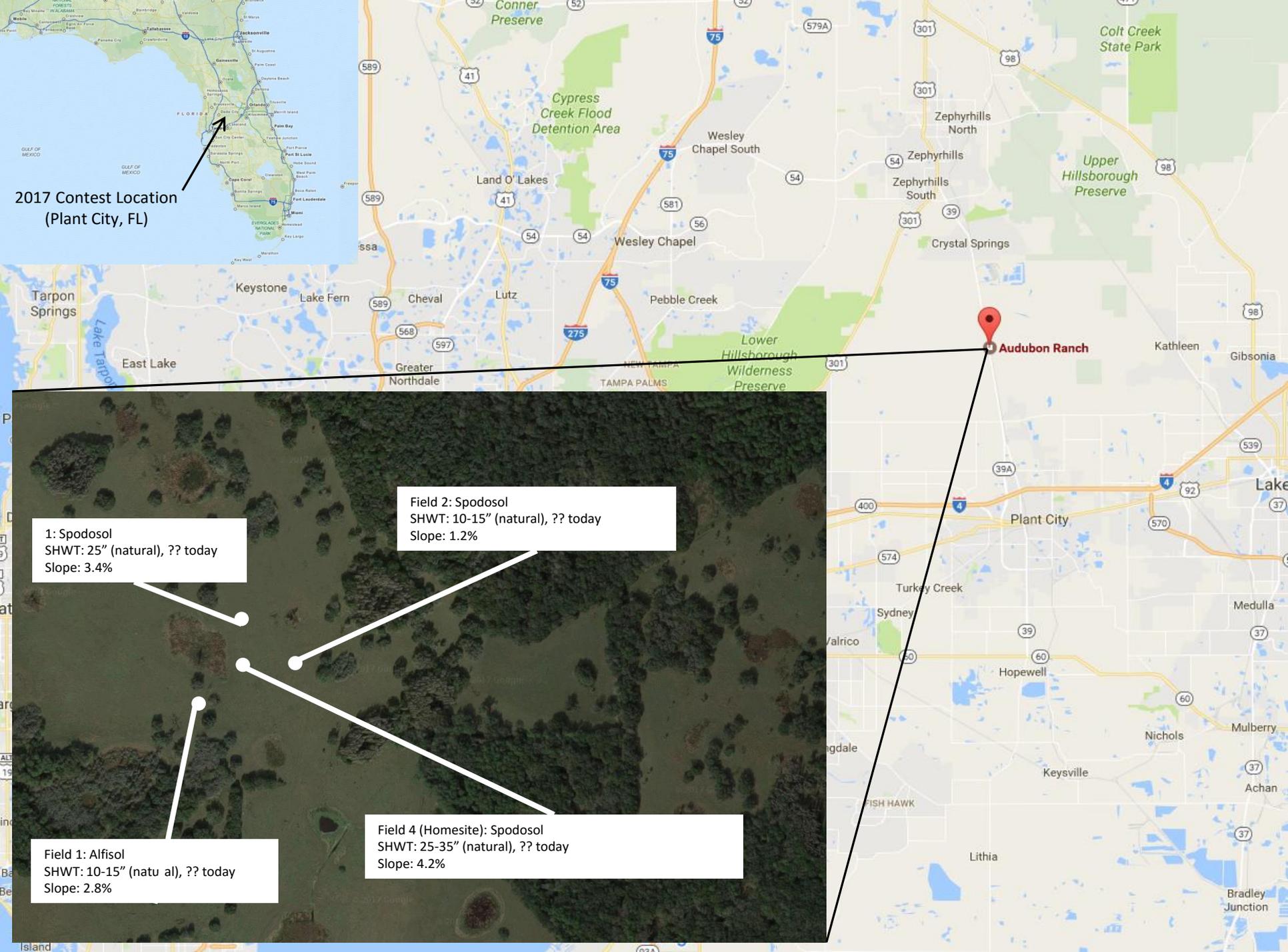


58th Annual Florida Land Judging Contest



Hillsborough County
Soil and Water Conservation District

March 23, 2017



FIELD

I

CONDITIONS OF FIELD

FIELD NO. 1

1. THICKNESS OF SURFACE SOIL
WAS: 10 inches

2. OTHER CONDITIONS ARE:

Today the topsoil thickness is 10 inches
Water table is at 15 inches.
Top soil base saturation is 30%
Subsoil base saturation is 40%

3. PAY NO ATTENTION TO CURRENT
PRACTICES ON THIS FIELD.

4. CONSIDER THE MOST INTENSIVE
USE OF THE LAND.

5. THE CROP ~~WILL NOT~~ BENEFIT FROM
REDUCTION OF SOIL ACIDITY.

6. P SOIL TEST IS RATED AS: High

7. K SOIL TEST IS RATED AS: High

8. THE FOLLOWING NUTRIENTS WILL
BE DEFICIENT:

Topsoil Erosion:

None. The existing topsoil was 8-12" thick and very difficult to discern.

