadrangle, Middlesex, Suffolk and Essex Counties, Mass. 1970. Scale 1:24,000.
- GP-709 Aeromagnetic Map of the Lynn Quadrangle, Essex and Suffolk Counties, Mass. 1970. Scale 1:24,000.
- GP-710 Aeromagnetic Map of part of the Marblehead South Quadrangle, Essex and Suffolk

- Counties, Mass. 1970. Scale 1:24,000.
- GP-712 Aeromagnetic Map of part of the Salem Depot Quadrangle, Rockingham County, N.H., and Essex County, Mass. 1970. Scale 1:24,000.
- GP-713 Aeromagnetic Map of part of the Haverhill Quadrangle, Essex County, Mass., and Rockingham County, N.H. 1970. Scale 1:24,000.
- GP-714 Aeromagnetic Map of part of the Newburyport West Quadrangle, Essex County, Mass., and Rockingham County, N.H. 1970. Scale 1:24,000.
- GP-715 Aeromagnetic Map of part of the Newburyport East Quadrangle, Essex County, Mass., and Rockingham County, N.H. 1970. Scale 1:24,000.
- GP-716 Aeromagnetic Map of the Lawrence Quadrangle, Essex and Middlesex Counties, Mass., and Rockingham and Hillsborough Counties, N.H. 1970. Scale 1:24,000.
- GP-717 Aeromagnetic Map of the South Groveland Quadrangle, Essex County, Mass. 1970. Scale 1:24,000.
- GP-718 Aeromagnetic Map of the Georgetown Quadrangle, Essex County, Mass. 1970. Scale 1:24,000.
- GP-719 Aeromagnetic Map of part of the Ipswich Quadrangle, Essex County, Mass. 1970. Scale 1:24,000.
- GP-720 Aeromagnetic Map of the Wilmington Quadrangle, Middlesex and Essex Counties, Mass. 1970. Scale 1:24,000.
- GP-721 Aeromagnetic Map of the Reading Quadrangle, Middlesex and Essex Counties, Mass. 1970. Scale 1:24,000.
- GP-722 Aeromagnetic Map of the Salem Quadrangle, Essex County, Mass. 1970. Scale 1:24,000.
- GP-723 Aeromagnetic Map of part of the Marblehead North Quadrangle, Essex County, Mass. 1970. Scale 1:24,000.
- GP-724 Aeromagnetic Map of parts of the Gloucester and Rockport Quadrangles, Essex County, Mass. 1970. Scale 1:24,000.
- GP-726 Aeromagnetic Map of the Mount Grace Quadrangle and part of the Northfield Quadrangle, Franklin and Worcester Counties, Mass., and Cheshire County, N.H. 1971. Scale 1:24,000.
- GP-727 Aeromagnetic Map of the Royalston Quadrangle, Worcester and Franklin Counties, Mass., and Cheshire County, N.H. 1971. Scale 1:24,000.
- GP-728 Aeromagnetic Map of the Winchendon Quadrangle, Worcester County, Mass., and Cheshire County, N.H. 1971. Scale 1:24,000.
- GP-729 Aeromagnetic Map of the Ashburnham Quadrangle, Worcester and Middlesex Counties, Mass., and Cheshire and Hillsborough Counties, N.H. 1971. Scale 1:24,000.
- GP-730 Aeromagnetic Map of the Ashby Quadrangle, Middlesex and Worcester Counties, Mass., and Hillsborough County, N.H. 1971. Scale 1:24,000.
- GP-731 Aeromagnetic Map of the Townsend Quadrangle, Middlesex and Worcester

- Counties, Mass., and Hillsborough County, N.H. 1971. Scale 1:24,000.
- GP-732 Aeromagnetic Map of the Pepperell Quadrangle, Middlesex County, Mass., and Hillsborough County, N.H. 1971. Scale 1:24,000.
- GP-733 Aeromagnetic Map of the Nashua South Quadrangle, Middlesex County, Mass., and Hillsborough County, N.H. 1971. Scale 1:24,000.
- GP-734 Aeromagnetic Map of the Lowell Quadrangle, Middlesex and Essex Counties, Mass., and Hillsborough County, N.H. 1971. Scale 1:24,000.
- GP-735 Aeromagnetic Map of the Orange Quadrangle, Franklin and Worcester Counties, Mass. 1971. Scale 1:24,000.
- GP-736 Aeromagnetic Map of the Athol Quadrangle, Worcester and Franklin Counties, Mass. 1971. Scale 1:24,000.
- GP-737 Aeromagnetic Map of the Templeton Quadrangle, Worcester County, Mass. 1971. Scale 1:24,000.
- GP-738 Aeromagnetic Map of the Gardner Quadrangle, Worcester County, Mass. 1971. Scale 1:24,000.
- GP-739 Aeromagnetic Map of the Fitchburg Quadrangle, Worcester County, Mass. 1971. Scale 1:24,000.
- GP-740 Aeromagnetic Map of the Shirley Quadrangle, Worcester and Middlesex Counties, Mass. 1971. Scale 1:24,000.
- GP-741 Aeromagnetic Map of the Ayer Quadrangle, Middlesex and Worcester Counties, Mass. 1971. Scale 1:24,000.
- GP-742 Aeromagnetic Map of the Westford Quadrangle, Middlesex County, Mass. 1971. Scale 1:24,000.
- GP-743 Aeromagnetic Map of the Billerica Quadrangle, Middlesex County, Mass. 1971. Scale 1:24,000.
- GP-759 Aeromagnetic Map of the Grafton Quadrangle, Worcester County, Mass. 1971. Scale 1:24,000.
- GP-760 Aeromagnetic Map of the Milford Quadrangle, Worcester and Middlesex Counties, Mass. 1971. Scale 1:24,000.
- GP-761 Aeromagnetic Map of the Holliston Quadrangle, Middlesex, Norfolk, and Worcester Counties, Mass. 1971. Scale 1:24,000.
- GP-762 Aeromagnetic Map of the Medfield Quadrangle, Norfolk and Middlesex Counties, Mass. 1971. Scale 1:24,000.
- GP-763 Aeromagnetic Map of the Norwood Quadrangle, Norfolk and Suffolk Counties, Mass. 1971. Scale 1:24,000.
- GP-764 Aeromagnetic Map of the Blue Hills Quadrangle, Norfolk and Suffolk Counties, Mass. 1971. Scale 1:24,000.
- GP-765 Aeromagnetic Map of the Weymouth Quadrangle, Norfolk and Plymouth Counties,

- Mass. 1971. Scale 1:24,000.
- GP-766 Aeromagnetic Map of part of the Cohasset Quadrangle, Plymouth and Norfolk Counties, Mass. 1971. Scale 1:24,000.
- GP-767 Aeromagnetic Map of part of the Scituate Quadrangle, Plymouth County, Mass. 1971. Scale 1:24,000.
- GP-768 Aeromagnetic Map of the Oxford Quadrangle, Massachusetts, Connecticut, and Rhode Island. 1971. Scale 1:24,000.
- GP-769 Aeromagnetic Map of the Uxbridge Quadrangle, Worcester County, Mass., and Providence County, R.I. 1971. Scale 1:24,000.
- GP-770 Aeromagnetic Map of the Blackstone Quadrangle, Worcester County, Mass., and Providence County, R.I. 1971. Scale 1:24,000.
- GP-771 Aeromagnetic Map of the Franklin Quadrangle, Norfolk and Worcester Counties, Mass., and Providence County, R.I. Scale 1:24,000.
- GP-772 Aeromagnetic Map of the Wrentham Quadrangle, Norfolk and Bristol Counties, Mass. 1971. Scale 1:24,000.
- GP-773 Aeromagnetic Map of the Mansfield Quadrangle, Norfolk and Bristol Counties, Mass. 1971. Scale 1:24,000.
- GP-774 Aeromagnetic Map of the Brockton Quadrangle, Plymouth, Bristol, and Norfolk Counties, Mass. 1971. Scale 1:24,000.
- GP-775 Aeromagnetic Map of the Whitman Quadrangle, Plymouth County, Mass. 1971. Scale 1:24,000.
- GP-776 Aeromagnetic Map of the Hanover Quadrangle, Plymouth County, Mass. 1971. Scale 1:24,000.
- GP-777 Aeromagnetic Map of part of the Duxbury Quadrangle, Plymouth County, Mass. 1971. Scale 1:24,000.
- GP-780 Aeromagnetic Map of the Pawtucket Quadrangle, Providence County, R.I., and Bristol and Norfolk Counties, Mass. 1971. Scale 1:24,000.
- GP-781 Aeromagnetic Map of the Attleboro Quadrangle, Bristol and Norfolk Counties, Mass., and Providence County, R.I. 1971. Scale 1:24,000.
- GP-782 Aeromagnetic Map of the Norton Quadrangle, Bristol County, Mass. 1971. Scale 1:24,000.
- GP-783 Aeromagnetic Map of the Taunton Quadrangle, Bristol and Plymouth Counties, Mass. 1971. Scale 1:24,000.
- GP-784 Aeromagnetic Map of the Bridgewater Quadrangle, Plymouth and Bristol Counties, Mass. 1971. Scale 1:24,000.
- GP-785 Aeromagnetic Map of the Plympton Quadrangle, Plymouth County, Mass. 1971. Scale 1:24,000.
- GP-786 Aeromagnetic Map of part of the Plymouth Quadrangle, Plymouth County, Mass.

1971. Scale 1:24,000.
- GP-787 Aeromagnetic Map of part of the Manomet Quadrangle, Plymouth County, Mass. 1971. Scale 1:24,000.
- GP-791 Aeromagnetic Map of the East Providence Quadrangle, Bristol County, Mass., and Providence and Bristol Counties, R.I. 1971. Scale 1:24,000.
- GP-792 Aeromagnetic Map of the Somerset Quadrangle, Bristol County, Mass. 1971. Scale 1:24,000.
- GP-793 Aeromagnetic Map of the Assonet Quadrangle, Bristol and Plymouth Counties, Mass. 1971. Scale 1:24,000.
- GP-794 Aeromagnetic Map of the Assawompset Pond Quadrangle, Plymouth and Bristol Counties, Mass. 1971. Scale 1:24,000.
- GP-795 Aeromagnetic Map of the Snipatuit Pond Quadrangle, Plymouth County, Mass. 1971. Scale 1:24,000.
- GP-796 Aeromagnetic Map of the Wareham Quadrangle, Plymouth and Barnstable Counties, Mass. 1971. Scale 1:24,000.
- GP-797 Aeromagnetic Map of part of the Sagamore Quadrangle, Plymouth and Barnstable Counties, Mass. 1971. Scale 1:24,000.
- GP-798 Aeromagnetic Map of part of the Fall River Quadrangle, Bristol County, Mass., and Newport and Bristol Counties, R.I. 1971. Scale 1:24,000.
- GP-799 Aeromagnetic Map of the Fall River East Quadrangle, Bristol County, Mass. 1971. Scale 1:24,000.
- GP-800 Aeromagnetic Map of the New Bedford North Quadrangle, Bristol and Plymouth Counties, Mass. 1971. Scale 1:24,000.
- GP-801 Aeromagnetic Map of the Marion Quadrangle, Plymouth and Bristol Counties, Mass. 1971. Scale 1:24,000.
- GP-802 Aeromagnetic Map of the Onset Quadrangle, Plymouth and Barnstable Counties, Mass. 1971. Scale 1:24,000.
- GP-803 Aeromagnetic Map of the Pocasset Quadrangle, Barnstable and Plymouth Counties, Mass. 1971. Scale 1:24,000.
- GP-804 Aeromagnetic Map of part of the Sandwich Quadrangle, Barnstable County, Mass. 1971. Scale 1:24,000.
- GP-805 Aeromagnetic Map of part of the Hyannis Quadrangle and vicinity, Barnstable County, Mass. 1971. Scale 1:24,000.
- GP-806 Aeromagnetic Map of part of the Dennis Quadrangle, Barnstable County, Mass. 1971. Scale 1:24,000.
- GP-807 Aeromagnetic Map of parts of the Harwich and Orleans Quadrangles, Barnstable County, Mass. 1971. Scale 1:24,000.
- GP-808 Aeromagnetic Map of parts of the Chatham and Orleans Quadrangles, Barnstable

County, Mass. 1971. Scale 1:24,000

- GP-809 Aeromagnetic Map of part of the Westport Quadrangle, Bristol County, Mass., and Newport County, R.I. 1971. Scale 1:24,000.
- GP-810 Aeromagnetic Map of the New Bedford South Quadrangle, Bristol County, Mass. 1971. Scale 1:24,000.
- GP-811 Aeromagnetic Map of the Sconticut Neck Quadrangle, Bristol, Plymouth, Dukes, and Barnstable Counties, Mass. 1971. Scale 1:24,000.
- GP-812 Aeromagnetic Map of part of the Woods Hole Quadrangle, Barnstable, Dukes, and Plymouth Counties, Mass. 1971. Scale 1:24,000.
- GP-813 Aeromagnetic Map of part of the Falmouth Quadrangle, Barnstable County, Mass. 1971. Scale 1:24,000.
- GP-814 Aeromagnetic Map of part of the Cotuit Quadrangle, Barnstable County, Mass. 1971. Scale 1:24,000.



