



Generalized Lithology and Lithogeochemical Character of Near-Surface Bedrock in the New England Region

G.R. Robinson, Jr. and K.E. Kapo, 2003
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Description:

Abstract:

This geographic information system (GIS) data layer shows the dominant lithology and geochemical, termed lithogeochemical, character of near-surface bedrock in the New England region covering the states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. The bedrock units in the map are generalized into groups (rock groups) based on lithological composition, geochemistry, and geologic province divisions by time-stratigraphic groups that share common features of (1) age of formation, (2) geologic setting, (3) tectonic history, and (4) lithology.

Purpose:

This data layer portrays the general lithologic and geochemical (lithogeochemical) character of the near-surface bedrock in New England. The geologic characterization provided in this classification is intended to portray significant bedrock geologic features that influence stream sediment and soil chemistry and water quality in relation to near-surface bedrock units. The term *near-surface bedrock* in this report refers to bedrock (lithified rock) deposits generally with 60 feet or less of overlying glacial or other unconsolidated surficial deposits and to bedrock depths of 500 feet or less, which represents the typical depth range of most drilled bedrock water wells in the region. The thickness of Quaternary sediments

overlying bedrock is generally less than 60 feet in the New England states (Soller, 1993).

The digital geologic data provided in this report has grouped and generalized some of the bedrock units shown on the individual state-level bedrock geologic maps, and does not portray all of the detail shown on the state maps. In addition, a few areas have been modified from those shown on the state maps, for example, additional units portrayed by Smoot (1991) are shown in the Hartford Basin area of Connecticut and Massachusetts and mismatched contacts have been adjusted along state borders. Based on the geologic map compilation scales, mismatches of some unit contacts across state boundaries, and the positional uncertainty of the source digital files relative to the published geologic maps, the spatial accuracy of this compilation is estimated as 1.5 km.

To the degree that surficial materials are related to their proximal bedrock source, the variations in bedrock geology also provide guidelines to the expected variation in the properties and chemistry of surficial materials and surface waters. In glaciated areas, such as New England, the mineralogy of tills and some stratified drift is related to adjacent bedrock units, and bedrock geology has been used to help define their chemical character (Bailey and Hornbeck, 1992). A lithogeochemical framework similar to that provided in this report has been used to define correlations between groundwater chemistry and bedrock geology (Grady and Mullaney, 1988; Ayotte and others, 1999). Groundwater chemistry for alkalinity, pH, Ca, Mg, Na, silica, and radon in surficial aquifers sampled from wells up to 60 feet in depth in surficial aquifers have been shown to correlate with groups of lithology of the underlying bedrock (Grady and Mullaney, 1988). Groundwater chemistry for pH, iron, manganese, and arsenic in fractured crystalline bedrock aquifers sampled from wells up to 500 feet in depth differ by bedrock lithology groups (Ayotte and others, 1999; Ayotte and others, 2003). This geologic characterization provides a framework to interpret regional geochemistry and habitat characteristics in relation to bedrock lithology and geologic provinces that share common features. The lithogeochemical data layer combines and extends data previously compiled for the U.S. Geological Survey National Water Quality Assessment Program (NAWQA) study areas of the New England Coastal Basin (NECB), and the Connecticut, Housatonic, and Thames River Basins (CONN). The coverage provides digital geologic information that may be applied to the analysis of water-quality characteristics of surface water and shallow ground water, and soil and stream sediment characteristics based on bedrock lithogeochemistry.

(Previous Data Releases: Robinson and others, 1999; Robinson and others, 2002.)

Supplemental_Information:

This data set incorporates data from digital maps of two NAWQA study areas, the New England Coastal Basin (NECB) and the Connecticut, Housatonic, and Thames River Basins (CONN) areas and extends data to cover the states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. The result is a regional dataset for the lithogeochemical characterization of New England (NE_LITH). The following information combines and extends the metadata provided for each original digital dataset and includes information on edits and

additions made to the earlier data sets in the final combined coverage. Polygons in the final coverage are attributed according to state, drainage area, geologic province, general rock type, lithogeochemical characteristics, and specific bedrock map unit. The following discussion addresses each attribute in turn for the New England data set.

The coverage is divided by drainage basins based on the USGS National Water Quality Assessment (NAWQA) study areas CONN and NECB. NAWQA program information can be accessed at:

<http://water.usgs.gov/nawqa/studyu.html>

For purposes of focusing on the area of New England in this coverage, two new drainage areas have been added to the coverage: Northern Maine (N_MAINE) and St. Lawrence/Hudson River (STL_HUD) drainage areas. The N_MAINE drainage area covers the area in Maine not included in the NECB study area. The STL_HUD drainage area combines the small portion of the NAWQA Hudson River basin included in this coverage, and the area of northern Vermont not included in a NAWQA study area. These drainage areas are identified under the item "Hydro_Bsn" are as follows:

CONN (Connecticut, Housatonic, and Thames River Basin)
NECB (New England Coastal Basin)
N_MAINE (Northern Maine)
STL_HUD (St. Lawrence, Hudson River Basin)

Figure 1: Hydrologic Basins (Hydro_Bsn)

The bedrock units shown on the individual State maps for the New England study area have been grouped into 10 geologic provinces. The map units in each province group share common features of (1) lithology, (2) age of formation, (3) geologic setting, and (4) tectonic history. The province groups generally occur as northeast trending belts that follow the structural fabric of the Appalachian foldbelt and faults in New England. The geologic provinces are identified in the dataset by item "G_Province" (name) and "G_Prov_id" (symbol). The geologic province groups, listed in general order from west to east, are, by symbol and name, respectively:

(Y) Grenville Belt
(S) Grenville Shelf Sequence
(H) Eugeosynclinal Sequence
(C) Waits River-Gile Mountain Belt
(N) Mesozoic Basin
(B) Bronson Hill Belt
(M) New Hampshire-Maine Sequence
(CM) Coastal Maine
(Z) Avalon Province
(NB) Narragansett Basin

A detailed description of Geologic Province categories is provided in the "Tabled Descriptions" section of this document.

[Figure 2](#): Geologic Provinces of New England (G_Province, G_Prov_id)

The lithogeochemical classification scheme for the New England Lithology data set was first developed as part of the USGS's study of the CONN area (Robinson and others, 1999). The classification scheme is based on geochemical principles, previous studies of the relations among water-quality and ecosystem characteristics and rock type, and regional geology (Robinson, 1997 and references cited within). The classification scheme and data set are intended to provide a general, flexible framework to portray the lithologic character of mapped bedrock units in New England in relation to regional geochemical and water-quality data. The data set is a lithologic map that has been coded to reflect the potential influence of bedrock geology on water quality and sediment chemistry. Information on the map unit identities portrayed on the source bedrock geologic maps for each state are retained in this digital dataset.

The bedrock units in New England have been mapped by time-stratigraphic and other geologic criteria that may not be directly relevant to variation in regional geochemistry and water quality. Bedrock units depicted on the State geologic maps are inconsistent across state boundaries in some areas (See Data_Quality_Information section of this document for explanation on how these discrepancies were addressed with the classification scheme). Thus, a regional coding scheme was developed to reclassify the geologic map units according to mineralogical and chemical characteristics that are relevant for analysis of regional variation in geochemistry and water-quality.

To provide a framework for geochemical investigations, the bedrock units were classified according to the chemical composition (based upon the geologic maps used in the creation of this data set, see references) and the relative susceptibility to weathering of their constituent minerals. Although weathering rates may vary, the relative stability of different minerals during weathering in moist climates is generally consistent (Robinson, 1997). However, the degree to which a rock weathers reflects the proportions of its constituent mineral as well as many other factors such as degree of induration and relative amount of mineral surfaces exposed to water through primary and secondary porosity (Robinson, 1997 and references cited within). Thus, although largely based on the relative stability of rock constituent minerals, the classification scheme to group bedrock units according to effects on soil and sediment chemistry and water quality is more complex than mineral-stability sequences. Most common rock-forming minerals are only sparingly soluble, so that small amounts of highly reactive minerals can have large effects on water quality (Robinson, 1997; Grady and Mullaney, 1998). For example, rocks containing significant amounts of carbonate minerals are more rapidly weathered and tend to produce higher solute concentrations in natural waters than many other rock types. In contrast, rock types such as granite, schist and quartzite, are rich in quartz, muscovite, and (or) alkali-feldspars; these minerals tend to produce low solute concentrations because they react to a lesser degree and at slower rates than other mineral types in humid temperate climates (Robinson, 1997). Further description of the lithogeochemical classification scheme and the

expected water-quality and ecosystem characteristics associated with each lithogeochemical unit is explained in Robinson (1997).

The lithogeochemical classification scheme used in this data set incorporates mineralogical information derived from published descriptions of the bedrock geology map units with other information on geologic features, such as metamorphic grade and geologic setting. The coverage attributes of lithology code ("Litho_code") and modifier code ("Lith_mod") are used to express this lithogeochemical coding of bedrock units. Thirty-seven lithogeochemical units (combinations of lithology and modifier codes) are defined for the New England study region based on the mineral and textural properties of the bedrock unit's constituent minerals, presence of carbonate and sulfide minerals, depositional setting (such as restricted deposition within fault bounded sedimentary basins of Mississippian or younger age), and for some of the granitic units, mineralogy and magma chemistry. The classification scheme used descriptions from State and regional geologic maps (Doll and others, 1961; Osberg and others, 1985; Lyons and others, 1997; Zen and others, 1983; Hermes and others, 1994; and Rogers, 1985; Smoot, 1991). For Rhode Island and Maine, source materials of the State geologic maps were available as digital data layers (Osberg and others, 1985, Maine; Hermes and others, 1994, 1:100,000 scale, Rhode Island).

Information used from these sources included descriptions of the lithology, mineralogy, and weathering characteristics of the bedrock units. For example, "rusty-weathering" serves as an indicator of sulfidic-bearing bedrock units (Robinson,1997). Carbonate and sulfide minerals predominate in the classification scheme because these highly reactive minerals have a disproportionately large effect on water chemistry compared to other minerals commonly found in the rocks of this region (Robinson,1997). In the Maine data set, information about metamorphic grade was also used to classify bedrock units. A digital data layer of generalized regional metamorphic zones (Guidotti,1985, shown in Osberg and others, 1985, was obtained from the Maine Geological Survey. This layer was intersected with the digital bedrock geology to determine the regional metamorphic grade of each polygon in the bedrock geology data layer. Polygons lying within two metamorphic zones were split at the metamorphic-zone boundary. Metamorphic grade and geochemical composition of the protolith (pre-metamorphism source rock) were used to classify polygons into lithogeochemical units. For example, bedrock units with protoliths of "limestone and (or) dolostone" were classified as "limestone, dolomite, and carbonate-rich clastic sediments" (lithogeochemical unit "11u") in areas of none or weak regional metamorphism and as "marble, may include some calc-silicate rock" (lithogeochemical unit "12u") in areas of greenschist facies or high-grade metamorphism.

The thirty-seven lithogeochemical units are defined for the New England study region using an alpha-numeric identification: a lithology code ("Litho_code", numeric) with a modifier code ("Lith_mod", alphabetic).

Example: Litho_code= "33" and Lith_mod= "cs"
Lithological unit is expressed as "33cs"

There are 20 lithology codes (including a code for water) that represent rock type, metamorphic grade, and geologic setting. Each bedrock unit is assigned one of 20 lithology codes based on the description of the bedrock unit from the State bedrock geologic maps. Nine lithological modifier codes are used to identify minor amounts of carbonate and(or) sulfide minerals, and subdivide granitic units into subgroups based on their chemical and mineral characteristics. A detailed listing and descriptions of the 37 lithogeochemical units (lithology and modifier code combinations, such as "33cs") are provided in the "Tabled Descriptions" section of this document under "Item name: Lithogeochemical unit". For definitions of each individual lithology and modifier code, see the "Entity and Attribute Information" section of this document under "Litho_code" and "Lith_mod".

The 37 lithogeochemical units are generalized into major rock group categories (Rock_GpA and Rock_GpB). Each category under these headings shares similarities in overall geochemistry and lithology. Rock Group A ("Rock_gpA") has 8 categories (including one for freshwater). A table of Rock Group A categories is listed below:

- Basin Sedimentary;
- Calcpelite;
- Carbonate Rocks;
- Granite;
- Mafic Rocks;
- Metamorphic Rocks Undivided;
- Unconsolidated Sediments;
- Water;

A detailed description of Rock Group A categories, including lithogeochemical units under each category, is provided in the "Tabled Descriptions" section of this document. As previously discussed, bedrock lithology information was obtained from separate state source maps, and this results in some discrepancies in rock group categories between polygons that meet along state borders. For example, a bedrock polygon that is split into two polygons by a state border may be categorized as "Metamorphic Rocks Undivided" in one state and "Carbonate Rocks" in the other state, based upon the different characterization methods used by the originators of each of the state geologic maps. However, these discrepancies are relatively few and do not interfere with the overall lithologic patterns of the New England study area.

Figure 3: Rock Group A (Rock_GpA)

The eight major groups for Rock Group A are further divided into Rock Group B. Rock Group B ("Rock_GpB") has 19 categories (including one for freshwater). Each category has an ID code ("R_GpB_ID") that is used as a cross reference to other tabled information. A table of Rock Group B categories (R_GpB_ID, column 1) and (Rock_GpB, column 2) are listed below:

- (1) Carbonate-bearing metasedimentary rocks;
- (10) Calcpelite;
- (11) Calcgranofels;

- (20) Mesozoic Basin Sediments;
- (21) Narragansett Basin Sediments;
- (3) Metamorphic rocks, other;
- (30) Pelitic Rocks;
- (31) Sulfidic Schists;
- (4) Mafic Rocks;
- (41) Basalt;
- (5) Ultramafic Rocks;
- (6) Granite, other;
- (60) Felsic Volcanics;
- (61) Grenville Granites;
- (62) Avalon Granites;
- (63) Peraluminous Granites;
- (64) Alkali granites (White Mt);
- (7) Unconsolidated Sediments;
- (0) Water;

Unconsolidated sediments (R_GpB_ID = 7) include both non- and poorly consolidated sediments, and encompasses areas in the south-coastal part of the New England study area where the bedrock is overlain by thick glacial sediments at the surface. These surficial glacial deposits are the primary aquifer for these areas.

A detailed description of Rock Group A categories, including lithogeochemical units under each category, is provided in the "Tabled Descriptions" section of this document. Again, due to differences between original state source maps, some discrepancies may be found in rock group categories between polygons that meet along state borders.

Figure 4: Rock Group B (Rock_GpB)

Individual bedrock unit codes are designated by state from the original state geologic maps used to create the digital coverage (see references for source maps). Names and descriptions for each bedrock code were gathered from source maps and are provided in Appendix Table A. The "Bedrock_1" attribute describes the alphanumeric code given to bedrock units in original state map sources (for example, "Trnh" or "Dw3A"). Some units have been combined (example Bedrock1= "O-cr+O-cra") during the digitizing process. "Bedrock_2" may further designate a polygon as "water" if appropriate, but if the polygon is not a water body "Bedrock_2" is simply a repeat of "Bedrock_1". Further detail of these attributes can be found in the "Tabled Descriptions" section of this document, and Appendix Table A.

The bedrock units shown on the individual State maps for the New England study region were classified according to a lithogeochemical scheme modified from Robinson and others (1999). Specifically, the modification included additional classification into broad rock groups and the subdivision of granitic bedrock units into subgroups based on age and magma chemistry, and the addition of modifying attributes to indicate relative age. However, this modification to the classification system is evident in the lithogeochemical units. Overall, the bedrock units in this coverage for the New England region are classified in a consistent manner that can be used to evaluate the influences of bedrock geology on water-quality characteristics and

sediment chemistry. Examples of how this data set has been used in analyzing water-quality characteristics by lithogeochemical units and rock groups is provided in Grady and Mullaney (1998) and Ayotte and others (2003).

Quality Assurance procedures:

The scientific content of this digital data set underwent technical review by two USGS scientists who have knowledge of the regional geology, and GIS and spatial-data production. The data set was evaluated on positional accuracy, contextual accuracy, attribute accuracy, and topological consistency.

References_Cited:

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Tabled descriptions of Attribute Fields:

Item name: HYDRO_BSN

Four major drainage basin areas are shown for the New England study area:

BASIN NAME	DEFINITION
CONN	Connecticut, Houstanic, and Thames River drainage area
NECB	New England Coastal Basin drainage area
N_MAINE	Northern Maine drainage area
STL_HUD	St. Lawrence and Hudson River drainage area

Item names = G_PROVINCE (name) and G_PROV_ID (id code)

The New England study area is divided into ten geologic provinces, identified both by name (G_PROVINCE) and an identification code (G_PROV_ID). Listed below are descriptions of the ten geologic provinces by both name and identification code, in order from west to east:

PROVINCE and ID	DEFINITION
Grenville Belt (Y)	Includes areas of Grenville Basement (PreCambrian Y metamorphic rocks) in western Connecticut, Massachusetts, and Vermont. Principally granitic gneiss and metasedimentary rocks. Includes some Cambrian metasedimentary rocks deposited on Precambrian basement.
Grenville Shelf Sequence (S)	Principally carbonate rocks and other metasedimentary rocks deposited in a carbonate shelf sequence overlying Grenville basement in western Connecticut, Massachusetts, and Vermont.
Eugeosynclinal Sequence (H)	Includes slates and pelitic metamorphic rocks in the Taconic Range and schists east of the Grenville Belt. Principally Cambrian to Ordovician pelitic metasedimentary rocks, including metavolcanic layers and lenses of ultramafic rocks.
Waits River-Gile Mtn. (C)	Principally Devonian variably-calcareous metasedimentary rocks in eastern Vermont and the northern Connecticut valley in Massachusetts, intruded by Devonian granite.
Mesozoic Basin (N)	Triassic to Jurassic age sediments and basalt flows deposited in localized rift basins in central Connecticut and Massachusetts. Intruded by Jurassic diabase and basalt dikes.
Bronson Hill Sequence (B)	Localized along the eastern Connecticut valley from Connecticut to western New Hampshire and northern Maine. Principally Ordovician igneous

	and metavolcanic rocks overlain by Ordovician to Devonian metasedimentary rocks. Sulfidic schists and mafic rocks are common. Intruded by Devonian granites.
New Hampshire-Maine Sequence (M)	Covers eastern Connecticut, central Massachusetts, eastern New Hampshire, and central Maine. Principally Silurodevonian metasedimentary rocks and Silurodevonian and younger igneous rocks, principally granite.
Coastal Maine (CM)	Localized along northeastern coastal Maine. Principally PreCambrian Z to Silurian metasedimentary and metavolcanic rocks intruded by Devonian granites.
Avalon Province (Z)	Localized in eastern Massachusetts, Rhode Island, and coastal Connecticut. Principally Precambrian Z granite and granitic gneiss and metasedimentary rocks of Precambrian Z to Ordovician age. Intruded by Ordovician to Devonian granites. Cretaceous sediments and thick areas of Quaternary glacial sediments occur in southern coastal areas.
Narragansett Basin (NB)	Permian conglomerates and other sediments deposited in fault-bounded basins in Avalon province rocks in southeastern Massachusetts and Rhode Island.

Item Names: Lithochemical Unit (Litho_code and Litho_mod)

This item represents the primary lithochemical classification scheme used in this data set. Extended table attributes of these lithochemical units, including chemical character of natural waters and sensitivity to acid deposition and other habitat characteristics, are described below in the following sections. For individual definitions of Lithologic codes and modifier codes (not in combination as lithochemical units), see "Entity and Attribute Information" section under "Litho_code" and "Lith_mod".

