

FALL 2017

FFA LAND JUDGING PLACARD - MINNESOTA - FFA

Pit Number ~~1~~ 1 - TAN CARD

Lime Area 1 Flooding NONE

pH 6.0 SMP Buffer Index - Assumed Field Size 360 Acres

P Test 24 lb./acres available phosphorus

Subsoil Phosphorus Level HIGH

K Test 110 lb./acres exchangeable potassium

Subsoil Potassium Level HIGH Manure Applied 2 Tons/Acre

Corn Yield Goal 210 bu./acres

Crop to be planted CORN

Past Crop Good Alfalfa

Original Surface Soil Depth 15 inches * LAST HORIZON

Slope Length 50 feet CONTINUES TO

Depth to permanent water table > 60 inches 60 inches.

FALL 2017

Minnesota FFA Soils Scorecard

Name **KEY**

School

Number **(1)**

9/17

Part 1: Surface Soil -

A. Thickness in Inches

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Part 3 Parent Material - Continued

B. Texture

5	<input checked="" type="checkbox"/>	Coarse
	<input type="checkbox"/>	Moderately Coarse
	<input type="checkbox"/>	Medium
	<input type="checkbox"/>	Fine
	<input type="checkbox"/>	Very Fine

Allow 1 inch either way on thickness

B. Color

4	<input checked="" type="checkbox"/>	Dark
	<input type="checkbox"/>	Medium
	<input type="checkbox"/>	Light

C. Gravel

2	<input checked="" type="checkbox"/>	None to Few
	<input type="checkbox"/>	Gravelly
	<input type="checkbox"/>	Very Gravelly
	<input type="checkbox"/>	Extremely Gravelly

C. Texture

5	<input checked="" type="checkbox"/>	Coarse
	<input type="checkbox"/>	Moderately Coarse
	<input type="checkbox"/>	Medium
	<input type="checkbox"/>	Fine
	<input type="checkbox"/>	Very Fine

Part 4 Topography

A. Steepness of Slope

3	<input checked="" type="checkbox"/>	Nearly level - 2% or less
	<input type="checkbox"/>	Gently sloping - 3-6%
	<input type="checkbox"/>	Moderately sloping - 7-12%
	<input type="checkbox"/>	Strongly sloping - 13 to 18%
	<input type="checkbox"/>	Steep - Greater than 18%

D. Gravel and Rock

2	<input checked="" type="checkbox"/>	None to Few
	<input type="checkbox"/>	Gravelly
	<input type="checkbox"/>	Very Gravelly
	<input type="checkbox"/>	Extremely Gravelly

B. Landscape Position

3	<input checked="" type="checkbox"/>	Upland
	<input type="checkbox"/>	Terrace - Footslope
	<input type="checkbox"/>	Bottom land - Flood Plains
	<input type="checkbox"/>	Depressional Area - No Outlet

Part 2: Subsurface Soil

A. Thickness in Inches

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Part 5 - Land Capability Classification

6	<input checked="" type="checkbox"/>	Class I	Land suitable for for Cultivated Crops
	<input type="checkbox"/>	Class II	
	<input type="checkbox"/>	Class III	
	<input type="checkbox"/>	Class IV	
	<input type="checkbox"/>	Class V	Land suitable for Permanent Vegetation
	<input type="checkbox"/>	Class VI	
	<input type="checkbox"/>	Class VII	
	<input type="checkbox"/>	Class VIII	

Score 6 points for correct answer - 3 points for 1 class off except for class 5. Allow 3 points between Class IV and VI.

Allow 1 inch either way on thickness

B. Color

4	<input checked="" type="checkbox"/>	Bright
	<input type="checkbox"/>	Mottled
	<input type="checkbox"/>	Dull

Part 6 Interpretation of Soil Features

A. Type of Material that Limits its Depth

2	<input checked="" type="checkbox"/>	None - No limiting materials
	<input type="checkbox"/>	Bedrock - Soft or hard
	<input type="checkbox"/>	Hardpan - Cemented
	<input type="checkbox"/>	Very gravelly sand or high water table

C. Texture

5	<input checked="" type="checkbox"/>	Coarse
	<input type="checkbox"/>	Moderately Coarse
	<input type="checkbox"/>	Medium
	<input type="checkbox"/>	Fine
	<input type="checkbox"/>	Very Fine

