

**2018 INVITATIONAL LAND EVALUATION  
CAREER DEVELOPMENT EVENT  
TARLETON STATE UNIVERSITY  
ADDITIONAL INFORMATION**

**FIELD 1**

- pH is 6.0
- Nitrogen is deficient
- Phosphorous soil test is 25 lbs./acre
- Potassium soil test is 125 lbs./acre
- Thickness of the original topsoil was 7 inches
- Size of the field is 50 acres
- Consider most intensive use of land for treatment purposes
- Do not consider present mechanical practices on the field
- Other conditions and instructions: between red ribbons is official depths; don't pick, or touch soil between ribbons. Judge depth to bottom of excavation.

**FIELD 2**

- Thickness of the original topsoil was 22 inches
- Size of the field is 60 acres
- Consider most intensive use of the land for treatment purposes
- Do not consider present mechanical practices on the field
- Other conditions and instructions: between red ribbons is official depths; don't pick, or touch soil between ribbons. Judge depth to bottom of excavation.

**FIELD 3**

- pH is 7.3
- Nitrogen is deficient
- Phosphorous soil test is 18 lbs./acre
- Potassium soil test is 90 lbs./acre
- Thickness of the original topsoil was 8 inches
- Size if the field is 25 acres
- Consider most intensive use of land for treatment purposes
- Do not consider present mechanical practices on the field
- Other conditions and instructions: between red ribbons is official depths; don't pick, or touch soil between ribbons. Judge depth to bottom of excavation.

**FIELD 4**

- pH is 7.2
- Nitrogen is deficient
- Phosphorous soil test is 64 lbs./acre
- Potassium soil test is 375 lbs./acre
- Thickness of the original topsoil was 8 inches
- Size of the field is 70 acres
- Consider most intensive use of land for treatment purposes
- Do not consider present mechanical practices on the field
- Other conditions and instructions: between red ribbons is official depths; don't pick, or touch soil between ribbons. Judge depth to bottom of excavation.

# Land Form #601TX-3

Team #
0 0 0 0
1 1 1 1
2 2 2 2
3 3 3 3
4 4 4 4
5 5 5 5
6 6 6 6
7 7 7 7
8 8 8 8
9 9 9 9

Code
0 0
1 1
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4 4
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6 6
7 7
8 8
9 9

	Last Name	First Name
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1	A A A A A A A A A A A A	A A A A A A A A A A
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5	E E E E E E E E E E E E	E E E E E E E E E E
6	F F F F F F F F F F F F	F F F F F F F F F F
7	G G G G G G G G G G G G	G G G G G G G G G G
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9	I I I I I I I I I I I I	I I I I I I I I I I
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	N N N N N N N N N N N N	N N N N N N N N N N
	O O O O O O O O O O O O	O O O O O O O O O O
	P P P P P P P P P P P P	P P P P P P P P P P
	Q Q Q Q Q Q Q Q Q Q Q Q	Q Q Q Q Q Q Q Q Q Q
	R R R R R R R R R R R R	R R R R R R R R R R
	S S S S S S S S S S S S	S S S S S S S S S S
	T T T T T T T T T T T T	T T T T T T T T T T
	U U U U U U U U U U U U	U U U U U U U U U U
	V V V V V V V V V V V V	V V V V V V V V V V
	W W W W W W W W W W W W	W W W W W W W W W W
	X X X X X X X X X X X X	X X X X X X X X X X
	Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y Y Y Y Y
	Z Z Z Z Z Z Z Z Z Z Z Z	Z Z Z Z Z Z Z Z Z Z