## U.S.G.S. Geologic Quadrangle Maps

- GQ-1 Bedrock Geology of the Pawtucket Quadrangle, Rhode Island and Massachusetts, by A. W. Quinn, R. G. Ray, and W. L. Seymour. 1949. Scale 1:31,680.
- GQ-2 Surficial Geology of the Pawtucket Quadrangle, by N. E. Chute. 1949. Scale 1:31,680.
- GQ-3 Bedrock Geology of the Mt. Grace Quadrangle, Massachusetts, by J. B. Hadley. 1949. Scale 1:31,680.
- GQ-4 Surficial Geology of the Mt. Grace Quadrangle, Massachusetts, by J. B. Hadley. 1949. Scale 1:31,680.
- GQ-5 Bedrock Geology of the Brockton Quadrangle, Massachusetts, by N. E. Chute. 1950. Scale 1:31,680.
- GQ-6 Surficial Geology of the Brockton Quadrangle, Massachusetts, by N. E. Chute. 1950. Scale 1:31,680.
- GQ-8 Bedrock Geology of the Mt. Toby Quadrangle, Massachusetts, by M. E. Willard. 1951. Scale 1:31,680.
- GQ-9 Surficial Geology of the Mt. Toby Quadrangle, Massachusetts, by R. H. Jahns. 1951. Scale 1:31,680.
- GQ-20 Bedrock Geology of the Greenfield Quadrangle, Massachusetts, by M. E. Willard. 1952. Scale 1:31,680.
- GQ-21 Surficial Geology of the Ayer Quadrangle, Massachusetts, by R. H. Jahns. 1953. Scale 1:31,680.
- GQ-42 Bedrock Geology of the Bristol Quadrangle, Rhode Island and Massachusetts, by A. W. Quinn. 1954. Scale 1:31,680.
- GQ-70 Surficial Geology of the Bristol Quadrangle and vicinity, Rhode Island and Massachusetts, by J. H. Smith. 1955
- GQ-80 Surficial Geology of the Williamsburg Quadrangle, Massachusetts, by K. Segerstrom. 1955. Scale 1:31,680.
- GQ-82 Surficial Geology of the Colrain Quadrangle, Massachusetts and Vermont, by K. Segerstrom. 1955. Scale 1:31,680.
- GQ-85 Bedrock Geology of the Williamsburg Quadrangle, Massachusetts, by M. E. Willard. 1956. Scale 1:31,680.
- GQ-86 Bedrock Geology of the Colrain Quadrangle, Massachusetts and Vermont, by K. Segerstrom. 1956. Scale 1:31,680.
- GQ-87 Bedrock Geology of the Shelburne Falls Quadrangle, Massachusetts, K. Segerstrom. 1956. Scale 1:31,680.
- GQ-90 Bedrock Geology of the Massachusetts portion of the Bernardston Quadrangle, Massachusetts and Vermont, by R. Balk. 1956. Scale 1:31,680.

- GQ-92 Bedrock Geology of the Massachusetts portion of the Northfield Quadrangle, Massachusetts, New Hampshire, and Vermont, by R. Balk. 1956. Scale 1:31,680.
- GQ-93 Bedrock Geology of the Millers Falls Quadrangle, Massachusetts, by R. Balk. 1956. Scale 1:31,680.
- GQ-107 Surficial Geology of the Lawrence Quadrangle, Massachusetts and New Hampshire, by R. O. Castle. 1958. Scale 1:31,680.
- GQ-108 Bedrock Geology of the Cheshire Quadrangle, Massachusetts, by N. Herz. 1958. Scale 1:31,680.
- GQ-116 Surficial Geology of the Shelburne Falls Quadrangle, Massachusetts, by K. Segerstrom. 1959. Scale 1:31,680.
- GQ-122 Surficial Geology of the Wilmington Quadrangle, Massachusetts, by R. O. Castle. 1956. Scale 1:31,680.
- GQ-127 Geology of the Bridgewater Quadrangle, Massachusetts, by J. H. Hartshorn. 1960. Scale 1:24,000.
- GQ-139 Bedrock Geology of the North Adams Quadrangle, Massachusetts and Vermont, by N. Herz. 1961. Scale 1:24,000.
- GQ-168 Surficial Geology of the Reading Quadrangle, Massachusetts, by R. N. Oldale. 1962. Scale 1:24,000.
- GQ-189 Surficial Geology of the Ipswich Quadrangle, Massachusetts, by E. A. Sammel. 1963. Scale 1:24,000.
- GQ-265 Geology of the Assawompset Pond Quadrangle, Massachusetts, by C. Koteff. 1964. Scale 1:24,000.
- GQ-271 Surficial Geology of the Salem Quadrangle, Massachusetts, by R. N. Oldale. 1964. Scale 1:24,000.
- GQ-331 Surficial Geology of the Concord Quadrangle, Massachusetts, by C. Koteff. 1964. Scale 1:24,000.
- GQ-370 Bedrock Geologic Map of the Tariffville Quadrangle, Hartford County, Connecticut, and Hampden County, Massachusetts, by R. W. Schnabel and J. H. Eric. 1965. Scale 1:24,000.
- GQ-463 Surficial Geologic Map of the Blue Hills Quadrangle, Norfolk, Suffolk and Plymouth Counties, Massachusetts, by N. E. Chute. 1965. Scale 1:24,000.
- GQ-466 Geologic Map of the Duxbury Quadrangle, Plymouth County, Massachusetts, by N. E. Chute. 1965. Scale 1:24,000.
- GQ-467 Geologic Map of the Scituate Quadrangle, Plymouth County, Massachusetts, by N. E. Chute. 1965. Scale 1:24,000.
- GQ-474 Surficial Geologic Map of the Greenfield Quadrangle, Franklin County, Massachusetts, by R. H. Jahns. 1966. Scale 1:24,000. Accompanied by a four page text.
- GQ-507 Geologic Map of the Bashbish Falls Quadrangle, Massachusetts Connecticut, and New York, by E-an Zen and J. H. Hartshorn. 1966. Scale 1:24,000.

- GQ-537 Bedrock Geologic Map of the West Springfield Quadrangle, Massachusetts and Connecticut, by R. B. Colton and J. H. Hartshorn. 1966. Scale 1:24,000.
- GQ-567 Surficial Geologic Map of the Clinton Quadrangle, Worcester County, Massachusetts, by C. Koteff. 1966. Scale 1:24,000.
- GQ-599 Geologic Map of the North Truro Quadrangle, Barnstable County, Massachusetts, by C. Koteff, R. N. Oldale, and J. H. Hartshorn. 1967. Scale 1:24,000.
- GQ-632 Surficial Geologic Map of the Whitman Quadrangle, Plymouth County, Massachusetts, by C. E. Shaw, Jr. and R. O. Petersen. 1967. Scale 1:24,000.
- GQ-633 Surficial Geologic Map of the Hanover Quadrangle, Plymouth County, Massachusetts, by C. E. Shaw, Jr. and R. O. Petersen. 1967. Scale 1:24,000.
- GQ-642 Geologic Map of the Rowe Quadrangle, Franklin and Berkshire Counties, Massachusetts, and Bennington and Windham Counties, Vermont, by A. H. Chidester, N. L. Hatch, Jr., P. H. Osberg, S. A. Norton, and J. H. Hartshorn. 1967. Scale 1:24,000.
- GQ-678 Geologic Map of the Springfield South Quadrangle, Hampden County, Massachusetts, and Hartford and Tolland Counties, Connecticut, by J. H. Hartshorn and C. Koteff. 1967. Scale 1:24,000. Accompanied by a four page text.
- GQ-735 Geologic Map of the Heath Quadrangle, Massachusetts and Vermont, by N. L. Hatch, Jr. and J. H. Hartshorn. 1968. Scale 1:24,000.
- GQ-750 Geologic Map of the Wellfleet Quadrangle, Barnstable County, Cape Cod, Massachusetts, by R. N. Oldale. 1968. Scale 1:24,000.
- GQ-786 Geologic Map of the Harwich Quadrangle, Barnstable County, Massachusetts, by R. N. Oldale. 1969. Scale 1:24,000.
- GQ-787 Geologic Map of the Monomoy Point Quadrangle, Barnstable County, Massachusetts, by C. Koteff, R. N. Oldale, and J. H. Hartshorn. 1968. Scale 1:24,000.
- GQ-794 Surficial Geologic Map of the Shrewsbury Quadrangle. Worcester County, Massachusetts, by C. E. Shaw, Jr. 1969. Scale 1:24,000.
- GQ-796 Bedrock Geologic Map of the Blue Hills Quadrangle, Norfolk, Suffolk, and Plymouth Counties, Massachusetts, by N. E. Chute. 1969. Scale 1:24,000.
- GQ-798 Surficial Geologic Map of the Tariffville Quadrangle, Connecticut and Massachusetts, by A. D. Randall. 1970. Scale 1:24,000.
- GQ-850 Surficial Geologic Map of the Georgetown Quadrangle, Essex County, Massachusetts, by N. P. Cuppels. 1969. Scale 1:24,000.
- GQ-857 Geologic Map of the Worthington Quadrangle, Hampshire and Berkshire Counties, Massachusetts, by N. L. Hatch, Jr. 1969. Scale 1:24,000.
- GQ-858 Geologic Map of the Chester Quadrangle, Hampden and Hampshire Counties, Massachusetts, by N. L. Hatch, Jr., S. A. Norton, and R. G. Clark, Jr. 1970. Scale 1:24,000.

- GQ-877 Geologic Map of the Plainfield Quadrangle, Franklin, Hampshire, and Berkshire Counties, Massachusetts, by P. H. Osberg, N. L. Hatch, Jr., and S. A. Norton. 1971. Scale 1:24,000.
- GQ-891 Surficial Geologic Map of the Southwick Quadrangle, Massachusetts and Connecticut, by R. W. Schnabel. 1971. Scale 1:24,000.
- GQ-892 Surficial Geologic Map of the West Springfield Quadrangle, Massachusetts and Connecticut, by R. B. Colton and J. H. Hartshorn. 1971. Scale 1:24,000.
- GQ-911 Geologic Map of the Chatham Quadrangle, Barnstable County, Cape Cod, Massachusetts, by R. N. Oldale and C. Koteff. 1970. Scale 1:24,000.
- GQ-931 Geologic Map of the Orleans Quadrangle, Barnstable County, Cape Cod, Massachusetts, by R. N. Oldale, C. Koteff, and J. H. Hartshorn. 1971. Scale 1:24,000.
- GQ-936 Surficial Geologic Map of the Ashley Falls Quadrangle, Massachusetts and Connecticut, by G. W. Holmes and W. S. Newman. 1971. Scale 1:24,000.
- GQ-1114 Geologic Map of the Dennis Quadrangle, Barnstable County, Cape Cod, Massachusetts, by R. N. Oldale. 1974. Scale 1:24,000.
- GQ-1118 Surficial Geologic Map of the Pepperell Quadrangle, Middlesex County, Massachusetts, and Hillsborough County, New Hampshire, by C. Koteff and R. P. Volckmann. 1973. Scale 1:24,000.
- GQ-1141 Bedrock Geologic Map of the Great Barrington Quadrangle, Berkshire County, Massachusetts, by N. M. Ratcliffe. 1974. Scale 1:24,000.
- GQ-1142 Bedrock Geologic Map of the State Line Quadrangle, Columbia County, New York, and Berkshire County, Massachusetts, by N. M. Ratcliffe. 1974. Scale 1:24,000.
- GQ-1143 Bedrock Geologic Map of the Stockbridge Quadrangle, Berkshire County, Massachusetts, by N. M. Ratcliffe. 1974. Scale 1:24,000.
- GQ-1151 Surficial Geologic Map of the Natick Quadrangle, Middlesex and Norfolk Counties, Massachusetts, by A. E. Nelson. 1974. Scale 1:24,000.
- GQ-1158 Geologic Map of the Hyannis Quadrangle, Barnstable County, Cape Cod, Massachusetts, by R. N. Oldale. 1974. Scale 1:24,000.
- GQ-1170 Bedrock Geologic Map of the Southwick Quadrangle, Massachusetts and Connecticut, by R. W. Schnabel. 1974. Scale 1:24,000.
- GQ-1176 Surficial Geologic Map of the Framingham Quadrangle, Middlesex and Worcester Counties, Massachusetts, by A. E. Nelson. 1974. Scale 1:24,000.
- GQ-1208 Bedrock Geologic Map of the Natick Quadrangle, Middlesex and Norfolk Counties, Massachusetts, by A. E. Nelson. 1975. Scale 1:24,000.
- GQ-1213 Geologic Map of the Cotuit Quadrangle, Barnstable County, Cape Cod, Massachusetts, by R. N. Oldale. 1975. Scale 1:24,000.
- GQ-1217 Surficial Geologic Map of the Holliston Quadrangle, Middlesex, Norfolk, and Worcester Counties, Massachusetts, by R. P. Volckmann. 1975. Scale 1:24,000.

