4-H/FFA Soils CDE
Scantron Instructions

Before Transferring Answers:
1. Each contestant will need to bring multiple #2 pencils as a sharpener will not be available.
2. Using one blank per digit, write your team number in the boxes provided then fill-in the corresponding bubble below each digit.
3. The Group letter is your assigned rotation group. This letter will NOT be bubbled on your form.
4. Using one blank per letter, write your last name in the boxes provided then fill-in the corresponding bubble below each letter.
5. Using one blank per letter, write your first name in the boxes provided then fill-in the corresponding bubble below each letter.

Transferring Answers from Scorecard to Scantron:
1. Follow the instructions provided by your room/hole monitor.
2. The column numbers, 1-5, represent the hole number being judged at the contest site.
3. Using Part 1 (front side) fill-in the corresponding bubble indicating your answer choice for each soil property.
4. Using Part 2 (back side) fill-in the corresponding bubble indicating your answer choice for each agriculture or home site practice. Note – If for example hole 2 is to be judged as a home site, column 2 will be left blank in the agriculture practice section and column 2 will be completed in the home site practice section.
5. After marking all sections, it is suggested you double check accuracy to make sure all bubbles match the corresponding answers on your scorecard.
6. When finished, turn in your Scantron answer sheet to the room/hole monitor. You may keep your scorecard. Scantron answers cannot be changed after you’ve left the room/hole.

Feel free to ask the room/hole monitor questions regarding Scantron form completion.
Dirty Fingers
Soil Diggers of America
Team Number 2012
Group C
Registration Time 7:45

**Indiana Soil Evaluation**

**Part I - Soil Properties (5 points each, 45 total points)**

<table>
<thead>
<tr>
<th>Team #</th>
<th>First Name</th>
<th>Last Name</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
</table>

**Part II - Soil Characteristics**

- **Surface Soil Color**
  - Gray: 1, 2, 3, 4, 5
  - Brown: 1, 2, 3, 4, 5
  - Silt: 1, 2, 3, 4, 5

- **Previous Erosion**
  - None to slight: 1, 2, 3, 4, 5
  - Moderate: 1, 2, 3, 4, 5
  - Severe: 1, 2, 3, 4, 5

- **Surface Texture**
  - Sandy: 1, 2, 3, 4, 5
  - Moderately sandy: 1, 2, 3, 4, 5
  - Medium: 1, 2, 3, 4, 5
  - Moderately clayey: 1, 2, 3, 4, 5
  - Clayey: 1, 2, 3, 4, 5

- **Subsoil Texture**
  - Sandy: 1, 2, 3, 4, 5
  - Moderately sandy: 1, 2, 3, 4, 5
  - Medium: 1, 2, 3, 4, 5
  - Moderately clayey: 1, 2, 3, 4, 5
  - Clayey: 1, 2, 3, 4, 5

- **Natural Soil Drainage**
  - Poorly: 1, 2, 3, 4, 5
  - Somewhat poorly: 1, 2, 3, 4, 5
  - Moderately well: 1, 2, 3, 4, 5
  - Well: 1, 2, 3, 4, 5

- **Limiting Layer**
  - Bedrock, 0-20 in: 1, 2, 3, 4, 5
  - Bedrock, 21-40 in: 1, 2, 3, 4, 5
  - Dense layer, 0-20 in: 1, 2, 3, 4, 5
  - Dense layer, 21-40 in: 1, 2, 3, 4, 5
  - Fringe layer, 0-20 in: 1, 2, 3, 4, 5
  - Fringe layer, 21-40 in: 1, 2, 3, 4, 5
  - Coarse sand & gravel, 0-20 in: 1, 2, 3, 4, 5
  - Coarse sand & gravel, 21-40 in: 1, 2, 3, 4, 5
  - None within 40 in: 1, 2, 3, 4, 5
### Part II - Agriculture Practices (3 points each, 69 total per site)

<table>
<thead>
<tr>
<th>Land Use Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erosion and Compaction Potential</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
</tr>
<tr>
<td>Tillage Practices</td>
<td>A: No-till, B: moldboard or chisel plowing</td>
<td>A: No-till, B: moldboard or chisel plowing</td>
<td>A: No-till, B: moldboard or chisel plowing</td>
<td>A: No-till, B: moldboard or chisel plowing</td>
<td>A: No-till, B: moldboard or chisel plowing</td>
</tr>
<tr>
<td>Water Management</td>
<td>A: Drainage, B: Irrigation</td>
<td>A: Drainage, B: Irrigation</td>
<td>A: Drainage, B: Irrigation</td>
<td>A: Drainage, B: Irrigation</td>
<td>A: Drainage, B: Irrigation</td>
</tr>
<tr>
<td>Plant Nutrient Application</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
<td>A: Low, B: Medium, C: High</td>
</tr>
<tr>
<td>Nutrient Pollution Potential</td>
<td>A: High, B: Medium, C: Low</td>
<td>A: High, B: Medium, C: Low</td>
<td>A: High, B: Medium, C: Low</td>
<td>A: High, B: Medium, C: Low</td>
<td>A: High, B: Medium, C: Low</td>
</tr>
</tbody>
</table>

### Part II - Homeste Practices (3 points each, 72 total per site)

<table>
<thead>
<tr>
<th>Site Selection</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Practices</td>
<td>A: Yes, B: No</td>
<td>A: Yes, B: No</td>
<td>A: Yes, B: No</td>
<td>A: Yes, B: No</td>
<td>A: Yes, B: No</td>
</tr>
<tr>
<td>Landscaping and Lawn Practices</td>
<td>A: No, B: Yes</td>
<td>A: No, B: Yes</td>
<td>A: No, B: Yes</td>
<td>A: No, B: Yes</td>
<td>A: No, B: Yes</td>
</tr>
</tbody>
</table>

### Soil Absorption Field Practices
- Subsurface trench, gravity flow system
- Subsurface trench, flood dose system
- Subsurface trench, pressure drain system
- Elevated sand mound system
- Drip distribution & secondary treatment
- Secondary treatment

\[
P_I = \frac{(D \times G)}{1,000} / R \\
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