Rather than make the students guess at the topsoil thickness, we gave both the existing and historic topsoil so that erosion calculations were fair.

Rise = 2.8'

Slope = 2.8%

Run = 100'

Field 1:



Field 1: Poorly drained Alfisol, 2.8% Slope

This soil is mapped as a poorly drained Alfisol. The historic wet season water table was estimated to be 10-15 inches, however no contemporary indicators were present. The argillic (Btg) was cracked and all redox features (depletions and concentrations) appeared relict. The contemporary wet season water table was estimated to be 10-50+ inches.



0-12"

A

Sand (10YR 2/1)

12-16"

E

Sand (10YR 6/2)

16-25"

Bw

Sand (10YR 5/4)

Nodules of iron and apatite

25-50+"

Btg

Sandy clay (10YR 5/2)

Soil cracks within 24 hrs of exposure, likely shrink swell clays

Historic SHWT 15"

Historically the wet season water table was this shallow. It is possible that with several consecutive years of normal rainfall, the wet season water table could be this shallow again. More than likely, the wet season water table will remain much deeper in the soil.



Land Judging Scorecard

Form #2013-003

LAND CHARACTERISTIC - PART 1			
	FIELD 1	FIELD 2	FIELD 3
SURFACE TEXTURE			
Sandy	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loamy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clayey	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ORGANIC MATTER (SURFACE)			
	1	2	3
High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
THICKNESS OF ROOTING ZONE			
	1	2	3
Thin	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very Thick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PERMEABILITY			
	1	2	3
Rapid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Slow	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
SLOPE			
	1	2	3
A. Nearly level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. Gently sloping	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. Moderately sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. Strongly sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. Steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. Very steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EROSION - WIND & WATER			
	1	2	3
None to slight	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DRAINAGE			
	1	2	3
Poor	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Somewhat poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderately well or well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Event _____

Chapter _____

Name _____

ID Number _____

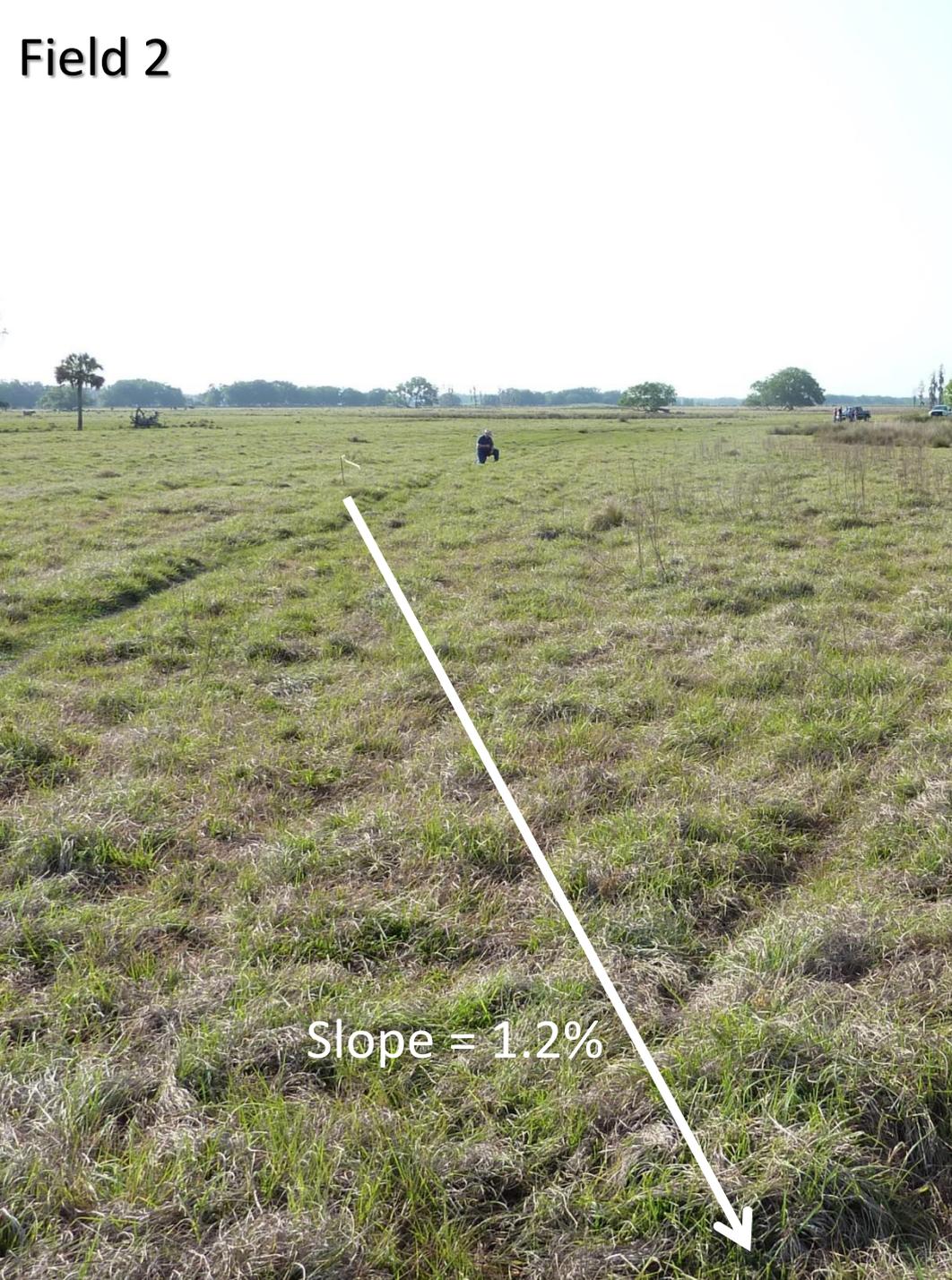
FACTORS DETERMINING LAND CLASS			
	1	2	3
Texture	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organic Matter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thickness of Rooting Zone	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Permeability	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Slope	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Erosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drainage	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
LAND CAPABILITY CLASS			
	1	2	3
Class I	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class II	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class III	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class IV	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class V	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VIII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SOIL ORDER			
	1	2	3
Alfisol	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aridisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Entisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Histosol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inceptisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mollisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oxisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spodosol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ultisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vertisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