B. Parent Material

2	<input checked="" type="checkbox"/>	Bedrock - Soft or hard
	<input type="checkbox"/>	Alluvium /Outwash/Lacustrine
	<input type="checkbox"/>	Till/Loess/Aeolian Sand
	<input type="checkbox"/>	Organic materials - Peat or muck

D. Gravel and Rock

2	<input checked="" type="checkbox"/>	None to Few
	<input type="checkbox"/>	Gravelly
	<input type="checkbox"/>	Very Gravelly
	<input type="checkbox"/>	Extremely Gravelly

C. Depth Favorable for Roots & Water Penetration

2	<input checked="" type="checkbox"/>	Very Deep - 60 inches or more
	<input type="checkbox"/>	Deep - 40 through 59 inches
	<input type="checkbox"/>	Moderately Deep - 20 through 39 inches
	<input type="checkbox"/>	Shallow - less than 20 inches

Part 3: Underlying Material

A. Thickness in Inches

60-30" = 30"

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

D. Air and Water Movement (Subsoil Permeability)

2	<input checked="" type="checkbox"/>	Very Rapid
	<input type="checkbox"/>	Rapid
	<input type="checkbox"/>	Moderate
	<input type="checkbox"/>	Slow

Allow 1 inch either way on thickness

E Total Available Water capacity
1. Available water in horizon per inch of soil

1	<input type="checkbox"/> 0.05	a. Surface Horizon	Calculation Area $.2 \times 15'' = 3.0$
	<input type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		
1	<input type="checkbox"/> 0.05	b. Subsoil	$.2 \times 15'' = 3.0$
	<input type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		
1	<input type="checkbox"/> 0.05	c. Underlying Material	$.2 \times 30'' = 6.0$
	<input type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		

2. Available Water Capacity per Horizon

a. Surface Horizon									
1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
b. Subsoil									
1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
c. Underlying Material									
1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->

3. Total available water capacity in five feet of soil

4	<input type="checkbox"/> Very low - Less than 3 inches
	<input type="checkbox"/> Low - 3.1 to 6.0 inches
	<input type="checkbox"/> Moderate - 6.1 to 9.0 inches
	<input checked="" type="checkbox"/> High - over 9.0 inches

4. Internal Drainage

4	<input type="checkbox"/> Well Drained
	<input checked="" type="checkbox"/> Moderately well drained
	<input type="checkbox"/> Somewhat poorly drained
	<input type="checkbox"/> Poorly or very poorly drained

notting @ 30"

Part 7 Accelerated Erosion

A. Amount of Erosion

2	<input checked="" type="checkbox"/> No erosion evident (less than 2 inches)
	<input type="checkbox"/> Deposition (2 inches or greater)
	<input type="checkbox"/> Erosion present (2 inches or greater)

B. Kind of Erosion

2	<input checked="" type="checkbox"/> None
	<input type="checkbox"/> Active gully
	<input type="checkbox"/> Wind erosion
	<input type="checkbox"/> Sheet or rill

Part 8 - Need for Erosion Control

A. Water Erosion

3	<input checked="" type="checkbox"/> None to slight
	<input type="checkbox"/> Crop cover, sod cover, and conservation tillage
	<input type="checkbox"/> Contour, strip crop and conservation tillage
	<input type="checkbox"/> Grass waterways and gully control
	<input type="checkbox"/> Woodland or permanent pasture
<input type="checkbox"/> Wildlife or recreation	

B. Wind Erosion

3	<input checked="" type="checkbox"/> None to slight
	<input type="checkbox"/> Mulch tillage, cover crop

Part 9 Drainage Required

5	<input checked="" type="checkbox"/> None required
	<input type="checkbox"/> Surface and/or tile

Part 10 - Fertilizer and Lime Recommendations

2	nitrogen pounds per acre	<i>30-2(5) = 20</i>
2	phosphorous pounds per acre	<i>50-2(9) = 32</i>
2	Potassium pounds per acre	<i>50</i>
2	Lime tons per acres	<i>6.0</i>

Part 11 - Land use Limitation (Points are for each section)