- GQ-1218 Surficial Geologic Map of the Medfield Quadrangle, Norfolk and Middlesex Counties, Massachusetts, by R. P. Volckmann. 1975. Scale 1:24,000.
- GQ-1222 Geologic Map of the Sandwich Quadrangle, Barnstable County, Cape Cod, Massachusetts, by R. N. Oldale. 1975. Scale 1:24,000.
- GQ-1274 Bedrock Geologic Map of the Framingham Quadrangle, Middlesex and Worcester Counties, Massachusetts, by A. E. Nelson. 1975. Scale 1:24,000.
- GQ-1312 Geologic Map of the Blandford Quadrangle, Hampden and Hampshire Counties, Massachusetts, by N. L. Hatch, Jr. and R. S. Stanley. 1976. Scale 1:24,000.
- GQ-1320 Bedrock Geologic Map of the Wales Quadrangle, Massachusetts and Connecticut, by V. M. Seiders. 1976. Scale 1:24,000.
- GQ-1353 Bedrock Geologic Map of the Ludlow Quadrangle, Hampden and Hampshire Counties, south-central Massachusetts, by G. W. Leo, P. Robinson, and D. J. Hall. 1977. Scale 1:24,000.
- GQ-1357 Surficial Geologic Map of the Warren Quadrangle, Worcester, Hampden, and Hampshire Counties, Massachusetts by J. S. Pomeroy. 1977. Scale 1:24,000.
- GQ-1358 Bedrock Geologic Map of the Warren Quadrangle, Worcester, Hampden, and Hampshire Counties, south-central Massachusetts, by J. S. Pomeroy. 1977. Scale 1:24,000.
- GQ-1368 Bedrock Geologic Map of the Hampden Quadrangle, Massachusetts and Connecticut, by J. D. Peper. 1977. Scale 1:24,000. (Supersedes OF-74-61).
- GQ-1374 Bedrock Geologic Map of the Monson Quadrangle, Massachusetts and Connecticut, by J. D. Peper. 1977. Scale 1:24,000.
- GQ-1429 Surficial Geologic Map of the Monson Quadrangle, Massachusetts and Connecticut, by J. D. Peper. 1977. Scale 1:24,000.
- GQ-1440 Surficial Geologic Map of the Northfield Quadrangle, Massachusetts, New Hampshire, and Vermont, by K. J. Campbell and J. H. Hartshorn. 1980. Scale 1:24,000.
- GQ-1465 Surficial Geologic Map of the Palmer Quadrangle, south-central Massachusetts, by J. D. Peper. 1978. Scale 1:24,000.
- GQ-1519 Geologic Map of the South Sandisfield Quadrangle, Massachusetts and Connecticut, by D. S. Harwood. 1979. Scale 1:24,000.
- GQ-1544 Surficial Geologic Map of the Hampden Quadrangle, Massachusetts and Connecticut, by C. T. Hildreth and R. B. Colton. 1982. Scale 1:24,000.
- GQ-1561 Geologic Map of the Goshen Quadrangle, Franklin and Hampshire Counties, Massachusetts, by N. L. Hatch, Jr. and C. R. Warren. 1981. Scale 1:24,000.
- GQ-1565 Bedrock Geologic Map of the Woronoco Quadrangle, Hampden and Hampshire Counties, Massachusetts, by R. S. Stanley, S. F. Clark, Jr., and N. L. Hatch, Jr. 1982. Scale 1:24,000.
- GQ-1572 Bedrock Geologic Map of the Monterey Quadrangle, Berkshire County, Massachusetts, by N. M. Ratcliffe. 1984. Scale 1:24,000.

- GQ-1573 Bedrock Geologic Map of the East Lee Quadrangle, Berkshire County, Massachusetts, by N. M. Ratcliffe. 1984. Scale 1:24,000.
- GQ-1574 Bedrock Geologic Map of the Pittsfield East Quadrangle, Berkshire County, Massachusetts, by N. M. Ratcliffe. 1984. Scale 1:24,000.
- GQ-1640 Bedrock Geologic Map of the Westhampton Quadrangle, Hampshire County, Massachusetts, by Stewart F. Clark, Jr. 1987. Scale 1:24,000.
- GQ-1693 Bedrock Geologic Map of the Marblehead North Quadrangle, Essex County, Massachusetts, by W.H. Dennen. 1991. Scale 1:24,000

U.S.G.S. Hydrologic Investigations Atlases

- HA-196 Synopsis of Water Resources of the Ipswich River Basin, Massachusetts, by E. A. Sammel, R. A. Brackley, and W. N. Palmquist, Jr. 1964.
- HA-247 Water Resources of the Parker and Rowley River Basins, Massachusetts, by E. A. Sammel. 1967.
- HA-249 Groundwater Favorability of the Connecticut River Basin, New England States, by D. J. Cederstrom and A. L. Hodges, Jr. 1967. (Superseded by HA 293 and HA-716)
- HA-275 Water Resources of the Coastal Drainage Basins of Southeastern Massachusetts, Westport River, Westport to Seekonk, by R. E. Willey, J. R. Williams, and G. D. Tasker. 1978. (Supersedes OF-76-417).
- HA-276 Water Resources of the Nashua and Souhegan River Basins, Massachusetts, by R. A. Brackley and B. P. Hansen. 1977. (Supersedes OF-76-461).
- HA-281 Hydrology and Water Resources of the Housatonic River Basin, Massachusetts, by R. F. Norvitch, D. F. Farrell, F. H. Pauszek, and R. G. Petersen. 1968.
- HA-293 Water Resources of the Millers River Basin North-Central Massachusetts and Southwestern New Hampshire, by M. R. Collings, D. R. Wiesnet, and W. B. Fleck. 1969.(Supersedes HA-249)
- HA-300 Availability of Groundwater in the Northern Part, Ten Mile and Taunton River Basins, Southeastern Massachusetts, by J. R. Williams. 1968.
- HA-312 Water Resources of the Assabet River Basin, Central Massachusetts, by S. J. Pollock, D. F. Farrell, and W. W. Caswell. 1969. (Superceded by HA- 662)
- HA-371 Flood of March 1968 on the Sudbury, Assabet, and Concord Rivers, Massachusetts, by R. G. Petersen, G. K. Wood and R. A. Gadoury. 1970.
- HA-419 Flood of March 1968 on the Charles River, Massachusetts, by L. A. Swallow, R. G. Petersen, and G. H. Searles. 1971.
- HA-460 Water Resources of the Taunton River Basin, Southeastern Massachusetts, by J. R. Williams, D. F. Farrell, and R. E. Willey. 1973.
- HA-481 Hydrology and Water Resources of the Hoosic River Basin, Massachusetts, by B. P. Hansen, L. G. Toler, and F. B. Gay. 1973.
- HA-482 Flood of March 1968 on the Ipswich River, Massachusetts, by L. A. Swallow and D. J. Fogarty. 1973.
- HA-484 Hydrology and Water Resources of the Neponset and Weymouth River Basins, Massachusetts, by R. A. Brackley, W. B. Fleck, and W. R. Meyer. 1973.
- HA-500 Flood of March 1968 on the Neponset River, Massachusetts, by L. A. Swallow and G. K. Wood. 1973.
- HA-504 Water Resources of the Coastal Drainage Basins of Southeastern Massachusetts Weir River, Hingham to Jones River, Kingston, by J. R. Williams and G. D. Tasker. 1974.
- HA-506 Hydrology and Water Resources of the Deerfield River Basin, Massachusetts, by F.

B. Gay, L. G. Toler, and B. P. Hansen. 1974.

- HA-507 Water Resources of the Coastal Drainage Basins of Southeastern Massachusetts, Plymouth to Weweantic River, Wareham, by J. R. Williams and G. D. Tasker. 1974.
- HA-513 Groundwater Levels on Boston Peninsula, Massachusetts, by J. E. Cotton and D. F. Delaney. 1975.
- HA-554 Hydrology and Water Resources of the Charles River Basin, Massachusetts, by E. H. Walker, S. W. Wandle, Jr., and W. W. Caswell. 1975. (Supersedes OF-74-241).
- HA-560 Water Resources of the Coastal Drainage Basins of Southeastern Massachusetts, Northwest Shore of Buzzards Bay, by J. R. Williams and G. D. Tasker. 1978. (Supersedes OF-75-651).
- HA-562 Streamflow and Water Quality in the Connecticut River Lowlands, Massachusetts, by S. W. Wandle, Jr. and W. W. Caswell. 1977.
- HA-563 Groundwater Availability in the Connecticut River Lowlands, Massachusetts, by E. H. Walker and W. W. Caswell. 1977. (Supersedes OF-76-101).
- HA-589 Hydrology and Water Resources of the Coastal Drainage Basins of Northeastern Massachusetts, from Castle Neck River, Ipswich, to Mystic River, Boston, by D. F. Delaney and F. B. Gay. 1980. (Supersedes OF-77-578).
- HA-614 Hydrology and Water Resources of the Shawsheen River Basin, Massachusetts, by F. B. Gay and D. F. Delaney. 1980. (Supersedes OF-79-344).
- HA-615 Water Resources of Nantucket Island, Massachusetts, by E. H. Walker. 1980. (Supersedes OF-79-558).
- HA-616 Hydrology and Water Resources of the Lower Merrimack River Basin, Massachusetts, from Concord River, Lowell, to Plum Island, Newburyport, by F. B. Gay and D. F. Delaney. 1980. (Supersedes OF-79-557).
- HA-618 Groundwater Hydrology of Martha's Vineyard, Massachusetts, by D. F. Delaney. 1980. (Supersedes OF-79-917).
- HA-662 Hydrology and Water Resources of Tributary Basins to the Merrimack River from Salmon Brook to the Concord River, Massachusetts, by R. A. Brackley and B. P. Hansen. 1985. (Supersedes Open-File Report 82-441 and HA-312).
- HA-682 Water Resources of the Blackstone River Basin, Massachusetts, by E.H. Walker and B.E. Krejmas, 1986. (Supersedes portion of MP-4)
- HA-692 Groundwater Resources of Cape Cod, Massachusetts, by Denis R. LeBlanc, John H. Guswa, Michael H. Frimpter, and Clark Londquist, 1986
- HA-693 Water Resources of the Chicopee River Basin, Massachusetts, by Bruce E. Krejmas and Anthony Maevsky. 1986. (Supersedes portion of MP-4)
- HA-700 Water Resources in the French-Quinebaug Rivers Basin, Massachusetts, by V.A. Eames and V.J. Epstein. 1988. (Superseded portion of MP-4)
- HA-716 Water Resources of the Westfield and Farmington River Basins, Massachusetts, by Anthony Maevsky and David G. Johnson. 1990. (Supersedes portion of HA-249)



## U.S.G.S. Hydrologic Data Reports

- HD-1      Wilmington-Reading Area, by John A. Baker and Edward A. Sammel, 1961, 50 p., 2 figs. Covers an area of about 43 square miles in the upper part of the Ipswich River basin in northeastern Massachusetts.
- HD-2      Lower Ipswich River Basin, by Edward A. Sammel and John A. Baker, 1962, 47 p., 2 figs. Covers an area of about 110 square miles in northeastern Massachusetts. (OF-61-31).
- HD-3      Lowell Area, by John A. Baker and Richard G. Petersen, 1962, 28 p., 2 figs. Covers an area of about 115 square miles and includes most of the metropolitan area of the City of Lowell.
- HD-4      Parker and Rowley River Basins, by Edward A. Sammel, 1962, 33 p., 2 figs. The rivers drain an area of about 77 square miles in northeastern Massachusetts.
- HD-5      Brockton-Pembroke Area, by Richard G. Petersen, 1962, 46 p., 2 figs. Covers an area of about 112 square miles in the northern part of Plymouth County.
- HD-6      Western Massachusetts, by Richard G. Petersen and Anthony Maevsky, 1962, 21 p., 1 fig. Covers an area of about 2,865 square miles and includes all of Berkshire, Franklin, Hampshire, and Hampden Counties.
- HD-7      Southeastern Massachusetts, by Anthony Maevsky and Janet A. Drake, 1963, 55 p., 2 figs. Covers an area of about 1,930 square miles and includes all of Barnstable, Bristol, Dukes, Nantucket, and Plymouth Counties exclusive of the Brockton-Pembroke area. (OF-63-87).
- HD-8      Assabet River Basin, by Samuel J. Pollock and William B. Fleck, 1964, 45 p., 1 pl. Covers an area of about 177 square miles and includes parts of Middlesex and Worcester Counties. (OF-65-125).
- HD-9      Housatonic River Basin, by Ralph F. Norvitch and Mary E.S. Lamb, 1966, 50 p., 1 pl. Covers an area of about 530 square miles in the upper part of the basin which is north of the Connecticut- Massachusetts state line. (OF-66-93).
- HD-10     Northern Part, Tenmile and Taunton River Basins, by John R. Williams and Richard E. Willey, 1967, 56 p., 1 pl., 1 fig. Covers an area of about 195 square miles within Bristol, Norfolk, and Plymouth Counties.
- HD-11     Millers River Basin, by Donald R. Wiesnet and William B. Fleck, 1967, 29 p., 1 pl., 1 fig. Covers an area of about 392 square miles within Franklin and Worcester Counties, Massachusetts, and Hillsborough and Cheshire Counties, New Hampshire.
- HD-12     Taunton River Basin, by John R. Williams and Richard E. Willey, 1970, 102 p., 1 pl., 1 fig. Covers an area of about 528 square miles in Bristol, Norfolk, and Plymouth Counties.
- HD-13     Deerfield River Basin, by Bruce P. Hansen, Frederick B. Gay, and L. G. Toler, 1973, 59 p., 1 pl., 1 fig. Covers an area of about 348 square miles in northwestern Massachusetts.
- HD-14     Neponset and Weymouth River Basins, by R. A. Brackley, William B. Fleck, and Richard E. Willey, 1973, 51 p., 1 pl., 1 fig. Covers an area of about 183 square miles

in eastern Massachusetts south of Boston.