CONSERVATION PRACTICES - PART 2			
	FIELD 1	FIELD 2	FIELD 3
VEGETATIVE			
Use soil conserving and improving crops:			
1. Every year between cash crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Every other year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Two years out of three	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Three years out of four	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Contour strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Manage crop residue	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Use sod-based rotation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Wind strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Use field windbreaks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Control noxious plants	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Establish recommended grasses and/or legumes	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Manage pasture or range properly	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Protect from wildfire	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Plant recommended trees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Harvest trees selectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Use for wildlife or recreational area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MECHANICAL			
	1	2	3
18. Terrace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Farm on the contour	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. Maintain terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Construct diversion terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Develop waterways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. Install water control system	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
24. Control gullies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Subsoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FERTILIZER AND SOIL AMENDMENTS			
	1	2	3
27. Lime	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28. Nitrogen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29. Phosphorus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30. Potassium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
31. One micronutrient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32. Two or more micronutrients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

FIELD

2

Field 2



Slope = 1.2%

CONDITIONS OF FIELD
FIELD NO. 2

- 1. THICKNESS OF SURFACE SOIL WAS:** 9 inches
- 2. OTHER CONDITIONS ARE:**
Today the topsoil thickness is 9 inches.
Water table is at 15 inches
Subsoil base saturation is 50%
- 3. PAY NO ATTENTION TO CURRENT PRACTICES ON THIS FIELD.**
- 4. CONSIDER THE MOST INTENSIVE USE OF THE LAND.**
- 5. THE CROP** *will not* **BENEFIT FROM REDUCTION OF SOIL ACIDITY.**
- 6. P SOIL TEST IS RATED AS:** *Medium*
- 7. K SOIL TEST IS RATED AS:** *Medium*
- 8. THE FOLLOWING NUTRIENTS WILL BE DEFICIENT:** *Mn, N*