Use	3 Pts Each			1 Point Each				
	Limitation	% Slope	Surface Soil Texture	Flooding	Internal Drainage Class	Permeability Class	Depth to Bedrock (inches)	Underlying Material (Shrink Swell Potential)
9 Dwellings (lawns), foundations, basements	Slight	<input checked="" type="checkbox"/> 0 to 6.0	<input checked="" type="checkbox"/> medium, moderate, coarse	<input type="checkbox"/> None	<input checked="" type="checkbox"/> well drained, mod. well drained	<input type="checkbox"/>	<input checked="" type="checkbox"/> more than 60	<input checked="" type="checkbox"/> coarse, mod.coarse, medium
	Moderate	<input type="checkbox"/> 6.1 to 12.0	<input type="checkbox"/> coarse, fine, very fine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 40 to 60	<input type="checkbox"/> fine texture
	Severe	<input type="checkbox"/> More than 12.0	<input type="checkbox"/>	<input type="checkbox"/> Any flooding	<input type="checkbox"/> somewhat poorly to poorly drained	<input type="checkbox"/>	<input type="checkbox"/> less than 40	<input type="checkbox"/> very fine texture
8 Septic tank absorption fields	Slight	<input checked="" type="checkbox"/> 0 to 6.0	<input type="checkbox"/>	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well to mod well drained	<input checked="" type="checkbox"/> very rapid to rapid	<input checked="" type="checkbox"/> more than 60	<input type="checkbox"/>
	Moderate	<input type="checkbox"/> 6.1 to 12.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Moderate	<input type="checkbox"/> 40 to 60	<input type="checkbox"/>
	Severe	<input type="checkbox"/> More than 12.0	<input type="checkbox"/>	<input type="checkbox"/> Any flooding	<input type="checkbox"/> somewhat poorly to poorly drained	<input type="checkbox"/> slow to very slow	<input type="checkbox"/> less than 40	<input type="checkbox"/>
8 Farm lagoons and holding basins	Slight	<input checked="" type="checkbox"/> 0 - 2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well to mod well drained	<input type="checkbox"/> Slow	<input checked="" type="checkbox"/> more than 60	<input type="checkbox"/>
	Moderate	<input type="checkbox"/> 2.1 - 6.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> somewhat poorly drained	<input type="checkbox"/> Moderate	<input type="checkbox"/> 40 to 60	<input type="checkbox"/>
	Severe	<input type="checkbox"/> More than 6.0	<input type="checkbox"/>	<input type="checkbox"/> Any Flooding	<input type="checkbox"/> poorly drained	<input checked="" type="checkbox"/> Rapid to very rapid	<input type="checkbox"/> less than 40	<input type="checkbox"/>

Lime - 6.0 N - 50 #/ac P - 20 #/ac K - 50 #/ac or 40 #/ac

FALL 2017

FFA LAND JUDGING PLACARD - MINNESOTA - FFA

Pit Number (2) - PURPLE CARD

Lime Area 1 Flooding NONE

pH 6.0 SMP Buffer Index - Assumed Field Size 150 Acres

P Test 20 lb./acres available phosphorus

Subsoil Phosphorus Level LOW

K Test 80 lb./acres exchangeable potassium

Subsoil Potassium Level MEDIUM Manure Applied - Tons/Acre

Corn Yield Goal - bu./acres

Crop to be planted SOYBEANS

Past Crop SUGAR BEETS

Original Surface Soil Depth 15 inches

Slope Length 95 feet

Depth to permanent water table > 60 inches

* LAST HORIZON
CONTINUES TO
60 inches.

Minnesota FFA Soils Scorecard

2

Name **KEY**

School

Number

9/17

Part 1: Surface Soil -

A. Thickness in Inches

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2																		
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36>

Part 3 Parent Material - Continued

B. Texture

	<input type="checkbox"/> Coarse
	<input type="checkbox"/> Moderately Coarse
5	<input checked="" type="checkbox"/> Medium
	<input type="checkbox"/> Fine
	<input type="checkbox"/> Very Fine

Allow 1 inch either way on thickness

B. Color

	<input type="checkbox"/> Dark
4	<input checked="" type="checkbox"/> Medium
	<input type="checkbox"/> Light

C. Gravel

	<input checked="" type="checkbox"/> None to Few
	<input type="checkbox"/> Gravelly
2	<input type="checkbox"/> Very Gravelly
	<input type="checkbox"/> Extremely Gravelly

C. Texture

	<input type="checkbox"/> Coarse
	<input type="checkbox"/> Moderately Coarse
5	<input checked="" type="checkbox"/> Medium <i>sil</i>
	<input type="checkbox"/> Fine
	<input type="checkbox"/> Very Fine