The following table lists the lithochemical units, with a column order of:

- 1) *Litho_code*
- 2) *Lith_mod*
- 3) *Rock Type (Rock Group B value, Rock Group B ID number)*
- 4) *Description*

11	u	Carbonate Rocks R_GpB_ID = 1	Rock type description: limestone, dolomite, and carbonate-rich clastic sediments Chemical character of natural waters: high alkalinity and high calcium and bicarbonate concentrations; neutral to high pH; may have high concentrations of sulfate and
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			<p>solutes complexed by bicarbonate ions. Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; flora favoring alkaline, high-calcium soils may occur; productive aquatic faunas</p>
12	u	Carbonate Rocks R_GpB_ID = 1	<p>Rock type description: marble, including dolomitic marble; may include some calc-silicate rock</p> <p>Chemical character of natural waters: high alkalinity and high calcium and bicarbonate concentrations; high pH; may have high concentrations of sulfate and solutes complexed by bicarbonate ions.</p> <p>Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; flora favoring alkaline, high-calcium soils may occur; productive aquatic faunas</p>
12	g	Carbonate Rocks R_GpB_ID = 1	<p>Rock_type_description: marble, including dolomitic marble; may contains variable amounts of graphite or organic materials</p> <p>Chemical character of natural waters: high alkalinity and high calcium and bicarbonate concentrations; high pH; may have high concentrations of sulfate and solutes complexed by bicarbonate ions.</p> <p>Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; flora favoring alkaline, high-calcium soils may occur; productive aquatic faunas</p>
12	gc	Carbonate Rocks R_GpB_ID = 1	<p>Rock type description: marble; may contain variable amounts of carbonate minerals and organic materials</p> <p>Chemical character of natural waters: high alkalinity and high calcium and bicarbonate concentrations; neutral to high pH; may have high concentrations of sulfate and solutes complexed by bicarbonate ions.</p> <p>Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; flora favoring alkaline, high-calcium soils may occur; productive aquatic faunas</p>
12	gs	Carbonate Rocks R_GpB_ID = 1	<p>Rock type description: sulfidic marble; may include some calc-silicate rock unit may contain minor amounts of pyrite and (or) pyrrhotite and (or) variable amounts of organic materials, sufficient to cause a rusty-weathering characteristic.</p> <p>Chemical character of natural waters: high alkalinity and high calcium and bicarbonate concentrations; neutral to high pH; may have high concentrations of sulfate and solutes complexed by bicarbonate ions.</p>

			Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; flora favoring alkaline, high-calcium soils may occur; productive aquatic faunas
12	s	Carbonate Rocks R_GpB_ID = 1	Rock type description: sulfidic marble; may include some calc-silicate rock Chemical character of natural waters: high alkalinity and high calcium and bicarbonate concentrations; neutral to high pH; may have high concentrations of sulfate and solutes complexed by bicarbonate ions. Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; flora favoring alkaline, high-calcium soils may occur; productive aquatic faunas
13	u	Calpelites, Carbonate Rocks R_GpB_ID = 10, 1	Rock type description: calcareous clastic and metaclastic rocks containing approximately 15 to 45 percent carbonate minerals Chemical character of natural waters: high alkalinity and high calcium and bicarbonate concentrations; neutral to high pH; may have high concentrations of sulfate and solutes complexed by bicarbonate ions. Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; flora favoring alkaline, high-calcium soils may occur; productive aquatic faunas
21	c	Basin Sedimentary R_GpB_ID = 20, 21	Rock type description: calcareous, locally sulfidic, gray mudstone; carbonate-poor, clastic sedimentary restricted to distinct depositional basins (bedded lithologies below biotite-grade of regional metamorphism) Chemical character of natural waters: generally high sodium and sometimes high calcium and sulfate concentrations; ground water may have moderate to high solute concentrations where acidic or high sulfate concentrations exist; iron concentrations may be high in ground water where Eh and pH are low; distinct ground-water types may be localized within the area of the depositional basin Sensitivity to acid deposition and other habitat characteristics: low to moderate sensitivity to acid deposition; clay soils; variably neutral to acidic; generally lowlands with subdued topography in the study area
22	u	Basin Sedimentary R_GpB_ID = 20, 21	Rock type description: interbedded mudstone, shale, and siltstone; may contain sandstone; carbonate-poor, clastic

			<p>sedimentary rocks restricted to distinct depositional basins (bedded lithologies below biotite-grade of regional metamorphism)</p> <p>Chemical character of natural waters: generally high sodium and sometimes high calcium and sulfate concentrations; ground water may have moderate to high solute concentrations where acidic or high sulfate concentrations exist; iron concentrations may be high in ground water where Eh and pH are low; distinct ground-water.</p>
23	u	Basin Sedimentary R_GpB_ID = 20, 21	<p>Rock type description: sandstone and interbedded sandstone and conglomerate; may contain siltstone, shale, and mudstone; primarily noncalcareous, clastic sedimentary rocks with restricted deposition in discrete fault-bounded sedimentary basins of Mississippian or younger age</p> <p>Chemical character of natural waters: variable Sensitivity to acid deposition and other habitat characteristics: moderately sensitivity to acid deposition</p>
31	u	Pelitic Rocks R_GpB_ID = 30	<p>Rock type description: slate and greywacke; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism.</p> <p>Chemical character of natural waters: low to moderate solute concentrations; generally low calcium-to-sodium ratios; variable potassium-to-sodium ratios; higher calcium concentrations when slightly calcareous</p> <p>Sensitivity to acid deposition and other habitat characteristics: moderate to high sensitivity to acid deposition</p>
31	c	Calcgranofels, Pelitic Rocks R_GpB_ID = 11, 30	<p>Rock type description: slate and graywacke; slightly calcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism.</p> <p>Chemical character of natural waters: low to moderate solute concentrations; variable potassium-to-sodium ratios; higher calcium concentrations when slightly calcareous.</p> <p>Sensitivity to acid deposition and other habitat characteristics: moderate sensitivity to acid deposition</p>
31	gs	Pelitic Rocks R_GpB_ID 30	<p>Rock type description: graphitic and sulfidic slate and greywacke; may include some calc-silicate rock; may contain minor amounts of pyrite and (or) pyrrhotite and (or) variable amounts of organic materials, sufficient to cause a rusty-weathering characteristic</p> <p>Chemical character of natural waters:</p>

			<p>moderate solute concentrations; iron concentrations may be high in ground water where Eh and pH are low; sulfate concentrations may be high</p> <p>Sensitivity to acid deposition and other habitat characteristics: sensitive to acid deposition; endemic floras may occur in acidic metal-rich soils over sulfide-rich horizons</p>
31	s	<p>Pelitic Rocks, Sulfidic Schists R_GpB_ID = 30, 31</p>	<p>Rock type description: graphitic and sulfidic slate and greywacke; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism;</p> <p>Chemical character of natural waters: moderate solute concentrations; iron concentrations may be high in ground water where Eh and pH are low; sulfate concentrations may be high</p> <p>Sensitivity to acid deposition and other habitat characteristics: sensitive to acid deposition; endemic floras may occur in acidic metal-rich soils over sulfide-rich horizons</p>
32	u	<p>Pelitic Rocks R_GpB_ID = 30</p>	<p>Rock type description: pelitic schist and phyllite; may include granofels; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: low to moderate solute concentrations; generally low calcium-to-sodium ratios; variable potassium-to-sodium ratios; higher calcium concentrations when slightly calcareous</p> <p>Sensitivity to acid deposition and other habitat characteristics: moderate to high sensitivity to acid deposition</p>
32	c	<p>Calcgranofels, Metamorphic Rocks R_GpB_ID = 11, 3</p>	<p>Rock type description: pelitic schist and phyllite; may include granofels; noncalcareous to slightly calcareous; primarily noncalcareous to slightly calcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: low to moderate solute concentrations; generally low calcium-to-sodium ratios; variable potassium-to-sodium ratios; higher calcium concentrations when slightly calcareous.</p> <p>Sensitivity to acid deposition and other habitat characteristics: low to moderate sensitivity to acid depositio</p>
32	gc	<p>Metamorphic Rocks R_GpB_ID = 3</p>	<p>Rock type description: pelitic schist and phyllite; may include granofels; graphitic</p>

			<p>and variably calcareous; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: moderate solute concentrations; iron concentrations may be high in ground water where Eh and pH are low;</p> <p>Sensitivity to acid deposition and other habitat characteristics: low to moderate sensitivity to acid deposition</p>
32	s	Sulfidic Schists R_GpB_ID 31	<p>Rock type description: sulfidic schist; may include sulfidic granofels; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: moderate solute concentrations; iron concentrations may be high in ground water where Eh and pH are low; sulfate concentrations may be high</p> <p>Sensitivity to acid deposition and other habitat characteristics: sensitive to acid deposition; endemic floras may occur in acidic metal-rich soils over sulfide-rich horizons</p>
33	u	Pelitic Rocks R_GpB_ID = 30	<p>Rock type description: mixed schist, granofels, and gneiss; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: low to moderate solute concentrations; generally low calcium-to-sodium ratios; variable potassium-to-sodium ratios; higher calcium concentrations when slightly calcareous</p> <p>Sensitivity to acid deposition and other habitat characteristics: moderate to high sensitivity to acid deposition</p>
33	c	Calcgranofels, Metamorphic Rocks R_GpB_ID = 11, 3	<p>Rock type description: mixed schist, granofels, and gneiss; noncalcareous to slightly calcareous; primarily clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: low to moderate solute concentrations; variable potassium-to-sodium ratios; higher calcium concentrations when slightly calcareous</p> <p>Sensitivity to acid deposition and other habitat characteristics: low to moderate sensitivity to acid deposition</p>
33	cs	Calcgranofels, Metamorphic Rocks R_GpB_ID = 11, 3	<p>Rock type description: mixed schist, granofels, and gneiss; noncalcareous to slightly calcareous; variable accessory sulfide minerals</p>

			<p>primarily clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: low to moderate solute concentrations; variable potassium-to-sodium ratios; higher calcium concentrations when slightly calcareous</p> <p>Sensitivity to acid deposition and other habitat characteristics: low to moderate sensitivity to acid deposition</p>
33	s	<p>Metamorphic Rocks, Sulfidic Schists</p> <p>R_GpB_ID = 3, 31</p>	<p>Rock type description: sulfide-bearing schistose granofels and mixed schist and gneiss (sulfidic character may be local); primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: moderate solute concentrations; iron concentrations may be high in ground water where Eh and pH are low; sulfate concentrations may be high</p> <p>Sensitivity to acid deposition and other habitat characteristics: moderately sensitive to acid deposition; endemic floras may occur in acidic metal-rich soils over sulfide-rich horizons</p>
34	u	<p>Metamorphic Rocks</p> <p>R_GpB_ID = 3</p>	<p>Rock type description: quartzose metasandstone, quartzite, quartz granofels, and quartzose gneiss; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: generally low solute concentrations; low pH; high potassium-to-sodium ratios</p> <p>Sensitivity to acid deposition and other habitat characteristics: high sensitivity to acid deposition</p>
34	c	<p>Calcgranofels, Metamorphic Rocks</p> <p>R_GpB_ID = 11, 3</p>	<p>Rock type description: quartzose metasandstone, quartzite, quartz granofels, and quartzose gneiss; primarily noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of waters: generally low solute concentrations; low to neutral pH; high potassium-to-sodium ratios</p> <p>Sensitivity to acid deposition and other habitat characteristics: moderate to high sensitivity to acid deposition</p>
34	cs	<p>Metamorphic Rocks</p> <p>R_GpB_ID = 3</p>	<p>Rock type description: quartzose metasandstone, quartzite, quartz granofels, and quartzose gneiss; contains variable amounts of carbonate minerals, calc-silicate minerals, calcareous and sulfidic areas may be local; primarily</p>

			<p>noncalcareous, clastic sedimentary rocks at or above biotite-grade of regional metamorphism</p> <p>Chemical character of natural waters: low to moderate solute concentrations; iron concentrations may be high in ground water where Eh and pH are low; sulfate concentrations may be high</p> <p>Sensitivity to acid deposition and other habitat characteristics: moderate to high sensitivity to acid deposition</p>
41	u	Basalt R_GpB_ID = 41	<p>Rock type description: basalt</p> <p>Chemical character of natural waters: high calcium- and magnesium-to-sodium ratios; variable silica concentrations (sometimes high due to dissolution of reactive silicates);</p> <p>where Eh and pH are low, iron and manganese concentrations are high</p> <p>Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; may have endemic flora favoring alkaline, high-magnesium and low-potassium soils; productive aquatic faunas where calcium is high in surface waters</p>
42	u	Mafic Rocks R_GpB_ID = 4	<p>Rock type description: amphibolite, greenstone, greenschist-facies metavolcanics, and schistose mafic rock with minor dispersed carbonate;</p> <p>Chemical character of natural waters: high calcium- and magnesium-to-sodium ratios; variable silica concentrations (sometimes high due to dissolution of reactive silicates);</p> <p>where Eh and pH are low, iron and manganese concentrations are high</p> <p>Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; may have endemic flora favoring alkaline, high-magnesium and low-potassium soils; productive aquatic faunas where calcium is high in surface waters</p>
43	u	Mafic Rocks R_GpB_ID = 4	<p>Rock type description: mafic gneiss and mafic lithologies mixed with felsic volcanics and(or) metaclastic lithologies</p> <p>Chemical character of natural waters: high calcium- and magnesium-to-sodium ratios; variable silica concentrations (sometimes high due to dissolution of reactive silicates);</p> <p>where Eh and pH are low, iron and manganese concentrations are high</p> <p>Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; may have endemic flora favoring alkaline, high-magnesium and low-</p>

			potassium soils; productive aquatic faunas where calcium is high in surface waters
43	s	Mafic Rocks R_GpB_ID = 4	Rock type description: mafic gneiss and mafic lithologies mixed with felsic volcanics and(or) metaclastic lithologies; sulfide-bearing units may be local Chemical character of natural waters: high calcium- and magnesium-to-sodium ratios; variable silica concentrations (sometimes high due to dissolution of reactive silicates); where Eh and pH are low, iron and manganese concentrations are high Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; may have endemic flora favoring alkaline, high-magnesium and low-potassium soils; productive aquatic faunas where calcium is high in surface waters
44	u	Mafic Rocks R_GpB_ID = 4	Rock type description: mafic plutonic rocks, including gabbro, diorite, monzodiorite, and diabase Chemical character of natural waters: high calcium- and magnesium-to-sodium ratios; variable silica concentrations (sometimes high due to dissolution of reactive silicates); where Eh and pH are low, iron and manganese concentrations are high Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; may have endemic flora favoring alkaline, high-magnesium and low-potassium soils; productive aquatic faunas where calcium is high in surface waters
45	u	Mafic Rocks R_GpB_ID = 4	Rock type description: mixed fine-grained felsic, mafic and(or) intermediate volcanic rocks Chemical character of natural waters: low to moderate solute concentrations; variable concentrations of silica and major ions Sensitivity to acid deposition and other habitat characteristics: variable
50	u	Ultramafic Rocks R_GpB_ID = 5	Rock type description: ultramafic rocks, including serpentinites, dunites, peridotites, and talc schists Chemical character of natural waters: high magnesium-to-calcium ratios; relatively high silica concentrations due to dissolution of reactive silicates; ground water may have low Eh values and high metal concentrations Sensitivity to acid deposition and other habitat characteristics: low sensitivity to acid deposition; frequently has endemic flora favoring high-magnesium, low-

			potassium, alkaline soils
61	u	Grenville Granite R_GpB_ID = 61 Avalon Granite R_GpB_ID = 62 Peraluminous Gr. R_GpB_ID = 63 Alkali Granite R_GpB_ID = 64 Other Granite R_GpB_ID = 6	Rock type description: granitoid plutonic rocks, including granite, quartz monzonite, granodiorite, tonalite, trondhjemite, and equivalent gneiss Chemical character of natural waters: generally low solute concentrations; relatively high bicarbonate and silica concentrations; calcium and magnesium concentrations generally are low; relatively low pH; fluoride, uranium, and radon concentrations may be high Sensitivity to acid deposition and other habitat characteristics: high
61	v	Felsic Volcanics R_GpB_ID = 60	Rock type description: fine-grained felsic rocks of volcanic and subvolcanic origin; includes feldspathic hypabyssal dikes and flows Chemical character of natural waters: generally low solute concentrations; relatively high bicarbonate and silica concentrations; calcium and magnesium concentrations generally are low; fluoride, uranium, and radon concentrations may be high Sensitivity to acid deposition and other habitat characteristics: high quartz monzonite, granodiorite, trondhjemite, and equivalent gneiss
62	u	Other Granite R_GpB_ID = 6 Grenville Granite R_GpB_ID = 61 Peraluminous Gr. R_GpB_ID = 63	Rock type description: granitoid plutonic rocks, including granite, quartz monzonite, granodiorite, tonalite, trondhjemite, and equivalent gneiss Chemical character of natural waters: generally low solute concentrations; relatively high bicarbonate and silica concentrations; calcium and magnesium concentrations generally are low; Sensitivity to acid deposition and other habitat characteristics: high
62	n	Other Granite R_GpB_ID = 6 Peraluminous Gr. R_GpB_ID = 63	Rock type description: nepheline syenite, granitoid plutonic rocks Chemical character of natural waters: generally low solute concentrations; relatively high bicarbonate and silica concentrations; calcium and magnesium concentrations generally low; neutral to relatively high pH ground water; fluoride, uranium, and radon concentrations may be high Sensitivity to acid deposition and other habitat characteristics: high
70	u	Unconsolidated Sediments R_GpB_ID = 7	Rock type description: unconsolidated or poorly consolidated marine and(or) glacial sediments

			Chemical character of natural waters: variable Sensitivity to acid deposition and other habitat characteristics: not applicable
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Item Names: Rock_GpA and Rock_GpB

The dominant bedrock lithologies can be selected by the "Rock Group A" item heading. The Rock Group A category contains 7 lithologic categories and a category for freshwater. Rock Group A can be further divided into more specific lithology groups, in the attribute Rock Group B. The Rock Group B category contains 18 lithologic categories and a category for freshwater. Below is an outline of all the major (A) and minor (B) rock groups.

ROCK GROUP A =	ROCK GROUP B =
Basin Sedimentary	Mesozoic Basin Sediments, Narragansett Basin Sediments
Calcpelite	Calcpelite
Carbonate Rocks	Carbonate Rocks
Granite	Avalon Granite, Alkali Granite, Granite (other), Grenville Granite, Peraluminous Granite, Felsic Volcanics
Mafic Rocks	Basalt, Mafic Rocks, Ultramafic Rocks
Metamorphic Rocks Undivided	Calcgranofels, Pelitic Rocks, Sulfidic Schists, Metamorphic Rocks (other)
Unconsolidated Sediments	Unconsolidated Sediments
Water	Water

The Rock Group fields categorize the 37 lithochemical units into related groups with differing degrees of detail. Below is a listing of the lithochemical units in each Rock Group:

Rock Group A (Rock_GpA), with the lithogeochemical unit(s) (litho_code + lith_mod) contained in each category:

ROCK GROUP A	LITHOGEOCHEMICAL UNITS
Basin Sedimentary	21c, 22u, 23u
Calcpelite	13u, 34c
Carbonate Rocks	11u, 12u, 12g, 12gc, 12gs, 12s, 13u
Granite	61u, 61v, 62u, 62n
Mafic Rocks	41u, 42u, 43u, 43s, 44u, 45u, 50u
Metamorphic Rocks Undivided	11u, 12u, 31u, 31c, 31gs, 31s, 32u, 32c, 2gc, 32s, 33u, 33c, 33cs, 33s, 34u, 34c, 34cs
Unconsolidated Sed.	70u
Water	-9999 (none)

Rock Group B (Rock_GpB), ID (R_GpB_ID), and the lithogeochemical unit(s) (litho_code + lith_mod) contained in each category:

ROCK GROUP B	ID	LITHOGEOCHEMICAL UNITS
Carbonate Rocks	1	11u, 12u, 12gs, 12s
Calcpelite	10	13u, 34c
Calcgranofels	11	31c, 32c, 33c, 34c, 34cs
Mesozoic Basin Sed.	20	21c, 22u, 23u
Narragansett Basin Sed.	21	23u
Metamorphic Rocks, other	3	33c, 34u, 34c, 34cs, 34s
Pelitic Rocks	30	31u, 31c, 31gs, 32u, 32c, 32gc, 33u
Sulfidic Schists	31	31s, 32s, 33cs, 33s
Mafic Rocks	4	41u, 42u, 43u, 43s, 44u, 45u
Basalt	41	41u
Ultramafic Rocks	5	50u
Granite, other	6	61u, 62u, 62n
Felsic volcanics	60	61v
Grenville Granite	61	61u
Avalon Granite	62	61u, 62u
Peraluminous Granite	63	61u
Alkali Granite	64	61u, 62u, 62n
Unconsolidated Sed.	70	70u
Water	0	-9999

Appendix A:

Lithologic Descriptions by State:

State (column 1), Province (column 2), Rock Group B (column 3), Bedrock Unit (column 4), Description (column 5).

Abbreviations used in the bedrock descriptions are from source materials, for Connecticut, Rodgers and others, 1985 and Hermes and others, 1994; for Massachusetts, Zen and others, 1983; for Maine, Osberg and others, 1985 and Guidotti, 1985; for New Hampshire, Lyons and others, 1997; for Rhode Island, Hermes and others, 1994. Geologic and formation names listed below are the geologic names used on the cited geologic base maps, which may not conform with the North American Stratigraphic Code, with current usage, or with current U.S. Geological Survey editorial standards. Current status of geologic name usage may be obtained from the Internet at <http://ngmdb.usgs.gov/Geolex/> accessed 2/02/03.