Field 2



Field 2: Poorly drained Spodosol, 1.2% Slope

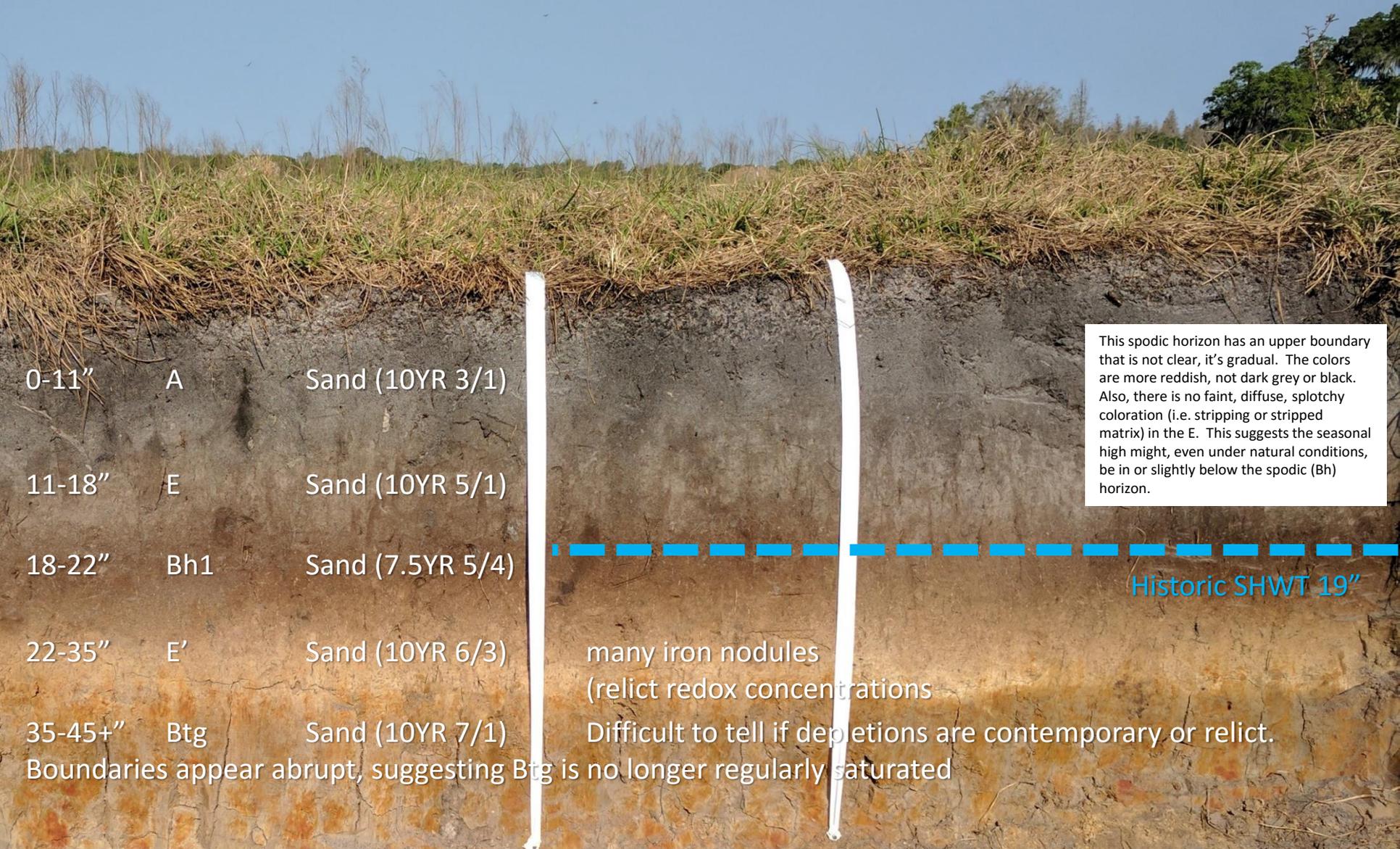
0-11"	A	Sand (10YR 3/1)
11-18"	E	Sand (10YR 5/1)
18-22"	Bh1	Sand (7.5YR 5/4)
22-35"	E'	Sand (10YR 6/3)
35-45+"	Btg	Sand (10YR 7/1)

Boundaries appear abrupt, suggesting Btg is no longer regularly saturated

many iron nodules
(relict redox concentrations)
Difficult to tell if depletions are contemporary or relict.

This spodic horizon has an upper boundary that is not clear, it's gradual. The colors are more reddish, not dark grey or black. Also, there is no faint, diffuse, splotchy coloration (i.e. stripping or stripped matrix) in the E. This suggests the seasonal high might, even under natural conditions, be in or slightly below the spodic (Bh) horizon.

Historic SHWT 19"



Field 2



Land Judging Scorecard Form #2013-003

LAND CHARACTERISTIC - PART 1			
	FIELD 1	FIELD 2	FIELD 3
SURFACE TEXTURE			
Sandy	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Loamy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clayey	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ORGANIC MATTER (SURFACE)			
	1	2	3
High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
THICKNESS OF ROOTING ZONE			
	1	2	3
Thin	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Thick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very Thick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PERMEABILITY			
	1	2	3
Rapid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Slow	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
SLOPE			
	1	2	3
A. Nearly level	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
B. Gently sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. Moderately sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. Strongly sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. Steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. Very steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EROSION - WIND & WATER			
	1	2	3
None to slight	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DRAINAGE			
	1	2	3
Poor	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Somewhat poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderately well or well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Event _____

Chapter _____

Name _____

ID Number _____

FACTORS DETERMINING LAND CLASS			
	1	2	3
Texture	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Organic Matter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thickness of Rooting Zone	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Permeability	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Slope	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Erosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drainage	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

LAND CAPABILITY CLASS			
	1	2	3
Class I	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class II	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class III	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class IV	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Class V	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VIII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

SOIL ORDER			
	1	2	3
Alfisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aridisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Entisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Histosol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inceptisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mollisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oxisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spodosol	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Ultisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vertisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