Part 4 Topography

A. Steepness of Slope

	<input type="checkbox"/> Nearly level - 2% or less
	<input type="checkbox"/> Gently sloping - 3 - 6 %
3	<input checked="" type="checkbox"/> Moderately sloping - 7-12%
	<input type="checkbox"/> Strongly sloping - 13 to 18 %
	<input type="checkbox"/> Steep - Greater than 18 %

D. Gravel and Rock

	<input checked="" type="checkbox"/> None to Few
	<input type="checkbox"/> Gravelly
2	<input type="checkbox"/> Very Gravelly
	<input type="checkbox"/> Extremely Gravelly

B. Landscape Position

	<input checked="" type="checkbox"/> Upland
	<input type="checkbox"/> Terrace - Footslope
3	<input type="checkbox"/> Bottom land - Flood Plains
	<input type="checkbox"/> Depressional Area - No Outlet

Part 2: Subsurface Soil

A. Thickness in Inches

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2																		
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36>

Part 5 - Land Capability Classification

	<input checked="" type="checkbox"/> Class I	Land suitable for for Cultivated Crops	Score 6 points for correct answer - 3 points for 1 class off except for class 5. Allow 3 points between Class IV and VI.
	<input type="checkbox"/> Class II		
	<input type="checkbox"/> Class III		
6	<input checked="" type="checkbox"/> Class IV		
	<input type="checkbox"/> Class V	Land suitable for Permanent Vegetation	
	<input type="checkbox"/> Class VI		
	<input type="checkbox"/> Class VII		
	<input type="checkbox"/> Class VIII		

Allow 1 inch either way on thickness

B. Color

	<input checked="" type="checkbox"/> Bright
4	<input checked="" type="checkbox"/> Mottled
	<input type="checkbox"/> Dull

Part 6 Interpretation of Soil Features

A. Type of Material that Lim its Depth

	<input checked="" type="checkbox"/> None- No limiting materials
	<input type="checkbox"/> Bedrock - Soft or hard
2	<input type="checkbox"/> Hardpan - Cemented
	<input type="checkbox"/> Very gravelly sand or high water table

C. Texture

	<input type="checkbox"/> Coarse
	<input type="checkbox"/> Moderately Coarse
5	<input checked="" type="checkbox"/> Medium <i>sil</i>
	<input type="checkbox"/> Fine
	<input type="checkbox"/> Very Fine

B. Parent Material

	<input type="checkbox"/> Bedrock - Soft or hard
	<input type="checkbox"/> Alluvium /Outwash/Lacustrine
2	<input checked="" type="checkbox"/> Till/Loess/Aeolian Sand <i>both</i>
	<input type="checkbox"/> Organic materials - Peat or muck <i>hass full</i>

D. Gravel and Rock

	<input checked="" type="checkbox"/> None to Few
	<input type="checkbox"/> Gravelly
2	<input type="checkbox"/> Very Gravelly
	<input type="checkbox"/> Extremely Gravelly

C. Depth Favorable for Roots & Water Penetration

	<input checked="" type="checkbox"/> Very Deep - 60 inches or more
	<input type="checkbox"/> Deep - 40 through 59 inches
2	<input type="checkbox"/> Moderately Deep - 20 through 39 inches
	<input type="checkbox"/> Shallow - less than 20 inches

Part 3: Underlying Material

A. Thickness in Inches

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2																		
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36>

D. Air and Water Movement (Subsoil Permeability)

	<input type="checkbox"/> Very Rapid
	<input type="checkbox"/> Rapid
2	<input checked="" type="checkbox"/> Moderate
	<input type="checkbox"/> Slow

Allow 1 inch either way on thickness

$60 - 22 = 38$

E Total Available Water capacity

1. Available water in horizon per inch of soil

1	<input type="checkbox"/> 0.05	a. Surface Horizon	Calculation Area $.2 \times 13'' = 2.6$
	<input type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		
1	<input type="checkbox"/> 0.05	b. Subsoil	$.2 \times 9'' = 1.8$
	<input type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		
1	<input type="checkbox"/> 0.05	c. Underlying Material	$.2 \times 38'' = 7.6$
	<input type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		

2. Available Water Capacity per Horizon

a. Surface Horizon

1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
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b. Subsoil

1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
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c. Underlying Material

1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
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3. Total available water capacity in five feet of soil

