

New Hampshire Soil Judging Contest Scorecard

Pit Number: _____

Name: _____

Team or School Name: _____

Score Part 1: _____

Score Part 2: _____

Score Part 3: _____

Score Part 4: _____

Part 1: Physical features of soil

A. Texture: Check one for each layer. (2 points each, 6 points total)

	Clayey	Loamy	Sandy
Surface			
Subsoil			
Substratum			

B. Structure: Check one for each layer. (2 points each, 6 points total)

	Granular	Blocky	Platy	Massive/ single grain
Surface				
Subsoil				
Substratum				

C. Permeability: Check one for each layer. (2 points each, 6 points total)

	Slow	Moderate	Rapid
Surface			
Subsoil			
Substratum			

D. Hardpan: Is the substratum layer a hardpan? (2 points) YES or NO

E. Depth to bedrock (ledge): _____ inches. (5 points)

F. Slope: _____ Percent (5 points)

G. Surface Stoniness: Check one. (5 points)

- Stones <1.5 feet apart
- Stones 1.5 to 3 feet apart
- Stones 3 to 25 feet apart
- Stones 25 to 80 feet apart
- Stones >80 feet apart, or no stones

H. Parent Material: Check one. (5 points)

- Alluvium (floodplain sediments)
- Glacial outwash
- Glacial lakebed sediment
- Marine (seabed sediments)
- Residuum (weathered in place)
- Aeolian (wind-blown deposits)
- Glacial till

I. Natural Soil Drainage Class

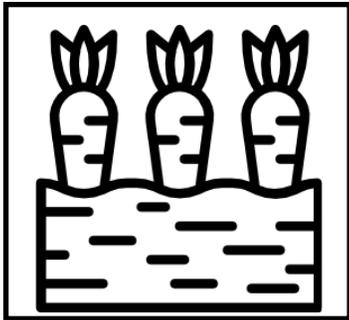
Depth to seasonal high water table: _____ inches (5 points)

Drainage class: check one. (5 points)

- Excessively drained..... >60"
- Well drained.....40-60"
- Moderately well drained....15-40"
- Somewhat poorly drained....12-15"
- Poorly drained.....6-12"
- Very poorly drained.....0-6"

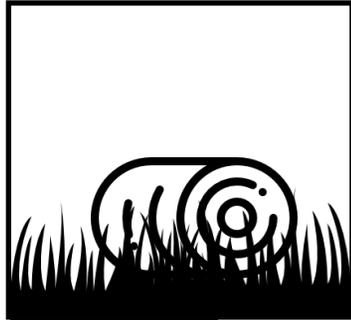
Part 2: Limitations for Selected Uses of the Soil

Check off the soil characteristics that would be limitations for each land use, at this location. (29 points)



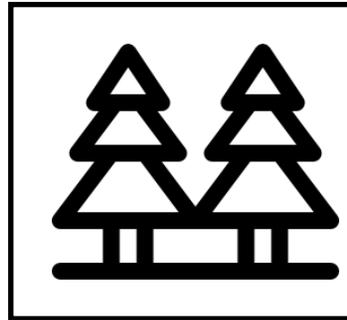
Check off the limitations for **managing a row crop** in this soil:

- Flooding
- Depth to bedrock
- Depth to seasonal high water table
- Permeability of subsoil layer
- Slope
- Surface stones
- Texture of surface layer



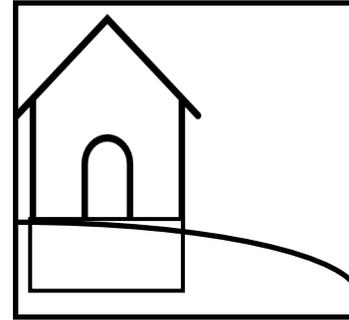
Check off the limitations for **managing hayland** in this soil:

- Depth to bedrock
- Depth to seasonal high water table
- Permeability of subsoil layer
- Slope
- Surface stones
- Texture of surface layer



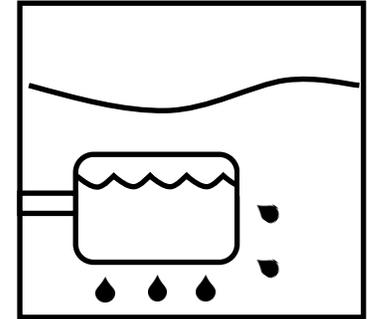
Check off the limitations for **managing woodlands** in this soil:

- Depth to bedrock
- Depth to seasonal high water table
- Slope
- Surface stones
- Texture of surface layer



Check off the limitations for **building a home with a basement** in this soil:

- Flooding
- Depth to bedrock
- Depth to seasonal high water table
- Slope
- Surface stones



Check off the limitations for **installing a septic system** in this soil:

- Flooding
- Depth to bedrock
- Depth to seasonal high water table
- Permeability of substratum layer
- Slope
- Surface stones

Part 3: Best Uses

What is the best use, or uses, for this soil? In other words, which land use is impacted by the fewest limitations at this site? There could be one answer or more. (5 points)

- Home with a basement
- Septic system
- Row crops
- Hayland
- Woodland

Part 4: Prime Farmland

Prime Farmland soils must have all of the following physical features. Check off the features that *this* soil has. (9 points)

- Loamy texture in the surface layer
- Loamy texture in the subsoil layer
- Moderate permeability in the surface layer
- Moderate permeability in the subsoil layer
- Depth to seasonal high water table greater than 30 inches
- Well drained or moderately well drained
- Depth to bedrock greater than 60 inches
- Slope less than 5%
- Surface stones greater than 80 feet apart

Is this soil prime farmland? (7 points) YES NO