Appendix A Table:

Connecticut				
State	Province	Rock Group B	Bedrock Unit	Name/Description
CT	Grenville Belt	Metamorphic Rocks, other	Cc	Cheshire Quartzite
CT	Grenville Belt	Metamorphic Rocks, other	Cd	Dalton Formation
CT	Grenville Shelf Sequence	Metamorphic Rocks, other	Cd	Dalton Formation

State	Province	Rock Group B	Bedrock Unit	Name/Description
CT	Eugeosyncline Sequence	Pelitic Rocks	Ce	Everett Schist
CT	Eugeosyncline Sequence	Pelitic Rocks	Ch	Hoosac Schist
CT	Grenville Belt	Pelitic Rocks	Ch	Hoosac Schist
CT	Eugeosyncline Sequence	Pelitic Rocks	Cm	Manhattan Schist
CT	Grenville Shelf Sequence	Pelitic Rocks	Cm	Manhattan Schist
CT	Eugeosyncline Sequence	Mafic Rocks	Cma	Manhattan Schist
CT	Grenville Belt	Sulfidic Schists	Cmcl	Manhattan Schist, Canaan Mtn. Schist
CT	Eugeosyncline Sequence	Sulfidic Schists	Cmcu	Manhattan Schist, Canaan Mtn. Schist
CT	Eugeosyncline Sequence	Sulfidic Schists	Cmcub	Manhattan Schist, Canaan Mtn. Schist
CT	Grenville Shelf Sequence	Carbonate Rocks	Csb	Stockbridge Marble; unit b
CT	Grenville Shelf Sequence	Carbonate Rocks	Csc	Stockbridge Marble; unit c
CT	Eugeosyncline Sequence	Granite, other	Cwb	Waterbury Gneiss
CT	NH-ME Sequence	Mafic Rocks	D?d	quartz diorite
CT	Bronson Hill Sequence	Pelitic Rocks	Dbl	Littleton Formation
CT	NH-ME Sequence	Pelitic Rocks	Dblm	Littleton Formation, Mount Pisgah Mbr.
CT	NH-ME Sequence	Granite, other	Dc	Canterbury Gneiss
CT	Avalon Belt	Granite, other	Dc	Canterbury Gneiss
CT	NH-ME Sequence	Granite, other	Dce	Canterbury Gneiss, "Eastford gneiss phase"
CT	Bronson Hill Sequence	Pelitic Rocks	De	Erving Formation
CT	NH-ME Sequence	Granite, other	Dgg	granite gneiss
CT	NH-ME Sequence	Mafic Rocks	Dl	Lebanon Gabbro (Lebanon Granite)
CT	Bronson Hill Sequence	Granite, other	Dm	Maromas Granite Gniess
CT	NH-ME Sequence	Mafic Rocks	Dn	hornblende norite
CT	Eugeosyncline Sequence	Granite, other	Dng	Nonewaug Granite
CT	NH-ME Sequence	Pelitic Rocks	DSs	Scotland Schist
CT	Avalon Belt	Pelitic Rocks	DSs	Oakdale Formation, Scotland Schist Mbr.
CT	NH-ME Sequence	Metamorphic Rocks, other	DSsq	Oakdale Formation, Scotland Schist Mbr.
CT	Eugeosyncline Sequence	Pelitic Rocks	Dst	Hartland Belt; The Straits Schist
CT	Eugeosyncline Sequence	Pelitic Rocks	DSw	Wepawaug Schist
CT	Bronson Hill Sequence	Basalt	Jb	Buttress Dolerite
CT	Mesozoic Basin	Basalt	Jb	Buttress Dolerite
CT	Eugeosyncline Sequence	Basalt	Jb	Buttress Dolerite
CT	Mesozoic Basin	Mafic Rocks	Jb?	Buttress Dolerite
CT	Mesozoic Basin	Mesozoic Basin Sed.	Jeb	East Berlin Formation
CT	Mesozoic Basin	Mesozoic Basin Sed.	Jeb	East Berlin Formation

State	Province	Rock Group B	Bedrock Unit	Name/Description
CT	Mesozoic Basin	Basalt	Jha	Hampden Basalt
CT	Eugeosyncline Sequence	Basalt	Jha	Hampden Basalt
CT	Mesozoic Basin	Basalt	Jho	Holyoke Basalt
CT	Mesozoic Basin	Mesozoic Basin Sed.	Jp	Portland Arkose
CT	Mesozoic Basin	Mesozoic Basin Sed.	Jp?	Portland Arkose
CT	Mesozoic Basin	Mesozoic Basin Sed.	Jp+Trnh	(See Jp and Trnh descriptions)
CT	Mesozoic Basin	Mesozoic Basin Sed.	Jsm	Shuttle Meadow Formation
CT	Mesozoic Basin	Basalt	Jta	Talcott Basalt
CT	Mesozoic Basin	Basalt	Jwr	West Rock Dolerite
CT	Mesozoic Basin	Mafic Rocks	Jwr	West Rock Dolerite
CT	Eugeosyncline Sequence	Mafic Rocks	Jwr	West Rock Dolerite
CT	Mesozoic Basin	Mafic Rocks	Jwr?	West Rock Dolerite
CT	Eugeosyncline Sequence	Mafic Rocks	Oa+Oma	Allingtown metavolcanics and Maltby Lakes metavolcanics
CT	Eugeosyncline Sequence	Mafic Rocks	Ob	Brookfield Gneiss
CT	NH-ME Sequence	Sulfidic Schists	Obr	Brimfield Schist
CT	NH-ME Sequence	Sulfidic Schists	Obr?	Brimfield Schist
CT	NH-ME Sequence	Mafic Rocks	Obrg	Brimfield Schist
CT	Eugeosyncline Sequence	Metamorphic Rocks, other	Obs	Bristol Gneiss
CT	Eugeosyncline Sequence	Pelitic Rocks	Oc	Collinsville Formation
CT	Eugeosyncline Sequence	Pelitic Rocks	Oc+Ot	(See Oc and Ot descriptions)
CT	Eugeosyncline Sequence	Mafic Rocks	OC-r	Rowe Schist
CT	Eugeosyncline Sequence	Mafic Rocks	OC-ra	Rowe Schist; amphibolite mbr.
CT	Eugeosyncline Sequence	Mafic Rocks	OC-r+OC-ra	(See OC-r and OC-ra descriptions)
CT	Grenville Shelf Sequence	Carbonate Rocks	OC-s	Stockbridge Marble
CT	Eugeosyncline Sequence	Mafic Rocks	Ocg	Collinsville Formation
CT	Bronson Hill Sequence	Sulfidic Schists	Och	Collins Hill Formation
CT	Bronson Hill Sequence	Sulfidic Schists	Och+Om	(See Och and Om descriptions)
CT	Bronson Hill Sequence	Mafic Rocks	Ochv	Collins Hill Formation
CT	Eugeosyncline Sequence	Pelitic Rocks	Ocm	Cobble Mtn. Formation
CT	Eugeosyncline Sequence	Pelitic Rocks	Ocs	Collinsville Fm., Sweetheart Mt. Mbr.
CT	Grenville Belt	Granite, other	Og	granitic gneiss
CT	Eugeosyncline Sequence	Granite, other	Og	granitic gneiss
CT	Eugeosyncline Sequence	Granite, other	Og?	granitic gneiss
CT	Grenville Belt	Grenville Granites	Og+Yg	(See Og and Yg descriptions)
CT	Eugeosyncline Sequence	Pelitic Rocks	Ogh	Golden Hill Schist
CT	Eugeosyncline Sequence	Pelitic Rocks	Ogh?	Golden Hill Schist
CT	Bronson Hill Sequence	Granite, other	Ogl	Glastonbury Gneiss
CT	Eugeosyncline Sequence	Mafic Rocks	Oh	Harrison Gneiss

State	Province	Rock Group B	Bedrock Unit	Name/Description
CT	Eugeosyncline Sequence	Mafic Rocks	Oh?	Harrison Gneiss
CT	Eugeosyncline Sequence	Mafic Rocks	Ohb	Harrison Gneiss, Beardsley Mbr.
CT	Eugeosyncline Sequence	Calcgranofels	Ohc	Hawley Formation
CT	Eugeosyncline Sequence	Mafic Rocks	Ohp	Harrison Gneiss, Pumpkin Ground Mbr.
CT	Eugeosyncline Sequence	Mafic Rocks	Ohp+Ob	(See Ohp and Ob descriptions)
CT	Eugeosyncline Sequence	Mafic Rocks	Ohp+Oh	(See Ohp and Oh descriptions)
CT	Eugeosyncline Sequence	Mafic Rocks	Ol	Litchfield Norite
CT	Bronson Hill Sequence	Mafic Rocks	Om	Middletown Formation
CT	NH-ME Sequence	Mafic Rocks	Om	Middletown Formation
CT	Eugeosyncline Sequence	Mafic Rocks	Omal	Maltby Lakes Metavolcanics
CT	Eugeosyncline Sequence	Mafic Rocks	Omau	Maltby Lakes Metavolcanics
CT	Bronson Hill Sequence	Mafic Rocks	Omm	Middletown Formation
CT	Bronson Hill Sequence	Mafic Rocks	Omo	Monson Gneiss
CT	Bronson Hill Sequence	Mafic Rocks	Omo+Oml+Och	(See Omo, Oml, and Och descriptions)
CT	Bronson Hill Sequence	Pelitic Rocks	Omu	Middletown Formation
CT	Bronson Hill Sequence	Pelitic Rocks	Omu	Middletown Formation
CT	Eugeosyncline Sequence	Pelitic Rocks	Oo	Oronogue Schist
CT	Avalon Belt	Mafic Rocks	Op	Preston Gabbro
CT	Avalon Belt	Mafic Rocks	Op+Oq	(See Op and Oq)
CT	Avalon Belt	Mafic Rocks	Opd	Preston Gabbro
CT	Avalon Belt	Mafic Rocks	Oq	Quinebaug Formation
CT	NH-ME Sequence	Mafic Rocks	Oq	Quinebaug Formation
CT	Avalon Belt	Granite, other	Oqf	Quinebaug Formation
CT	Eugeosyncline Sequence	Pelitic Rocks	Or	Ratlum Mtn. Schist
CT	Eugeosyncline Sequence	Pelitic Rocks	Or+OC-r+Ora	(See Or, OC-r, and Ora)
CT	Eugeosyncline Sequence	Mafic Rocks	Ora	Ratlum Mtc. Schist
CT	Grenville Shelf Sequence	Carbonate Rocks	Ose	Stockbridge Marble
CT	Eugeosyncline Sequence	Pelitic Rocks	Ot	Taine Mtn. Formation
CT	Eugeosyncline Sequence	Pelitic Rocks	Ot+Otb+Oc+	(See Ot, Otb, Oc, and DSts)
			DSts	
CT	Avalon Belt	Pelitic Rocks	Ota	Tatnic Hill Formation
CT	Avalon Belt	Metamorphic Rocks, other	Ota+SOh	(See Ota and SOh)
CT	Eugeosyncline Sequence	Granite, other	Otf+Og	(See Otf and Og)
CT	Eugeosyncline Sequence	Sulfidic Schists	Otfc	Trap Falls Formation, Carringtons Pond Mbr.
CT	Eugeosyncline Sequence	Pelitic Rocks	Otfg	Trap Falls Formation
CT	Eugeosyncline Sequence	Pelitic Rocks	Otfg+Otf+	(See Otfg, Otf+, and Otf)
			Otf	
CT	Eugeosyncline Sequence	Pelitic Rocks	Otfs	Trap Falls Formation, Shelton Mbr.

State	Province	Rock Group B	Bedrock Unit	Name/Description
CT	Eugeosyncline Sequence	Pelitic Rocks	Ots	Taine Mtn. Formation, Scranton Mtn. Mbr.
CT	Eugeosyncline Sequence	Pelitic Rocks	Otw	Taine Mtn. Formation, Wildcat Mbr.
CT	Eugeosyncline Sequence	Pelitic Rocks	Otwv	Whigville Mbr.
CT	Grenville Shelf Sequence	Pelitic Rocks	Ow	Walloomsac Schist
CT	Grenville Shelf Sequence	Pelitic Rocks	Ow	Walloomsac Schist
CT	Grenville Shelf Sequence	Carbonate Rocks	Owm	Walloomsac Schist
CT	Avalon Belt	Peraluminous Granite	Pn	Narragansett Pier Granite
CT	Eugeosyncline Sequence	Granite, other	Pp	porphyry
CT	Eugeosyncline Sequence	Granite, other	Ppa	Pinewood Adamallite
CT	Avalon Belt	Peraluminous Granite	Pw	Westerly Granite
CT	Avalon Belt	Mafic Rocks	Pzmy	mylonite along Paleozoic faults
CT	Avalon Belt	Unconsolidated Sed.	Qal	Unconsolidated sediments
CT	Bronson Hill Sequence	Metamorphic Rocks, other	Sbc	Clough Quartzite
CT	Bronson Hill Sequence	Metamorphic Rocks, other	Sbf	Fitch Formation
CT	NH-ME Sequence	Sulfidic Schists	SObu	Bigelow Brook Fm., upper member
CT	NH-ME Sequence	Calcgranofels	SOh	Hebron Gneiss (Hebron Formation)
CT	Avalon Belt	Metamorphic Rocks, other	SOh	Hebron Gneiss (Hebron Formation)
CT	Avalon Belt	Metamorphic Rocks, other	SOh	Hebron Gneiss (Hebron Formation)
CT	NH-ME Sequence	Calcgranofels	SOh+Ota+Otaf+ Otay+SObu	(See SOh, Ota, Otaf, Otay, SObu)
CT	NH-ME Sequence	Granite, other	SOsp	Southbridge Formation
CT	Eugeosyncline Sequence	Metamorphic Rocks, other	Stb	Straits Schist
CT	Mesozoic Basin	Mesozoic Basin Sed.	Trnh	New Haven Arkose
CT	Mesozoic Basin	Mesozoic Basin Sed.	Trnh	New Haven Arkose
CT	Mesozoic Basin	Mafic Rocks	Trnh+Jb	(See Trnh and Jb)
CT	Mesozoic Basin	Mesozoic Basin Sed.	Trnh+Jsm+Jta	(See Trnh, Jsm, and Jta)
CT	Grenville Belt	Ultramafic Rocks	u	Ultramafic rock
CT	Eugeosyncline Sequence	Ultramafic Rocks	u	Ultramafic rock
CT	Grenville Belt	Grenville Granites	Yg	granitic gneiss, gneiss, and schist
CT	Grenville Belt	Grenville Granites	Yga	augen gneiss
CT	Grenville Belt	Mafic Rocks	Ygh	hornblende gneiss and amphibolite
CT	Grenville Belt	Metamorphic Rocks, other	Ygn	gneiss
CT	Grenville Belt	Grenville Granites	Ygr	granitic gneiss
CT	Grenville Belt	Grenville Granites	Ygr+Yga	(See Ygr and Yga)
CT	Grenville Belt	Sulfidic Schists	Ygs	mica schist and gneiss porphyroclasts
CT	Avalon Belt	Avalon Granite	Zl	Sterling Plutonic Suite (Group), LightHouse Gneiss

State	Province	Rock Group B	Bedrock Unit	Name/Description
CT	Avalon Belt	Metamorphic Rocks, other	Zp	Plainfield Formation
CT	Avalon Belt	Avalon Granite	Zp+Zsc+Pn	(See Zp, Zsc, and Pn)
CT	Avalon Belt	Avalon Granite	Zp+Zsph+Pn	(See Zp, Zsph, and Pn)
CT	Avalon Belt	Granite, other	Zp+Zsph+Pn?	(See Zp, Zsph, and Pn)
CT	Avalon Belt	Metamorphic Rocks, other	Zpq	Quartzite unit in Plainfield Formation
CT	Avalon Belt	Avalon Granite	Zsc+Pn+Zw	(See Zsc, Pn and Zw)
CT	Avalon Belt	Granite, other	Zsc+Pn+Zw	(See Zsc, Pn and Zw)
CT	Avalon Belt	Avalon Granite	Zsh	Hope Valley Alaskite Gneiss
CT	Avalon Belt	Avalon Granite	Zsh+Pnm	(See Zsh and Pnm)
CT	Avalon Belt	Avalon Granite	Zsph	Sterling Plutonic Suite, Potter Hill Granite
CT	Avalon Belt	Avalon Granite	Zsph+Pn	Sterling Plutonic Suite, Potter Hill Granite
CT	Avalon Belt	Granite, other	Zsph+Pn	Sterling Plutonic Suite, Potter Hill Granite
CT	Avalon Belt	Avalon Granite	Zss	Scituate Granite Gneiss
CT	Avalon Belt	Mafic Rocks	Zw	Waterford Group
CT	Avalon Belt	Avalon Granite	Zw+Zb	Waterford Group
CT	Avalon Belt	Avalon Granite	Zwm	Waterford Group: Mamacoke Formation
CT	Avalon Belt	Metamorphic Rocks, other	Zwn	Waterford Group, New London Gneiss
CT	Avalon Belt	Avalon Granite	Zwnj	Waterford Group, New London Gneiss
CT	Avalon Belt	Avalon Granite	Zwr	Waterford Group, Rope Ferry Gneiss
CT	Avalon Belt	Avalon Granite	Zwr+Zwm	(See Zwr and Zwm)
Massachusetts				
MA	Avalon Belt	Pelitic Rocks	C-bw	Braintree Argillite and Weymouth Fmargillite
MA	Grenville Belt	Metamorphic Rocks, other	C-c	Cheshire quartzite
MA	Grenville Belt	Metamorphic Rocks, other	C-c+C-Zd	(See C-c and C-Zd)
MA	Avalon Belt	Pelitic Rocks	C-g	Green Lodge Fm of Rhodes and Graves(1931)
MA	Avalon Belt	Pelitic Rocks	C-h	Hoppin Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-hh	Hatch Hill Formation
MA	Grenville Shelf Sequence	Metamorphic Rocks, other	C-sa	Stockbridge Fm
MA	Grenville Shelf Sequence	Carbonate Rocks	C-sb	Stockbridge Fm
MA	Grenville Shelf Sequence	Carbonate Rocks	C-sc	calcitic dolomite marble