Very low - Less than 3 inches

Low - 3.1 to 6.0 inches

Moderate - 6.1 to 9.0 inches

High - over 9.0 inches

4. Internal Drainage

Well Drained

Moderately well drained

Somewhat poorly drained

Poorly or very poorly drained

Part 7 Accelerated Erosion

A. Amount of Erosion

2 No erosion evident (less than 2 inches)

2 Deposition (2 inches or greater)

2 Erosion present (2 inches or greater)

B. Kind of Erosion

2 None

2 Active gully

2 Wind erosion

2 Sheet or rill

Part 8 - Need for Erosion Control

A. Water Erosion

3 None to slight

3 Crop cover, sod cover, and conservation tillage

3 Contour, strip crop and conservation tillage

3 Grass waterways and gully control

3 Woodland or permanent pasture

3 Wildlife or recreation

B. Wind Erosion

3 None to slight

3 Mulch tillage, cover crop

Part 9 Drainage Required

5 None required

5 Surface and/or tile

Part 10 - Fertilizer and Lime Recommendations

2	0	Nitrogen pounds per acre
2	60	Phosphorous pounds per acre
2	80	Potassium pounds per acre
2	20	Lime tons per acres

Either is correct

Part 11 - Land use Limitation (Points are for each section)

Use	3 Pts Each			1 Point Each				
	Limitation	% Slope	Surface Soil Texture	Flooding	Internal Drainage Class	Permeability Class	Depth to Bedrock (inches)	Underlying Material (Shrink Swell Potential)
Wellings (farms), foundations, basements	Slight	<input type="checkbox"/> 0 to 6.0	<input checked="" type="checkbox"/> medium, moderate, coarse	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well drained, mod. well drained		<input checked="" type="checkbox"/> more than 60	<input checked="" type="checkbox"/> coarse, mod.coarse, medium
	Moderate	<input checked="" type="checkbox"/> 6.1 to 12.0	<input type="checkbox"/> coarse, fine, very fine				<input type="checkbox"/> 40 to 60	<input type="checkbox"/> fine texture
	Severe	<input type="checkbox"/> More than 12.0		<input type="checkbox"/> Any flooding	<input type="checkbox"/> somewhat poorly to poorly drained		<input type="checkbox"/> less than 40	<input type="checkbox"/> very fine texture
8 Septic tank absorption fields	Slight	<input type="checkbox"/> 0 to 6.0		<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well to mod well drained	<input type="checkbox"/> very rapid to rapid	<input checked="" type="checkbox"/> more than 60	
	Moderate	<input checked="" type="checkbox"/> 6.1 to 12.0				<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> 40 to 60	
	Severe	<input type="checkbox"/> More than 12.0		<input type="checkbox"/> Any flooding	<input type="checkbox"/> somewhat poorly to poorly drained	<input type="checkbox"/> slow to very slow	<input type="checkbox"/> less than 40	
8 Farm lagoons and holding basins	Slight	<input checked="" type="checkbox"/> 0 - 2.0		<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well to mod well drained	<input type="checkbox"/> Slow	<input checked="" type="checkbox"/> more than 60	
	Moderate	<input type="checkbox"/> 2.1 - 6.0			<input type="checkbox"/> somewhat poorly drained	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> 40 to 60	
	Severe	<input type="checkbox"/> More than 6.0		<input type="checkbox"/> Any Flooding	<input type="checkbox"/> poorly drained	<input type="checkbox"/> Rapid to very rapid	<input type="checkbox"/> less than 40	

Correct

FALL 2017

FFA LAND JUDGING PLACARD - MINNESOTA - FFA

Pit Number 3 - BLUE CARD
Lime Area 1 Flooding NA
pH 6.2 SMP Buffer Index — Assumed Field Size 40 Acres
P Test 15 lb./acres available phosphorus
Subsoil Phosphorus Level Low
K Test 177 lb./acres exchangeable potassium
Subsoil Potassium Level MEDIUM Manure Applied — Tons/Acre
Corn Yield Goal 145 bu./acres
Crop to be planted Irrigated CORN
Past Crop Irrigated CORN
Original Surface Soil Depth 12 inches
Slope Length 40 feet
Depth to permanent water table >60 inches

* LAST HORIZON
CONTINUES TO
60 inches.

