PURDUE UNIVERSITY | Extension

Illinois Soil Evaluation Scorecard

AY-376 **HOME SITE**

I. SOIL PROPERTIES *(5 points each, 45 total)*

A. PARENT MATERIAL

1A Weathered bedrock
1B Till
1C Outwash/Lacustrine deposits
1D Eolian sand
1E Loess
2A Alluvium
2B Local overwash

B. SLOPE

3A 0-2%
3B 3-6%
3C 7-12%
3D 13-18%
3E 19-25%
4A 26-35%
4B >35%

C. LANDFORM

5A Upland hillslope
5B Upland swell
5C Upland flat
5D Upland depression
6A Dune
6B Flood plain
6C Filled depression

D. SURFACE SOIL COLOR GROUP

7A Gray
7B Brown
7C Black

E. PREVIOUS EROSION

8A None to slight
8B Moderate
8C Severe

F. SURFACE TEXTURE

9A Sandy
9B Moderately sandy
9C Medium
9D Moderately clayey
9E Clayey

G. SUBSOIL TEXTURE

10A Sandy
10B Moderately sandy
10C Medium
10D Moderately clayey
10E Clayey

H. NATURAL SOIL DRAINAGE

11A Poorly
11B Somewhat poorly
11C Moderately well
11D Well

I. LIMITING LAYER

12A Bedrock, 0-20 in
12B Bedrock, 21-40 in
12C Dense till, 0-20 in
12D Dense till, 21-40 in
12E Fragipan, 0-20 in
13A Fragipan, 21-40 in
13B Coarse sand & gravel, 0-20 in
13C Coarse sand & gravel, 21-40 in
13D None within 40 in

II. HOME SITE PRACTICES *(3 pts. each, 69 total)*

A. SITE SELECTION AND CONSTRUCTION PRACTICES

	Yes	No	
14	A	B	Is the soil available for a homesite? *If NO, mark practices 15-36 as NO, N/A, or No application.*
15	A	B	Preserve trees & plant new one
16	A	B	Maintain soil cover during construction
17	A	B	Improve surface drainage
18	A	B	Is the soil suitable for a basement?
19	A	B	Design for high-clay subsoils
20	A	B	Potential construction hazards on slopes
21	A	B	Install diversion structures and drains
22	A	B	Provide foundation drainage
23	A	B	High-risk for cave-in during construction

B. LANDSCAPE AND LAWN PRACTICES

24 Manage soil reaction for acid-loving shrubs
A - No application; **B**- Apply sulfur; **C**- Plant other species

25 Manage soil reaction for lawns
A - Apply lime; **B**- No application; **C**- Plant other species

	Yes	No	
26	A	B	Apply phosphorus (P) to lawn
27	A	B	Apply potassium (K) to lawn

C. ON-SITE SEWAGE DISPOSAL – SUITABILITY

	Yes	No	
28	A	B	Is soil suitable for an absorption field? *If NO, mark 29-36 as NO or N/A*

D. SEPTIC TANK PRACTICES

29 Septic tank pumping interval (PI, years)

A. 1-2;
B. 3;
C. 4;
D. ≥5
E. N/A

$$PI = \frac{(D \times G) / 1{,}000}{R}$$

PI = ___

$$PI = \frac{(\_\_ \times \_\_) / 1{,}000}{\_\_\_}$$

D-Disp. (Y=7; N=10); G=tank size, gal; R=Resid.

E. SOIL ABSORPTION FIELD PRACTICES

30	A	B	Subsurface trench, small size
31	A	B	Subsurface trench, large size
32	A	B	Subsurface trench, very large size
33	A	B	Elevated sand mound system
34	A	B	Elev. sand mound & subsurface drain
35	A	B	Drip distribution & secondary treatment
36	A	B	Secondary treatment

Team / Contestant number: _____

Contestant name: _____

Site number: _____

SCORE

Part I *(45 points possible)*: _____

Part II *(69 points possible)*: _____

Total *(114 points possible)*: _____