Team Name / Additional Info

Part I	<b>SURFACE TEXTURE</b>	1	2	3	4	One answer per site!
	1 Coarse	1	2	3	4	
	2 Moderately Coarse	1	2	3	4	
	3 Medium	1	2	3	4	
	4 Moderately Fine	1	2	3	4	
	5 Fine	1	2	3	4	
	<b>SUBSURFACE TEXTURE</b>	1	2	3	4	One answer per site!
	1 Coarse	1	2	3	4	
	2 Moderately Coarse	1	2	3	4	
	3 Medium	1	2	3	4	
	4 Moderately Fine	1	2	3	4	
	5 Fine	1	2	3	4	
	<b>DEPTH OF SOIL</b>	1	2	3	4	One answer per site!
	1 Deep	1	2	3	4	
	2 Moderately Deep	1	2	3	4	
	3 Shallow	1	2	3	4	
	4 Very Shallow	1	2	3	4	
	<b>SLOPE</b>	1	2	3	4	One answer per site!
	1 Nearly Level	1	2	3	4	
	2 Gently Sloping	1	2	3	4	
3 Moderately Sloping	1	2	3	4		
4 Strong Sloping	1	2	3	4		
5 Steep	1	2	3	4		
6 Very Steep	1	2	3	4		
<b>EROSION - WIND &amp; WATER</b>	1	2	3	4	One answer per site!	
1 None to Slight	1	2	3	4		
2 Moderate	1	2	3	4		
3 Severe	1	2	3	4		
4 Very Severe	1	2	3	4		
<b>PERMEABILITY</b>	1	2	3	4	One answer per site!	
1 Rapid	1	2	3	4		
2 Moderate	1	2	3	4		
3 Slow	1	2	3	4		
4 Very Slow	1	2	3	4		
<b>SURFACE RUNOFF</b>	1	2	3	4	One answer per site!	
1 Rapid	1	2	3	4		
2 Moderate	1	2	3	4		
3 Slow	1	2	3	4		
4 Very Slow	1	2	3	4		

Part II	<b>VEGETATIVE LAND TREATMENTS</b>	1	2	3	4	Answer all factors all sites - 25 marks per site!
	1 Row crop/occasional soil conserving crop	Y N	Y N	Y N	Y N	
	2 Row crop/frequent soil conserving crop	Y N	Y N	Y N	Y N	
	3 Row crops not more than 2 out of 4 years	Y N	Y N	Y N	Y N	
	4 Row crops not more than 1 out of 5 years	Y N	Y N	Y N	Y N	
	5 Return crop residue to the soil	Y N	Y N	Y N	Y N	
	6 Practice conservation tillage	Y N	Y N	Y N	Y N	
	7 Establish recommended grass or grasses and legumes	Y N	Y N	Y N	Y N	
	8 Proper pasture and range management	Y N	Y N	Y N	Y N	
	9 Protect from burning	Y N	Y N	Y N	Y N	
	10 Control grazing	Y N	Y N	Y N	Y N	
	11 Plant recommended trees	Y N	Y N	Y N	Y N	
	12 Harvest trees selectively	Y N	Y N	Y N	Y N	
13 Use only for wildlife or recreation area	Y N	Y N	Y N	Y N		
<b>MECHANICAL LAND TREATMENTS</b>	1	2	3	4		
14 Control brush or trees	Y N	Y N	Y N	Y N		
15 Terrace and farm on contour	Y N	Y N	Y N	Y N		
16 Maintain terraces	Y N	Y N	Y N	Y N		
17 Construct diversion terraces	Y N	Y N	Y N	Y N		
18 Install drainage system	Y N	Y N	Y N	Y N		
19 Control gullies	Y N	Y N	Y N	Y N		
20 No mechanical treatment needed	Y N	Y N	Y N	Y N		
<b>FERTILIZER &amp; SOIL AMENDMENTS</b>	1	2	3	4		
21 Soil amendments	Y N	Y N	Y N	Y N		
22 Phosphorus (P)	Y N	Y N	Y N	Y N		
23 Potassium (K)	Y N	Y N	Y N	Y N		
24 Nitrogen (N)	Y N	Y N	Y N	Y N		
25 No fertilizer or soil amendments	Y N	Y N	Y N	Y N		

Part I (continued)	<b>MAJOR FACTORS</b>	1	2	3	4	Answer all factors all sites - 8 marks per site!
	1 Texture	Y N	Y N	Y N	Y N	
	2 Depth	Y N	Y N	Y N	Y N	
	3 Slope	Y N	Y N	Y N	Y N	
	4 Erosion	Y N	Y N	Y N	Y N	
	5 Permeability	Y N	Y N	Y N	Y N	
	6 Runoff	Y N	Y N	Y N	Y N	
	7 Wetness	Y N	Y N	Y N	Y N	
8 Flooding	Y N	Y N	Y N	Y N		
<b>CAPABILITY CLASS</b>	1	2	3	4	One answer per site!	
1 Class I	I	I	I	I		
2 Class II	II	II	II	II		
3 Class III	III	III	III	III		
4 Class IV	IV	IV	IV	IV		
5 Class V	V	V	V	V		
6 Class VI	VI	VI	VI	VI		
7 Class VII	VII	VII	VII	VII		
8 Class VIII	VIII	VIII	VIII	VIII		