Minnesota FFA Soils Scorecard

Name **KEY**

School

Number

3

9/17

<p>Part 1: Surface Soil -</p> <p>A. Thickness in Inches</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">2</td> <td style="width: 15px;">1</td><td style="width: 15px;">2</td><td style="width: 15px;">3</td><td style="width: 15px;">4</td><td style="width: 15px;">5</td><td style="width: 15px;">6</td><td style="width: 15px;">7</td><td style="width: 15px;">8</td><td style="width: 15px;">9</td><td style="width: 15px;">10</td><td style="width: 15px;">11</td><td style="width: 15px;">12</td><td style="width: 15px;">13</td><td style="width: 15px;">14</td><td style="width: 15px;">15</td><td style="width: 15px;">16</td><td style="width: 15px;">17</td><td style="width: 15px;">18</td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="background-color: black;"></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> <p style="text-align: center; font-size: small;">Allow 1 inch either way on thickness</p> <p>B. Color</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">4</td> <td style="width: 15px;"><input type="checkbox"/></td> <td>Dark</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/></td> <td>Medium</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Light</td> </tr> </table> <p>C. Texture</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">5</td> <td style="width: 15px;"><input checked="" type="checkbox"/></td> <td>Coarse</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Moderately Coarse</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Medium</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Fine</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Very Fine</td> </tr> </table> <p style="font-size: 2em; margin-left: 100px;">ls</p> <p>D. Gravel and Rock</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">2</td> <td style="width: 15px;"><input checked="" type="checkbox"/></td> <td>None to Few</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Gravelly</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Very Gravelly</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Extremely Gravelly</td> </tr> </table>	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																						19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	>																					4	<input type="checkbox"/>	Dark		<input checked="" type="checkbox"/>	Medium		<input type="checkbox"/>	Light	5	<input checked="" type="checkbox"/>	Coarse		<input type="checkbox"/>	Moderately Coarse		<input type="checkbox"/>	Medium		<input type="checkbox"/>	Fine		<input type="checkbox"/>	Very Fine	2	<input checked="" type="checkbox"/>	None to Few		<input type="checkbox"/>	Gravelly		<input type="checkbox"/>	Very Gravelly		<input type="checkbox"/>	Extremely Gravelly	<p>Part 3 Parent Material - Continued</p> <p>B. Texture</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">5</td> <td style="width: 15px;"><input checked="" type="checkbox"/></td> <td>Coarse</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Moderately Coarse</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Medium</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Fine</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Very Fine</td> </tr> </table> <p style="font-size: 2em; margin-left: 100px;">S</p> <p>C. Gravel</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">2</td> <td style="width: 15px;"><input checked="" type="checkbox"/></td> <td>None to Few</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Gravelly</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Very Gravelly</td> </tr> <tr> <td></td> <td><input type="checkbox"/></td> <td>Extremely Gravelly</td> </tr> </table>	5	<input checked="" type="checkbox"/>	Coarse		<input type="checkbox"/>	Moderately Coarse		<input type="checkbox"/>	Medium		<input type="checkbox"/>	Fine		<input type="checkbox"/>	Very Fine	2	<input checked="" type="checkbox"/>	None to Few		<input type="checkbox"/>	Gravelly		<input type="checkbox"/>	Very Gravelly		<input type="checkbox"/>	Extremely Gravelly
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60-39 = 21"

E. Total Available Water capacity
1. Available water in horizon per inch of soil

1	<input checked="" type="checkbox"/> 0.05	a. Surface Horizon	Calculation Area 10" x .05 = .5 29" x .05 = 1.45 21" x .05 = 1.05
	<input checked="" type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		
1	<input checked="" type="checkbox"/> 0.05	b. Subsoil	
	<input checked="" type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		
1	<input checked="" type="checkbox"/> 0.05	c. Underlying Material	
	<input checked="" type="checkbox"/> 0.15		
	<input checked="" type="checkbox"/> 0.20		

2. Available Water Capacity per Horizon

a. Surface Horizon

1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

b. Subsoil

1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

c. Underlying Material

1	0-1.0	1.1-2.0	2.1-3.0	3.1-4.0	4.1-5.0	5.1-6.0	6.1-7.0	7.1-8.0	8.1->
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

3. Total available water capacity in five feet of soil

4	<input checked="" type="checkbox"/> Very low - Less than 3 inches
	<input checked="" type="checkbox"/> Low - 3.1 to 6.0 inches
	<input checked="" type="checkbox"/> Moderate - 6.1 to 9.0 inches
	<input checked="" type="checkbox"/> High - over 9.0 inches