- HD-15 Hoosic River Basin, by Bruce P. Hansen, Frederick B. Gay, and L. G. Toler, 1974, 33 p., 1 pl., 1 fig. Covers an area of about 164 square miles in northwestern Massachusetts. (OF-74-368).
- HD-16 Weir River, Hingham, to Jones River, Kingston, by John R. Williams, Richard E. Willey, and Gary D. Tasker, 1975, 63 p., 1 pl., 1 fig. Principal basins covered are those of Weir River, James Brook, Bound Brook, North River, South River, and Jones River.
- HD-18 Plymouth to Weweantic River, Wareham, by John R. Williams, Gary D. Tasker, and Richard E. Willey, 1977, 31 p., 1 pl. Principal basins are Town Brook, Eel River, and Beaver Dam Brook, all draining to Cape Cod Bay; Herring Brook draining to the Cape Cod Canal; and Red Brook, Agawam River, Wankinco River, and Weweantic River, all draining to Buzzards Bay. (OF-77-186).
- HD-19 Charles River Basin, Eugene H. Walker, William W. Caswell, and S. William Wandle, Jr., 1977, 53 p., 1 pl., 1 fig. Covers an area of about 300 square miles of eastern and southeastern Massachusetts within the counties of Middlesex, Norfolk, Suffolk, and Worcester.
- HD-20 Northwest Shore of Buzzards Bay, by John R. Williams, Richard E. Willey, and Gary D. Tasker, 1980, 30 p., 1 pl. Principal drainage basins are Sipican River, Aucoat Brook, Mattapoissett River, Acushnet River, and Paskamansett River. (OF-80-583).
- HD-21 Castle Neck River, Ipswich, to Mystic River, Boston, by David F. Delaney and Frederick B. Gay, 1980, 40 p., 1 pl. Principal streams are the Annisquam, Castle Neck, Danvers, Essex, Mystic, and Saugus Rivers, which flow into Ipswich and Massachusetts Bays. (OF-80-1017).
- HD-22 Shawsheen River Basin, by Frederick B. Gay and David F. Delaney, 1981, 22 p., 1 pl. Covers an area of about 77 square miles northwest of metropolitan Boston. (OF-81-802).
- HD-23 Lake Cochituate Drainage Basin Framingham-Natick, by Frederick B. Gay, 1981, 61 p., 1 pl., 1 fig. Covers an area of about 18 square miles west of metropolitan Boston. (OF-82-342).
- HD-24 Lower Merrimack River Basin from Concord River, Lowell to Plum Island, Newburyport, by David F. Delaney and Frederick B. Gay, 1981, 34 p., 1 pl. Covers an area of about 180 square miles in northeastern Massachusetts. (OF-81-1185).
- HD-25 Narragansett Bay and Rhode Island Sound, by Richard E. Willey, John R. Williams, and Gary D. Tasker, 1983, 42 p., 1 pl. Principal streams are East and West Branches of the Westport River, and the Lee, Cole, Kickamuit, Palmer, and Runnins River. (OF-83-145).
- HD-26 Groundwater and Pond Levels, Cape Cod, Massachusetts 1950-1982, by D. F. Letty, 1984, 81 p. (OF-84-719).
- HD-27 Nashua and Souhegan River Basins, Massachusetts, by Bruce P. Hansen, R.A. Brackley, and Virginia de Lima, 1989, 73 p., 1 pl. Covers an area of about 454 square miles. (OF-87-221)

U.S.G.S. Miscellaneous Geologic Investigations Maps

- I-628 Bedrock Geologic Map of the Egremont Quadrangle and Adjacent Areas, Berkshire County, Massachusetts and Columbia County, New York, by E-an Zen and N. M. Ratcliffe. 1971.
- I-742 Bedrock Topography and Texture of Unconsolidated Deposits, Taunton River basin, southeastern Massachusetts, by J. R. Williams and R. E. Willey. 1973.
- I-1053 Bedrock Geologic Map of the Holliston and Medfield Quadrangles, Middlesex, Norfolk, and Worcester Counties, Massachusetts, by R. P. Volckmann. 1977. Scale 1:48,000.
- I-1074-B Map Showing Textures of Unconsolidated Materials, Connecticut Valley Urban Area, Central New England, by J. R. Stone, E. H. London, and W. H. Langer. 1978.
- I-1074-C Map Showing Distribution and Thickness of the Principal Fine-Grained Deposits, Connecticut Valley Urban Area, Central New England, by W. H. Langer. 1979. Scale 1:125,000
- I-1074-F Slope Map, Connecticut Valley Urban Area, Central New England. 1979. Scale 1:125,000.
- I-1074-G Mean Annual Runoff and Major Drainage Basins in the Connecticut Valley Urban Area, Central New England, by R. A. Brackley and M. P. Thomas. 1978.
- I-1074-H Map Showing Estimated 7-Day, 10-Year Low Flow of Streams in the Connecticut Valley Urban Area, Central New England, by R. A. Brackley and M. P. Thomas. 1979. Scale 1:125,000.
- I-1074-I Groundwater Availability in the North Part of the Connecticut Valley Urban Area, Central New England, by M. H. Frimpter. 1980.
- I-1158 Surficial Geologic Map of the Worcester North Quadrangle and Part of the Paxton Quadrangle, Worcester County, Massachusetts, by B. D. Stone. 1980. Scale 1:24,000.
- I-1580 Geologic Map of Nantucket and Nearby Islands, Massachusetts, by R. N. Oldale. 1985. Scale 1:48,000.
- I-1763 Geologic Map of Cape Cod and the Islands, by Robert N. Oldale and Roger A. Barlow. 1986. Scale 1:100,000.
- I-2285 Bedrock Geologic Map of the Gloucester and Rockport Quadrangles, Essex County, Massachusetts, by William H. Dennen. 1992. Scale 1:24,000.
- I-2369 Bedrock Geologic Map of the Williamstown and North Adams Quadrangles, Massachusetts and Vermont, and Part of the Cheshire Quadrangle, Massachusetts, by Nicholas M. Ratcliffe, Donald B. Potter, and Rolfe S. Stanley. 1993. Scale 1:24,000.

## U.S.G.S. Miscellaneous Field Studies Maps

- MF-486-A Contour Map of the Bedrock Surface, Hampden Quadrangle, Massachusetts-Connecticut, by C. J. Londquist. 1973. Scale 1:24,000.
- MF-486-B Depth of Bedrock, Hampden Quadrangle, Massachusetts-Connecticut, by C. J. Londquist. 1973. Scale 1:24,000.
- MF-486-C Map Showing Drainage Areas, Hampden Quadrangle, Massachusetts-Connecticut, by C. J. Londquist and M. P. Thomas. 1974. Scale 1:24,000.
- MF-503-A Contour Map of the Bedrock Surface, Ludlow Quadrangle, Massachusetts, by C. J. Londquist. 1973. Scale 1:24,000
- MF-503-B Map Showing Depth to Bedrock, Ludlow Quadrangle, Massachusetts, by C. J. Londquist and G. W. Leo. 1974. Scale 1:24,000.
- MF-503-C Map Showing Unconsolidated Materials, Ludlow Quadrangle, Massachusetts, by G. W. Leo. 1974. Scale 1:24,000.
- MF-503-D Map Showing Drainage Areas, Ludlow Quadrangle, Massachusetts, by C. J. Londquist. 1975. Scale 1:24,000.
- MF-504-A Contour Map of the Bedrock Surface, Mount Tom Quadrangle, Massachusetts, by C. J. Londquist. 1973. Scale 1:24,000.
- MF-504-B Map Showing Drainage Areas, Mount Tom Quadrangle, Massachusetts, by C. J. Londquist. 1975. Scale 1:24,000.
- MF-504-C Depth to Bedrock, Mount Tom Quadrangle, Massachusetts, by C. J. Londquist and F. D. Larsen. 1976. Scale 1:24,000.
- MF-509-A Map Showing Unconsolidated Materials, Springfield South Quadrangle, Massachusetts-Connecticut, by C. Koteff. 1973. Scale 1:24,000. 2 sheets.
- MF-509-B Map Showing Resources of Coarse Aggregate, Springfield South Quadrangle, Massachusetts-Connecticut, by C. Koteff. 1973. Scale 1:24,000.
- MF-512-A Map Showing Unconsolidated Materials, Tariffville Quadrangle, Connecticut-Massachusetts, by F. Pessl, Jr. 1973. Scale 1:24,000. 2 sheets.
- MF-512-B Map Showing Resources of Coarse Aggregate, Tariffville Quadrangle, Connecticut-Massachusetts, by F. Pessl, Jr. 1973. Scale 1:24,000.
- MF-512-C Contour Map of the Bedrock Surface, Tariffville Quadrangle, Connecticut-Massachusetts, by E.H. Handman. 1974. Scale 1:24,000.
- MF-534 Map Showing Changes in Shoreline of Martha's Vineyard, Massachusetts, During the Past 200 years, by C. A. Kaye. 1973. Scale 1:48,000.
- MF-541-A Contour Map of the Bedrock Surface, Warren Quadrangle, Massachusetts, by C. J. Londquist. 1973. Scale 1:24,000.
- MF-541-B Map Showing Unconsolidated Materials, Warren Quadrangle, Massachusetts, by J. S. Pomeroy. 1973. Scale 1:24,000.
- MF-541-C Map Showing Resources of Coarse Aggregate, Warren Quadrangle, Massachusetts,

- by J. S. Pomeroy. 1973. Scale 1:24,000.
- MF-541-D Map Showing Depth to Bedrock, Warren Quadrangle, Massachusetts, by C. J. Londquist and J. S. Pomeroy. 1974. Scale 1:24,000.
- MF-541-E Map Showing Availability of Groundwater, Warren Quadrangle, Massachusetts, by C. J. Londquist. 1974. Scale 1:24,000.
- MF-541-F Map Showing Drainage Areas, Warren Quadrangle, Massachusetts, by C. J. Londquist. 1974. Scale 1:24,000.
- MF-572-A Map Showing Depth to Bedrock, Colrain Quadrangle, Massachusetts- Vermont, by C. J. Londquist. 1974. Scale 1:24,000.
- MF-589-A Map Showing Depth to Bedrock, Williamsburg Quadrangle, Massachusetts, by C. J. Londquist. 1974. Scale 1:24,000.
- MF-591-A Map Showing Depth to Bedrock, Shelburne Falls Quadrangle, Massachusetts, by C. J. Londquist. 1974. Scale 1:24,000.
- MF-605-A Map Showing Unconsolidated Materials, Northfield Quadrangle, Massachusetts-New Hampshire-Vermont, by K. J. Campbell. 1974. Scale 1:24,000.
- MF-606-A Map Showing Unconsolidated Materials, Southwick Quadrangle, Massachusetts-Connecticut, by R. W. Schnabel. 1974. Scale 1:24,000.
- MF-621-A Contour Map of the Bedrock Surface, Mt. Toby Quadrangle, Massachusetts, by C. J. Londquist. 1974. Scale 1:24,000.
- MF-629-A Contour Map of the Bedrock Surface, Greenfield Quadrangle, Massachusetts, by C. J. Londquist and B. P. Hansen. 1974. Scale 1:24,000.
- MF-629-B Map Showing Depth to Bedrock, Greenfield Quadrangle, Massachusetts, by C. J. Londquist. 1975. Scale 1:24,000.
- MF-640-A Contour Map of the Bedrock Surface, Mt. Holyoke Quadrangle, Massachusetts, by C. J. Londquist. 1975. Scale 1:24,000.
- MF-640-B Depth to Bedrock Mt. Holyoke Quadrangle, Massachusetts, by C. J. Londquist. 1976. Scale 1:24,000.
- MF-653-A Map Showing Drainage Areas, West Springfield Quadrangle, Massachusetts-Connecticut, by C. J. Londquist and M. P. Thomas. 1975. Scale 1:24,000.
- MF-662-A Map Showing Depth to Bedrock, Worthington Quadrangle, Massachusetts, by C. J. Londquist. 1975. Scale 1:24,000.
- MF-663-A Map Showing Depth to Bedrock, Heath Quadrangle, Massachusetts- Vermont, by C. J. Londquist. 1975. Scale 1:24,000.
- MF-664-A Map Showing Depth to Bedrock, Plainfield Quadrangle, Massachusetts, by C. J. Londquist. 1975. Scale 1:24,000.
- MF-667-A Map Showing Depth to Bedrock, Chester Quadrangle, Massachusetts, by C. J. Londquist. 1975. Scale 1:24,000.

