

## Simplified Description of Map Units

Minerals listed in order of increasing abundance  
(see accompanying text for complete description)

**POST-METAMORPHIC INTRUSIVE ROCKS**

White Mountain Plutonic-Volcanic Suite

Md Diabase and lamprophyre dikes (Mesozoic)

Mdp Porphyritic diabase dikes with plagioclase phenocrysts (Mesozoic)

**SYN- TO POST-METAMORPHIC INTRUSIVE ROCKS**

New Hampshire Plutonic Suite (includes Chelmsford Granite and Hudson pluton)

Dp Pegmatite (Devonian?)

Dg Binary granite and granitic pegmatite (Devonian)

Dmg Muscovite granite (Devonian)

Rocks of the Ayer Granodiorite (Silurian)

Sag Porphyritic granite to granodiorite

Sagd Granodiorite

Sagdg Garnetiferous granodiorite

Sad Diorite

**METASEDIMENTARY ROCKS OF THE MERRIMACK TROUGH**

SOb Berwick Formation (Ordovician and Silurian)  
Biotite-plagioclase-quartz granofels and schist, and calc-silicate rocks

SObw Well-bedded biotite-plagioclase-quartz granofels and schist, and calc-silicate rocks

SObq Quartzite, biotite-plagioclase-quartz granofels, and calc-silicate rocks

## Explanation of Map Symbols

Contacts, dotted where concealed

Outcrops (areas of exposed bedrock examined in this study)

Garnet isograd, hatchures in the garnet zone

F1 antiform

F1 synform

F2 anticline

F2 syncline

Location and age of biotite granite dike at station 122  
from Table 1 of Lyons and others (1997)

**Minor Folds**

Strike and dip of refolded Fn-1 (F1) axial surface

Inclined

Strike and dip of Fn (F2 or undetermined age) axial surface

Inclined

Vertical

Strike and dip of Fn + 1 (F2) axial surface

Inclined

Vertical

Strike and dip of Fn + 2 (F3) axial surface

Inclined

**Planar Features**

Strike and dip of bedding

Inclined

Vertical

Inclined showing tops

Vertical showing tops (ball on top side)

Inclined, overturned

Strike and dip of layer-parallel schistosity (S1)

Inclined

Vertical

Inclined, deformed

Strike and dip of dominant schistosity of undetermined age

Inclined

Vertical

Inclined, deformed

Strike and dip of Sn + 1 (S2) penetrative cleavage, schistosity, or gneissosity

Inclined

Vertical

Strike and dip of kink bands, younger than S2 but older than S3

Inclined

Vertical

Strike and dip of Sn + 2 (S3) crenulation cleavage

Inclined

Strike and dip of dikes

Generalized strike but no dip, Sagdg

Inclined, Dp

Vertical, Dp

Location of dike, but no strike or dip, Dp

Inclined, Dg

Vertical, Dg

Location of dike, but no strike or dip, Dp

Inclined, Md or Mdp

Vertical, Md or Mdp

Location of dike, but no strike or dip, Md or Mdp

Generalized strike of vein

Strike and dip of brittle fault; U = up and D = down  
(shown on Brittle Structure Map)

Inclined

Strike and dip of fracture zone (shown on Brittle Structure Map)

Inclined

Vertical

Strike and dip of joint (shown on Brittle Structure Map)

Inclined

Vertical

**Linear Features**

Trend and plunge of fold axes and lineations

Refolded F1 fold axis

Fn fold axis

Fn + 1 fold axis

Fn + 2 fold axis

Intersection between layering and Sn

Intersection between Sn and Sn + 1

Slickensides on brittle fault (shown on Brittle Structure Map)

Trend of glacial striations or grooves (shown on Ductile Structure Map)

**Other Features (shown on Ductile Structure Map)**

Quarry or prospect

Spring