CONSERVATION PRACTICES - PART 2			
	FIELD 1	FIELD 2	FIELD 3
VEGETATIVE			
Use soil conserving and improving crops:			
1. Every year between cash crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Every other year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Two years out of three	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Three years out of four	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
5. Contour strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Manage crop residue	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
7. Use sod-based rotation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
8. Wind strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Use field windbreaks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Control noxious plants	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
11. Establish recommended grasses and/or legumes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Manage pasture or range properly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Protect from wildfire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Plant recommended trees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Harvest trees selectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Use for wildlife or recreational area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MECHANICAL			
	1	2	3
18. Terrace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Farm on the contour	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. Maintain terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Construct diversion terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Develop waterways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. Install water control system	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
24. Control gullies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Subsoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FERTILIZER AND SOIL AMENDMENTS			
	1	2	3
27. Lime	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28. Nitrogen	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
29. Phosphorus	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
30. Potassium	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
31. One micronutrient	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
32. Two or more micronutrients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

FIELD

3

Field 3

Slope = 3.4%

Topsoil Erosion:

12" original – 8" existing = 4" loss
4/12 = 33% erosion (moderate)

CONDITIONS OF FIELD

FIELD NO. 3

—

- 1. THICKNESS OF SURFACE SOIL WAS:** 12 inches
- 2. OTHER CONDITIONS ARE:**
Today the topsoil thickness is 8 inches
Water table is at 30 inches
Subsoil base saturation is 20%
- 3. PAY NO ATTENTION TO CURRENT PRACTICES ON THIS FIELD.**
- 4. CONSIDER THE MOST INTENSIVE USE OF THE LAND.**
- 5. THE CROP** will **BENEFIT FROM REDUCTION OF SOIL ACIDITY.**
- 6. P SOIL TEST IS RATED AS:** Low
- 7. K SOIL TEST IS RATED AS:** Medium
- 8. THE FOLLOWING NUTRIENTS WILL BE DEFICIENT:** N