- MF-734-A Map Showing Unconsolidated Materials, Monson Quadrangle, Massachusetts-Connecticut, by J. D. Peper. 1976. Scale 1:24,000.
- MF-855 Reconnaissance Bedrock Geologic Map of the Ashfield Quadrangle, Franklin County, Massachusetts, by N. L. Hatch, Jr. 1981. Scale 1:24,000.
- MF-889 Preliminary Geologic Maps, Buzzards Bay, Massachusetts, by J. M. Robb and R. N. Oldale. 1977. Scale 1:100,000.
- MF-911-A Map Showing Unconsolidated Materials, Palmer Quadrangle, Massachusetts, by J. D. Peper. 1977. Scale 1:24,000.
- MF-925 Map Showing Sand and Gravel Resources of the Webster Quadrangle, Worcester County, Massachusetts and Windham County, Connecticut, by P. J. Barosh. 1978. Scale 1:24,000.
- MF-957 Bedrock Geologic Map of the Pepperell, Shirley, Townsend Quadrangles and Part of the Ayer Quadrangle, Massachusetts and New Hampshire, by G. R. Robinson, Jr. 1978. Scale 1:24,000.
- MF-959 Reconnaissance Bedrock Geology Map of the Fitchburg Quadrangle and Part of the Ashby Quadrangle, Northeast-Central Massachusetts, by J. D. Peper and F. A. Wilson. 1978. Scale 1:24,000.
- MF-980 Reconnaissance Bedrock Geologic Map of the Pittsfield West Quadrangle and Part of the Canaan Quadrangle, Berkshire County, Massachusetts, and Columbia County, New York, by N. M. Ratcliffe. 1978. Scale 1:24,000.
- MF-1016 Deglaciation Ice Fronts in the South Sandisfield and Ashley Falls Quadrangles, Massachusetts and Connecticut, by C. R. Warren. 1978. Scale 1:24,000.
- MF-1186 Geology and Shallow Structure, Eastern Rhode Island, and Vineyard Sound, Massachusetts, by Charles J. O'Hara and Robert N. Oldale. 1980. 5 sheets.
- MF-1241 Bedrock Geologic Maps of the Boston North, Boston South, and Newton Quadrangles, Massachusetts, by C. A. Kaye. 1980. Scale 1:24,000.
- MF-1292 Surficial Geologic Map of the Goshen Quadrangle, Franklin and Hampshire Counties, Massachusetts, by C. R. Warren. 1981. Scale 1:24,000.
- MF-1304 A Geologic Profile of the Sankaty Head Cliff, Nantucket Island, Massachusetts, by R. N. Oldale, D. M. Eskenasy, and N. C. Lian. 1981.
- MF-1397 Photographs of the Upper Pleistocene Section at Sankaty Head cliff, Nantucket Island, Massachusetts, by R. N. Oldale. 1982.

## U.S.G.S. Open-File Reports

- OF-53-33 Geology and Geologic Interpretation of Seismic Data - Revere Beach Parkway: Boston and Maine Railroad Crossing, Medford; Malden River, Medford-Everett; and Boston and Maine Railroad (Saugus Branch), Everett, by R. O. Castle and Rev. D. Linehan. Mass. Dept. Public Works Coop., 4 p., 6 pl.
- OF-53-48 Geologic and Seismic Study of Relocation of Route 5 at the Connecticut River Crossing of the Boston and Albany Railroad, Vicinity of Station 266+40, West Springfield, Massachusetts, by L. W. Currier. Mass. Dept. Public Works Coop., 1 p.
- OF-53-107 Geologic Interpretation of Seismic Data along Proposed Relocation of Route 1, Stations 19-26 in Salisbury, Massachusetts, by R. M. Hazelwood and R. O. Castle. Mass. Dept. Public Works Coop., 2 p., 1 pl.
- OF-53-108 Geologic Interpretation of Seismic Data along Proposed Relocation of Route 138, Stations 111+00 to 148, Brockton, Massachusetts, by R. M. Hazelwood and R. O. Castle. Mass. Dept. Public Works Coop., 3 p., 3 pls.
- OF-53-169 Geology and Geologic Interpretation of Seismic Data, Fall River- Boston Expressway, Stations 297-319, in Bridgewater, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 3 p., 2 pls.
- OF-53-170 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 1 in West Newbury, Massachusetts, Cut, Stations 8-15, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-53-171 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 3, Grade Separation at Treble Cove Road in Billerica, Massachusetts, By J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 1 pl.
- OF-53-172 Geology and Geologic Interpretations of Seismic Data, Relocation of Route 3, Stations 228-234, in Billerica, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 1 pl.
- OF-53-173 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 3, Cut, Stations 249-260, in Billerica, Massachusetts, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-53-174 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 3, Cut, Stations 265-274, in Billerica, Massachusetts, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-53-175 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 3, Stations 336-355, in Billerica, Massachusetts, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-53-176 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 3 in Billerica, Massachusetts, Cut, Stations 363-383, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 3 pls.

- OF-53-177 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 3, Station 496, in Billerica, to Station 6, in Chelmsford, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 3 pls.
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- OF-53-179 Geology and Geologic Interpretation of Seismic Data for Improvement of Route 7, in Great Barrington, Massachusetts, Cut, Stations 307-318, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 2 pls.
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- OF-53-184 Geology and Geologic Interpretation of Seismic Data, Relocation of Route 20, Stations 126-132, Housatonic River Crossing in Lee, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 1 pl.
- OF-53-185 Geologic and Seismic Investigation for Relocation of Route 8, Cut, Stations 1-18, in Sandisfield, Massachusetts, by J. E. Maynard and R. F. Kaiser. Mass. Dept. Public Works Coop., 2 p., 1 Map.
- OF-53-186 Geology and Geologic Interpretation of Seismic Data, Boston Expressway, Stations 38 and 40-45, in Raynham, by J. E. Maynard and Rev. D. Linehan. Mass. Dept. Public Works Coop., 2 p., 1 pl.
- OF-53-187 Geology and Geologic Interpretation of Seismic Data for Relocation of Route 20 in Lee, Massachusetts, Proposed Cut, Stations 186-204, Eastbound Roadway, by J. E. Maynard and Rev. D. Linehan. Mass. Dept. Public Works Coop., 2 p., 3 pls.
- OF-53-188 Geologic and Seismic Investigations for Relocation of Route 20 (Springfield Bypass) Grade Separation and Approach Cuts at Burnett Road, Stations 225 to 236+10.34; 411+40 to 416, Chicopee, Massachusetts, by J. E. Maynard and Rev. D. Linehan. Mass. Dept. Public Works Coop., 3 p., 3 pls.
- OF-54-76 Geologic Reconnaissance along the Proposed Location for the Orange-Athol Bypass between Ward Hill Road, Phillipston and the Orange, Massachusetts, Town Line, by D. F. Eschman. Mass. Dept. Public Works Coop., 5 p., 1 pl.
- OF-54-117 Geologic Reconnaissance in Longmeadow and East Longmeadow, Massachusetts,



with Special Reference to the Relocation of Route 5 in Longmeadow, by J. H. Hartshorn. Mass. Dept. Public Works Coop., 6 p., 31 figs., 1 cross section, 1 geologic map.

- OF-54-119 Geologic Interpretation of Seismic Data along the Proposed Relocation of Route 138; Stations 59+00 to 83+00 in Brockton, Massachusetts, by R. M. Hazelwood and R. O. Castle. Mass. Dept. Public Works Coop., 2 p., 3 pls.
- OF-54-189 Geologic Interpretation of Seismic Data, Relocation of Route 3, Cut, Stations 364-382 in Billerica, Massachusetts, by J. E. Maynard. Mass. Dept. Public Works Coop., 2 p., 3 pls.
- OF-54-190 Geologic and Seismic Investigations, Relocation of Route 3, Grade Separation at Route 62, Southeast Ramp in Bedford, Massachusetts, by J. E. Maynard. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-54-191 Geologic Interpretation of Seismic Data, Relocation of Route 3 at Route 62, Northwest Ramps and Approach for Route 62 in Bedford, Massachusetts, by J. E. Maynard. Mass. Dept. Public Works Coop., 2 p., 3 pls.
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- OF-54-194 Geologic and Seismic Investigations for Relocation of Route 128 at Route 28 in Quincy, Massachusetts, by J. E. Maynard. Mass. Dept. Public Works Coop., 2 p., 3 pls.
- OF-54-195 Geologic and Seismic Investigations for Southeast Expressway, Stations 600-603 in Quincy, Massachusetts, by J. E. Maynard. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-54-196 Geologic Interpretation of Seismic Data, Relocation of Route 102 in Lee, Massachusetts, Proposed Cut, Stations 30-36, by J. E. Maynard and R. M. Hazelwood. Mass. Dept. Public Works Coop., 2 p., 1 pl.
- OF-54-197 Geologic and Seismic Investigations for Relocation of Route 20 (Springfield Bypass) Alden Street to Chicopee River, Proposed Cuts, Stations 783-788, and 790-796 in Ludlow, Massachusetts, by J. E. Maynard and Rev. D. Linehan. Mass. Dept. Public Works Coop., 3 p., 2 pls.
- OF-54-198 Geologic and Seismic Investigations for Relocation of Route 138, Brockton-Avon Town Line, Prospective Cut, Stations 193+00 in Brockton to 8+00 in Avon, Massachusetts, by J. E. Maynard and R. Miller. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-54-199 Geologic and Seismic Investigations for Relocation of Route 138 in Brockton, Massachusetts, Prospective Cut, Stations 169 to 180, by J. E. Maynard and R. Miller. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-54-318 Geologic Interpretation of Seismic Data for Relocation of Route 2 in Athol,