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	Eugeosyncline Sequence	Pelitic Rocks	C-sc	calcitic dolomite marble
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zcm	Canaan Mountain Fm
MA	Grenville Belt	Pelitic Rocks	C-Zd	Dalton Fm
MA	Grenville Belt	Metamorphic Rocks, other	C-Zd	Dalton Fm
MA	Grenville Belt	Metamorphic Rocks, other	C-Zdbs	Dalton Fm
MA	Grenville Belt	Metamorphic Rocks, other	C-Zdbs+C-Zd	(See C-Zdbs and C-Zd)
MA	Grenville Belt	Metamorphic Rocks, other	C-Zdc	Dalton Fm
MA	Grenville Belt	Metamorphic Rocks, other	C-Zdq	Dalton Fm
MA	Grenville Belt	Metamorphic Rocks, other	C-Zds	Dalton Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zev	Everett Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zev	Everett Fm
MA	Grenville Shelf Sequence	Pelitic Rocks	C-Zev	Everett Fm
MA	Grenville Shelf Sequence	Pelitic Rocks	C-Zev+Ow	Part of Everett and Walloomsac formations
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zevc	Everett Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zg	Greylock Schist
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zg	Greylock Schist
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zga	Greylock Schist
MA	Grenville Shelf Sequence	Pelitic Rocks	C-Zga	Greylock Schist
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zh	Hoosac Fm; undifferentiated
MA	Grenville Belt	Pelitic Rocks	C-Zh	Hoosac Fm; undifferentiated
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zh	Hoosac Fm; undifferentiated
MA	Grenville Belt	Pelitic Rocks	C-Zhd	Hoosac Fm
MA	Grenville Belt	Pelitic Rocks	C-Zhdc	Hoosac Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zhg	Hoosac Fm
MA	Grenville Belt	Pelitic Rocks	C-Zhg	Hoosac Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zhga	Hoosac Fm
MA	Grenville Belt	Pelitic Rocks	C-Zhga	Hoosac Fm
MA	Grenville Belt	Metamorphic Rocks, other	C-Zhga	Hoosac Fm
MA	Grenville Belt	Pelitic Rocks	C-Zhgt	lustrous greenish-gray schist
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zhr	Hoosac Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zn	Nassau Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zna	Nassau Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Zngy	Nassau Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Znp	Nassau Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Znr	Nassau Fm; Rensselaer Graywacke member
MA	Bronson Hill Sequence	Ultramafic Rocks	C-Znr	Nassau Fm; Rensselaer Graywacke member
MA	Eugeosyncline Sequence	Pelitic Rocks	C-Znv	Nassau Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	Eugeosyncline Sequence	Mafic Rocks	C-Znv	Nassau Fm
MA	NH-ME Sequence	Mafic Rocks	Dbi	Belchertown Complex
MA	Bronson Hill Sequence	Mafic Rocks	Dbmdg	Belchertown Complex
MA	Bronson Hill Sequence	Mafic Rocks	Dbp	Belchertown Complex
MA	Bronson Hill Sequence	Mafic Rocks	Dbt	Belchertown Complex
MA	NH-ME Sequence	Peraluminous Granite	Dcgr	Chelmsford granite
MA	NH-ME Sequence	Granite, other	Dchgr	Coys Hill porphyritic granite gneiss
MA	NH-ME Sequence	Mafic Rocks	Dchh	Coys Hill porphyritic granite gneiss
MA	Avalon Belt	Granite, other	Dcygr	Cherry Hill Granite
MA	NH-ME Sequence	Mafic Rocks	Ddi	Hardwick Tonalite
MA	Bronson Hill Sequence	Mafic Rocks	Ddi	Hardwick Tonalite
MA	NH-ME Sequence	Mafic Rocks	Ddi	Hardwick Tonalite
MA	NH-ME Sequence	Mafic Rocks	Ddi+Ddn	Hardwick Tonalite
MA	NH-ME Sequence	Mafic Rocks	Ddn	Hardwick Tonalite
MA	Bronson Hill Sequence	Pelitic Rocks	De	Erving Fm
MA	Bronson Hill Sequence	Mafic Rocks	Dea	Erving Fm
MA	Bronson Hill Sequence	Pelitic Rocks	Deg	Erving Fm
MA	Bronson Hill Sequence	Sulfidic Schists	Dev	Erving Fm
MA	NH-ME Sequence	Granite, other	Dfgd	Fitchburg Complex
MA	NH-ME Sequence	Granite, other	Dfgds	Fitchburg Complex
MA	NH-ME Sequence	Granite, other	Dfgr	Fitchburg Complex
MA	NH-ME Sequence	Granite, other	Dfgrg	Fitchburg Complex
MA	Waits River-Gile Mtn.	Pelitic Rocks	Dg	Goshen Fm
MA	Waits River-Gile Mtn.	Calcpelite	Dgc	Goshen Fm
MA	NH-ME Sequence	Granite, other	Dgd	Granodiorite
MA	Waits River-Gile Mtn.	Calcpelite	Dgl	Goshen Fm
MA	Waits River-Gile Mtn.	Calcpelite	Dgm	Gile Mountain Fm
MA	Waits River-Gile Mtn.	Calcpelite	Dgm+Dgma	Gile Mountain Fm
MA	Waits River-Gile Mtn.	Mafic Rocks	Dgma	Gile Mountain Fm
MA	Waits River-Gile Mtn.	Pelitic Rocks	Dgq	Goshen Fm
MA	Waits River-Gile Mtn.	Metamorphic Rocks, other	Dgq	Goshen Fm
MA	NH-ME Sequence	Granite, other	Dgr	Biotite-muscovite granite, slightly foliated
MA	Waits River-Gile Mtn.	Calcgranofels	Dgu	Goshen Fm
MA	Waits River-Gile Mtn.	Calcgranofels	Dgu+Dga	(See Dgu and Dga)
MA	NH-ME Sequence	Sulfidic Schists	Dhgr	Hardwick Tonalite
MA	NH-ME Sequence	Mafic Rocks	Dht	Hardwick Tonalite
MA	NH-ME Sequence	Mafic Rocks	Dht	Hardwick Tonalite
MA	NH-ME Sequence	Pelitic Rocks	DI	Littleton Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	Bronson Hill Sequence	Pelitic Rocks	Dl	Littleton Fm
MA	NH-ME Sequence	Pelitic Rocks	Dl	Littleton Fm
MA	NH-ME Sequence	Pelitic Rocks	Dl+Ops	(See Dl and Ops)
MA	NH-ME Sequence	Pelitic Rocks	Dlf	Littleton Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Dlf	Littleton Fm
MA	NH-ME Sequence	Calcgranofels	Dlm	Littleton Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Dlo	Littleton Fm
MA	Eugeosyncline Sequence	Granite, other	Dmg	Middlefield Granite
MA	Waits River-Gile Mtn.	Granite, other	Dpe	Feldspar-quartz-muscovite pegmatite
MA	Eugeosyncline Sequence	Granite, other	Dpe	Feldspar-quartz-muscovite pegmatite
MA	Bronson Hill Sequence	Mafic Rocks	Dpgb	Prescott Complex
MA	Bronson Hill Sequence	Granite, other	Dpgg	Prescott Complex; Cooleyville granitic gneiss
MA	Avalon Belt	Granite, other	Dpgr	Peabody Granite
MA	Waits River-Gile Mtn.	Pelitic Rocks	Dpv	Putney volcanics;
MA	Avalon Belt	Granite, other	Drgr	Granite of Rattlesnake Hill
MA	NH-ME Sequence	Granite, other	Drh	Biotite-garnet-feldspar gneiss of Ragged Hill
MA	NH-ME Sequence	Mafic Rocks	DSdi	Diorite and tonalite
MA	Avalon Belt	Felsic Volcanics	DSn	Newbury Volcanic Complex
MA	Avalon Belt	Mafic Rocks	DSna	Newbury Volcanic Complex
MA	Avalon Belt	Mafic Rocks	DSnl	Newbury Volcanic Complex
MA	Avalon Belt	Felsic Volcanics	DSnr	Newbury Volcanic Complex
MA	NH-ME Sequence	Pelitic Rocks	DSw	Worcester Fm
MA	Waits River-Gile Mtn.	Calcpelite	Dw	Wenham Monzonite
MA	Waits River-Gile Mtn.	Mafic Rocks	Dwa	Waits River Fm
MA	Waits River-Gile Mtn.	Granite, other	Dwgd	Williamsburg Granodiorite
MA	Bronson Hill Sequence	Granite, other	Dwgd	Williamsburg Granodiorite
MA	Avalon Belt	Granite, other	Dwm	Wenham Monzonite
MA	Avalon Belt	Felsic Volcanics	DZl	Lynn Volcanic Complex
MA	NH-ME Sequence	Mafic Rocks	gb	Hornblende-olivine gabbro
MA	Bronson Hill Sequence	Metamorphic Rocks, other	gf	Belchertown Complex
MA	NH-ME Sequence	Granite, other	gr	Granite, mostly non-foliated
MA	NH-ME Sequence	Granite, other	grg	Biotite granitic gneiss
MA	Bronson Hill Sequence	Granite, other	grg	Biotite granitic gneiss
MA	NH-ME Sequence	Sulfidic Schists	hg	Hornblende plagioclase gneiss
MA	Avalon Belt	Granite, other	igd	Granodiorite of the Indian head pluton
MA	NH-ME Sequence	Basalt	Jd	Diabase dikes and sills
MA	Bronson Hill Sequence	Basalt	Jd	Diabase dikes and sills

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	Avalon Belt	Basalt	Jd	Diabase dikes and sills
MA	Mesozoic Basin	Basalt	Jd	Diabase dikes and sills
MA	Mesozoic Basin	Basalt	Jdb	Deerfield Basalt
MA	Mesozoic Basin	Mesozoic Basin Sed.	Je	East Berlin Fm
MA	Mesozoic Basin	Basalt	Jgb	Granby Basaltic Tuff
MA	Mesozoic Basin	Basalt	Jhab	Hampden Basalt
MA	Mesozoic Basin	Basalt	Jhb	Holyoke Basalt
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jmc	Mount Toby Fm
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jmg	Mount Toby Fm
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jn	New Haven Arkose
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jp	Portland Formation
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jpc	Portland Formation (western part)
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jpc	Portland Formation (western part)
MA	Mesozoic Basin	Mesozoic Basin Sed.	Js	Sugarloaf Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Jsi	Silicified fault-breccia or strongly silified metamorphic rocks
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jsm	Shuttle Meadow Formation
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jsmc	Shuttle Meadow Formation
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jt	Turner Falls Sandstone
MA	Mesozoic Basin	Mesozoic Basin Sed.	Jtc	Turner Falls Sandstone
MA	Avalon Belt	Unconsolidated Sed.	K	Cretaceous sediments
MA	Avalon Belt	Granite, other	mgr	Light-gray muscovite granite
MA	Bronson Hill Sequence	Mafic Rocks	Oa	Ammonoosuc Volcanics
MA	Bronson Hill Sequence	Ultramafic Rocks	Oau	Ammonoosuc Volcanics
MA	Eugeosyncline Sequence	Pelitic Rocks	Oca	Cobble Mtn. Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	Ocb	Cobble Mtn. Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	Ocbr	Cobble Mtn. Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	Occa	Cobble Mtn. Fm
MA	Eugeosyncline Sequence	Mafic Rocks	Oco	Collinsville Fm
MA	Eugeosyncline Sequence	Mafic Rocks	Ocoa1	Collinsville Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	OCr	Rowe Schist
MA	Eugeosyncline Sequence	Mafic Rocks	OCra	Rowe Schist
MA	Eugeosyncline Sequence	Sulfidic Schists	OCrc	Rowe Schist
MA	Eugeosyncline Sequence	Mafic Rocks	Ogd	Diorite at Golf Ledges
MA	Bronson Hill Sequence	Granite, other	Ogl	Glastonbury Gneiss
MA	Grenville Belt	Granite, other	Ogr	muscovite-biotite granite and granodiorite
MA	Eugeosyncline Sequence	Granite, other	Ogr	muscovite-biotite granite and granodiorite

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	Eugeosyncline Sequence	Mafic Rocks	Oh	Hawley Fm
MA	Eugeosyncline Sequence	Sulfidic Schists	Ohb	Hawley Fm
MA	Eugeosyncline Sequence	Mafic Rocks	Ohg	Hawley Fm
MA	Eugeosyncline Sequence	Granite, other	Ohpg	Gneiss at Hallockville Pond
MA	Eugeosyncline Sequence	Pelitic Rocks	Om+C-Zd+O-cr	(See Om, C-Zd, O-cr)
MA	Eugeosyncline Sequence	Granite, other	Om	Moretown Fm
MA	Eugeosyncline Sequence	Mafic Rocks	Oma	Moretown Fm
MA	Eugeosyncline Sequence	Sulfidic Schists	Omsc	Moretown Fm
MA	Avalon Belt	Mafic Rocks	Ongb	Nahant Gabbro and gabbro at Salem Neck
MA	NH-ME Sequence	Mafic Rocks	Opa	Partridge Fm
MA	NH-ME Sequence	Mafic Rocks	Opa	Partridge Fm
MA	Bronson Hill Sequence	Metamorphic Rocks, other	Opau	Partridge Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Opau	Partridge Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Opbg	Partridge Fm
MA	Bronson Hill Sequence	Granite, other	Opc	Pauchaug Gneiss
MA	Bronson Hill Sequence	Metamorphic Rocks, other	Opf	Partridge Fm
MA	Bronson Hill Sequence	Sulfidic Schists	Ops	Partridge Fm
MA	NH-ME Sequence	Sulfidic Schists	Ops	Partridge Fm
MA	NH-ME Sequence	Sulfidic Schists	Ops	Partridge Fm
MA	Bronson Hill Sequence	Sulfidic Schists	Ops+Sc	(See Ops and Sc)
MA	NH-ME Sequence	Sulfidic Schists	Opsa	Partridge Fm
MA	Bronson Hill Sequence	Sulfidic Schists	Opsa	Partridge Fm
MA	NH-ME Sequence	Pelitic Rocks	Opsg	Partridge Fm
MA	Bronson Hill Sequence	Ultramafic Rocks	Opu	Partridge Fm
MA	NH-ME Sequence	Ultramafic Rocks	Opu	Partridge Fm
MA	NH-ME Sequence	Mafic Rocks	Opv	Partridge Fm
MA	NH-ME Sequence	Mafic Rocks	Opv	Partridge Fm
MA	Grenville Shelf Sequence	Carbonate Rocks	Ose	Stockbridge Fm
MA	Grenville Shelf Sequence	Carbonate Rocks	Ose	Stockbridge Fm
MA	Grenville Shelf Sequence	Carbonate Rocks	Ose+Osg+C-sb+C-sa	(See Ose, Osg, C-sb, C-sa)
MA	Grenville Shelf Sequence	Carbonate Rocks	Osg	Stockbridge Fm
MA	Eugeosyncline Sequence	Pelitic Rocks	Otb	Tectonic breccia
MA	Eugeosyncline Sequence	Pelitic Rocks	Otbl	Tectonic breccia
MA	Grenville Belt	Granite, other	Otr	White, magnetite-bearing alaskite and trondhjemite
MA	Grenville Shelf Sequence	Pelitic Rocks	Ow	Walloomsac Fm
MA	Grenville Shelf Sequence	Carbonate Rocks	Owl	Walloomsac Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	Grenville Shelf Sequence	Carbonate Rocks	Owm	Walloomsac Fm
MA	Grenville Shelf Sequence	Calcgranofels	Owq	Walloomsac Fm
MA	Avalon Belt	Metamorphic Rocks, other	OZf	Fish Brook Gneiss
MA	Bronson Hill Sequence	Granite, other	OZfm	Fourmile Gneiss
MA	Bronson Hill Sequence	Metamorphic Rocks, other	OZfmq	Fourmile Gneiss
MA	Avalon Belt	Mafic Rocks	OZm	Marlboro Fm
MA	NH-ME Sequence	Granite, other	OZma	Massabesic Gneiss Complex
MA	Avalon Belt	Mafic Rocks	OZmg	Marlboro Fm
MA	Bronson Hill Sequence	Mafic Rocks	OZmo	Monson Gneiss
MA	Bronson Hill Sequence	Granite, other	OZmo	Monson Gneiss
MA	Bronson Hill Sequence	Mafic Rocks	OZmoa	Nashoba Fm
MA	Bronson Hill Sequence	Ultramafic Rocks	OZmou	Monson Gneiss
MA	Avalon Belt	Metamorphic Rocks, other	OZn	Nashoba Fm
MA	Avalon Belt	Mafic Rocks	OZnb	Nashoba Fm
MA	Avalon Belt	Metamorphic Rocks, other	OZsh	Shawsheen Gneiss
MA	Avalon Belt	Mafic Rocks	OZt	Tatnic Hill Fm
MA	Avalon Belt	Metamorphic Rocks, other	OZtf	Tatnic Hill Fm; Fly Pond Mbr
MA	NH-ME Sequence	Pelitic Rocks	OZty	Tatnic Hill Fm; Yantic Mbr
MA	Grenville Belt	Ultramafic Rocks	OZu	Serpentinized peridotite stocks
MA	NH-ME Sequence	Pelitic Rocks	Pcm	Coal Mine Brook Fm
MA	Narragansett Basin	Narragansett Basin Sed.	Pd	Dighton Conglomerate
MA	NH-ME Sequence	Peraluminous Granite	Pgr	Biotite granite, with magnetite-bearing pegmatite
MA	NH-ME Sequence	Pelitic Rocks	Ph	Harvard Conglomerate
MA	Narragansett Basin	Narragansett Basin Sed.	Pp	Pondville Conglomerate
MA	Narragansett Basin	Narragansett Basin Sed.	Pr	Rhode Island Fm
MA	Narragansett Basin	Narragansett Basin Sed.	Prc	Rhode Island Fm
MA	Narragansett Basin	Narragansett Basin Sed.	Pw	Wamsutta Fm
MA	Narragansett Basin	Narragansett Basin Sed.	Pwv	Wamsutta Fm
MA	Narragansett Basin	Narragansett Basin Sed.	PZb	Bellingham Conglomerate
MA	Avalon Belt	Pelitic Rocks	PzZc	Cambridge Argillite
MA	Avalon Belt	Pelitic Rocks	PzZr	Roxbury Conglomerate
MA	Avalon Belt	Pelitic Rocks	PzZrb	Roxbury Conglomerate
MA	NH-ME Sequence	Mafic Rocks	qd	Quartz diorite
MA	NH-ME Sequence	Granite, other	Sacgr	Ayer Granite
MA	NH-ME Sequence	Granite, other	Sagr	Ayer Granite
MA	Avalon Belt	Granite, other	Sagr	Ayer Granite
MA	NH-ME Sequence	Calcpelite	Sb	Berwick Fm
MA	NH-ME Sequence	Calcgranofels	Sb	Berwick Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	NH-ME Sequence	Sulfidic Schists	Sbs	Berwick Fm
MA	Bronson Hill Sequence	Metamorphic Rocks, other	Sc	Clough Quartzite
MA	NH-ME Sequence	Calcgranofels	Se	Eliot Fm
MA	Bronson Hill Sequence	Calcgranofels	Sf	Fitch Fm
MA	NH-ME Sequence	Sulfidic Schists	Sfs	Fitch Fm
MA	NH-ME Sequence	Sulfidic Schists	Sfss	Fitch Fm
MA	Avalon Belt	Granite, other	Sgr	Rusty-weathering biotite granite to granodiorite
MA	NH-ME Sequence	Granite, other	Sngr	Newburyport Complex
MA	NH-ME Sequence	Calcpelite	So	Oakdale Fm
MA	NH-ME Sequence	Granite, other	SOad	Ayer Granite--Devens-Long Pond facies
MA	Avalon Belt	Granite, other	SOagr	Andover Granite
MA	Avalon Belt	Granite, other	SObgr	Blue Hill Granite
MA	Avalon Belt	Sulfidic Schists	SObo	Bolyston Schist
MA	NH-ME Sequence	Sulfidic Schists	SObo	Bolyston Schist
MA	Avalon Belt	Granite, other	SOcb	Cape Ann Complex: Beverly Syenite
MA	Avalon Belt	Granite, other	SOcgr	Cape Ann Complex
MA	Avalon Belt	Granite, other	SOcsm	Cape Ann Complex: Squam Granite
MA	NH-ME Sequence	Granite, other	SONgd	Newburyport Complex
MA	Avalon Belt	Granite, other	SOqgr	Quincy Granite
MA	NH-ME Sequence	Metamorphic Rocks, other	SOvh	Vaughn Hills Quartzite
MA	Avalon Belt	Metamorphic Rocks, other	SOvh	Vaughn Hills Quartzite
MA	NH-ME Sequence	Metamorphic Rocks, other	Sp	Paxton Fm
MA	NH-ME Sequence	Calcgranofels	Sp	Paxton Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Sp	Paxton Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Sp	Paxton Fm
MA	NH-ME Sequence	Metamorphic Rocks, other	Sp	Paxton Fm
MA	NH-ME Sequence	Calcpelite	Sp	Paxton Fm
MA	Bronson Hill Sequence	Mafic Rocks	Spa	Paxton Fm
MA	NH-ME Sequence	Mafic Rocks	Spa	Paxton Fm
MA	NH-ME Sequence	Sulfidic Schists	Spqr	Paxton Fm
MA	NH-ME Sequence	Sulfidic Schists	Spqr	Paxton Fm
MA	NH-ME Sequence	Sulfidic Schists	Spsq	Paxton Fm
MA	NH-ME Sequence	Sulfidic Schists	Spss	Paxton Fm
MA	Avalon Belt	Mafic Rocks	Ssaqd	Straw Hollow Diorite and Assabet Quartz Diorite
MA	Avalon Belt	Mafic Rocks	Ssqd	Sharpners Pond Diorite
MA	NH-ME Sequence	Metamorphic Rocks, other	St	Tower Hill Quartzite
MA	Avalon Belt	Metamorphic Rocks, other	St	Tower Hill Quartzite

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	NH-ME Sequence	Pelitic Rocks	Sts	Tower Hill Quartzite
MA	Avalon Belt	Sulfidic Schists	SZtb	Tadmuck Brook Schist
MA	Mesozoic Basin	Mesozoic Basin Sed.	TRe	Red arkosic conglomerate, sandstone, and siltstone
MA	Mesozoic Basin	Mesozoic Basin Sed.	Trn+Trs	New Haven Arkose
MA	Eugeosyncline Sequence	Ultramafic Rocks	u	Serpentinite and/or talc rock
MA	Avalon Belt	Ultramafic Rocks	u	Serpentinite and/or talc rock
MA	Grenville Belt	Mafic Rocks	Yag	hornblende-biotite-plagioclase gneiss and amphibolite
MA	Grenville Belt	Mafic Rocks	Yb	biotite-plagioclase-quartz gneiss
MA	Grenville Belt	Calcgranofels	Ycs	Calc-silicate granofels and gneiss
MA	Grenville Belt	Grenville Granites	Yfg	felsic biotite-microcline-plagioclase-quartz gneiss
MA	Grenville Belt	Grenville Granites	Ygg	Granitoid gneiss
MA	Grenville Belt	Mafic Rocks	Yhb	Well-layered hornblende-biotite gneiss
MA	Grenville Belt	Mafic Rocks	Yl	Lee Gneiss
MA	Grenville Belt	Grenville Granites	Ysg	Stamford granite Gneiss
MA	Grenville Belt	Grenville Granites	Ysg+Yb+Ow+ C-c+C-Zd	(See Ysg, Yb, Ow, c-c, C-Zd)
MA	Grenville Belt	Grenville Granites	Ytg	Tryingham Gneiss
MA	Grenville Belt	Sulfidic Schists	Yw	Washington Gneiss
MA	Grenville Belt	Pelitic Rocks	Yw+Yb	(See Yw and Yb)
MA	Grenville Belt	Sulfidic Schists	Ywb	Washington Gneiss
MA	Grenville Belt	Metamorphic Rocks, other	Ywb+Ygg+Yw	(See Ywb, Ygg, and Yw)
MA	Grenville Belt	Carbonate Rocks	Ywcs	Washington Gneiss
MA	Grenville Belt	Mafic Rocks	Ywhg	Washington Gneiss
MA	Avalon Belt	Avalon Granite	Zagr	Alaskite--mafic-poor gneissic granite
MA	Avalon Belt	Mafic Rocks	Zb	Blackstone Group
MA	Grenville Belt	Mafic Rocks	Zd	Biotite-hornblende mafic dikes
MA	Avalon Belt	Avalon Granite	Zdgr	Dedham Granite
MA	Bronson Hill Sequence	Granite, other	Zdh	Dry Hill Gneiss
MA	Avalon Belt	Avalon Granite	Zdh+Zpmg+Zpd	(See Zdh, Zpmg, Zpd)
MA	Bronson Hill Sequence	Pelitic Rocks	Zdhs	Dry Hill Gneiss
MA	Avalon Belt	Mafic Rocks	Zdi	Diorite--hornblende diorite
MA	Avalon Belt	Mafic Rocks	Zdigb	Diorite and gabbro
MA	Avalon Belt	Avalon Granite	Zdngr	Dedham Granite
MA	Bronson Hill Sequence	Pelitic Rocks	Zdpq	Dry Hill Gneiss; Pelham Quartzite Mbr
MA	Avalon Belt	Avalon Granite	Zegr	Esmond Granite