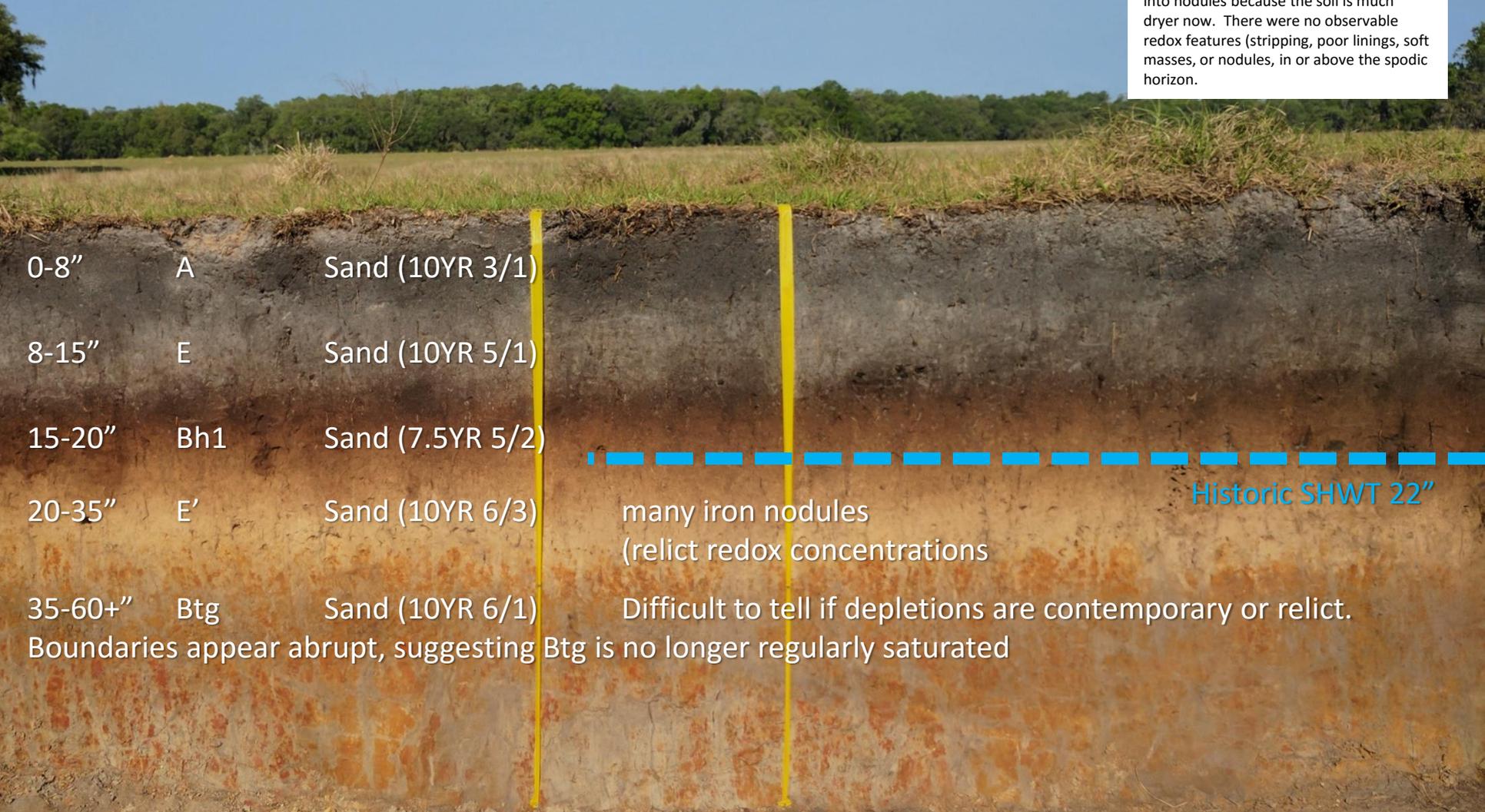


Field 3



Field 3: Somewhat Poorly drained Spodosol, 3.2% Slope

Although this was a better expressed spodic, the historic water table was estimated to be in or just slightly below the spodic. This soil was historically a poorly to somewhat poorly drained soil. Many iron nodules were observed in the E' above the Btg, suggesting that soft mass redox concentrations have been hardened into nodules because the soil is much dryer now. There were no observable redox features (stripping, poor linings, soft masses, or nodules, in or above the spodic horizon.



0-8" A Sand (10YR 3/1)

8-15" E Sand (10YR 5/1)

15-20" Bh1 Sand (7.5YR 5/2)

20-35" E' Sand (10YR 6/3)

35-60+" Btg Sand (10YR 6/1)

many iron nodules
(relict redox concentrations)

Difficult to tell if depletions are contemporary or relict.

Boundaries appear abrupt, suggesting Btg is no longer regularly saturated

Historic SHWT 22"

Field 3



Land Judging Scorecard Form #2013-003

LAND CHARACTERISTIC - PART 1			
	FIELD 1	FIELD 2	FIELD 3
SURFACE TEXTURE			
Sandy	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Loamy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clayey	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ORGANIC MATTER (SURFACE)			
	1	2	3
High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
THICKNESS OF ROOTING ZONE			
	1	2	3
Thin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thick	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Very Thick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PERMEABILITY			
	1	2	3
Rapid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Slow	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
SLOPE			
	1	2	3
A. Nearly level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. Gently sloping	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
C. Moderately sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. Strongly sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. Steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. Very steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EROSION - WIND & WATER			
	1	2	3
None to slight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DRAINAGE			
	1	2	3
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Somewhat poor	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Moderately well or well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Event _____

Chapter _____

Name _____

ID Number _____

FACTORS DETERMINING LAND CLASS			
	1	2	3
Texture	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Organic Matter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thickness of Rooting Zone	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Permeability	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Slope	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Erosion	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Drainage	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

LAND CAPABILITY CLASS			
	1	2	3
Class I	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class II	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class III	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Class IV	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class V	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VIII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

SOIL ORDER			
	1	2	3
Alfisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aridisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Entisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Histosol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inceptisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mollisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oxisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spodosol	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Ultisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vertisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

CONSERVATION PRACTICES - PART 2			
	FIELD 1	FIELD 2	FIELD 3
VEGETATIVE			
Use soil conserving and improving crops:			
1. Every year between cash crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Every other year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Two years out of three	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
4. Three years out of four	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Contour strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Manage crop residue	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
7. Use sod-based rotation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Wind strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Use field windbreaks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Control noxious plants	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
11. Establish recommended grasses and/or legumes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Manage pasture or range properly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Protect from wildfire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Plant recommended trees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Harvest trees selectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Use for wildlife or recreational area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MECHANICAL			
	1	2	3
18. Terrace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Farm on the contour	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
20. Maintain terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Construct diversion terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Develop waterways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. Install water control system	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
24. Control gullies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Subsoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FERTILIZER AND SOIL AMENDMENTS			
	1	2	3
27. Lime	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
28. Nitrogen	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
29. Phosphorus	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
30. Potassium	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
31. One micronutrient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32. Two or more micronutrients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**FIELD
4**

SUB S

Field 4 (Homesite)

CONDITIONS OF FIELD

FIELD NO. 4

1. THICKNESS OF SURFACE SOIL WAS: 15 inches

2. OTHER CONDITIONS ARE:
Today the top soil thickness is 10 inches.
Soil does not flood.
Water table is at 35 inches.
Subsoil is kaolinite and smectite (moderate shrink-swell)