- Massachusetts, Cut, Stations 215-245, by C. R. Tuttle. Mass. Dept. Public Works Coop., 2 p., 5 pls
- OF-54-319 Geologic Interpretation of Seismic Data for Relocation of Route 2, Cut, Stations 250-256 in Athol, Massachusetts, by C. R. Tuttle. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-54-320 Geology and Geologic Interpretation of Seismic Data for Relocation of Route 2 in Athol, Massachusetts, Cut, Stations 112-138, by C. R. Tuttle. Mass. Dept. Public Works Coop., 2 p., 2 pls.
- OF-55-60 Geologic Strip Map along Route 28 in the Taunton and Bridgewater Quadrangles, Massachusetts, by J. H. Hartshorn. 3 p., 1 Map.
- OF-55-61 Glacial Geology of the Taunton Quadrangle, Massachusetts, by J. H. Hartshorn. 160 p., 2 Maps, 38 figs., 13 tables.
- OF-55-62 Surficial Geologic Map of Proposed Route 3 from Lowell, Massachusetts to the New Hampshire State Line, compiled by J. H. Hartshorn and P. M. Hanshaw.
- OF-57-88 Groundwater Conditions, Maynard Ordinance Test Station and Vicinity, Sudbury, Massachusetts, by N. M. Perlmutter. 78 p., 5 pls., 1 fig.
- OF-58-47 Reconnaissance of Groundwater Conditions at Horseneck Beach and Goosebury Neck, Westport, Massachusetts, by R. J. Hecht and O. M. Hackett. 32 p., 2 figs.
- OF-61-131 Records and Logs of Selected Wells and Test Holes, Chemical Analyses of Water, and Water Levels in Observation Wells in the Lower Ipswich River basin, Massachusetts, by . A. Sammel and J. A. Baker. 153 p., 2 figs.
- OF-62-95 Preliminary Report on the Seismic Investigations in the Orleans, Wellfleet, North Truro, and Provincetown Quadrangles, Massachusetts, by R. N. Oldale and C. R. Tuttle. 2 figs., 1 table.
- OF-62-96 Preliminary Report on the Seismic Investigations in the Harwich and Dennis Quadrangles, Massachusetts, by R. N. Oldale, C. R. Tuttle, and L. W. Currier. 1 fig., 2 tables.
- OF-64-73 Preliminary Surficial Geology of the Bashbish Falls Quadrangle, Massachusetts, Connecticut, and New York, by J. H. Hartshorn and J. S. Atherton. 12 p., 1 sheet, scale 1:24,000.
- OF-64-79 Preliminary Materials Map of the Ashley Falls Quadrangle, Massachusetts and Connecticut, by G. W. Holmes. Scale 1:24,000.
- OF-64-80 Preliminary Materials Map of the Massachusetts Portion of the Egremont Quadrangle, Massachusetts and New York, by G. W. Holmes. Scale 1:24,000.
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- WRI-86-4053 Yield and Quality of Ground Water from Stratified-Drift Aquifers, Taunton River Basin, Massachusetts: Executive Summary, by Wayne W. Lapham, and Julio C. Olimpio. 11 p.
- WRI-86-4093 The Relation of Ground-Water Quality to Housing Density, Cape Cod, Massachusetts, by James H. Persky, 1986, 28 p.
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- WRI-88-4147 Stream-Aquifer Relations and Yield of Stratified-Drift Aquifers in the Nashua River Basin, Massachusetts, by Virginia de Lima. 47 p.
- WRI-88-4173 Water Resources and Aquifer Yields in the Charles River Basin, Massachusetts, by Charles F. Myette and Alison C. Simcox. (Revised 1991) 50 p.
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- WRI-90-4140 Use of Geographic Information System to Assess Risk to Ground-Water Quality at Public-Supply Wells, Cape Cod, Massachusetts, by Julio C. Olimpio, Elizabeth C. Flynn, Saiping Tso, and Peter A. Steeves. 35 p.
- WRI-90-4204 Geohydrology and Simulated Groundwater Flow, Plymouth-Carver Aquifer, Southeastern, Massachusetts, by Bruce P. Hansen, and Wayne W. Lapham. 82 p. 2 sheets.
- WRI-91-4112 Yields and Water Quality of Stratified-Drift Aquifers in the Southeast Coastal Basin, Cohasset to Kingston, Massachusetts, by James H. Persky. 47 p. 1 sheet.
- WRI-91-4144 Effects of a Wetland on Quality of Natty Pond Brook, Massachusetts, 1985-86, by Nancy C. Suurballe. 52 p.
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- WRI- 93-4064 Simulated Hydrologic Responses of the Quashnet River Stream-Aquifer System to Proposed Groundwater Withdrawals, Cape Cod, Massachusetts, by Paul M. Barlow, and Kathryn M. Hess. 52 p.
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- Estimation, by S. William Wandle, Jr. and Allan D. Randall. 57 p.
- WRI-93-4142 Estimated Short-Term Yields of and Quality of Groundwater in Stratified-Drift Aquifer Areas in the Neponset River Basin, Massachusetts, by Alan R. Klinger, 30 p.
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- WRI-94-4003 Factors Affecting Water Quality and Net Flux of Solutes in Two Stream Basins in the Quabbin Reservoir Drainage Basin, Central Massachusetts, 1983-85, by Rochelle L. Rittmaster and James B. Shanley. 66 p.
- WRI-94-4100 Estimating the Magnitude and Frequency of Low Flows of Streams in Massachusetts, by John C. Risley. 29 p.
- WRI-94-4121 Use of Borehole Geophysical Surveys to Determine Fracture Orientation and Other Site Characteristics in Crystalline Bedrock Terrain, Millville and Uxbridge, Massachusetts, by Bruce P. Hansen and John W. Lane. 25 p.
- WRI-94-4155 Development and Application of Generalized-Least-Squares Regression Models to Estimate Low-Flow Duration Discharges in Massachusetts, by Kernell G. Ries III. 33 p.
- WRI-94-4156 Identification of Potential Public Water-Supply Areas of the Cape Cod Aquifer, Massachusetts, Using a Geographic Information System, by Sandra L. Harris and Peter A. Steeves. 23 p.
- WRI-94-4185 Identification, Characterization, and Analysis of Hydraulically Conductive Fractures in Granitic Basement Rocks, Millville, Massachusetts, by F.L. Paillet and Paul Ollila. 38 p.
- WRI-94-4224 Relation of Precipitation Quality to Storm Type and Deposition of Dissolved Chemical Constituents From Precipitation in Massachusetts, 1983-85, by Frederick B. Gay and Charles S. Melching. 82 p.
- WRI-94-4256 Estimated Availability of Water from Stratified-Drift Aquifers in the Concord River Basin, Massachusetts, by Lisa Bratton, and Gene W. Parker. 35 p.
- WRI-95-4124 Effects of Selective Forest Clearing, Fertilization, and Liming on Hydrology and Water Quality of a Small Tributary to the Quabbin Reservoir, Central Massachusetts, James B. Shanley, Jeffrey L. Strause, and John C. Risley. 57 p
- WRI-95-4144 Wastewater Collection and Return Flow in New England, 1990, by Laura Medalie. 79 p.
- WRI-95-4157 Water Quality of Selected Wetland Streams in Central and Eastern Massachusetts, 1988-89, by David S. Armstrong and Robert M. Lent. 43 p.
- WRI-95-4160 Comparison of Hydraulic Conductivities for a Sand and Gravel Aquifer in Southeastern Massachusetts, Estimated by Three Methods, by Linda P. Warren, Peter E. Church, and Michael Turtora. 16 p.

- WRI-95-4203 Water-Quality Assessment of the Connecticut, Housatonic, and Thames River Basins Study Unit: Analysis of Available Data on Nutrients, Suspended Sediments, and Pesticides, 1972-92, by Marc J. Zimmerman, Stephen J. Grady, Elaine C. Todd Trench, Sarah M. Flanagan, and Martha G. Neilsen. 162 p.
- WRI-95-4234 Streamflow, Ground-Water Recharge and Discharge, and Characteristics of Surficial Deposits in Buzzards Bay Basin, Southeastern Massachusetts, by Gardner C. Bent. 56 p.
- WRI-96-4115 Geohydrology of Stratified Drift and Streamflow in the Deerfield River Basin, Northwestern Massachusetts, by Paul J. Friesz. 49 p. 1 sheet.
- WRI-96-4200 Hydrogeology and Analysis of Ground-Water-Flow System, Sagamore Marsh Area, Southeastern Massachusetts, by Donald A. Walter, John P. Materson, and Paul M. Barlow. 41 p.
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- WRI-97-4269 Water Quality Data and Methods of Analysis for Samples Collected Near a Plume of Sewage-Contaminated Ground-Water, Ashumet Valley, Cape Cod, Massachusetts, 1993-94, Edited by Jennifer Savoie and Denis LeBlanc, 1998, 208 p.
- WRI-98-4027 Channel Morphology and Streambed-Sediment Quality in the Muddy River, Boston and Brookline, Massachusetts, by Robert F. Breault, Peter K. Weiskel, and Timothy D. McCobb, 5 p. 1 sheet
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- WRI-98-4075 Organochlorine Compounds in Fish Tissue from the Connecticut, Housatonic and Thames River Basins Study Unit, 1992-94, by James F. Coles, 23 p.
- WRI-98-4112 Analysis of Carbon Isotopes, Determination of Ground-Water Age, and Estimated Characteristics of the Contaminant Source at Two Fuel-Spill Plumes, Western Cape Cod, Massachusetts, 1996, by Jennifer G. Savoie, 1999, 21 p.
- WRI-98-4232 Streamflow, Baseflow and Groundwater Recharge in the Housatonic River Basin, Western Massachusetts and Parts of Eastern New York and Northwestern Connecticut, by Gardner C. Bent, 68 p.
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- WRI-00-4029 A Precipitation-Runoff Model for Analysis of the Effects of Water Withdrawals on Streamflow, Ipswich River Basin, Massachusetts, by Philip J. Zarriello and Kernell G. Ries, III, 2000, 99 p.
- WRI-00-4124 Spatial Distribution, Temporal Variability, and Chemistry of the Salt Wedge in the Lower Charles River, Massachusetts, June 1998 to July 1999, by R.F. Breault, L.K. Barlow, K.D. Reisig, and G.W. Parker, 2000, 1 sheet.
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- WRI-03-4330 Evaluation of Strategies for Balancing Water Use and Streamflow Reductions in the Upper Charles River Basin, Eastern Massachusetts, by Jack R. Eggleston, 2004, 85 p.

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- WSP-110(b) Triassic Rocks of the Connecticut Valley as a Source of water Supply, by M.L. Fuller, 1905, pp. 95-112.
- WSP-110(c) Water Resources of the Taconic Quadrangle, New York, Massachusetts, and Vermont, by F.B. Taylor, 1905, pp.130-133.
- WSP-996 Geologic Features of the Connecticut Valley, Massachusetts as related to Recent Floods, by R.H. Jahns, 1947, 158 p.
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- WSP-1629 Estimation of Hydraulic Parameters from an Unconfined Aquifer Test Conducted in a Glacial Outwash Deposit, Cape Cod, Massachusetts, by A.F. Moench, S.P. Garabedian, and Denis R. LeBlanc, 2001, 69 p. (Professional Paper 1629)
- WSP-1669-Y Groundwater Resources of the Lowell Area, Massachusetts, by J.A. Baker, 1964, pp. Y1-Y37.
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- WSP-1694 Geology and Groundwater Conditions in the Wilmington-Reading Area, Massachusetts, by J.A. Baker, H.G. Healy, and O.M. Hackett, 1964, 80 p.
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- WSP-2062 Geohydrologic Impacts of Coal Development in the Narragansett Basin, Massachusetts, and Rhode Island, by M.H. Frimpter and A. Maevsky, 1979, 35 p.
- WSP-2209 Digital Models of Groundwater Flow in the Cape Cod Aquifer System, Massachusetts, by J.H. Guswa and D.R. LeBlanc, 1985, 112 p. (Superseded WRI-80-67).
- WSP-2218 Sewage Plume in a Sand and Gravel Aquifer, Cape Cod, Massachusetts, by D.R. LeBlanc, 1984, 28 p. (Supersedes OF-82-274).
- WSP-2266 Distribution of Polychlorinated Biphenyls in the Housatonic River and Adjacent Aquifer, Massachusetts, by F.B. Gay and M.H. Frimpter, 1985, 26 p. (Supersedes OF-84-588).
- WSP-2297 Estimation of Recharge Rates to the Sand and Gravel Aquifer Using Tritium, Nantucket, Island, Massachusetts, by Jayne Fifield Knott and Julio C. Olimpio, 1986, 26 p.
- WSP-2434 Particle-Tracking Analysis of Contributing Areas of Public-Supply Wells in Simple and Complex Flow Systems, Cape Cod, Massachusetts, by Paul M. Barlow, 1995, 66 p.

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- WSP-2456 A Nitrogen-Rich Septage-Effluent Plume in a Glacial Aquifer, Cape Cod, Massachusetts, February 1990 through December 1992, by Leslie A. Desimone, Paul M. Barlow, and Brian L. Howes, 1996, 89 p.
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- C-1155      Water Quality in the Connecticut, Housatonic, and Thames River Basins, Connecticut, Massachusetts, and Vermont, 1992-95, by S.P. Garabedian, J.F. Coles, S.J. Grady, E.C.T. Trench, and M.J. Zimmerman, 1998, 32 p.
- C-1280      Water Resources and the Urban Environment, Lower Charles River Watershed, Massachusetts, 1630-2005, by P.K. Weiskel, L.K. Barlow, and T.W. Smieszek, 2005, 46 p.
- C-1338      Hydrogeology and Groundwater Resources of the Coastal Aquifers of Southeastern Massachusetts, by J.P. Masterson and D.A. Walter, 2009, 16 p.

## Miscellaneous U.S.G.S. Publications

- MP-2 Ground Water Favorability Map of the Brockton-Pembroke Area, Massachusetts, by R.G. Petersen and C.E. Shaw, 1961, 1 sheet, 1:31,680
- MP-3 Ground Water Favorability Map of the Housatonic River Basin, Massachusetts, by R.F. Norvitch, 1966, 1 sheet, 1:48,000 .
- MP-4 Generalized Surficial Geology, Ground Water Favorability Map of the Ware-Quaboag- Quinebaug- French River, Massachusetts, by R.G. Petersen, 1962, 1 sheet, 1:62,500 (HI-2: superseded by HA-682, HA-693, and HA-700)
- MP-5 Ground Water Favorability Map of the Westfield River Basin, Massachusetts, by R.G. Petersen, 1964, 1 sheet, 1:48,00 (HI-3)
- MP-7 The Charles River, Eastern Massachusetts, Scientific Information in Support of Environmental Restoration, by P. K.Weiskel, 12 p.
- MP-8 Potential Changes in Ground-Water Flow and their Effects on the Ecology and Water Resources of the Cape Cod National Seashore, by J.P. Materson, and J.W. Portnoy, 2005, 16 p. ( USGS General Information Product 13)
- MP-9 People and Water in the Assabet River Basin, Eastern Massachusetts, by Leslie Desimone, 2005, 6 p. ( Fact Sheet 2005-3034)
- MP-10 Effects on Groundwater Microbial Communities of an Engineered 30-Day In-Situ Exposure to the Antibiotic Sulfamethoxazole, S. K. Haack et al., 2012, 13 p.
- MP-11 Long-term groundwater contamination after source removal- The role of sorbed carbon and nitrogen on the rate of reoxygenation of a treated-water plume on Cape Cod, MA, USA, R. L. Smith et al., 2012, 10 p.

