



General Study Guide for Selecting Land Capability Classes In State Land Judging Contest

Soil Factors – Part I		
A. Texture		Best Land Class Possible
Coarse	Sandy	III
Moderately Coarse	Sandy	I
Medium	Loamy	I
Moderately Fine	Clay	I
Fine	Clay	I
B. Depth of Soil		
Deep	40 inches +	I
Moderately Deep	20 – 40 inches	I
Shallow	10 – 20 inches	III
Very Shallow	10 inches or less	VII
C. Slope		
Nearly Level	0 – 1 %	I
Gently Sloping	1 – 3 % (Moderate)	II
Moderately Sloping	3 – 5 % (Rapid)	III
Strongly Sloping	5 – 8 % (Rapid)	IV
Steep	8 – 15 % (Rapid)	VI
Very Steep	15 % + (Rapid)	VI

Soil Factors – Part II		
D. Erosion – Wind and Water		Best Land Class Possible
None to Slight	25 % or less	I
Moderate	25 % to 75 %	II
Severe	75 % + with no gullies	VI
Very Severe	75 % + with uncrossable gullies	VI
Interpretations of Soil Factors		
E. Permeability		
Rapid	Coarse soils	III
Moderate	Moderately Coarse Medium Moderately Fine	I
Slow	Fine	I
Very Slow	Fine	II
F. Surface Runoff		
Rapid	Moderate, Strongly, Steep Very	III
Moderate	Gently Sloping	I
Slow	Nearly Level	I
Very Slow	Nearly Level	II
G. Factors That Keep Area Out of Class I		
<ol style="list-style-type: none"> 1. Check <u>Texture</u> if you marked <u>Coarse</u> under <u>Section A</u>. 2. Check <u>Depth</u> if you marked <u>Shallow</u> or <u>Very Shallow</u> under <u>Section B</u>. 3. Check <u>Slope</u> if you marked any slope box other than <u>Nearly Level</u> under <u>Section C</u>. 4. Check <u>Erosion</u> if you marked any box other than <u>None to Slight</u> under <u>Section D</u>. 5. <u>Permeability</u> should be checked if you checked <u>Rapid</u> or <u>Very Slow</u> under <u>Section E</u>. 6. <u>Surface Runoff</u> should be checked if you marked <u>Very Slow</u> or <u>Rapid Runoff</u> under <u>Section F</u>. 7. Wetness – Low areas – Class 5 8. Flooding – Water standing – Class 5 9. None – mark only if you have not marked any. 		

Soil Factors – Part I

Interpretations of Soil Factors

D. Land Capability Class

Class I Do not check if you marked any boxes (1-8) in Section G.

Class II Land includes:
Gently Sloping
Moderate Erosion
Very Slow Runoff

Class III Land includes:
Coarse Textured
Shallow Depth
Moderately Sloping
Rapid Runoff

Class IV Land includes:
Strongly Sloping

Class V Land includes:
Wetness or Flooding

Class VI Land includes:
Steep and Very Steep Slope
Severe and Very Severe Erosion
Coarse Textured – Moderate Sloping or Strongly Sloping

Class VII Land includes:
Very Shallow Depth

Class VIII Land includes:
Mountains

Recommended Land Treatments – Part II

A. Vegetative

1. Class I Land mark this.	9. Class V, VI, VII Land mark this.
2. Class II Land mark this.	10. Class V, VI, VII Land mark this.
3. Class III Land mark this.	11. Check pit card.
4. Class IV Land mark this.	12. Only when trees are the crop.
5. Class I, II, III, IV Land mark this.	13. Class VIII Use only for wildlife.
6. Class I, II, III, IV Land mark this.	
7. Class V, VI, VII Land mark this.	
8. Class V, VI, VII Land mark this.	

Recommended Land Treatments – Part II (Continued)

B. Mechanical	C. Fertilizer and Soil Amendments
<p>14. Mark if trees or brush are present. (2 inch diameter and 5 feet tall)</p> <p>15. All soils except coarse soils over 1% slope - Class I, II, III, IV soils.</p> <p>16. Mark if you mark 15.</p> <p>17. Check if overhead water is a factor (given on pit card).</p> <p>18. Check if moderately wet.</p> <p>19. Check when gullies are present (6" deep and 12" wide).</p> <p>20. Check when brush, trees, erosion, gullies, drainage or outside water are not problems.</p>	<p>Information on Pit Cards:</p> <p>21. Check if pH is less than 6.3 or above 8.</p> <p>22. Check if value of phosphorus is less than 60.</p> <p>23. Check if value of potassium is less than 300.</p> <p>24. Check if pit card says deficient.</p> <p>25. Check if 21 through 24 are okay.</p>