4. Internal Drainage

4	<input checked="" type="checkbox"/> Well Drained
	<input checked="" type="checkbox"/> Moderately well drained
	<input checked="" type="checkbox"/> Somewhat poorly drained
	<input checked="" type="checkbox"/> Poorly or very poorly drained

Part 7 Accelerated Erosion
A. Amount of Erosion

2	<input type="checkbox"/> No erosion evident (less than 2 inches)
	<input type="checkbox"/> Deposition (2 inches or greater)
	<input checked="" type="checkbox"/> Erosion present (2 inches or greater)

B. Kind of Erosion

2	<input type="checkbox"/> None
	<input type="checkbox"/> Active gully
	<input checked="" type="checkbox"/> Wind erosion
	<input type="checkbox"/> Sheet or rill

Part 8 - Need for Erosion Control
A. Water Erosion

3	<input checked="" type="checkbox"/> None to slight
	<input type="checkbox"/> Crop cover, sod cover, and conservation tillage
	<input type="checkbox"/> Contour, strip crop and conservation tillage
	<input type="checkbox"/> Grass waterways and gully control
	<input type="checkbox"/> Woodland or permanent pasture
	<input type="checkbox"/> Wildlife or recreation

B. Wind Erosion

3	<input checked="" type="checkbox"/> None to slight
	<input checked="" type="checkbox"/> Mulch tillage, cover crop

Part 9 Drainage Required

5	<input checked="" type="checkbox"/> None required
	<input type="checkbox"/> Surface and/or tile

Part 10 - Fertilizer and Lime Recommendations

2	200	Nitrogen pounds per acre - irrigated
2	80	Phosphorous pounds per acre
2	40	Potassium pounds per acre
2	0/2	Lime tons per acres <i>Either is OK</i>

Part 11 - Land use Limitation (Points are for each section)

Section	Use	3 Pts Each			1 Point Each				
		Limitation	% Slope	Surface Soil Texture	Flooding	Internal Drainage Class	Permeability Class	Depth to Bedrock (inches)	Underlying Material (Shrink Swell Potential)
9	Dwellings (lawns), foundations, basements	Slight	<input checked="" type="checkbox"/> 0 to 6.0	<input type="checkbox"/> medium, moderate, coarse	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well drained, mod. well drained		<input checked="" type="checkbox"/> more than 60	<input checked="" type="checkbox"/> coarse, mod. coarse, medium
		Moderate	<input type="checkbox"/> 6.1 to 12.0	<input checked="" type="checkbox"/> coarse, fine, very fine				<input type="checkbox"/> 40 to 60	<input type="checkbox"/> fine texture
		Severe	<input type="checkbox"/> More than 12.0		<input type="checkbox"/> Any flooding	<input type="checkbox"/> somewhat poorly to poorly drained		<input type="checkbox"/> less than 40	<input type="checkbox"/> very fine texture
8	Septic tank absorption fields	Slight	<input checked="" type="checkbox"/> 0 to 6.0		<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well to mod well drained	<input checked="" type="checkbox"/> very rapid to rapid	<input checked="" type="checkbox"/> more than 60	
		Moderate	<input type="checkbox"/> 6.1 to 12.0				<input type="checkbox"/> Moderate	<input type="checkbox"/> 40 to 60	
		Severe	<input type="checkbox"/> More than 12.0		<input type="checkbox"/> Any flooding	<input type="checkbox"/> somewhat poorly to poorly drained	<input type="checkbox"/> slow to very slow	<input type="checkbox"/> less than 40	
8	Farm lagoons and holding basins	Slight	<input checked="" type="checkbox"/> 0 - 2.0		<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> well to mod well drained	<input type="checkbox"/> Slow	<input checked="" type="checkbox"/> more than 60	
		Moderate	<input type="checkbox"/> 2.1 - 6.0			<input type="checkbox"/> somewhat poorly drained	<input type="checkbox"/> Moderate	<input type="checkbox"/> 40 to 60	
		Severe	<input type="checkbox"/> More than 6.0		<input type="checkbox"/> Any Flooding	<input type="checkbox"/> poorly drained	<input checked="" type="checkbox"/> Rapid to very rapid	<input type="checkbox"/> less than 40	