Appendix A

List of Cities and Towns in Massachusetts and Corresponding USGS Quadrangles

City/Town	Quadrangle Names	
Abington	Blue Hills Brockton	Weymouth Whitman
Acton	Maynard	Westford
Acushnet	Assawompset Pond Marion	New Bedford North
Adams	Cheshire North Adams	Williamstown Windsor
Agawam	Springfield South	West Springfield
Alford	Egremont	State Line
Amesbury	Exeter Haverhill	Newburyport West
Amherst	Belchertown Mt. Holyoke	Mt. Toby Shutesbury
Andover	Lawrence Reading	South Groveland Wilmington
Arlington	Lexington	
Ashburnham	Ashburnham Ashby	Fitchburg Gardner
Ashby	Ashburnham	Ashby
Ashfield	Ashfield Goshen	Plainfield Shelburne Falls
Ashland	Framingham Holliston	Marlborough Milford
Athol	Athol Orange	Royalston
Attleboro	Attleboro Norton	Pawtucket
Auburn	Leicester	Worcester South
Avon	Blue Hills	Brockton

City/Town	Quadrangle Names	
Ayer	Ayer	
Barnstable	Cotuit Hyannis	Sandwich
Barre	Barre North Brookfield	Petersham Ware
Becket	Becket East Lee	Monterey Otis
Bedford	Billerica Concord	Lexington Wilmington
Belchertown	Belchertown Ludlow	Palmer Winsor Dam
Bellingham	Blackstone Franklin	Holliston
Belmont	Lexington	
Berkley	Assonet	
Berlin	Clinton Hudson	Marlborough Shrewsbury
Bernardston	Bernardston	Northfield
Beverly	Marblehead North	Salem
Billerica	Billerica	Wilmington
Blackstone	Blackstone	Franklin
Blandford	Blandford Chester	Otis West Granville
Bolton	Clinton	Hudson
Boston	Blue Hills Boston North Boston South Hull	Lynn Nantasket Beach Newton Norwood
Bourne	Onset Pocasset	Sagamore Wareham
Boxborough	Ayer Hudson	Maynard Westford



City/Town	Quadrangle Names	
Boxford	Georgetown Salem	South Groveland
Boylston	Clinton Shrewsbury	Sterling Worcester North
Braintree	Blue Hills	Weymouth
Brewster	Chatham Dennis	Harwich Orleans
Bridgewater	Bridgewater Taunton	Whitman
Brimfield	Monson Palmer	Wales Warren
Brockton	Blue Hills Brockton	Whitman
Brookfield	East Brookfield	Warren
Brookline	Boston South	Newton
Buckland	Ashfield Colrain	Shelburne Falls
Burlington	Lexington	Wilmington
Cambridge	Boston North Boston South	Lexington Newton
Canton	Blue Hills	Norwood
Carlisle	Billerica	Westford
Carver	Plymouth Plympton	Snipatuit Pond Wareham
Charlemont	Ashfield Colrain Heath	Plainfield Rowe Shelburne Falls
Charlton	East Brookfield Leicester	Southbridge Webster
Chatham	Chatham Harwich	Monomoy Point

City/Town	Quadrangle Names	
Chelmsford	Billerica Lowell	Nashua South Westford
Chelsea	Boston North	
Cheshire	Cheshire	Windsor
Chester	Becket Blandford	Chester
Chesterfield	Chester Goshen	Westhampton Worthington
Chicopee	Mount Tom Springfield South	Springfield South
Chilmark	Naushon Island Squibnocket	Tisbury Great Pond Vineyard Haven
Clarksburg	North Adams	Williamstown
Clinton	Clinton	Shrewsbury
Cohasset	Cohasset	Nantasket Beach
Colrain	Bernardston Colrain	Heath
Concord	Billerica Concord	Maynard Westford
Conway	Ashfield Goshen	Shelburne Falls Williamsburg
Cummington	Goshen	Worthington
Dalton	Cheshire Peru	Pittsfield East Windsor
Danvers	Reading	Salem
Dartmouth	Fall River East New Bedford North	New Bedford East Westport
Dedham	Newton	Norwood
Deerfield	Greenfield Mt. Toby	Shelburne Falls Williamsburg

City/Town	Quadrangle Names	
Dennis	Dennis	Harwich
Dighton	Assonet Norton	Somerset
Douglas	Oxford	Uxbridge
Dover	Medfield Natick	Newton Norwood
Dracut	Lawrence Lowell	Nashua South
Dudley	Webster	
Dunstable	Nashua South	Pepperell
Duxbury	Duxbury Hanover	Plymouth
East Bridgewater	Bridgewater	Whitman
East Brookfield	East Brookfield	
East Longmeadow	Hampden	Springfield South
Eastham	Orleans	Wellfleet
Easthampton	Easthampton	
Easton	Brockton Mansfield	Norton Taunton
Edgartown	Edgartown Tisbury Great Pond	Vineyard Haven
Egremont	Bashbish Falls	Egremont
Erving	Greenfield Millers Falls Mt. Grace	Northfield Orange
Essex	Gloucester Ipswich	Marblehead North
Everett	Boston North	
Fairhaven	Marion New Bedford North	New Bedford South Sciticut

City/Town	Quadrangle Names	
Fall River	Assonet Fall River Fall River East	Somerset Tiverton
Falmouth	Cotuit Falmouth Onset	Pocasset Vineyard Haven Woods Hole
Fitchburg	Ashby	Fitchburg
Florida	North Adams	Rowe
Foxborough	Franklin	Brockton
Franklin	Franklin Holliston	Wrentham
Freetown	Assawompset Pond Assonet	Fall River East New Bedford North
Gardner	Ashburnham Gardner	Templeton
Gay Head	Naushon Island	Squibnocket
Georgetown	Georgetown Newburyport West	South Groveland
Gill	Bernardston Greenfield	Millers Fall Northfield
Gloucester	Gloucester Ipswich	Marblehead North Rockport
Goshen	Goshen	
Gosnold	Cuttyhunk Naushon Island	Vineyard Haven Woods Hole
Grafton	Grafton	Shrewsbury
Granby	Belchertown Ludlow	Mt. Holyoke Springfield North
Granville	Blandford Southwick	West Granville

City/Town	Quadrangle Names	
Great Barrington	East Lee Egremont Great Barrington	State Line Stockbridge
Greenfield	Bernardston Colrain	Greenfield Shelburne Falls
Groton	Ayer Nashua South Pepperell	Shirley Townsend Westford
Groveland	Georgetown Haverhill	Newburyport West South Groveland
Hadley	Easthampton Mt. Holyoke	Mt. Toby
Halifax	Bridgewater Hanover	Plympton Whitman
Hamilton	Georgetown Ipswich	Marblehead North Salem
Hampden	Hampden	Monson
Hancock	Berlin Canaan	Hancock Pittsfield
Hanover	Cohasset Hanover	Weymouth Whitman
Hanson	Hanover	Whitman
Hardwick	North Brookfield Petersham	Quabbin Reservoir Winsor Dam
Havard	Ayer Clinton	Hudson Shirley
Harwich	Chatham Dennis	Harwich
Hatfield	Easthampton Mt. Holyoke	Mt. Toby Williamsburg
Haverhill	Haverhill Salem Depot	South Groveland

City/Town	Quadrangle Names	
Hawley	Ashfield Plainfield	Rowe
Heath	Heath	
Hingham	Cohasset Hull	Nantasket Beach Weymouth
Hinsdale	Peru	Pittsfield East
Holbrook	Blue Hills Brockton	Weymouth Whitman
Holden	Paxton Sterling	Wachusetts Worcester North
Holland	Wales	
Holliston	Holliston	Milford
Holyoke	Easthampton Mount Tom	Mt. Holyoke Springfield North
Hopkinton	Holliston Marlborough	Milford
Hubbardston	Barre Gardner	Templeton Wachusett Mtn.
Hudson	Hudson Marlborough	Maynard
Hull	Hull	Nantasket Beach
Huntington	Blandford Chester	Westhampton Woronoco
Hyannis	Hyannis	
Ipswich	Georgetown Gloucester	Ipswich
Kingston	Duxbury Hanover	Plymouth Plympton
Lakeville	Assawompset Pond	Bridgewater
Lancaster	Clinton	Shirley

City/Town	Quadrangle Names	
Lanesborough	Cheshire Hancock	Pittsfield East Pittsfield West
Lawrence	Lawrence	
Lee	East Lee	Stockbridge
Leicester	Leicester Paxton	Worcester North Worcester South
Lenox	East Lee Pittsfield East	Pittsfield West Stockbridge
Leominster	Clinton Fitchburg	Shirley Sterling
Leverett	Greenfield Millers Falls	Mt. Toby Shutesbury
Lexington	Concord	Lexington
Leyden	Bernardston	Colrain
Lincoln	Concord	
Littleton	Ayer	Westford
Longmeadow	Springfield South	
Lowell	Billerica Lowell	Nashua South
Ludlow	Ludlow	Springfield North
Lunenburg	Ashby Fitchburg	Shirley Townsend
Lynn	Boston North Lynn	Reading Salem
Lynnfield	Reading	Salem
Malden	Boston North	
Manchester	Gloucester	Marblehead North
Mansfield	Attleboro Mansfield	Norton Wrentham

City/Town	Quadrangle Names	
Marblehead	Lynn Marblehead North	Marblehead South Salem
Marion	Marion Onset	Snipatuit Pond
Marlborough	Framingham Hudson	Marlborough Maynard
Marshfield	Cohasset Duxbury	Hanover Scituate
Maspee	Cotuit Falmouth	Pocasset Sandwich
Mattapoisett	Marion Onset	Sconticut Neck Woods Hole
Maynard	Maynard	
Medfield	Medfield	
Medford	Boston North	Lexington
Medway	Holliston	
Melrose	Boston North	
Mendon	Blackstone Franklin	Milford
Merrimac	Haverhill	Newburyport West
Methuen	Lawrence Lowell	Salem Depot South Groveland
Middleborough	Assawompset Pond Bridgewater Plympton	Snipatuit Pond Taunton
Middlefield	Becket Chester	Peru Worthington
Middleton	Georgetown Reading	Salem South Groveland



City/Town	Quadrangle Names	
Milford	Blackstone Franklin	Holliston Milford
Millbury	Grafton	Worcester South
Millis	Holliston	Medfield
Millville	Blackstone	
Milton	Blue Hills Boston North	Norwood
Monroe	North Adams	Rowe
Monson	Hampden Ludlow	Monson Palmer
Montague	Greenfield	Millers Falls
Monterey	Great Barrington	Monterey
Montgomery	Woronoco	
Mount Washington	Bashbish Falls	Egremont
Nahant	Lynn	
Nantucket	Great Point Nantucket	Siasconset Tuckernuck Island
Natick	Framingham Medfield	Natick
Needham	Natick	Newton
New Ashford	Berlin Cheshire	Hancock Williamstown
New Bedford	New Bedford North	New Bedford South
New Braintree	North Brookfield	Ware
New Marlborough	Ashley Falls Great Barrington	Monterey South Sandisfield
New Salem	Athol Orange Quabbin Reservoir	Shutesbury Winsor Dam

City/Town	Quadrangle Names	
Newbury	Georgetown Ipswich	Newburyport East Newburyport West
Newburyport	Newburyport East	Newburyport West
Newton	Natick	Newton
Norfolk	Franklin Holliston	Medfield Wrentham
North Adams	North Adams	Williamstown
North Andover	Lawrence Reading	South Groveland
North Attleborough	Attleboro Pawtucket	Wrentham
North Brookfield	East Brookfield North Brookfield	Ware
North Reading	Reading	Wilmington
Northampton	Easthampton	Mt. Holyoke
Northborough	Marlborough	Shrewsbury
Northbridge	Blackstone Grafton	Milford Uxbridge
Northfield	Bernardston Millers Falls	Northfield
Norwell	Cohasset Hanover	Weymouth
Norwood	Norwood	
Oak Bluffs	Edgartown	Vineyard Haven
Oakham	Barre North Brookfield	Paxton
Orange	Athol Mt. Grace	Orange
Orleans	Chatham Harwich	Orleans

City/Town	Quadrangle Names	
Otis	Becket East Lee	Monterey Otis
Oxford	Leicester Oxford	Webster Worcester South
Palmer	Ludlow Palmer	Warren
Paxton	Paxton	
Peabody	Lynn Reading	Salem
Pelham	Belchertown Quabbin Reservoir	Shutesbury Winsor Dam
Pembroke	Hanover	
Pepperell	Pepperell	Townsend
Peru	Peru	Worthington
Petersham	Athol Barre Orange Petersham	Quabbin Reservoir Templeton Winsor Dam
Phillipston	Athol Barre	Templeton
Pittsfield	Hancock Pittsfield East	Pittsfield West
Plainfield	Ashfield Goshen	Plainfield Worthington
Plainville	Attleboro Pawtucket	Wrentham
Plymouth	Manomet Plymouth Plympton	Sagamore Wareham
Plympton	Hanover	Plympton
Princeton	Fitchburg Gardner	Sterling Wachusett Mtn.