State	Province	Rock Group B	Bedrock Unit	Name/Description
MA	Avalon Belt	Avalon Granite	Zfgr	Granite of the Fall River pluton
MA	Avalon Belt	Mafic Rocks	Zgb	Gabbro
MA	Avalon Belt	Avalon Granite	Zgg	Granite, gneiss, and schist
MA	Avalon Belt	Unconsolidated Sed.	Zgg	Granite, gneiss, and schist
MA	Avalon Belt	Avalon Granite	Zgmgd	Grant Mills Granodiorite
MA	Avalon Belt	Pelitic Rocks	Zgn	Biotite gneiss near New Bedford feldspathic gneiss
MA	Avalon Belt	Avalon Granite	Zgr	Biotite granite
MA	Avalon Belt	Pelitic Rocks	Zgs	Gneiss and schist near New Bedford hornblende
MA	Avalon Belt	Avalon Granite	Zhg	Hope Valley Alaskite Gneiss
MA	Avalon Belt	Felsic Volcanics	Zm	Mattapan Volcanic Complex
MA	Avalon Belt	Avalon Granite	Zmgd	Milford Granite
MA	Avalon Belt	Avalon Granite	Zmgr	Milford Granite
MA	Bronson Hill Sequence	Pelitic Rocks	Zmm	Mount Mineral Fm
MA	Bronson Hill Sequence	Pelitic Rocks	Zmmu	Mount Mineral Fm
MA	Avalon Belt	Metamorphic Rocks, other	Zp	Plainfield Fm
MA	Avalon Belt	Avalon Granite	Zpg	Ponaganset Gneiss
MA	Avalon Belt	Avalon Granite	Zpgr	Porphyritic granite
MA	Bronson Hill Sequence	Basalt	Zpm	Poplar Mountain Gneiss
MA	Avalon Belt	Mafic Rocks	Zrdi	Diorite at Rowley
MA	Avalon Belt	Avalon Granite	Zsg	Scituate Granite Gneiss
MA	Avalon Belt	Avalon Granite	Zssy	Sharon Syenite
MA	Avalon Belt	Avalon Granite	Ztgd	Topsfield Granodiorite
MA	Avalon Belt	Mafic Rocks	Zv	Metamorphosed mafic to felsic flow
MA	Avalon Belt	Felsic Volcanics	Zvf	Metamorphosed felsic metavolcanic rocks
MA	Avalon Belt	Pelitic Rocks	Zw	Westboro Fm
MA	Avalon Belt	Avalon Granite	Zwgr	Westwood Granite

Maine

ME	NH-ME Sequence	Granite, other	C1	Biotite granite
ME	NH-ME Sequence	Peraluminous Granite	C1(m)	Muscovite-biotite granite
ME	NH-ME Sequence	Peraluminous Granite	C1b(m)	Biotite-muscovite granite
ME	NH-ME Sequence	Alkali Granite	C4a	Alkali-feldspar quartz syenite
ME	Bronson Hill Sequence	Mafic Rocks	C6	Quartz diorite
ME	NH-ME Sequence	Alkali Granite	C7	Syenite
ME	Bronson Hill Sequence	Mafic Rocks	C9	Gabbro, diorite, or ultramafic rocks
ME	NH-ME Sequence	Mafic Rocks	C9	Gabbro, diorite, or ultramafic

State	Province	Rock Group B	Bedrock Unit	Name/Description
				rocks
ME	Bronson Hill Sequence	Ultramafic Rocks	C9c	Ultramafic rocks
ME	Bronson Hill Sequence	Pelitic Rocks	C-clf	Caucomgomoc Lake Fm
ME	Bronson Hill Sequence	Basalt	C-clg	Caucomgomoc Lake Fm
ME	NH-ME Sequence	Metamorphic Rocks, other	CDs	Unnamed conglomerates and sandstones
ME	Bronson Hill Sequence	Pelitic Rocks	C-gp	Grand Pitch Fm
ME	Bronson Hill Sequence	Pelitic Rocks	C-h	Hurricane Mtn Fm
ME	Bronson Hill Sequence	Mafic Rocks	C-ha	Hurricane Mtn Fm
ME	Bronson Hill Sequence	Mafic Rocks	C-hmg	Hurricane Mtn Fm
ME	Bronson Hill Sequence	Mafic Rocks	C-hpx	Hurricane Mtn Fm
ME	Bronson Hill Sequence	Metamorphic Rocks, other	C-hq	Hurricane Mtn Fm
ME	Bronson Hill Sequence	Metamorphic Rocks, other	C-hqw	Hurricane Mtn Fm
ME	Bronson Hill Sequence	Felsic Volcanics	C-hr	Hurricane Mtn Fm
ME	Bronson Hill Sequence	Mafic Rocks	C-j	Jim Pond Fm
ME	Bronson Hill Sequence	Pelitic Rocks	C-jf	Jim Pond Fm
ME	Bronson Hill Sequence	Basalt	C-jg	Jim Pond Fm
ME	Bronson Hill Sequence	Felsic Volcanics	C-jk	Jim Pond Fm
ME	Bronson Hill Sequence	Pelitic Rocks	C-jp	Jim Pond Fm
ME	Bronson Hill Sequence	Pelitic Rocks	C-jq	Jim Pond Fm
ME	Bronson Hill Sequence	Pelitic Rocks	C-ls	Loon Stream Fm
ME	Bronson Hill Sequence	Basalt	C-uvm	Unnamed mafic volcanic rocks
ME	NH-ME Sequence	Granite, other	D1	Granite
ME	Bronson Hill Sequence	Granite, other	D1	Granite
ME	Coastal Maine	Granite, other	D1	Granite
ME	NH-ME Sequence	Granite, other	D1(h)	Granite
ME	Coastal Maine	Granite, other	D1(h)	Granite
ME	NH-ME Sequence	Granite, other	D1(m)	Muscovite-biotite granite
ME	Coastal Maine	Granite, other	D1(m)	Muscovite-biotite granite
ME	Coastal Maine	Granite, other	D1(p)	Granite; pyroxene plus hornblende inclusions
ME	NH-ME Sequence	Granite, other	D1(x)	Porphyritic granite
ME	NH-ME Sequence	Granite, other	D1(y)	Granite; granophyric inclusions
ME	NH-ME Sequence	Granite, other	D1(z)	Granite; intrusive breccia
ME	Coastal Maine	Granite, other	D1(z)	Granite; intrusive breccia
ME	NH-ME Sequence	Granite, other	D10(h)	Foid-bearing biotite-hornblendesyenite
ME	NH-ME Sequence	Granite, other	D1-2	Biotite-hornblende granite
ME	NH-ME Sequence	Granite, other	D1-4c	Granite to quartz monzonite
ME	NH-ME Sequence	Mafic Rocks	D1-6	Granite to quartz diorite
ME	NH-ME Sequence	Granite, other	D1a	Alkali feldspar granite

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	Coastal Maine	Granite, other	D1a	Alkali feldspar granite
ME	NH-ME Sequence	Granite, other	D1b	Granite
ME	Bronson Hill Sequence	Granite, other	D1b	Granite
ME	Coastal Maine	Granite, other	D1b	Granite
ME	Coastal Maine	Granite, other	D1b(h)	Granite
ME	Bronson Hill Sequence	Granite, other	D1b(m)	Muscovite-biotite granite
ME	NH-ME Sequence	Granite, other	D1b(m)	Muscovite-biotite granite
ME	NH-ME Sequence	Granite, other	D2	Granodiorite
ME	NH-ME Sequence	Granite, other	D2(h)	Hornblende-biotite granodiorite
ME	Bronson Hill Sequence	Granite, other	D2(h)	Hornblende-biotite granodiorite
ME	NH-ME Sequence	Granite, other	D2(m)	Muscovite-biotite granodiorite
ME	NH-ME Sequence	Granite, other	D2-4b	Granodiorite to quartz diorite
ME	NH-ME Sequence	Granite, other	D2-5	Granodiorite to quartz monzodiorite
ME	NH-ME Sequence	Mafic Rocks	D2-D6	Granodiorite to quartz diorite
ME	NH-ME Sequence	Granite, other	D3	Tonalite
ME	NH-ME Sequence	Granite, other	D4c	Quartz monzonite
ME	Coastal Maine	Granite, other	D4c	Quartz monzonite
ME	NH-ME Sequence	Granite, other	D4c(h)	Quartz monzonite; hornblende intrusions
ME	NH-ME Sequence	Granite, other	D4c(m)	Muscovite-biotite quartz monzonite
ME	NH-ME Sequence	Mafic Rocks	D5-6	Quartz monzodiorite and pyroxene-biotitequartz diorite
ME	Bronson Hill Sequence	Mafic Rocks	D5-6	Quartz monzodiorite and pyroxene-biotitequartz diorite
ME	NH-ME Sequence	Mafic Rocks	D6(h)	Quartz diorite; hornblende intrusions
ME	NH-ME Sequence	Granite, other	D7	Syenite
ME	Coastal Maine	Granite, other	D7	Syenite
ME	NH-ME Sequence	Granite, other	D7(p)	Syenite; pyroxene plus hornblende intrusions
ME	NH-ME Sequence	Mafic Rocks	D7-8	Syenite to monzodiorite
ME	NH-ME Sequence	Mafic Rocks	D8	Monzodiorite
ME	Bronson Hill Sequence	Mafic Rocks	D9	Gabbro, diorite, and ultramafic rocks
ME	NH-ME Sequence	Mafic Rocks	D9	Gabbro, diorite, and ultramafic rocks
ME	Coastal Maine	Mafic Rocks	D9	Gabbro, diorite, and ultramafic rocks
ME	NH-ME Sequence	Mafic Rocks	D9a	Diorite
ME	NH-ME Sequence	Mafic Rocks	D9b	Gabbro
ME	NH-ME Sequence	Ultramafic Rocks	D9b-c	Gabbro to ultramafic rocks
ME	Coastal Maine	Mafic Rocks	D9-D6	Gabbro to ultramafic rocks; quartz diorite

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	NH-ME Sequence	Mafic Rocks	D9-D6	Gabbro to ultramafic rocks; quartz diorite
ME	Bronson Hill Sequence	Mafic Rocks	Db	Beck Pond Limestone
ME	NH-ME Sequence	Pelitic Rocks	Dc	Carrabassett Fm
ME	NH-ME Sequence	Pelitic Rocks	Dc?	Carrabassett Fm
ME	NH-ME Sequence	Pelitic Rocks	Dch	Chapman Sandstone
ME	NH-ME Sequence	Pelitic Rocks	Dcm	Carrabassett Fm: Massive pelite member
ME	NH-ME Sequence	Pelitic Rocks	Dcq	Carrabassett Fm: Quartzite member
ME	NH-ME Sequence	Metamorphic Rocks, other	Dcq	Carrabassett Fm: Quartzite member
ME	NH-ME Sequence	Pelitic Rocks	Dcs	Carrabassett Fm: Thinly layered member
ME	Bronson Hill Sequence	Pelitic Rocks	DC-us	Unnamed sedimentary rocks
ME	Coastal Maine	Basalt	Deb	Eastport Fm; basalt member
ME	NH-ME Sequence	Mafic Rocks	Deh	Edmunds Hill Andesite
ME	Coastal Maine	Mafic Rocks	Dev	Eastport Fm; mafic to felsic volcanic member
ME	NH-ME Sequence	Calcipelite	Dh	Hildreths Formation
ME	NH-ME Sequence	Metamorphic Rocks, other	Dhb	Hobbsdown Formation
ME	Bronson Hill Sequence	Metamorphic Rocks, other	Dhb	Hobbsdown Formation
ME	NH-ME Sequence	Mafic Rocks	Dhd	Hedgehog Fm
ME	NH-ME Sequence	Felsic Volcanics	Dhm	Heald Mtn Rhyolite
ME	NH-ME Sequence	Felsic Volcanics	Dhmd	Heald Mtn Rhyolite
ME	NH-ME Sequence	Calcgranofels	Dhr	Hartin Fm.
ME	Bronson Hill Sequence	Pelitic Rocks	Dim	Ironbound Mountain Formation
ME	NH-ME Sequence	Pelitic Rocks	Dl	Littleton Formation
ME	NH-ME Sequence	Metamorphic Rocks, other	Dm	Mapleton Fm.
ME	NH-ME Sequence	Metamorphic Rocks, other	Dmg	Matagamon Sandstone
ME	NH-ME Sequence	Calcgranofels	DOb	Bucksport Formation
ME	NH-ME Sequence	Pelitic Rocks	DOdg	Digdeguash Fm.
ME	NH-ME Sequence	Calcgranofels	DOf	Flume Ridge Fm.
ME	NH-ME Sequence	Mafic Rocks	D0s	Spruce Top Greenstone
ME	Bronson Hill Sequence	Pelitic Rocks	DOup	Unnamed pelite
ME	NH-ME Sequence	Pelitic Rocks	DOup	Unnamed pelite
ME	NH-ME Sequence	Mafic Rocks	DOv	Undifferentiated mafic to felsic volcanic rocks
ME	Coastal Maine	Mafic Rocks	DOv	Undifferentiated mafic to felsic volcanic rocks
ME	Coastal Maine	Mafic Rocks	Dpb	Perry Fm; basalt member
ME	NH-ME Sequence	Calcgranofels	Dpk	Parker Bog Formation

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	Coastal Maine	Metamorphic Rocks, other	Dpss	Perry Fm; sandstone member
ME	NH-ME Sequence	Pelitic Rocks	Ds	Seboomook Formation
ME	Bronson Hill Sequence	Pelitic Rocks	Ds	Seboomook Formation
ME	NH-ME Sequence	Calcpelite	DSas	Allagash Lake Fm; mixed sedimentary rocks
ME	Bronson Hill Sequence	Calcpelite	DSas	Allagash Lake Fm; mixed sedimentary rocks
ME	NH-ME Sequence	Basalt	DSav	Allagash Lake Fm; basalt and mixed sedimentary rocks
ME	Bronson Hill Sequence	Basalt	DSav	Allagash Lake Fm; basalt and mixed sedimentary rocks
ME	NH-ME Sequence	Pelitic Rocks	Dsb	Swanback Fm.
ME	NH-ME Sequence	Metamorphic Rocks, other	DSbbc	Bell Brook Fm; conglomerate member
ME	NH-ME Sequence	Pelitic Rocks	DSbbs	Bell Brook Fm; pelite member
ME	Coastal Maine	Pelitic Rocks	DSbh	Bar Harbor Fm.
ME	NH-ME Sequence	Mafic Rocks	Dsc	Seboomook Fm: Camera Hill Greenstone
ME	Coastal Maine	Felsic Volcanics	DSca	Castine Fm.
ME	Coastal Maine	Pelitic Rocks	DScd	Calderwood Fm.
ME	NH-ME Sequence	Metamorphic Rocks, other	Dscg	Unnamed conglomerate
ME	NH-ME Sequence	Pelitic Rocks	Dsd	Seboomook Fm: Day Mountain Member
ME	NH-ME Sequence	Metamorphic Rocks, other	Dsdc	Seboomook Fm: Day Mountain Member
ME	NH-ME Sequence	Calcgranofels	Dsdl	Seboomook Fm: Day Mountain Member
ME	NH-ME Sequence	Pelitic Rocks	DSfh	Fogelin Hill Fm.
ME	NH-ME Sequence	Pelitic Rocks	DSfp	Frost Pond Shale
ME	NH-ME Sequence	Calcpelite	DSfrl	Fish River Lake Fm.
ME	NH-ME Sequence	Calcpelite	DSm	Madrid Formation
ME	NH-ME Sequence	Metamorphic Rocks, other	Dsm	Madrid Formation
ME	NH-ME Sequence	Calcgranofels	DSm	Madrid Formation
ME	NH-ME Sequence	Granite, other	DSmig	Undiff. sed. rks ext. migmatization
ME	NH-ME Sequence	Metamorphic Rocks, other	Dsq	Seboomook Fm; unnamed quartzite
ME	NH-ME Sequence	Pelitic Rocks	DSra	Rindgemere Formation: Upper member
ME	NH-ME Sequence	Calcgranofels	DSrb	Rindgemere Formation: Lower member
ME	NH-ME Sequence	Calcgranofels	DSrbl	Rindgemere Fm: Lower member
ME	NH-ME Sequence	Sulfidic Schists	DSrbr	Rindgemere Fm: Lower member
ME	NH-ME Sequence	Calcpelite	DSs	Spider Lake, Chandler Pond, and Third Lake Formations
ME	NH-ME Sequence	Sulfidic Schists	Dst	Seboomook Fm: Temple Stream Member
ME	NH-ME Sequence	Metamorphic Rocks, other	DStc	Towow Fm: Conglomerate member

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	Coastal Maine	Basalt	DStf	Thorofare Andesite
ME	Coastal Maine	Metamorphic Rocks, other	DSuc	Unnamed conglomerate
ME	NH-ME Sequence	Mafic Rocks	Dsug	Seboomook Fm; unnamed mafic greenstone
ME	NH-ME Sequence	Pelitic Rocks	Dsup	Seboomook Fm; unnamed pelite
ME	NH-ME Sequence	Pelitic Rocks	DSus	Unnamed sedimentary rocks
ME	Bronson Hill Sequence	Pelitic Rocks	DSuss	Unnamed conglomeratic sandstone
ME	Coastal Maine	Mafic Rocks	DSuv	Unnamed volcanic rocks
ME	NH-ME Sequence	Mafic Rocks	DSuv	Unnamed volcanic rocks
ME	NH-ME Sequence	Mafic Rocks	DSv	Spider Lake and Chandler Pong Formations
ME	Coastal Maine	Felsic Volcanics	DSvh	Vinalhaven rhyolite
ME	NH-ME Sequence	Pelitic Rocks	Dt	Tarratine Formation
ME	NH-ME Sequence	Metamorphic Rocks, other	Dtm	Tarratine Fm: Misery Quartzite
ME	NH-ME Sequence	Calcgranofels	Dtmc	Tarratine Fm: McKenny Pond Limestone
ME	NH-ME Sequence	Pelitic Rocks	Dto	Tomhegan Formation
ME	NH-ME Sequence	Felsic Volcanics	Dtokc	Tomhegan Fm: Kineo Rhyolite Member
ME	NH-ME Sequence	Felsic Volcanics	Dtokg	Tomhegan Fm: Kineo Rhyolite Member
ME	NH-ME Sequence	Felsic Volcanics	Dtokm	Tomhegan Fm: Kineo Rhyolite Member
ME	NH-ME Sequence	Felsic Volcanics	Dtrb	Traveler Rhyolite; Black Cat Mbr.
ME	NH-ME Sequence	Felsic Volcanics	Dtrp	Traveler Rhyolite; Pogy Mbr.
ME	NH-ME Sequence	Metamorphic Rocks, other	Dtv	Trout Valley Fm.
ME	NH-ME Sequence	Metamorphic Rocks, other	Duc	Unnamed conglomerate
ME	NH-ME Sequence	Calcgranofels	Dulc	Unnamed limestone comglomerate
ME	NH-ME Sequence	Pelitic Rocks	Dup	Unnamed pelite
ME	NH-ME Sequence	Felsic Volcanics	Durg	Unnamed garnet rhyolite
ME	NH-ME Sequence	Felsic Volcanics	Dury	Unnamed rhyolite
ME	NH-ME Sequence	Pelitic Rocks	Dus	Unnamed sedimentary rocks
ME	NH-ME Sequence	Pelitic Rocks	Duss	Unnamed lithic sandstone and conglomerate
ME	NH-ME Sequence	Mafic Rocks	Duvm	Unnamed mafic volcanic rocks
ME	NH-ME Sequence	Metamorphic Rocks, other	Dw	Whiskey Quartzite
ME	NH-ME Sequence	Pelitic Rocks	DZar	Appleton Ridge Fm.
ME	NH-ME Sequence	Pelitic Rocks	DZg	Gonic Formation
ME	NH-ME Sequence	Alkali Granite	J1	Granite
ME	NH-ME Sequence	Mafic Rocks	K(z)	Calcareous feldspathic sandstone; intrusive breccia
ME	NH-ME Sequence	Alkali Granite	K1	Calcareous feldspathic sandstone; granite
ME	NH-ME Sequence	Alkali Granite	K1a	Alkali-feldspar granite

