

VIRGINIA SOIL JUDGING SCORECARD

Name: _____

Pit # _____

County: _____

Part 1: SOIL FEATURES

A. Measure Thickness (in inches) of the Surface Layer or the A Horizon (5)

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B. Surface Layer Textural Class (5)

Sand	
Loamy Sand	
Sandy Loam	
Loam	
Silt Loam	
Silty Clay Loam	
Clay Loam	
Sandy Clay Loam	
Clay	
Silty Clay	
Sandy Clay	

C. Subsoil Textural Class (5)

Sand	
Loamy Sand	
Sandy Loam	
Loam	
Silt Loam	
Silty Clay Loam	
Clay Loam	
Sandy Clay Loam	
Clay	
Silty Clay	
Sandy Clay	

D. Subsoil Color (5)

Red, Brown or Yellow	
Mottled (No Gray Mottles)	
Mottled (With Gray Mottles)	
Gray (With or Without Red, Yellow, or Brown Mottles)	

E. Depth (5)

Depth to Gray Mottles or to Water	
No Gray Mottles	

Part 2: LANDSCAPE FACTORS

A. Slope Gradient (5)

Nearly Level	0 - 2%	
Gently Sloping	3 - 7%	
Sloping	8 - 15%	
Moderately Steep	16 - 25%	
Steep	>25%	

B. Erosion (5)

None or Slight	
Moderate	
Severe	

C. Landscape Analysis (5)

Upland Ridge	
Sideslope	
Footslope	
Floodplain, Terrace, Drainageways	

Part 3: INFERRED FEATURES

A. Infiltration Rate (5)

Rapid	
Medium	
Slow	

B. Surface Runoff (5)

Rapid	
Medium	
Slow	
Very Slow	

C. Permeability (Slowest rate between surface and bottom of pit) (5)

Rapid	
Moderate	
Slow	

D. Agricultural Drainage Class (5)

Excessive	
Well	
Moderately Well	
Somewhat Poorly	
Poorly	

Part 4: AGRICULTURAL MANAGEMENT

A. Major factors that keep area out of Class 1 (3 pts each)

None		Perm	
Slope		Runoff	
Erosion		Wetness	
Depth		Flooding	
Texture			

B. Land Capability Class (5)

Class I		Class V	
Class II		Class VI	
Class III		Class VII	
Class IV		Class VIII	

C. Soil Amendments (3 pts each)

None Needed		Soil Test Data Surface	
Nitrogen		pH	
Potash		N	
Phosphate		P	
Lime/sulfur		K	

TOTALS

Part 1 _____
 Part 2 _____
 Part 3 _____
 Part 4 _____
 Part 5 _____

Pit Total _____

D. Land Management (3 pts each)

Continuous row crops	
Sod or legume crop every 4 th year	
Sod or legume crop every 3 rd year	
Sod or legume crop every 2 nd year	
Residue management with minimum tillage	
Establish recommended grasses and legumes	
Control grazing and proper pasture management	
Plant recommended trees and harvest trees selectively	
Use only for wildlife or recreation	

E. Mechanical Practices (5 pts each)

No treatment needed	
Farm on contour or strip crop	
Control brush, trees	
Control gullies	

Part 5: LAND USE INTERPRETATIONS

Rate each soil site property in column 1 for each land use below. (1 point per answer)

Soil-Site Properties to Evaluate (2pts each) Circle the correct answer for each property in the spaces provided	Degree of Limitations	Foundations (no basement)	Septic Tank Drainfields	Shrubs and Trees	Roadfill	Waste Lagoons
A. GENERAL SUBSOIL TEXTURE 1. Sands 2. Loams 3. Clay – low shrink-swell 4. Clay – high shrink-swell	Slight Moderate Severe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
B. PERMEABILITY 1. Slow <0.6 "/hr. 2. Moderate 0.61-2.0 "/hr. 3. Rapid >2.1 "/hr.	Slight Moderate Severe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
C. DEPTH TO ROCK 1. Shallow 0 - 20" 2. Mod. Deep 21 - 40" 3. Deep 41 - 72" 4. Very Deep over 72"	Slight Moderate Severe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
D. SLOPE NEARLY LEVEL 1. Nearly level 0-2% 2. Gentle 3 - 7% 3. Moderate 8 - 15% 4. Strong 16 - 25% 5. Steep > 25%	Slight Moderate Severe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
E. WATER TABLE (permanent or temporary) 1. Shallow < 30" 2. Mod. Deep 30 – 72" 3. Deep > 72"	Slight Moderate Severe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
F. FLOODING 1. None 2. Occasional 3. Frequent	Slight Moderate Severe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
FINAL EVALUATION (2 points each) Based on rating for individual properties, rate this soil for each land use. All factors none to slight----- Slight One or more factors moderate, none severe----- Moderate One or more factors severe----- Severe		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