Topsoil Erosion:

15" original - 10" existing = 5" lost
5/15 = 33% (moderate erosion)

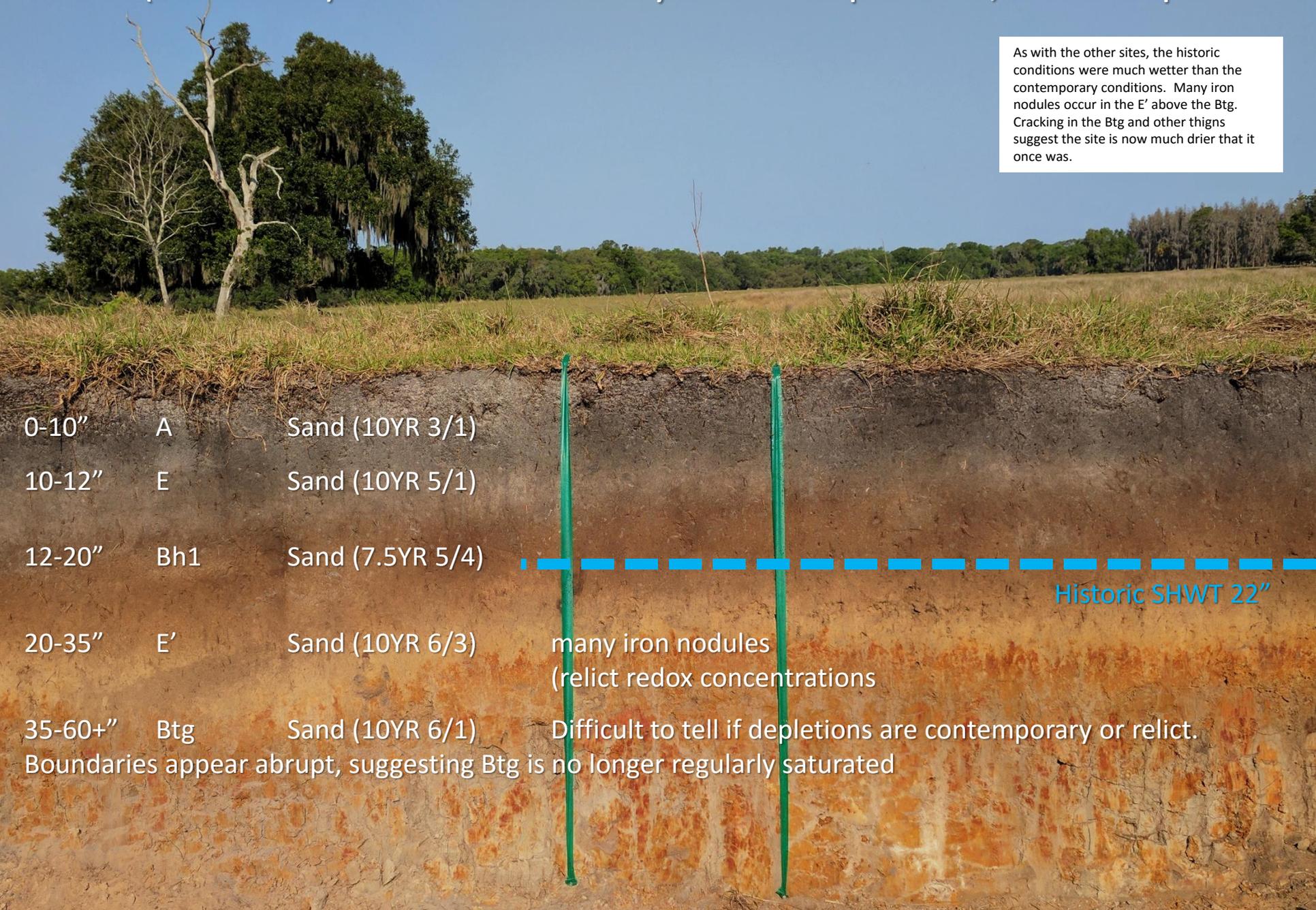


Field 4 (Homesite): Somewhat Poorly drained Spodosol, 4.2% Slope



Field 4 (Homesite): Somewhat Poorly drained Spodosol, 4.2% Slope

As with the other sites, the historic conditions were much wetter than the contemporary conditions. Many iron nodules occur in the E' above the Btg. Cracking in the Btg and other thigns suggest the site is now much drier that it once was.



