

Station # _____ Name / County: _____ Contestant #: _____

Top Soil Texture	<input type="checkbox"/> Fine (Clayey) <input type="checkbox"/> Medium (Loamy) <input type="checkbox"/> Coarse (Sandy)	<p>Fine means that the soil contains at least 35% clay</p> <p>Medium is between course and fine</p> <p>Course means that at least 70% of the soil is sand.</p>																					
Top Soil Thickness	<input type="checkbox"/> Thin <input type="checkbox"/> Moderately Thick <input type="checkbox"/> Thick <input type="checkbox"/> Very Thick <input type="checkbox"/> Extremely Thick	<p>Thin - Less than 5 inches</p> <p>Moderately Thick - at least 5, but less than 10 inches</p> <p>Thick - at least 10. but less than 20 inches</p> <p>Very Thick - at least 20, but less than 40</p> <p>Extremely Thick - at least 40 inches</p>																					
Effective Depth	<input type="checkbox"/> Deep <input type="checkbox"/> Moderately Deep <input type="checkbox"/> Shallow <input type="checkbox"/> Very Shallow	<p>Deep - at least 40 inches</p> <p>Moderately Deep - at least 20, but less than 40 inches</p> <p>Shallow - at least 10, but less than 20 inches</p> <p>Very Shallow - less than 10 inches</p>																					
Per-meability	<input type="checkbox"/> Slow <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid	<p>Permeability - rate of movement of water or air through the soil. A gray or gray mottle, fine, sticky, clay subsoil has slow permeability. A medium textured or sandy clay subsoil that has bright red or yellow colors should have moderate permeability. A sandy subsoil generally has rapid permeability.</p>																					
Slope	<input type="checkbox"/> Nearly Level <input type="checkbox"/> Very Gently Sloping <input type="checkbox"/> Gently Sloping <input type="checkbox"/> Sloping <input type="checkbox"/> Strongly Sloping <input type="checkbox"/> Steep <input type="checkbox"/> Very Steep	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">0 - 2%</td> <td style="width: 33%; text-align: center;">Nearly Level</td> <td style="width: 33%; text-align: center;">0 - 2%</td> </tr> <tr> <td style="text-align: center;">2+ - 5%</td> <td style="text-align: center;">Very Gently Sloping</td> <td style="text-align: center;">2+ - 6%</td> </tr> <tr> <td style="text-align: center;">5+ - 8%</td> <td style="text-align: center;">Gently Sloping</td> <td style="text-align: center;">6+ - 10%</td> </tr> <tr> <td style="text-align: center;">8+ - 12%</td> <td style="text-align: center;">Sloping</td> <td style="text-align: center;">10+ - 15%</td> </tr> <tr> <td style="text-align: center;">12+ - 17%</td> <td style="text-align: center;">Strongly Sloping</td> <td style="text-align: center;">15+ - 25%</td> </tr> <tr> <td style="text-align: center;">above 17%</td> <td style="text-align: center;">Steep</td> <td style="text-align: center;">25+ - 60%</td> </tr> <tr> <td style="text-align: center;">Not applicable</td> <td style="text-align: center;">Very Steep</td> <td style="text-align: center;">above 60%</td> </tr> </table>	0 - 2%	Nearly Level	0 - 2%	2+ - 5%	Very Gently Sloping	2+ - 6%	5+ - 8%	Gently Sloping	6+ - 10%	8+ - 12%	Sloping	10+ - 15%	12+ - 17%	Strongly Sloping	15+ - 25%	above 17%	Steep	25+ - 60%	Not applicable	Very Steep	above 60%
0 - 2%	Nearly Level	0 - 2%																					
2+ - 5%	Very Gently Sloping	2+ - 6%																					
5+ - 8%	Gently Sloping	6+ - 10%																					
8+ - 12%	Sloping	10+ - 15%																					
12+ - 17%	Strongly Sloping	15+ - 25%																					
above 17%	Steep	25+ - 60%																					
Not applicable	Very Steep	above 60%																					
Erosion	<input type="checkbox"/> None to Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Very Severe	<p>Less than 25% of the original topsoil lost</p> <p>Between 25 to 75% of original topsoil lost</p> <p>More than 75% of the original topsoil lost</p> <p>Gullied land. 100% of topsoil and 25 - 75% of subsoil lost</p>																					
Drainage	<input type="checkbox"/> Excessively Drained <input type="checkbox"/> Well Drained <input type="checkbox"/> Moderately Well Drained <input type="checkbox"/> Somewhat Poorly Drained <input type="checkbox"/> Poorly Drained	<p>Coarse, sandy materials, more than 60 inches deep</p> <p>No gray mottles in top 30 inches of soil profile</p> <p>No gray mottles in top 20 inches, but present in 20-30 inch zone</p> <p>Gray mottles in top 20 inches</p> <p>Soil is usually gray to surface; subsoil is always predominately gray</p>																					
Land Capability	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Class IV <input type="checkbox"/> Class V <input type="checkbox"/> Class VI <input type="checkbox"/> Class VI <input type="checkbox"/> Class VIII	<p>Very good land from all points of view</p> <p>Good, but not quite as good as Class I</p> <p>Moderately good for cultivation</p> <p>Can be cultivated under careful management</p> <p>Very little slope, not subject to erosion, but poorly drained</p> <p>Suitable for perminate vegetation</p> <p>Severe limitations for permanent vegetation</p> <p>Sandy, wet or stoney, used for wildlife or recreation</p>																					

Station # _____

Select the practices needed to conserve soil and water and maintain or improve conductivity by placing an "X" in the square next to the appropriate recommendation.

VEGETATIVE	
<input type="checkbox"/>	1. Use soil conserving and improving crops every 4th and 5th year.
<input type="checkbox"/>	2. Use soil conserving and improving crops every 3rd or 4th year.
<input type="checkbox"/>	3. Use soil conserving and improving crops every 2nd year.
<input type="checkbox"/>	4. Use soil conserving and improving crops every year.
<input type="checkbox"/>	5. Do not burn crop residue.
<input type="checkbox"/>	6. Residue management.
<input type="checkbox"/>	7. Proper pasture or range management.
<input type="checkbox"/>	8. Establish recommended grass and/or legumes.
<input type="checkbox"/>	9. Control weeds.
<input type="checkbox"/>	10. Control grazing.
<input type="checkbox"/>	11. Plant recommended trees.
<input type="checkbox"/>	12. Thin crowded trees effectively.
<input type="checkbox"/>	13. Use only for wildlife or recreational area.
MECHANICAL	
<input type="checkbox"/>	14. Waterway should be established.
<input type="checkbox"/>	15. Terrace
<input type="checkbox"/>	16. Farm on contour.
<input type="checkbox"/>	17. Maintain terraces each year.
<input type="checkbox"/>	18. Install drainage system.
<input type="checkbox"/>	19. Control gullies.
<input type="checkbox"/>	20. Permanent strips on contour.
LIME and FERTILIZER	
<input type="checkbox"/>	21. Lime
<input type="checkbox"/>	22. Manure
<input type="checkbox"/>	23. Phosphorus
<input type="checkbox"/>	24. Potassium
<input type="checkbox"/>	25. Nitrogen
<input type="checkbox"/>	26. Magnesium

Contestant #: _____

Part 1 Score _____

Name: _____

Part 2 Score _____

County: _____

Total Score _____