City/Town	Quadrangle Names	
Provincetown	Provincetown	
Quincy	Blue Hills Boston South	Hull Weymouth
Randolph	Blue Hills	
Raynham	Bridgewater	Taunton
Reading	Reading	Wilmington
Rehoboth	Attleboro East Providence	Norton Somerset
Revere	Boston North	Lynn
Richmond	Canaan Pittsfield West	State Line Stockbridge
Rochester	Assawompset Pond Marion	New Bedford North Snipatuit Pond
Rockland	Weymouth	Whitman
Rockport	Gloucester	Rockport
Rowe	Heath	Rowe
Rowley	Georgetown Ipswich	Newburyport East Newburyport West
Royalston	Athol Mt. Grace	Royalston Winchendon
Russell	Blandford Southwick	West Granville Woronoco
Rutland	Barre North Brookfield	Paxton Wachusett Mtn.
Salem	Lynn Marblehead North	Salem
Salisbury	Exeter Newburyport East	Newburyport West
Sandisfield	Monterey Otis	South Sandisfield Tolland Centerb

City/Town	Quadrangle Names	
Sandwich	Cotuit Pocasset	Sagamore Sandwich
Savoy	North Adams Plainfield	Rowe Windsor
Scituate	Cohasset Nantasket Beach	Scituate
Seekonk	Attleboro	East Providence
Sharon	Mansfield	Norwood
Sheffield	Ashley Falls Bashbish Falls	Egremont Great Barrington
Shelburne	Colrain	Shelburne Falls
Sherborn	Framingham Holliston	Medfield Natick
Shirley	Ayer Shirley	Townsend
Shrewsbury	Grafton Shrewsbury	Worcester North
Shutesbury	Millers Falls Orange	Quabbin Reservoir Shutesbury
Somerset	Assonet Fall River	Somerset
Somerville	Boston North Boston South	Lexington
South Hadley	Mt. Holyoke	Springfield North
Southampton	Easthampton Mount Tom	Westhampton Woronoco
Southborough	Framingham	Marlborough
Southbridge	Southbridge	Webster
Southwick	Southwick Tarriffville	West Springfield

City/Town	Quadrangle Names	
Spencer	East Brookfield Leicester	North Brookfield Paxton
Springfield	Hampden Ludlow	Springfield North Springfield South
Sterling	Clinton	Sterling
Stockbridge	Stockbridge	
Stoneham	Boston North	Reading
Stoughton	Blue Hills Brockton	Mansfield Norwood
Stow	Hudson	Maynard
Sturbridge	East Brookfield Southbridge	Wales Warren
Sudbury	Concord Framingham	Maynard
Sunderland	Greenfield	Mt. Toby
Sutton	Grafton Oxford	Uxbridge Worcester South
Swampscott	Lynn	Salem
Swansea	Bristol East Providence	Fall River Somerset
Taunton	Assawompset Pond Assonet Bridgewater	Norton Somerset Taunton
Templeton	Athol Barre Royalston	Templeton Winchendon
Tewksbury	Billerica Lawrence	Lowell Wilmington
Tisbury	Vineyard Haven	
Tolland	Blandford Otis	Tolland Center West Granville

City/Town	Quadrangle Names	
Topsfield	Georgetown	Salem
Townsend	Ashby Shirley	Townsend
Truro	North Truro Provincetown	Wellfleet
Tyngsborough	Lowell Nashua South	Westford
Tyringham	East Lee Great Barrington	Monterey Stockbridge
Upton	Blackstone Grafton	Milford
Uxbridge	Blackstone	Uxbridge
Wakefield	Boston North	Reading
Wales	Monson	Wales
Walpole	Mansfield Medfield	Norwood Wrentham
Waltham	Concord Lexington	Natick Newton
Ware	Palmer Ware	Warren Winsor Dam
Wareham	Marion Onset Pocasset	Sagamore Snipatuit Pond Wareham
Warren	Palmer Ware	Warren
Warwick	Mt. Grace Northfield	Orange
Washington	Becket East Lee	Peru Pittsfield East
Watertown	Lexington	Newton

City/Town	Quadrangle Names	
Wayland	Concord Framingham	Maynard Natick
Webster	Oxford	Webster
Wellesley	Natick	Newton
Wellfleet	Wellfleet	
Wendell	Millers Falls	Orange
Wenham	Marblehead North	Salem
West Boylston	Sterling	Worcester North
West Bridgewater	Bridgewater Brockton	Taunton Whitman
West Brookfield	East Brookfield North Brookfield	Ware Warren
West Newbury	Haverhill	Newburyport West
West Springfield	Mount Tom Springfield North	Springfield South West Springfield
West Stockbridge	State Line	Stockbridge
West Tisbury	Naushon Island	
Westborough	Grafton Marlborough	Milford Shrewsbury
Westfield	Mt. Tom Southwick	West Springfield Woronoco
Westford	Nashua South	Westford
Westhampton	Easthampton	Westhampton
Westminster	Ashby Fitchburg	Gardner
Weston	Concord	Natick
Westport	Fall River Fall River East	Tiverton Westport



City/Town	Quadrangle Names	
Westwood	Medfield Newton	Norwood
Weymouth	Hull	Weymouth
Whately	Mt. Toby	Williamsburg
Whitman	Whitman	
Wilbraham	Hampden	Ludlow
Williamsburg	Easthampton Goshen	Westhampton Williamsburg
Williamstown	Berlin	Williamstown
Wilmington	Wilmington	
Winchendon	Asburnham Templeton	Winchendon
Winchester	Boston North	Lexington
Windsor	Peru Plainfield	Windsor Worthington
Winthrop Winthrop	State Line	Stockbridge
West Tisbury	Naushon Island	
Westborough	Grafton Marlborough	Milford Shrewsbury
Westfield	Mt. Tom Southwick	West Springfield Woronoco
Westford	Nashua South	Westford
Westhampton	Easthampton	Westhampton
Westminster	Ashby Fitchburg	Gardner
Weston	Concord	Natick
Westport	Fall River Fall River East	Tiverton Westport

City/Town	Quadrangle Names	
Westwood	Medfield Newton	Norwood
Weymouth	Hull	Weymouth
Whately	Mt. Toby	Williamsburg
Whitman	Whitman	
Wilbraham	Hampden	Ludlow
Williamsburg	Easthampton Goshen	Westhampton Williamsburg
Williamstown	Berlin	Williamstown
Wilmington	Wilmington	
Winchendon	Asburnham Templeton	Winchendon
Winchester	Boston North	Lexington
Windsor	Peru Plainfield	Windsor Worthington
Winthrop	Boston South Hull	Lynn
Woburn	Boston North Lexington	Reading Wilmington
Worcester	Grafton Paxton Shrewsbury	Worcester North Worcester South
Worthington	Chester Peru	Worthington
Wrentham	Franklin	Wrentham
Yarmouth	Dennis	Hyannis

Appendix B

List of Cities and Towns in Massachusetts and Corresponding 7.5 X 15 Minute USGS Quadrangle  
(Incomplete USGS State Coverage: All towns may not be listed)

City/Town	Quadrangle Names	
Abington	Weymouth	
Adams	North Adams	
Alford	Great Barrington	Stockbridge
Ashburnham	Ashburnham	
Ashby	Ashburnham	
Ashland	Marlborough	
Athol	Winchendon	
Attleboro	Attleboro	Taunton
Auburn	Worcester South	
Avon	Brockton	
Ayer	Ayer	
Barre	North Brookfield	
Barrington	Providence RI	
Becket	East Lee	
Bellingham	Uxbridge	Franklin
Berkley	Sommerset	
Berlin	Marlborough	
Blackington	North Adams	
Blackstone	Franklin	
Blandford	Blandford	
Boston	Lynn	
Boxborough	Ayer	
Boylston	Marlborough	
Braintree	Weymouth	
Bridgewater	Taunton	

City/Town	Quadrangle Names	
Brimfield	Southridge	
Brockton	Brockton	
Charlton	Sturbridge Webster	Warren Worcester South
Chelmsford	Lowell	
Cheshire	Cheshire	
Chester	Blandford Chester	Chesterfield East Lee
Clarksburg	North Adams	
Cohasset	Hull	Weymouth
Dalton	Cheshire	Pittsfield East
Dartmouth	Sakonnet Point RI	Fall River
Dighton	Taunton	Sommerset
Douglas	Uxbridge	Webster
Dracut	Lowell	
Dudley	Webster	
Dunstable	Lowell	Townsend
East Brookfield	Warren	
Easton	Brockton	Taunton
Egremont	Great Barrington	
Fall River	Fall River	
Florida	North Adams	
Foxborough	Mansfield	Wrentham
Franklin	Franklin	
Freetown	Fall River	Sommerset
Gloucester	Gloucester	Rockport
Granville	Southwick	

City/Town	Quadrangle Names	
Great Barrington	Great Barrington	Stockbridge
Groton	Ayer	Townsend
Hancock	Berlin Pittsfield East	Stephentown Center NY
Hanover	Weymouth	
Hardwick	North Brookfield	
Havard	Ayer	
Hingham	Hull	
Hinsdale	Pittsfield East	
Holland	Southbridge	
Hopedale	Uxbridge	
Hopkinton	Marlborough	
Hudson	Marlborough	
Huntington	Blandford	Chester
Hull	Hull	
Ipswich	Rockport	
Lakeville	Sommerset	
Lancaster	Ayer	
Lanesborough	Cheshire Pittsfield West	Pittsfield East Stephenstown Center NY
Lee	Stockbridge	East Lee
Leicester	Worcester South	
Lenox	East Lee Pittsfield West	Pittsfield East Stockbridge
Leominster	Ayer	Lowell
Littleton	Ayer	
Lunenburg	Ayer Townsend	Ashburnham

City/Town	Quadrangle Names	
Lynn	Lynn	
Manchester	Gloucester	
Mansfield	Attleboro Franklin	Brockton Taunton
Marlborough	Marlborough	
Marshfield	Weymouth	
Mendon	Franklin	Uxbridge
Methuen	Lowell	
Middlefield	Chester Pittsfield East	East Lee
Milford	Franklin	Uxbridge
Millbury	Worcester South	
Millville	Uxbridge	
Monroe	North Adams	
Monterey	Great Barrington	
Montgomery	Blandford	
Nahant	Lynn	
New Ashford	Berlin Stephentown Center NY	Cheshire
New Braintree	North Brookfield	
Norfolk	Franklin	
Northbridge	Uxbridge	
Northborough	Marlborough	
North Adams	North Adams	
North Attleborough	Attleboro	
North Brookfield	North Brookfield	Warren
Norton	Taunton	Attleboro

City/Town	Quadrangle Names	
Norwell	Weymouth	
Oakham	North Brookfield	
Orange	Winchendon	
Oxford	Webster	Worcester South
Peabody	Lynn	
Pepperell	Townsend	
Peru	Pittsfield East	
Pittsfield	Pittsfield East	Pittsfield West
Plainville	Attleboro	Franklin
Quincy	Weymouth	Hull
Raynham	Taunton	
Rehoboth	Attleboro Taunton	Providence RI Sommerset
Revere	Lynn	
Richmond	Stockbridge	Pittsfield West
Rockland	Weymouth	
Rockport	Rockport	
Royalston	Winchendon	
Russell	Blandford	Southwick
Salem	Lynn	
Sandisfield	Tolland Center	
Saugus	Lynn	
Savoy	North Adams	Cheshire
Scituate	Weymouth	
Seekonk	Attleboro	Providence RI

City/Town	Quadrangle Names	
Sharon	Brockton	
Sheffield	Great Britian CT	
Shirley	Ayer	
Shrewsbury	Marlborough	
Sommerset	Sommerset	
Southborough	Marlborough	
Southbridge	Southbridge	
Southwick	Southwick	
South Attleborough	Attleboro	
Southampton	Blandford	Chester
Spencer	Warren	Worcester South
Stockbridge	Stockbridge	
Stoughton	Brockton	
Sturbridge	Sturbridge	
Sutton	Uxbridge	Webster
Swampscott	Lynn	
Swansea	Providence RI	
Taunton	Taunton	Sommerset
Tewksbury	Lowell	
Tolland	Tolland Center	Blandford
Townsend	Ashburnham	Townsend
Tyngsborough	Lowell	
Tyringham	East Lee	
Upton	Uxbridge	



City/Town	Quadrangle Names	
Wales	Southbridge	
Walpole	Brockton	Franklin
Ware	North Brookfield	
Warren	Fall River Warren	North Brookfield
Washington	East Lee	Pittsfield East
Webster	Webster	
Westborough	Marlborough	
Westfield	Blandford	Southwick
Westhampton	Chester	
Westminster	Ashburnham	
Westport	Fall River	Sakonnet Point RI
West Bridgewater	Brockton	Taunton
West Brookfield	Warren	
Weymouth	Weymouth	
Williamstown	Berlin North Adams	Chester
Winchendon	Winchendon	Ashburnham
Windsor	Cheshire	Pittsfield East
Winthrop	Hull	Lynn
Worcester	Worcester South	
Worthington	Chester	Pittsfield East
Wrentham	Franklin	

## Appendix C

### STATE AND FEDERAL AGENCIES CONTRIBUTING TO MATRIX

Massachusetts Highway Department  
Transportation Building  
10 Park Plaza  
Boston, MA 02116  
(617) 973-7800

Massachusetts Water Resources Commission  
251 Causeway Street  
Suite 900  
Boston, MA 02114-2104  
(617) 727-1050

New England Division  
U.S. Army Corps of Engineers  
696 Virginia Road  
Concord, MA 02254  
(978) 318-8118

U.S. Geological Survey  
Informational Services  
Box 25286  
Federal Center  
Denver, CO 80225  
1-888-ASK-USGS

Water Resource Division  
U.S. Geological Survey  
10 Bearfoot Road  
Marlborough, MA 01532  
(508) 490-5000