0-10" A Sand (10YR 3/1)

10-12" E Sand (10YR 5/1)

12-20" Bh1 Sand (7.5YR 5/4)

20-35" E' Sand (10YR 6/3) many iron nodules (relict redox concentrations)

35-60+ Btg Sand (10YR 6/1) Difficult to tell if depletions are contemporary or relict. Boundaries appear abrupt, suggesting Btg is no longer regularly saturated

Historic SHWT 22"

Field 4



Homesite Evaluation Form #2013-003

CHARACTERISTIC - PART 1		PLANNED USE - PART 2			
		FOUNDATIONS	LAWNS, SHRUBS, GARDENS	SEPTIC SYSTEMS	
SURFACE TEXTURE		DEGREE OF LIMITATION			
Sandy	<input checked="" type="radio"/>	Slight	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loamy	<input type="radio"/>	Moderate	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clayey	<input type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organic	<input type="radio"/>	Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PERMEABILITY		DEGREE OF LIMITATION			
Rapid	<input type="radio"/>	Slight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	Moderate	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Slow	<input checked="" type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DEPTH		DEGREE OF LIMITATION			
Shallow	<input type="radio"/>	Slight	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Moderately deep	<input type="radio"/>	Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deep	<input checked="" type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SLOPE		DEGREE OF LIMITATION			
Nearly level	<input type="radio"/>	Slight	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Gently sloping	<input checked="" type="radio"/>	Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderately sloping	<input type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Strongly sloping	<input type="radio"/>	Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Steep	<input type="radio"/>				
Very steep	<input type="radio"/>				
EROSION		DEGREE OF LIMITATION			
None to slight	<input type="radio"/>	Slight	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Moderate	<input checked="" type="radio"/>	Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Severe	<input type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very severe	<input type="radio"/>	Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SHRINK-SWELL		DEGREE OF LIMITATION			
Low	<input type="radio"/>	Slight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input checked="" type="radio"/>	Moderate	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
High	<input type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DRAINAGE		DEGREE OF LIMITATION			
Poor	<input type="radio"/>	Slight	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Somewhat poor	<input checked="" type="radio"/>	Moderate	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Moderately well or well	<input type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Excessive	<input type="radio"/>	Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FLOODING		DEGREE OF LIMITATION			
None	<input checked="" type="radio"/>	Slight	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Occasional	<input type="radio"/>	Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frequent	<input type="radio"/>	Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Field 1
* 1101001*

Field 2
* 1101001*

Field 3
* 1101001*

Homesite
* 1101001*

Calculation Area

FINAL EVALUATION			
	FOUNDATIONS	LAWNS, SHRUBS, GARDENS	SEPTIC SYSTEMS
Slight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Severe	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Very Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Complete Answer Key (front side, Fields 1-3)



Land Judging Scorecard Form #2013-003

LAND CHARACTERISTIC - PART 1			
	FIELD 1	FIELD 2	FIELD 3
SURFACE TEXTURE			
Sandy	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Loamy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clayey	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ORGANIC MATTER (SURFACE)			
	1	2	3
High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Low	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
THICKNESS OF ROOTING ZONE			
	1	2	3
Thin	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Thick	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Very Thick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PERMEABILITY			
	1	2	3
Rapid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Slow	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
SLOPE			
	1	2	3
A. Nearly level	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
B. Gently sloping	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
C. Moderately sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. Strongly sloping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. Steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. Very steep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EROSION - WIND & WATER			
	1	2	3
None to slight	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Moderate	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Very severe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DRAINAGE			
	1	2	3
Poor	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Somewhat poor	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Moderately well or well	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Event _____

Chapter _____

Name _____

ID Number _____

FACTORS DETERMINING LAND CLASS			
	1	2	3
Texture	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Organic Matter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thickness of Rooting Zone	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Permeability	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Slope	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Erosion	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Drainage	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

LAND CAPABILITY CLASS			
	1	2	3
Class I	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class II	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class III	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Class IV	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Class V	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Class VIII	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

SOIL ORDER			
	1	2	3
Alfisol	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aridisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Entisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Histosol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inceptisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mollisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oxisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spodosol	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Ultisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vertisol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

CONSERVATION PRACTICES - PART 2			
	FIELD 1	FIELD 2	FIELD 3
VEGETATIVE			
Use soil conserving and improving crops:			
1. Every year between cash crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Every other year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Two years out of three	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
4. Three years out of four	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
5. Contour strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Manage crop residue	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
7. Use sod-based rotation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
8. Wind strip cropping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Use field windbreaks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Control noxious plants	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
11. Establish recommended grasses and/or legumes	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Manage pasture or range properly	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Protect from wildfire	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Plant recommended trees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Harvest trees selectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Use for wildlife or recreational area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MECHANICAL			
	1	2	3
18. Terrace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Farm on the contour	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
20. Maintain terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Construct diversion terraces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Develop waterways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. Install water control system	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
24. Control gullies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Subsoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FERTILIZER AND SOIL AMENDMENTS			
	1	2	3
27. Lime	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
28. Nitrogen	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
29. Phosphorus	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
30. Potassium	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
31. One micronutrient	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
32. Two or more micronutrients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>