

Table 1

**LIMITATIONS OF SOIL FOR
ENGINEERING PURPOSES**

SOIL SERIES AND MAP SYMBOL	FOUNDATIONS WITH BASEMENTS	FOR DWELLING WITHOUT BASEMENTS	SEPTIC TANKS AND ABSORPTION FIELDS	SANITARY LANDFILL	LOCAL ROADS AND STREETS	LAWNS, LANDSCAPING, AND GOLF FAIRWAYS	ATHLETIC FIELDS	PICNIC AND PLAY AREAS	CAMPsites FOR TRAILERS AND TENTS	PATHS AND TRAILS
Ae Alluvial lands	Severe: subject to frequent flooding; seasonal water table at depth of ½ to 3 ½ feet.	Severe: subject to frequent flooding.	Severe: subject to frequent flooding; hazard of stream pollution.	Severe: subject to frequent flooding; hazard of stream pollution.	Severe: subject to frequent flooding.	Severe: subject to frequent flooding.	Severe: subject to frequent flooding.	Moderate: subject to flooding 1 or 2 times for short periods during season of use.	Severe: subject to frequent flooding.	Moderate: subject to frequent flooding; water table shows depth of 20 inches for short periods during season of use
BrB Boonton stony silt loam (3-8% slopes)	Moderate: seasonal high perched water table at depth of 1 ½ to 4 feet; lateral seepage above fragipan	Slight	Moderate: seasonal high perched water table above fragipan; slow permeability; special design needed for deep trenches.	Moderate: seasonal high perched water table above fragipan; bedrock at depths of 6 feet or more	Severe: seasonal high water table at depth of 1 ½ to 4 feet; high frost-action potential	Slight	Moderate: stony and gravelly; gentle slopes	Slight	Moderate: stony	Slight
BrC Boonton stony silt loam (8-15% slopes)	Moderate: seasonal high perched water table at depth of 1 ½ to 4 feet; lateral seepage above fragipan	Slight	Moderate: seasonal high perched water table above fragipan; slow permeability in fragipan; special design needed for deep ditches.	Moderate: seasonal high perched water table above fragipan; bedrock at depth of 6 feet or more.	Severe: seasonal high water table at depth of 1 ½ to 4 feet; high frost-action potential.	Moderate: strong slopes.	Severe: strong slopes.	Moderate: strong slopes	Moderate: stony; strong slopes	Slight
BsD Boonton very stony silt loam, 15-30% slopes	Severe: steep slopes	Severe: steep slopes	Severe: steep slopes	Moderate: seasonal high perched water table above fragipan; bedrock at depth of 6 feet or more; steep slopes.	Severe: seasonal high water table at depth of 1 ½ to 4 feet; high frost-action potential; steep slopes	Severe: very stony; steep slopes	Severe: very stony; steep slopes.	Severe: steep slopes.	Severe: steep slopes.	Moderate: very stony; steep slopes.
HcC Haledon very stony loam (8-15% slopes)	Severe: seasonal high perched water table at depth of ½ to 1 ½ feet.	Moderate: seasonal high perched water table at depth of ½ to 1 ½ feet.	Severe: seasonal high perched water table at depth of ½ to 1 ½ feet.	Severe: seasonal high perched water table at depth of ½ to 1 ½ feet.	Severe: seasonal high perched water table at depth of ½ to 1 ½ feet; high frost-action potential.	Moderate: very stony.	Severe: water table above depth of 20 inches during season of use; strong slopes in HcC.	Moderate: water table above depth of 20 inches for short periods during season of use.	Severe: water table above depth of 20 inches during season of use.	Moderate: water table may be above depth of 20 inches during season of use.
HdA Haledon very stony silt loam, wet variant (0-3% slopes)	Severe: seasonal high perched water table at depth of 0 to 1 foot.	Severe: seasonal high perched water table at depths of 0 to 1 foot.	Severe: seasonal high perched water table at depth of 0 to 1 foot; hazard of ground-water pollution.	Severe: seasonal high perched water table at depth of 0 to 1 foot; hazard of ground-water pollution.	Severe: seasonal high perched water table at depth of 0 to 1 foot.	Severe: seasonal high perched water table at depth of 0 to 1 foot.	Severe: very stony.	Severe: water table above depth of 20 inches or more during season of use.	Severe: water table above depth of 20 inches or more during season of use.	Severe: seasonal high perched water table at depth of 0 to 1 foot.
HdB Haledon very stony silt loam, wet variant (3-8% slopes)	Severe: seasonal high perched water table at depth of 0 to 1 foot.	Severe: seasonal high perched water table at depths of 0 to 1 foot.	Severe: seasonal high perched water table at depth of 0 to 1 foot; hazard of ground-water pollution.	Severe: seasonal high perched water table at depth of 0 to 1 foot; hazard of ground-water pollution.	Severe: seasonal high perched water table at depth of 0 to 1 foot	Severe: seasonal high perched water table at depth of 0 to 1 foot.	Severe: very stony.	Severe: water table above depth of 20 inches or more during season of use.	Severe: water table above depth of 20 inches or more during season of use.	Severe: seasonal high perched water table at depth of 0 to 1 foot.