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	NH-ME Sequence	Alkali Granite	K1b	Granite
ME	NH-ME Sequence	Alkali Granite	K4a	Alkali-feldspar quartz syenite
ME	NH-ME Sequence	Mafic Rocks	K5	Quartz monzonite
ME	NH-ME Sequence	Mafic Rocks	K6-9	Quartz diorite and gabbro, diorite, and ultramafic rocks
ME	NH-ME Sequence	Alkali Granite	K7a	Alkali-feldspar syenite
ME	NH-ME Sequence	Mafic Rocks	K8	Monzodiorite
ME	NH-ME Sequence	Mafic Rocks	K9	Gabbro, diorite, and ultramafic rocks
ME	NH-ME Sequence	Mafic Rocks	Kv	Mafic to felsic volcanic rocks
ME	NH-ME Sequence	Alkali Granite	Mz1(h)	Hornblende-biotite granite
ME	NH-ME Sequence	Alkali Granite	Mz10	Foid-bearing syenite
ME	NH-ME Sequence	Alkali Granite	Mz7	Syenite
ME	NH-ME Sequence	Alkali Granite	Mz7a	Alkali-feldspar syenite
ME	NH-ME Sequence	Mafic Rocks	Mz9	Gabbro, diorite, and ultramafic rocks
ME	Bronson Hill Sequence	Felsic Volcanics	Mzv	Mafic to felsic volcanic rocks
ME	NH-ME Sequence	Felsic Volcanics	Mzv	Mafic to felsic volcanic rocks
ME	Bronson Hill Sequence	Granite, other	O1	Granite
ME	Bronson Hill Sequence	Granite, other	O1b	Alkali-feldspar granite
ME	Bronson Hill Sequence	Granite, other	O1b-2	Alkali-feldspar granite and granodiorite
ME	Bronson Hill Sequence	Granite, other	O2	Granodiorite
ME	Bronson Hill Sequence	Granite, other	O4c(h)	Hornblende-biotite quartz monzonite
ME	Bronson Hill Sequence	Mafic Rocks	O6(h)	Argillaceous limestone and/or dolostone
ME	Bronson Hill Sequence	Mafic Rocks	O9	Gabbro, diorite, and ultramafic rocks
ME	Bronson Hill Sequence	Mafic Rocks	Oam	Ammonoosuc Volcanics
ME	Bronson Hill Sequence	Sulfidic Schists	Obb	Blind Brook Fm.
ME	Coastal Maine	Pelitic Rocks	Obh	Benner Hill Fm.
ME	Coastal Maine	Sulfidic Schists	Obhg	Benner Hill fm;
ME	NH-ME Sequence	Pelitic Rocks	Obl	Belle Lake Slate
ME	Bronson Hill Sequence	Basalt	Obp	Bluffer Pond Fm.
ME	Bronson Hill Sequence	Felsic Volcanics	Obpr	Bluffer Pond Fm;
ME	Coastal Maine	Metamorphic Rocks, other	OC-b	Mount Battie Fm.
ME	Coastal Maine	Sulfidic Schists	OC-c	Cookson Fm.
ME	Bronson Hill Sequence	Mafic Rocks	OC-cb	Chase Brook Fm.
ME	Coastal Maine	Sulfidic Schists	OC-cqr	Cookson Fm
ME	Coastal Maine	Sulfidic Schists	OC-cr	Cookson Fm
ME	Coastal Maine	Pelitic Rocks	OC-css	Cookson Fm
ME	Coastal Maine	Mafic Rocks	OC-cv	Cookson Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	Bronson Hill Sequence	Pelitic Rocks	OC-d	Dead River Fm
ME	Bronson Hill Sequence	Pelitic Rocks	OC-dp	Dead River Fm: Lower member
ME	Bronson Hill Sequence	Pelitic Rocks	OC-dq	Dead River Fm: Upper member
ME	Bronson Hill Sequence	Basalt	OC-hm	Hurd Mountain Fm.
ME	Bronson Hill Sequence	Metamorphic Rocks, other	Ocl	Chase Lake Fm.
ME	Bronson Hill Sequence	Metamorphic Rocks, other	Oclc	Chase Lake Fm
ME	Bronson Hill Sequence	Pelitic Rocks	Ocls	Chase Lake Fm
ME	Coastal Maine	Pelitic Rocks	OC-me	Megunticook Fm
ME	Coastal Maine	Pelitic Rocks	OC-me	Megunticook Fm
ME	Coastal Maine	Carbonate Rocks	OC-mel	Megunticook Fm
ME	Coastal Maine	Sulfidic Schists	OC-p	Penobscot Fm
ME	Coastal Maine	Basalt	OC-pg	Penobscot Fm
ME	Coastal Maine	Sulfidic Schists	OC-pmig	Penobscot Fm
ME	Bronson Hill Sequence	Pelitic Rocks	Ocr	Chandler Ridge Fm
ME	Bronson Hill Sequence	Pelitic Rocks	OC-s	Sawmill Fm
ME	Bronson Hill Sequence	Pelitic Rocks	OC-sc	Southeast Cove Fm
ME	Bronson Hill Sequence	Pelitic Rocks	OC-sd	Saint Daniel Fm
ME	Bronson Hill Sequence	Pelitic Rocks	OC-us	Unnamed sedimentary rocks
ME	NH-ME Sequence	Pelitic Rocks	OC-us	Unnamed sedimentary rocks
ME	Bronson Hill Sequence	Mafic Rocks	OC-uv	Unnamed volcanic rocks
ME	Bronson Hill Sequence	Pelitic Rocks	OC-z	Azischohos Formation
ME	Bronson Hill Sequence	Pelitic Rocks	Odmp	Chandler Ridge Fm
ME	Bronson Hill Sequence	Pelitic Rocks	Odms	Chandler Ridge Fm
ME	Bronson Hill Sequence	Felsic Volcanics	Odmv	Chandler Ridge Fm
ME	Bronson Hill Sequence	Mafic Rocks	Odw	Dry Wall volcanic rocks
ME	Bronson Hill Sequence	Sulfidic Schists	Ohh	Holmes Hole Fm.
ME	Bronson Hill Sequence	Felsic Volcanics	Ok	Kennebec Fm
ME	Bronson Hill Sequence	Basalt	Okmg	Kamankeag Fm
ME	Bronson Hill Sequence	Pelitic Rocks	Okms	Kamandeag Fm
ME	Bronson Hill Sequence	Basalt	Olm	Lobster Mountain Vol. Complex
ME	Bronson Hill Sequence	Mafic Rocks	Olm	Lobster Mountain Vol. Complex
ME	Bronson Hill Sequence	Basalt	Olma	Lobster Mtn Vol.
ME	Bronson Hill Sequence	Basalt	Olm b	Lobster Mtn Vol.
ME	Bronson Hill Sequence	Pelitic Rocks	Om	Madawaska Lake Fm.
ME	Bronson Hill Sequence	Felsic Volcanics	Oml	Munsungun Lake Fm.
ME	Bronson Hill Sequence	Pelitic Rocks	Opm	Pile Mountain Argillite
ME	Bronson Hill Sequence	Pelitic Rocks	Oq	Quimby Formation
ME	Bronson Hill Sequence	Pelitic Rocks	Oqg	Quimby Fm
ME	Bronson Hill Sequence	Pelitic Rocks	Oqs	Quimby Fm
ME	Bronson Hill Sequence	Felsic Volcanics	Oqv	Quimby Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	Bronson Hill Sequence	Basalt	Os b	Shin Brook Fm
ME	NH-ME Sequence	Pelitic Rocks	Oup	Unnamed pelite
ME	NH-ME Sequence	Sulfidic Schists	Our	Unnamed sulfidic pelite
ME	NH-ME Sequence	Pelitic Rocks	Ous	Unnamed sandstone and pelite
ME	Coastal Maine	Pelitic Rocks	Ous	Unnamed sandstone and pelite
ME	Coastal Maine	Pelitic Rocks	Ouss	Unnamed sandstone
ME	Coastal Maine	Pelitic Rocks	Oussp	Unnamed quartz sandstone and pelite
ME	Bronson Hill Sequence	Mafic Rocks	Ouv	Unnamed volcanic rocks
ME	NH-ME Sequence	Mafic Rocks	Ouv	Unnamed volcanic rocks
ME	NH-ME Sequence	Felsic Volcanics	Ouvf	Unnamed felsic volcanic rocks
ME	NH-ME Sequence	Basalt	Ouvm	Unnamed mafic volcanic rocks
ME	Bronson Hill Sequence	Basalt	Ouvm	Unnamed mafic volcanic rocks
ME	Coastal Maine	Basalt	Ouvm	Unnamed mafic volcanic rocks
ME	Bronson Hill Sequence	Mafic Rocks	Ouvs	Unnamed volcanic and sedimentary rocks
ME	Bronson Hill Sequence	Mafic Rocks	Ow	Winterville Fm.
ME	Bronson Hill Sequence	Metamorphic Rocks, other	Owc	Wassataquoik Chert
ME	Coastal Maine	Mafic Rocks	OZc	Cushing Formation
ME	Coastal Maine	Pelitic Rocks	OZce	Cape Elizabeth Fm
ME	Coastal Maine	Metamorphic Rocks, other	OZceq	Cape Elizabeth Fm
ME	Coastal Maine	Mafic Rocks	OZcev	Cape Elizabeth Fm
ME	Coastal Maine	Mafic Rocks	OZcf	Columbia Falls Fm
ME	Coastal Maine	Mafic Rocks	OZcg	Cushing Fm
ME	Coastal Maine	Carbonate Rocks	OZcl	Cushing Fm
ME	Coastal Maine	Metamorphic Rocks, other	OZcq	Cushing Fm
ME	Coastal Maine	Sulfidic Schists	OZcr	Cushing Fm
ME	Coastal Maine	Pelitic Rocks	OZe	Ellsworth Fm
ME	Coastal Maine	Metamorphic Rocks, other	OZef	Ellsworth Fm
ME	Coastal Maine	Mafic Rocks	OZev	Ellsworth Fm
ME	Coastal Maine	Sulfidic Schists	OZj	Jewell Formation
ME	Coastal Maine	Calcgranofels	OZm	Macworth Formation
ME	Coastal Maine	Mafic Rocks	OZpg	Passagassawakeag block
ME	Coastal Maine	Calcgranofels	OZpgl	Passagassawakeag block
ME	Coastal Maine	Pelitic Rocks	OZpgs	Passagassawakeag block
ME	Coastal Maine	Mafic Rocks	OZs	Spring Point Formation
ME	Coastal Maine	Pelitic Rocks	OZsc	Scarboro and Diamond Island Formations
ME	Coastal Maine	Carbonate Rocks	OZsk	Spurwink Limestone
ME	Coastal Maine	Pelitic Rocks	OZus	Unnamed sedimentary rocks
ME	Bronson Hill Sequence	Granite, other	pC-c	Gneisses: Chain Lakes Massif
ME	NH-ME Sequence	Granite, other	S1	Granite

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	Bronson Hill Sequence	Granite, other	S1	Granite
ME	NH-ME Sequence	Mafic Rocks	S9	Gabbro, diorite, and ultramafic rocks
ME	Bronson Hill Sequence	Mafic Rocks	S9	Gabbro, diorite, and ultramafic rocks
ME	Coastal Maine	Mafic Rocks	S9	Gabbro, diorite, and ultramafic rocks
ME	Coastal Maine	Ultramafic Rocks	S9c	Gabbro, diorite, and ultramafic rocks
ME	Coastal Maine	Calcpelite	Sak	Ames Knob Fm
ME	NH-ME Sequence	Pelitic Rocks	Sbb	Burnt Brook Fm
ME	NH-ME Sequence	Pelitic Rocks	Sc	Capens Formation
ME	NH-ME Sequence	Metamorphic Rocks, other	Scgu	Allsbury Fm
ME	Coastal Maine	Basalt	Sdb	Dennys Fm
ME	Coastal Maine	Mafic Rocks	Sdv	Dennys Fm
ME	Coastal Maine	Mafic Rocks	Se	Edmunds Fm
ME	NH-ME Sequence	Metamorphic Rocks, other	Sf	Frenchville Fm
ME	NH-ME Sequence	Calcgranofels	Sfm	Rocks of the Fivemile Brook Sequence
ME	NH-ME Sequence	Basalt	Sfmg	Greenstone of the Fivemile Brook Sequence
ME	NH-ME Sequence	Calcgranofels	Sg	Greenville Cove Formation
ME	Bronson Hill Sequence	Calcgranofels	Sg	Greenville Cove Formation
ME	Coastal Maine	Pelitic Rocks	Sh	Hersey Fm
ME	Bronson Hill Sequence	Calcpelite	Shm	Hardwood Mountain Formation
ME	NH-ME Sequence	Calcpelite	Shm	Hardwood Mountain Formation
ME	NH-ME Sequence	Pelitic Rocks	Sj	Jemtland Fm
ME	Coastal Maine	Basalt	Slb	Leighton Fm
ME	Coastal Maine	Mafic Rocks	Slv	Leighton Fm
ME	NH-ME Sequence	Pelitic Rocks	Smm	Maple Mountain Fm
ME	NH-ME Sequence	Calcgranofels	Sns	New Sweden Fm
ME	Coastal Maine	Metamorphic Rocks, other	So	Oak Bay Fm
ME	NH-ME Sequence	Pelitic Rocks	SOar	Aroostook River Fm
ME	NH-ME Sequence	Calcpelite	SOcm	Carys Mill Fm
ME	NH-ME Sequence	Pelitic Rocks	SOcml	Carys Mill Fm
ME	NH-ME Sequence	Pelitic Rocks	SOcms	Carys Mill Fm
ME	NH-ME Sequence	Mafic Rocks	Sodb	Dunn Brook Fm
ME	Bronson Hill Sequence	Pelitic Rocks	Sof	Frontenac Formation
ME	Bronson Hill Sequence	Basalt	Sofc	Frontenac Fm: Canada Falls Volcanic Mbr
ME	NH-ME Sequence	Metamorphic Rocks, other	S0lb	Lobster Lake Fm
ME	NH-ME Sequence	Pelitic Rocks	S0m	Mattawamkeag Fm
ME	NH-ME Sequence	Metamorphic Rocks, other	S0mh	Mars Hill Conglomerate
ME	NH-ME Sequence	Pelitic Rocks	S0n	Nine Lake Fm.

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	NH-ME Sequence	Metamorphic Rocks, other	SOuc	Unnamed conglomerate
ME	NH-ME Sequence	Pelitic Rocks	SOup	Unnamed pelite
ME	NH-ME Sequence	Sulfidic Schists	SOur	Unnamed sulfidic pelite
ME	Bronson Hill Sequence	Pelitic Rocks	SOus	Unnamed sedimentary rocks
ME	NH-ME Sequence	Mafic Rocks	SOuv	Unnamed volcanic rocks
ME	NH-ME Sequence	Calcpelite	SOv	Vassalboro Fm
ME	NH-ME Sequence	Calcgranofels	SOv	Vassalboro Fm
ME	NH-ME Sequence	Felsic Volcanics	SOvv	Vassalboro Fm
ME	NH-ME Sequence	Pelitic Rocks	Sp	Perry Mountain Fm
ME	NH-ME Sequence	Pelitic Rocks	Spu	Allsbury Fm
ME	Coastal Maine	Pelitic Rocks	Sqp	Quoddy Fm
ME	Coastal Maine	Mafic Rocks	Sqv	Quoddy Fm
ME	Coastal Maine	Mafic Rocks	Sqvu	Quoddy Fm
ME	NH-ME Sequence	Pelitic Rocks	Sr	Rangeley Fm
ME	NH-ME Sequence	Pelitic Rocks	Sra	Rangeley Fm: 'A' member
ME	NH-ME Sequence	Metamorphic Rocks, other	Srac	Rangeley Fm: 'A' member
ME	NH-ME Sequence	Pelitic Rocks	Srb	Rangeley Fm: 'B' member
ME	NH-ME Sequence	Pelitic Rocks	Src	Rangeley Fm: 'C' member
ME	NH-ME Sequence	Felsic Volcanics	Srm	Rocky Mountain quartz latite
ME	NH-ME Sequence	Calcgranofels	Srp	Ripogenus Fm
ME	NH-ME Sequence	Calcpelite	Ss	Sangerville Fm
ME	NH-ME Sequence	Calcgranofels	Ss	Sangerville Fm
ME	NH-ME Sequence	Pelitic Rocks	Ssa	Sangerville Fm
ME	NH-ME Sequence	Calcgranofels	Ssal	Sangerville Fm
ME	NH-ME Sequence	Sulfidic Schists	Ssar	Sangerville Fm
ME	NH-ME Sequence	Metamorphic Rocks, other	Ssc	Sangerville Fm
ME	NH-ME Sequence	Sulfidic Schists	Ssf	Smalls Falls Fm
ME	NH-ME Sequence	Sulfidic Schists	Ssf?	Smalls Falls Fm
ME	NH-ME Sequence	Calcgranofels	Ssl	Sangerville Fm
ME	NH-ME Sequence	Pelitic Rocks	Ssm	Smyrna Mills Fm
ME	NH-ME Sequence	Calcgranofels	Sspm	Sangerville Fm; Patch Mountain Member
ME	NH-ME Sequence	Calcgranofels	Sspr	Spragueville Fm
ME	NH-ME Sequence	Sulfidic Schists	Ssr	Sangerville Fm
ME	NH-ME Sequence	Pelitic Rocks	Ssu	Allsbury Fm
ME	NH-ME Sequence	Calcpelite	Stf	The Forks Fm
ME	NH-ME Sequence	Calcgranofels	Stf	The Forks Fm
ME	NH-ME Sequence	Metamorphic Rocks, other	Suc	Unnamed conglomerate
ME	Bronson Hill Sequence	Metamorphic Rocks, other	Suc	Unnamed conglomerate
ME	NH-ME Sequence	Metamorphic Rocks, other	Sucs	Unnamed conglomeratic sandstone

State	Province	Rock Group B	Bedrock Unit	Name/Description
ME	NH-ME Sequence	Calcgranofels	Sul	Unnamed limestone
ME	Bronson Hill Sequence	Calcgranofels	Sul	Unnamed limestone
ME	NH-ME Sequence	Sulfidic Schists	Sur	Unnamed sulfidic pelite
ME	NH-ME Sequence	Calcgranofels	Sus	Unnamed sedimentary rocks
ME	NH-ME Sequence	Metamorphic Rocks, other	Suss	Unnamed sandstone
ME	NH-ME Sequence	Basalt	Suvm	Unnamed mafic volcanic rocks
ME	NH-ME Sequence	Mafic Rocks	Suvs	Unnamed volcanic and sedimentary rocks
ME	NH-ME Sequence	Pelitic Rocks	Sw	Waterville Fm
ME	NH-ME Sequence	Mafic Rocks	Swb	West Branch volcanic rocks
ME	NH-ME Sequence	Calcgranofels	Swl	Waterville Fm
ME	NH-ME Sequence	Ultramafic Rocks	SZ9c	Ultramafic rocks, fold-bearing syenite
ME	NH-ME Sequence	Calcgranofels	SZb	Berwick Formation
ME	NH-ME Sequence	Calcgranofels	SZe	Eliot Formation
ME	NH-ME Sequence	Calcgranofels	SZk	Kittery Formation
ME	Coastal Maine	Carbonate Rocks	Zcb	Coombs Limestone
ME	Coastal Maine	Pelitic Rocks	Zi	Rocks of Islesboro
ME	Coastal Maine	Carbonate Rocks	Zil	Rocks of Islesboro; limestone
ME	Coastal Maine	Mafic Rocks	Znh	North Haven Fm
ME	Coastal Maine	Mafic Rocks	Znh	North Haven Fm
ME	Coastal Maine	Pelitic Rocks	Zop	Ogier Point Fm
ME	NH-ME Sequence	Pelitic Rocks	Zr	Rye Fm
ME	Coastal Maine	Metamorphic Rocks, other	Zrk	Rockport Fm

New Hampshire

NH	Bronson Hill Sequence	Pelitic Rocks	C-h	Hurricane Mtn. Fm
NH	Bronson Hill Sequence	Mafic Rocks	C-jb	Jim Pond Fm
NH	Bronson Hill Sequence	Granite, other	D1b	Pink equigranular biotite granite
NH	Waits River-Gile Mtn.	Granite, other	D1b	Pink equigranular biotite granite
NH	NH-ME Sequence	Granite, other	D1b	Pink equigranular biotite granite
NH	Bronson Hill Sequence	Peraluminous Granite	D1m	Two-mica granite of northern and southeastern NH
NH	NH-ME Sequence	Peraluminous Granite	D1m	Two-mica granite of northern and southeastern NH
NH	Bronson Hill Sequence	Granite, other	D2b	Porphyritic biotite granodiorite
NH	Bronson Hill Sequence	Granite, other	D3Ab	Biotite tonalite
NH	NH-ME Sequence	Granite, other	D3Ab	Biotite tonalite
NH	NH-ME Sequence	Granite, other	D3Bb	Biotite trondhjemite in Rumney Quadrangle

State	Province	Rock Group B	Bedrock Unit	Name/Description
NH	Bronson Hill Sequence	Mafic Rocks	D6	Biotite quartz diorite in northeastern NH
NH	NH-ME Sequence	Mafic Rocks	D6	Biotite quartz diorite in northeastern NH
NH	Bronson Hill Sequence	Granite, other	Db2b	Bethlehem Granodiorite
NH	NH-ME Sequence	Granite, other	Db2b	Bethlehem Granodiorite
NH	NH-ME Sequence	Peraluminous Granite	Dc1m	Concord Granite
NH	Bronson Hill Sequence	Peraluminous Granite	Dc1m	Concord Granite
NH	NH-ME Sequence	Granite, other	Dc3Am	Two-mica tonalite
NH	NH-ME Sequence	Mafic Rocks	De9	Exeter Diorite
NH	Waits River-Gile Mtn.	Pelitic Rocks	Dg	Gile Mountain Fm
NH	Waits River-Gile Mtn.	Pelitic Rocks	Dg	Gile Mountain Fm
NH	Waits River-Gile Mtn.	Calcgranofels	Dgc	Gile Mountain Fm
NH	Waits River-Gile Mtn.	Pelitic Rocks	Dgm	Gile Mountain Fm
NH	Waits River-Gile Mtn.	Mafic Rocks	Dgv	Gile Mountain Fm
NH	Waits River-Gile Mtn.	Pelitic Rocks	Di	Ironbound Mtn Fm
NH	Bronson Hill Sequence	Pelitic Rocks	Di	Ironbound Mtn Fm
NH	NH-ME Sequence	Pelitic Rocks	Di	Ironbound Mtn Fm
NH	Bronson Hill Sequence	Mafic Rocks	Dib	Ironbound Mtn Fm
NH	Bronson Hill Sequence	Sulfidic Schists	Die	Ironbound Mtn Fm
NH	Bronson Hill Sequence	Felsic Volcanics	Dif	Ironbound Mtn Fm
NH	Waits River-Gile Mtn.	Felsic Volcanics	Dih	Ironbound Mt Fm; Grits at Halls Stream in northern NH
NH	Bronson Hill Sequence	Felsic Volcanics	Dir	Ironbound Mtn Fm
NH	NH-ME Sequence	Granite, other	Dk2x	NH PS: Kinsman Granodiorite
NH	Bronson Hill Sequence	Granite, other	Dk2x	NH PS: Kinsman Granodiorite
NH	Bronson Hill Sequence	Pelitic Rocks	Dl	Littleton Fm
NH	NH-ME Sequence	Pelitic Rocks	Dl	Littleton Fm
NH	Bronson Hill Sequence	Pelitic Rocks	Dl	Littleton Fm
NH	Bronson Hill Sequence	Pelitic Rocks	Dl	Littleton Fm
NH	Bronson Hill Sequence	Metamorphic Rocks, other	Dl+Sc	(See Dl and Sc descriptions)
NH	NH-ME Sequence	Calcgranofels	Dlc	Littleton Fm
NH	NH-ME Sequence	Metamorphic Rocks, other	Dlcs	Littleton Fm
NH	NH-ME Sequence	Pelitic Rocks	Dll	Littleton Fm
NH	NH-ME Sequence	Pelitic Rocks	Dlu	Littleton Fm
NH	Bronson Hill Sequence	Mafic Rocks	Dlv	Littleton Fm
NH	NH-ME Sequence	Mafic Rocks	Dlvb	Littleton Fm
NH	Bronson Hill Sequence	Mafic Rocks	Dlvs	Littleton Fm
NH	NH-ME Sequence	Mafic Rocks	Dlvs	Littleton Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
NH	NH-ME Sequence	Mafic Rocks	Ds1-6	Spaulding Tonalite
NH	NH-ME Sequence	Granite, other	Ds1-6	Spaulding Tonalite
NH	NH-ME Sequence	Granite, other	Ds1-6+Dc1m	(See Ds1-6 and Dc1m descriptions)
NH	NH-ME Sequence	Mafic Rocks	Ds6-9B	Hypersthene-biotite quartz diorite
NH	Bronson Hill Sequence	Mafic Rocks	DS9	Metamorphosed gabbro, diorite, andintrusive basalt dikes
NH	Bronson Hill Sequence	Mafic Rocks	DS9	Metamorphosed gabbro, diorite, andintrusive basalt dikes
NH	NH-ME Sequence	Granite, other	DSLr	Migmatitic rocks
NH	NH-ME Sequence	Granite, other	Dw3A	Winnepesaukee Tonalite
NH	Bronson Hill Sequence	Alkali Granite	J1-41	Leucocratic granite to quartz syenite
NH	Bronson Hill Sequence	Felsic Volcanics	J1a	Mount Osceola Granite
NH	Bronson Hill Sequence	Alkali Granite	J1h	Hastingsite granite
NH	NH-ME Sequence	Alkali Granite	J1h	Hastingsite granite
NH	Bronson Hill Sequence	Alkali Granite	J1hx	Granite porphyry
NH	NH-ME Sequence	Alkali Granite	J1hx	Granite porphyry
NH	NH-ME Sequence	Alkali Granite	J10	Nepheline-sodalite-hastingsite syenite
NH	Bronson Hill Sequence	Alkali Granite	J1r	Mesoperthitic granite
NH	NH-ME Sequence	Alkali Granite	J1r	Mesoperthitic granite
NH	NH-ME Sequence	Alkali Granite	J1x	Porphyritic granite
NH	Waits River-Gile Mtn.	Alkali Granite	J4h	Hornblende or alkalic amphibolequartz syenite
NH	Bronson Hill Sequence	Alkali Granite	J4h	Hornblende or alkalic amphibolequartz syenite
NH	NH-ME Sequence	Alkali Granite	J4h	Hornblende or alkalic amphibolequartz syenite
NH	NH-ME Sequence	Alkali Granite	J4hx	Porphyritic hornblende or alkalicamphibole quartz syenite
NH	NH-ME Sequence	Alkali Granite	J4x	Quartz syenite
NH	Bronson Hill Sequence	Mafic Rocks	J5	Hornblende-biotite quartzmonzodiorite
NH	NH-ME Sequence	Mafic Rocks	J5	Hornblende-biotite quartzmonzodiorite
NH	Waits River-Gile Mtn.	Alkali Granite	J7h	Hornblende (or alkalic amphibole)syenite
NH	Bronson Hill Sequence	Alkali Granite	J7h	Hornblende (or alkalic amphibole)syenite
NH	NH-ME Sequence	Alkali Granite	J7h	Hornblende (or alkalic amphibole)syenite
NH	NH-ME Sequence	Alkali Granite	J7x	Porphyritic syenite
NH	NH-ME Sequence	Mafic Rocks	J8	Augite monzodiorite
NH	NH-ME Sequence	Mafic Rocks	J9A	Diorite
NH	Waits River-Gile Mtn.	Mafic Rocks	J9Ah	Porphyritic hornblende diorite

State	Province	Rock Group B	Bedrock Unit	Name/Description
NH	NH-ME Sequence	Mafic Rocks	J9B	Gabbro
NH	Bronson Hill Sequence	Alkali Granite	Jc1b	Conway Granite--mesoperthitic biotitegranite
NH	NH-ME Sequence	Alkali Granite	Jc1b	Conway Granite--mesoperthitic biotitegranite
NH	NH-ME Sequence	Felsic Volcanics	Jmv	Moat Volcanics
NH	NH-ME Sequence	Alkali Granite	Jolb	Mount Osceola Granite
NH	NH-ME Sequence	Alkali Granite	Jolh	Mount Osceola Granite
NH	NH-ME Sequence	Felsic Volcanics	K1a	Rhyolite and fine-grained granite
NH	NH-ME Sequence	Alkali Granite	K1bx	Porphyritic biotite granite
NH	NH-ME Sequence	Alkali Granite	K1r	Mesoperthitic granite, with riebeckite and (or) hastingsite
NH	NH-ME Sequence	Alkali Granite	K2	Biotite-hornblende granodiorite
NH	NH-ME Sequence	Alkali Granite	K4x	Large mesoperthitic phenocrysts in quartz syenite of "Albany type"
NH	NH-ME Sequence	Alkali Granite	K7C	Augite-hornblende-biotite monzonite
NH	NH-ME Sequence	Mafic Rocks	K9A	Hornblende diorite
NH	NH-ME Sequence	Mafic Rocks	K9AB	Augite hornblende diorite and gabbro
NH	NH-ME Sequence	Mafic Rocks	K9B	Augite-hornblende-biotite gabbro
NH	NH-ME Sequence	Alkali Granite	Kc1b	Mesoperthitic biotite granite
NH	NH-ME Sequence	Mafic Rocks	Kv	Basalt, minor rhyolite ignimbrite and andesitic tuff
NH	Bronson Hill Sequence	Peraluminous Granite	MD1m	Two-mica granite
NH	NH-ME Sequence	Peraluminous Granite	MD3B	Trondhjemite and abundant pegmatite
NH	Bronson Hill Sequence	Mafic Rocks	Oal	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Mafic Rocks	Oalb	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Pelitic Rocks	Oalg	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Pelitic Rocks	Oali	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Pelitic Rocks	Oals	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Mafic Rocks	Oalx	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Mafic Rocks	Oalx+O-Cd	(See Oalx and O-Cd descriptions)
NH	Bronson Hill Sequence	Pelitic Rocks	Oaus	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Mafic Rocks	Oaux	Ammonoosuc Volcanics
NH	Bronson Hill Sequence	Granite, other	Oc1b	Biotite granite (Cambridge Black pluton)
NH	Bronson Hill Sequence	Granite, other	Oc3Ah	Hornblende-biotite tonalite
NH	Bronson Hill Sequence	Granite, other	Oc3Ax	Porphyritic phase of hornblende-biotite tonalite
NH	Bronson Hill Sequence	Mafic Rocks	Oc9B	Gabbro and diabase

State	Province	Rock Group B	Bedrock Unit	Name/Description
NH	Bronson Hill Sequence	Pelitic Rocks	O-Cd	Dead River Fm
NH	Bronson Hill Sequence	Pelitic Rocks	O-Cdp	Dead River Fm
NH	Bronson Hill Sequence	Pelitic Rocks	O-Cz1	Aziscohos Fm
NH	Bronson Hill Sequence	Pelitic Rocks	O-Czu	Aziscohos Fm
NH	Bronson Hill Sequence	Granite, other	Oh2-9a	Highlandcroft Plutonic Suite
NH	Bronson Hill Sequence	Granite, other	Oh2h	Highlandcroft Plutonic Suite
NH	Bronson Hill Sequence	Granite, other	Oj3A	Tonalite
NH	Bronson Hill Sequence	Granite, other	Oo1-3A	granite, granodiorite, and tonalite
NH	Bronson Hill Sequence	Granite, other	Oo1-3B	granite, granodiorite, and trondhjemite
NH	Bronson Hill Sequence	Granite, other	Oo1b	Biotite granite
NH	Bronson Hill Sequence	Granite, other	Oo1bx	Porphyritic (alkalic feldspar)biotite granite
NH	Bronson Hill Sequence	Granite, other	Oo1h	hornblende-biotite granite
NH	Bronson Hill Sequence	Granite, other	Oo2-3A	Granodiorite to tonalite
NH	Bronson Hill Sequence	Granite, other	Oo2b	Biotite granodiorite
NH	Bronson Hill Sequence	Granite, other	Oo2bx	Porphyritic biotite granodiorite in no. Jefferson dome
NH	Bronson Hill Sequence	Granite, other	Oo2h	Hornblende granodiorite
NH	Bronson Hill Sequence	Granite, other	Oo3B	Trondhjemite
NH	Bronson Hill Sequence	Granite, other	Oo3B-6	Trondhjemite and quartz diorite inno. Jefferson dome
NH	Bronson Hill Sequence	Granite, other	Oo4-7h	Hornblende-biotite quartz syenite to syenite
NH	Bronson Hill Sequence	Granite, other	Oo4Ch	Hornblende quartz monzonite
NH	Bronson Hill Sequence	Mafic Rocks	Oo9B	Hornblende gabbro
NH	Bronson Hill Sequence	Sulfidic Schists	Op	Partridge Fm
NH	Bronson Hill Sequence	Mafic Rocks	Opv	Partridge Fm
NH	Bronson Hill Sequence	Mafic Rocks	Opvi	Partridge Fm
NH	Bronson Hill Sequence	Sulfidic Schists	Oq	Quimby Fm
NH	NH-ME Sequence	Granite, other	OZrb	Rye Complex: Breakfast Hill Granite
NH	NH-ME Sequence	Pelitic Rocks	OZrz	Rye Complex
NH	NH-ME Sequence	Peraluminous Granite	Plm	Gray biotite granite
NH	NH-ME Sequence	Peraluminous Granite	PM1m	Two-mica granite of the Sebagobatholith and Effingham pluton
NH	Bronson Hill Sequence	Granite, other	S1b	Biotite granite stock and dikes
NH	NH-ME Sequence	Granite, other	Sa2x	Ayer Granodiorite
NH	Bronson Hill Sequence	Metamorphic Rocks, other	Sc	Clough Quartzite

State	Province	Rock Group B	Bedrock Unit	Name/Description
NH	Bronson Hill Sequence	Calcpelite	Sf	Fitch Fm
NH	NH-ME Sequence	Calcpelite	Sf	Fitch Fm
NH	Bronson Hill Sequence	Metamorphic Rocks, other	Sfc	Fitch and Clough Fm
NH	Bronson Hill Sequence	Metamorphic Rocks, other	Sfc+Db2b	(See Sfc and Db2b descriptions)
NH	Bronson Hill Sequence	Pelitic Rocks	Sfr	Frontenac Fm
NH	Waits River-Gile Mtn.	Pelitic Rocks	Sfr	Frontenac Fm
NH	Bronson Hill Sequence	Mafic Rocks	Sfrb	Frontenac Fm
NH	NH-ME Sequence	Mafic Rocks	Sfrb	Frontenac Fm
NH	Waits River-Gile Mtn.	Mafic Rocks	Sfrb	Frontenac Fm
NH	Waits River-Gile Mtn.	Calcgranofels	Sfrc	Frontenac Fm
NH	Waits River-Gile Mtn.	Pelitic Rocks	Sfrg	Frontenac Fm
NH	Bronson Hill Sequence	Mafic Rocks	Sfrv	Frontenac Fm
NH	Bronson Hill Sequence	Mafic Rocks	Sfrx	Frontenac Fm
NH	Bronson Hill Sequence	Metamorphic Rocks, other	Sg	Greenville Cove Fm
NH	NH-ME Sequence	Calcgranofels	Sm	Madrid Fm
NH	NH-ME Sequence	Sulfidic Schists	Smsf	Madrid and Smalls Falls Fms
NH	Bronson Hill Sequence	Sulfidic Schists	Smsf	Madrid and Smalls Falls Fms
NH	NH-ME Sequence	Sulfidic Schists	Smsf	Madrid and Smalls Falls Fms
NH	NH-ME Sequence	Granite, other	Sn1x	NH PS: Newburyport Complex
NH	NH-ME Sequence	Granite, other	Sn2-3A	NH PS: Newburyport Complex
NH	NH-ME Sequence	Calcgranofels	SOB	Berwick Fm
NH	NH-ME Sequence	Calcpelite	SObc	Berwick Fm
NH	NH-ME Sequence	Calcgranofels	SObc	Berwick Fm
NH	NH-ME Sequence	Pelitic Rocks	SObg	Berwick Fm
NH	NH-ME Sequence	Calcgranofels	SOe	Eliot Fm
NH	NH-ME Sequence	Sulfidic Schists	SOec	Eliot Fm
NH	NH-ME Sequence	Calcgranofels	SOk	Kittery Fm
NH	Bronson Hill Sequence	Pelitic Rocks	Sp	Perry Mtn Fm
NH	NH-ME Sequence	Pelitic Rocks	Sp	Perry Mtn Fm
NH	NH-ME Sequence	Sulfidic Schists	Spr	Perry Mtn and Rangely Fms
NH	Bronson Hill Sequence	Sulfidic Schists	Spr	Perry Mtn and Rangely Fms
NH	Bronson Hill Sequence	Mafic Rocks	Spvs	Perry Mtn Fm
NH	Bronson Hill Sequence	Mafic Rocks	Spvs	Perry Mtn Fm
NH	Bronson Hill Sequence	Pelitic Rocks	Sr	Rangely Fm
NH	NH-ME Sequence	Pelitic Rocks	Sr	Rangely Fm
NH	NH-ME Sequence	Pelitic Rocks	Src	Rangely Fm
NH	Bronson Hill Sequence	Pelitic Rocks	Src	Rangely Fm
NH	NH-ME Sequence	Pelitic Rocks	Srl	Rangely Fm: Lower part
NH	Bronson Hill Sequence	Pelitic Rocks	Srl	Rangely Fm: Lower part
NH	NH-ME Sequence	Calcgranofels	Srlp	Rangely Fm

State	Province	Rock Group B	Bedrock Unit	Name/Description
NH	Bronson Hill Sequence	Sulfidic Schists	Sru	Rangely Fm: Upper part
NH	NH-ME Sequence	Sulfidic Schists	Sru	Rangely Fm: Upper part
NH	NH-ME Sequence	Calcgranofels	Srup	Rangely Fm
NH	NH-ME Sequence	Felsic Volcanics	Srvf	Rangely Fm
NH	Bronson Hill Sequence	Sulfidic Schists	Ssf	Smalls Falls Fm
NH	NH-ME Sequence	Sulfidic Schists	Ssf	Smalls Falls Fm
NH	Bronson Hill Sequence	Sulfidic Schists	Ssf	Smalls Falls Fm
NH	Bronson Hill Sequence	Mafic Rocks	Ssfb	Smalls Falls Fm
NH	Bronson Hill Sequence	Mafic Rocks	Ssfc	Smalls Falls Fm
NH	Bronson Hill Sequence	Pelitic Rocks	Ssff	Smalls Falls Fm
NH	Bronson Hill Sequence	Felsic Volcanics	Ssfx	Smalls Falls Fm
NH	NH-ME Sequence	Granite, other	Zmz	Massabesic Gneiss Complex
Rhode Island				
RI	Avalon Belt	Pelitic Rocks	Cpc+OCcj	Pirates Cove Fm. & Jamestown Fm.
RI	Avalon Belt	Granite, other	Dsa	Scituate Igneous Suite
RI	Avalon Belt	Mafic Rocks	Dsd	Scituate Igneous Suite
RI	Avalon Belt	Granite, other	Dsfg	Scituate Igneous Suite
RI	Avalon Belt	Granite, other	Dsg	Scituate Igneous Suite
RI	Avalon Belt	Granite, other	Dsgd	Scituate Igneous Suite
RI	Avalon Belt	Granite, other	Dsm	Scituate Igneous Suite
RI	Avalon Belt	Felsic Volcanics	Dsr	Scituate Igneous Suite
RI	Avalon Belt	Felsic Volcanics	Dsv	Scituate Igneous Suite
RI	Avalon Belt	Ultramafic Rocks	DZc	Cumberlandite
RI	Avalon Belt	Mafic Rocks	DZgd	gabbro/diorite
RI	Avalon Belt	Mafic Rocks	Jm	monchiquite
RI	Avalon Belt	Unconsolidated Sed.	Kr	Raritan Fm
RI	Avalon Belt	Peraluminous Granite	MDca	alkali-feldspar granite of Cumberland
RI	Avalon Belt	Pelitic Rocks	OC-cdi	Conanicut Grp: Dutch Island Harbor Fm
RI	Avalon Belt	Pelitic Rocks	OC-cep	Conanicut Grp: East Passage Fm
RI	Avalon Belt	Pelitic Rocks	OC-cfb	Conanicut Grp: Fort Burnside Fm
RI	Avalon Belt	Pelitic Rocks	OC-cj	Conanicut Grp: Jamestown Fm
RI	Avalon Belt	Pelitic Rocks	OC-cj+OC-cfb	Conanicut Grp: Jamestown Fm
RI	Avalon Belt	Pelitic Rocks	OC-cu	Conanicut Grp; undifferentiated
RI	Avalon Belt	Ultramafic Rocks	OC-m	Minette
RI	Narragansett Basin	Narragansett Basin Sed.	Pnbd	Narragansett Bay Grp
RI	Narragansett Basin	Narragansett Basin Sed.	Pnbpo	Narragansett Bay Grp
RI	Narragansett Basin	Narragansett Basin Sed.	Pnbpu	Narragansett Bay Grp