Table 1

**LIMITATIONS OF SOIL FOR
ENGINEERING PURPOSES**

SOIL SERIES AND MAP SYMBOL	FOUNDATIONS WITH BASEMENTS	FOR DWELLINGS WITHOUT BASEMENTS	SEPTIC TANKS AND ABSORPTION FIELDS	SANITARY LANDFILL	LOCAL ROADS AND STREETS	LAWNS, LANDSCAPING, AND GOLF FAIRWAYS	ATHLETIC FIELDS	PICNIC AND PLAY AREAS	CAMPsites FOR TRAILERS AND TENTS	PATHS AND TRAILS
HrC Holyoke- Rockaway complex (3-15% slopes)	Severe: hard bedrock at depth of less than 1 ½ feet.	Severe: hard bedrock at depth of less than 1 ½ feet	Severe: hard bedrock at depths of less than 1 ½ feet.	Severe: hard bedrock at depth of less than 1 ½ feet.	Severe: hard bedrock at depth of less than 1 ½ feet	Severe: hard bedrock at depth of less than 1 ½ feet.	Severe: hard bedrock at depth of less than 1 ½ feet.	Moderate: strong slopes in places.	Moderate: strong slopes in places.	Slight
Px Preakness silt loam	Severe: seasonal high water table at depth of 0 to 1 foot.	Severe: seasonal high water table at depth of 0 to 1 foot.	Severe: seasonal high water table at depth of 0 to 1 foot; hazard of groundwater pollution.	Severe: seasonal high water table at depth of 0 to 1 foot; hazard of groundwater pollution.	Severe: seasonal high water table at depth of 0 to 1 foot.	Severe: seasonal high water table at depth of 0 to 1 foot.	Severe: seasonal high water table at depth of 0 to 1 foot.	Severe: water table above depth of 20 inches for month or more during season of use.	Severe: water table above depth of 20 inches for month or more during season of use.	Severe: water table above depth of 20 inches for month or more during season of use.
RhB Riverhead sandy loam (3-8% slopes)	Slight	Slight	Slight: rapid permeability in subsoil; hazard of groundwater pollution.	Severe: rapid permeability in subsoil; hazard of groundwater pollution.	Slight	Slight	Moderate: gentle slopes; gravelly	Slight	Slight	Slight
RhC Riverhead sandy loam (8- 15% slopes)	Moderate: strong slopes	Moderate: strong slopes	Moderate: strong slopes; rapid permeability in subsoil; hazard of groundwater pollution.	Severe: rapid permeability in subsoil; hazard of groundwater pollution.	Moderate: strong slopes; hazard of erosion.	Moderate: strong slopes; hazard of erosion.	Severe: strong slopes.	Moderate: strong slopes.	Moderate: strong slopes.	Slight.
RwE Rock Outcrop	Severe: rock outcrops; very steep slopes.	Severe: rock outcrops; very steep slopes.	Severe: rock outcrops; very steep slopes.	Severe: rock outcrops; very steep slopes	Severe: rock outcrops; very steep slopes	Severe: rock outcrops; very steep slopes.	Severe: rock outcrops; very steep slopes.	Severe: rock outcrops; very steep slopes.	Severe: rock outcrops; very steep slopes.	Severe: rock outcrops; very steep slopes.
UbB, UbC and UrB	too variable to be rated	too variable to be rated	too variable to be rated	too variable to be rated	too variable to be rated	too variable to be rated	too variable to be rated	too variable to be rated	too variable to be rated	too variable to be rated