State	Province	Rock Group B	Bedrock Unit	Name/Description
RI	Narragansett Basin	Narragansett Basin Sed.	Pnbr	Narragansett Bay Grp
RI	Narragansett Basin	Narragansett Basin Sed.	Pnbs	Narragansett Bay Grp
RI	Narragansett Basin	Narragansett Basin Sed.	Pnbw	Narragansett Bay Grp
RI	Avalon Belt	Peraluminous Granite	Pnfg	Narr. Pier Plut. Ste
RI	Avalon Belt	Peraluminous Granite	Png	Narr. Pier Plut. Ste
RI	Avalon Belt	Peraluminous Granite	Pnlg	Narr. Pier Plut. Ste
RI	Avalon Belt	Peraluminous Granite	Pnpg	Narr. Pier Plut. Ste
RI	Narragansett Basin	Narragansett Basin Sed.	PZmc	Metaclastic rock, undivided
RI	Avalon Belt	Unconsolidated Sed.	Qal	Quaternary sediments
RI	Avalon Belt	Mafic Rocks	Td	Diabase
RI	Avalon Belt	Metamorphic Rocks, other	Tvq	Vein quartz
RI	Avalon Belt	Mafic Rocks	Zbm	Blackstone Grp
RI	Avalon Belt	Mafic Rocks	Zbm	Blackstone Grp
RI	Avalon Belt	Metamorphic Rocks, other	Zbq	Blackstone Grp
RI	Avalon Belt	Calcpelite	Zbs	Blackstone Grp
RI	Avalon Belt	Calcgranofels	Zbs	Blackstone Grp
RI	Avalon Belt	Mafic Rocks	Zbu	Blackstone Grp
RI	Narragansett Basin	Mafic Rocks	Zbu	Blackstone Grp
RI	Avalon Belt	Avalon Granite	Zeag	Esmond Igneous Suite
RI	Avalon Belt	Avalon Granite	Zefg	Esmond Igneous Suite
RI	Avalon Belt	Avalon Granite	Zefv	Esmond Igneous Suite
RI	Avalon Belt	Avalon Granite	Zeg	Esmond Igneous Suite
RI	Avalon Belt	Avalon Granite	Zegd	Esmond Igneous Suite
RI	Avalon Belt	Avalon Granite	Zegg	Esmond Igneous Suite
RI	Avalon Belt	Mafic Rocks	Zem	Esmond Igneous Suite
RI	Avalon Belt	Avalon Granite	Zha	Harmony Grp: Absalona Fm
RI	Avalon Belt	Avalon Granite	Zhn	Harmony Grp: Nipsachuck Fm
RI	Avalon Belt	Felsic Volcanics	Zhw	Harmony Grp: Woonasquatucket Fm
RI	Avalon Belt	Calcgranofels	Zms	mica schist
RI	Avalon Belt	Calcgranofels	Znfa	Newport Grp: Fort Adams Fm
RI	Avalon Belt	Pelitic Rocks	Znnn	Newport Grp: Newport Neck Fm
RI	Avalon Belt	Pelitic Rocks	Znpn	Newport Grp: Price Neck Fm
RI	Avalon Belt	Metamorphic Rocks, other	Zp	Plainfield Fm
RI	Avalon Belt	Avalon Granite	Zsag	Sterling Plutonic Grp
RI	Avalon Belt	Avalon Granite	Zseg	Granites of SE RI
RI	Avalon Belt	Avalon Granite	Zsepg	Granites of SE RI
RI	Avalon Belt	Avalon Granite	Zsgg	Sterling Plutonic Grp
RI	Avalon Belt	Mafic Rocks	Zsmg	Sterling Plutonic Grp
RI	Avalon Belt	Mafic Rocks	Zwm	Waterford Gr: Mamacoke Fm
RI	Avalon Belt	Avalon Granite	Zwr	Waterford Grp: Rope Ferry

State	Province	Rock Group B	Bedrock Unit	Name/Description
				Gneiss
Vermont				
VT	Grenville Shelf Sequence	Carbonate Rocks	C-bh	Bridgeman Hill Fm.
VT	Eugeosyncline Sequence	Pelitic Rocks	C-br	Breeze Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-brc	Breeze Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	C-c	Cheshire Quartzite
VT	Grenville Belt	Metamorphic Rocks, other	C-cg	Bull Hill Gneiss
VT	Grenville Belt	Carbonate Rocks	C-cm	Cavendish Fm
VT	Grenville Belt	Carbonate Rocks	C-cm	Cavendish Fm
VT	Grenville Belt	Pelitic Rocks	C-cr	Cavendish Fm, Readsboro Mbr.
VT	Grenville Shelf Sequence	Carbonate Rocks	C-cs	Clarendon Springs, Ticonderoga, and Rock River dolomites
VT	Grenville Shelf Sequence	Carbonate Rocks	C-cs+C-w	(See C-cs and C-w)
VT	Grenville Shelf Sequence	Carbonate Rocks	C-d	Dunham dolomite
VT	Grenville Shelf Sequence	Pelitic Rocks	C-da	Danby and Potsdam formations
VT	Grenville Belt	Pelitic Rocks	C-dt	Dalton Fm
VT	Grenville Shelf Sequence	Carbonate Rocks	C-f	Forestdale marble
VT	Eugeosyncline Sequence	Pelitic Rocks	C-h	Hazens Notch Fm
VT	Eugeosyncline Sequence	Mafic Rocks	C-hb	Hazens Notch Fm; Belvidere Mtn. amphibolite member
VT	Eugeosyncline Sequence	Mafic Rocks	C-hg	Hazens Notch Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-hm	Hazens Notch Fm
VT	Grenville Belt	Pelitic Rocks	C-ho	Hoosac Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-ho	Hoosac Fm
VT	Eugeosyncline Sequence	Mafic Rocks	C-hog	Hoosac Fm
VT	Grenville Belt	Mafic Rocks	C-hog	Hoosac Fm
VT	Eugeosyncline Sequence	Mafic Rocks	C-ht	Hoosac Fm, Turkey Mtn. Mbr.
VT	Eugeosyncline Sequence	Pelitic Rocks	C-hw	Hatch Hill and West Castleton formations
VT	Grenville Shelf Sequence	Pelitic Rocks	C-m	Monkton quartzite
VT	Grenville Shelf Sequence	Pelitic Rocks	C-m+C-d	(See C-m and C-w)
VT	Grenville Shelf Sequence	Pelitic Rocks	C-mo	Moosalamoo phyllite
VT	Eugeosyncline Sequence	Pelitic Rocks	C-o	Ottawaquechee Fm
VT	Eugeosyncline Sequence	Mafic Rocks	C-og	Ottawaquechee Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-p	Pinnacle Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-p+C-ho	(See C-p and C-ho)
	Eugeosyncline Sequence	Pelitic Rocks	Omm+C-o	

State	Province	Rock Group B	Bedrock Unit	Name/Description
VT	Grenville Shelf Sequence	Pelitic Rocks	C-pa	Parker slate
VT	Eugeosyncline Sequence Sulfidic Schists		C-pc	Pinney Hollow Fm
VT	Eugeosyncline Sequence	Mafic Rocks	C-pg	Pinney Hollow Fm
VT	Bronson Hill Sequence	Mafic Rocks	C-pg	Pinney Hollow Fm
VT	Eugeosyncline Sequence	Mafic Rocks	C-pgc	Pinney Hollow Fm, Chester amphibolite mbr.
VT	Eugeosyncline Sequence	Pelitic Rocks	C-ph	Pinney Hollow Fm
VT	Eugeosyncline Sequence	Mafic Rocks	C-pt	Pinnacle Fm; Tibbit Hill volcanic member
VT	Grenville Shelf Sequence	Carbonate Rocks	C-rb	Rugg Brook Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	C-s	Sweetsburg Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-s	Sweetsburg Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	C-sa	Sweetsburg Fm; St. Albans slate member
VT	Grenville Shelf Sequence	Carbonate Rocks	C-sb	Saxe Brook dolomite
VT	Eugeosyncline Sequence	Pelitic Rocks	C-sbc	St. Catherine Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-sc	St. Catherine Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-scz	St. Catherine Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	C-sh	Sweetsburg Fm
VT	Grenville Shelf Sequence	Carbonate Rocks	C-sr	Sweetsburg Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	C-ssm	Sweetsburg Fm
VT	Grenville Belt	Pelitic Rocks	C-t	Tyson Fm.
VT	Eugeosyncline Sequence	Pelitic Rocks	C-u	Underhill Fm.
VT	Eugeosyncline Sequence	Pelitic Rocks	C-ua	Underhill Fm, Mount Abraham schist member
VT	Eugeosyncline Sequence	Pelitic Rocks	C-ub	Underhill Fm, Battell Mbr.
VT	Eugeosyncline Sequence	Pelitic Rocks	C-uc	Underhill Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-ufb	Underhill Fm; Foot Brook Mbr.
VT	Eugeosyncline Sequence	Pelitic Rocks	C-ufp	Underhill Fm.; Fairfield Pong Mbr.
VT	Eugeosyncline Sequence	Mafic Rocks	C-ug	Underhill Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	C-uj	Underhill Fm.; Jay Peak Mbr
VT	Eugeosyncline Sequence	Mafic Rocks	C-up	Underhill Fm.; Peaked Mountain Mbr
VT	Eugeosyncline Sequence	Carbonate Rocks	C-uw	Underhill Fm.; White Brook Mbr.
VT	Grenville Shelf Sequence	Carbonate Rocks	C-w	Winooski dolomite
VT	Waits River-Gile Mtn.	Pelitic Rocks	Dg	Gile Mtn. Fm
VT	Waits River-Gile Mtn.	Mafic Rocks	Dga	Gile Mtn. Fm
VT	Waits River-Gile Mtn.	Pelitic Rocks	Dgh	Gile Mtn. Fm, Hall Stream Mbr
VT	Waits River-Gile Mtn.	Pelitic Rocks	Dgm	Gile Mtn. Fm, Meetinghouse Slate Mbr

State	Province	Rock Group B	Bedrock Unit	Name/Description
VT	Bronson Hill Sequence	Pelitic Rocks	Dl	Littleton Fm
VT	Bronson Hill Sequence	Pelitic Rocks	Dl	Littleton Fm
VT	Waits River-Gile Mtn.	Pelitic Rocks	DSn	Northfield Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	DSn	Northfield Fm
VT	Waits River-Gile Mtn.	Calcpelite	Dw	Waits River Fm
VT	Waits River-Gile Mtn.	Calcpelite	Dwa	Waits River Fm.; Ayers Cliff limestone Mbr
VT	Waits River-Gile Mtn.	Calcpelite	Dwb	Waits River Fm.; Barton River Mbr
VT	Waits River-Gile Mtn.	Metamorphic Rocks, other	Dwc	Waits River Fm, Crow Hill Mbr
VT	Waits River-Gile Mtn.	Mafic Rocks	Dws	Waits River Fm, Standing Volcanic Pond Mbr
VT	Bronson Hill Sequence	Granite, other	hu	undifferentiated granitic rocks
VT	Bronson Hill Sequence	Granite, other	nhb	Bethlehem gneiss
VT	Waits River-Gile Mtn.	Mafic Rocks	nhd	Metadiorite
VT	Waits River-Gile Mtn.	Granite, other	nhu	Undifferentiated granitic rock
VT	Bronson Hill Sequence	Granite, other	nhu	Undifferentiated granitic rock
VT	Eugeosyncline Sequence	Granite, other	nhu	Undifferentiated granitic rock
VT	Waits River-Gile Mtn.	Granite, other	nhu+Omhb	(See nhu and Omhb)
VT	Bronson Hill Sequence	Mafic Rocks	Oa	Amonoosuc Volcanics
VT	Bronson Hill Sequence	Pelitic Rocks	Oal	Albee Formation
VT	NH-ME Sequence	Pelitic Rocks	Oal	Albee Formation
VT	Grenville Shelf Sequence	Carbonate Rocks	Ob	Bascom Fm., and Luke Hill, Naylor Ledge, and Hastings Creek limestone
VT	Grenville Shelf Sequence	Pelitic Rocks	Obb	Bascom Fm., and Luke Hill, Naylor Ledge, and Hastings Creek limestone
VT	Grenville Shelf Sequence	Carbonate Rocks	Oc	Cutting dolomite, and Morgan Corner and Wallace Creek formations
VT	Grenville Shelf Sequence	Carbonate Rocks	Ocb	Chipman, Bridport, and Beldens Fm.; Providence Island dolomite
VT	Grenville Shelf Sequence	Carbonate Rocks	Ocbe	Chipman, Bridport, and Beldens Fm.; Providence Island dolomite
VT	Grenville Shelf Sequence	Carbonate Rocks	Ocbr	Chipman, Bridport, and Beldens Fm.; Providence Island dolomite
VT	Grenville Shelf Sequence	Pelitic Rocks	Och	Cumberland Head Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	OC-s	Stowe Formation
VT	Eugeosyncline Sequence	Pelitic Rocks	OC-sc	Stowe Fm
VT	Eugeosyncline Sequence	Mafic Rocks	OC-sg	Stowe Fm
VT	Eugeosyncline Sequence	Mafic Rocks	OC-sg+us	(See OC-sg and us)
VT	Eugeosyncline Sequence	Pelitic Rocks	OC-u	Pinney Hollow Ottauquechee Fm, and Stowe Formations

State	Province	Rock Group B	Bedrock Unit	Name/Description
VT	Grenville Shelf Sequence	Carbonate Rocks	Ocw	Chipman, Bridport, and Beldens Fm.; Providence Island dolomite
VT	Grenville Shelf Sequence	Carbonate Rocks	Ogl	Glens Falls Fm.; Larrabee Mbr
VT	Grenville Shelf Sequence	Carbonate Rocks	Ogo	Glens Falls and Orwell limestone
VT	Grenville Shelf Sequence	Carbonate Rocks	Ogs	Glens Falls Fm.; Shoreham Mbr.
VT	Grenville Shelf Sequence	Pelitic Rocks	Oh	Hortonville Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	Oha	Hathaway Fm
VT	Grenville Shelf Sequence	Carbonate Rocks	Ohg	Hortonville, or Cumberland Head, and Glens Falls formations
VT	Grenville Shelf Sequence	Carbonate Rocks	Ohi	Highgate Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	Oi	Iberville Fm
VT	Eugeosyncline Sequence	Mafic Rocks	Omb	Missisquoi Fm, Barnard Volcanic Mbr
VT	Eugeosyncline Sequence	Sulfidic Schists	Omc	Missisquoi Fm
VT	Eugeosyncline Sequence	Mafic Rocks	Omco	Missisquoi Fm; Coburn Hill Volcanic Mbr
VT	Eugeosyncline Sequence	Pelitic Rocks	Omcrr	Missisquoi Fm, Cram Hill Mbr
VT	Eugeosyncline Sequence	Pelitic Rocks	Omh	Mount Hamilton Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	Omhb	Missisquoi Fm.; Harlow Bridge quartzite member
VT	Grenville Shelf Sequence	Carbonate Rocks	Omi	Middlebury and Chazy limestone; Youngman and Carman formations
VT	Grenville Shelf Sequence	Carbonate Rocks	Omic	Middlebury and Chazy limestone.
VT	Grenville Shelf Sequence	Carbonate Rocks	Omid	Middlebury and Chazy limestone
VT	Grenville Shelf Sequence	Carbonate Rocks	Omiv	Middlebury and Chazy limestone
VT	Grenville Shelf Sequence	Carbonate Rocks	Omiv+Omid+Om	(See Omiv, Omid, Om)
VT	Grenville Shelf Sequence	Pelitic Rocks	Oml	Morses Line Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	Omm	Missisquoi Fm, Moretown Mbr
VT	Eugeosyncline Sequence	Carbonate Rocks	Omu	Missisquoi Fm.; Umbrella Hill Mbr
VT	Eugeosyncline Sequence	Pelitic Rocks	Omw	Missisquoi Fm, Whetstone Hill, Mbr
VT	Grenville Shelf Sequence	Carbonate Rocks	Oo	Orwell limestone, and Isle La Motte and Lowville limestones
VT	Bronson Hill Sequence	Pelitic Rocks	Oof	Orfordville Fm
VT	Bronson Hill Sequence	Mafic Rocks	Oop	Orfordville Fm, Post Volcanic Pond Mbr
VT	Grenville Shelf Sequence	Pelitic Rocks	Oor	Orwell limestone, and Isle La Motte and Lowville limestones
VT	Bronson Hill Sequence	Mafic Rocks	Oos	Orfordville Fm.; Sunday Mountain volcanics

State	Province	Rock Group B	Bedrock Unit	Name/Description
T	Bronson Hill Sequence	Sulfidic Schists	Op	Partridge Fm
VT	Eugeosyncline Sequence	Pelitic Rocks	Opa	Pawlet Fm
VT	Bronson Hill Sequence	Sulfidic Schists	Opv	Partridge Fm
VT	Grenville Shelf Sequence	Carbonate Rocks	Os	Shelburne, Whitehall, and Strites Pond formations
VT	Grenville Shelf Sequence	Pelitic Rocks	Osp	Stony Point Fm
VT	Grenville Shelf Sequence	Pelitic Rocks	Osp+Oi	(See Osp and Oi)
VT	Bronson Hill Sequence	Granite, other	ou	Biotite quartz diorite gneiss
VT	Grenville Belt	Metamorphic Rocks, other	pC	Mount Holly Complex
VT	Grenville Belt	Grenville Granites	pCg	gneissic biotite granite, quartz monzonite, and granodiorite
VT	Grenville Belt	Grenville Granites	pCgn	gneiss, quartzite, calc-silicate granulite
VT	Grenville Belt	Carbonate Rocks	pCm	Mount Holly Complex
VT	Grenville Belt	Metamorphic Rocks, other	pCsg	Stamford gneiss
VT	Grenville Belt	Metamorphic Rocks, other	pCsq	Mount Holly Complex, quartzite mbr
VT	Grenville Belt	Metamorphic Rocks, other	pCsq+C-t	(See pCsq and C-t)
VT	Bronson Hill Sequence	Metamorphic Rocks, other	Sc	Clough Fm
VT	Waits River-Gile Mtn.	Metamorphic Rocks, other	Sf	Fitch Fm
VT	Bronson Hill Sequence	Metamorphic Rocks, other	Sf	Fitch Fm
VT	Waits River-Gile Mtn.	Calcpelite	Ss	Shaw Mtn. Fm. (south of 44 degrees latitude)
VT	Eugeosyncline Sequence	Calcgranofels	Ss	Shaw Mtn. Fm. (south of 44 degrees latitude)
VT	Eugeosyncline Sequence	Ultramafic Rocks	udp	Dunite, peridotite, and serpentinite
VT	Eugeosyncline Sequence	Ultramafic Rocks	us	Serpentinite, carbonate rock, talc-carbonate rock, and steatite
VT	Eugeosyncline Sequence	Ultramafic Rocks	uu	Undifferentiated ultramafic rocks
VT	Grenville Belt	Mafic Rocks	wd	Hornblende-biotite diorite; gabbro
VT	Waits River-Gile Mtn.	Mafic Rocks	wd	Hornblende-biotite diorite; gabbro
VT	Waits River-Gile Mtn.	Alkali Granite	we	Essexite
VT	Grenville Belt	Alkali Granite	we	Essexite
VT	Waits River-Gile Mtn.	Granite, other	wg	Biotite and hornblende granites
VT	Waits River-Gile Mtn.	Alkali Granite	wg	Biotite and hornblende granites
VT	Grenville Shelf Sequence	Basalt	wle	Bostonite
VT	Grenville Belt	Alkali Granite	wn	Nepheline syenite and pulaskite

State	Province	Rock Group B	Bedrock Unit	Name/Description
VT	Grenville Belt	Alkali Granite	ws	Hornblende, biotite, quartz, and augite syenites
VT	Waits River-Gile Mtn.	Alkali Granite	ws	Hornblende, biotite, quartz, and augite syenites
VT	Waits River-Gile Mtn.	Felsic Volcanics	wv	Volcanic breccia, felsitic tuft, and flows
VT	Grenville Belt	Felsic Volcanics	wv	Volcanic breccia, felsitic tuft, and flows