

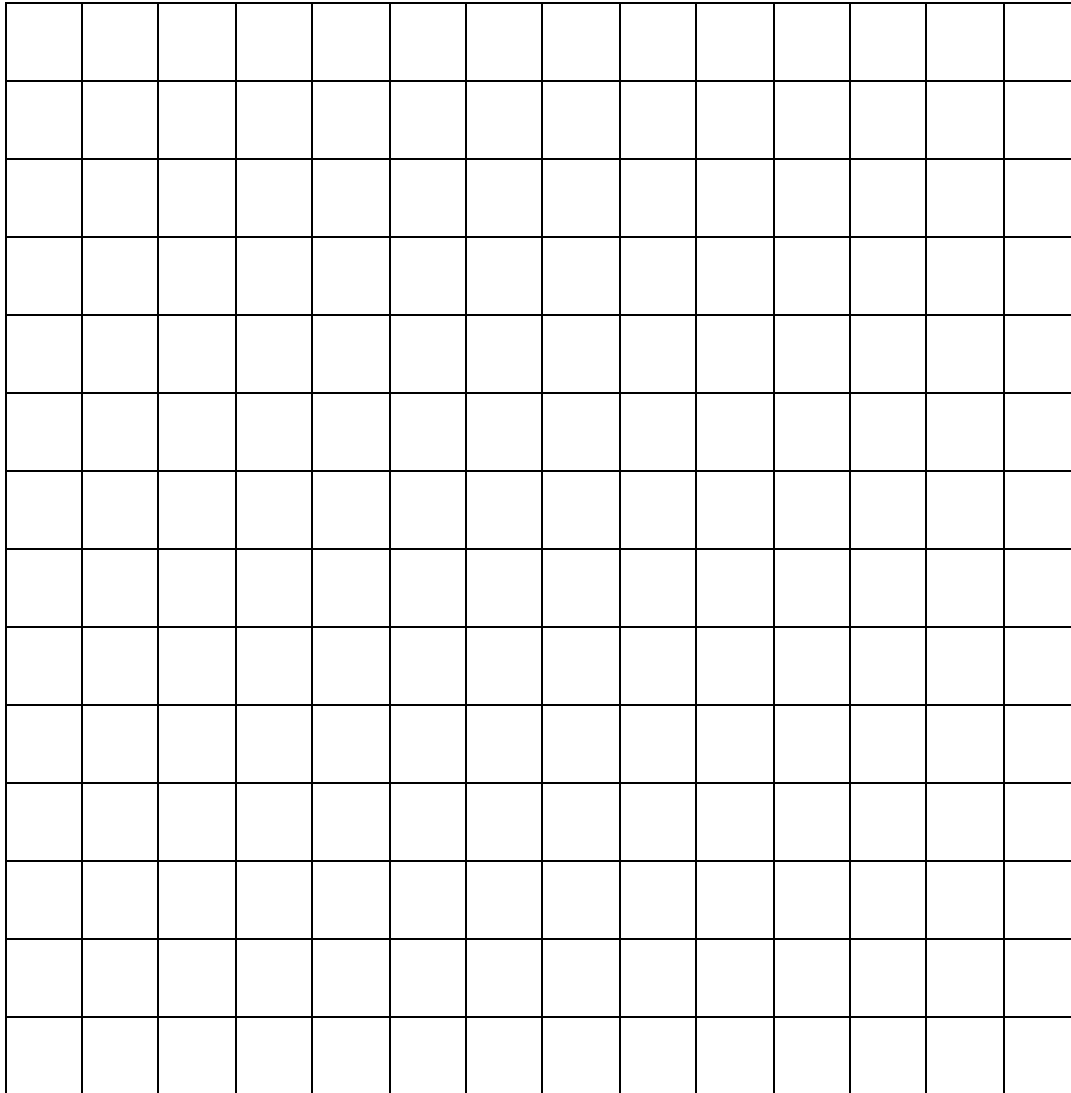
## **Soil Quality Evaluation Observations**

## Site Description

Site Description		Date:
Map Location	State: Georgia	County: Tift
Geographic Location	<i>xxxxxx Normally enter Longitude and Latitude xxxxxxx</i>	
Field or site Location		
Land Owner	ABAC	
Soil Information		
Soil Series		
Slope %		
Erosion		
Mean Annual Temp		
Mean Annual Precipitation		
Present Management		
Cropping System (Rotations, Cover crops, etc)		
Fertilizers/Pesticides (N-P-K, Pesticide use, etc)		
Tillage/Residue Cover (Rotations, Cover crops, etc)		
Irrigation (Pivot, Hard-hose. etc)		
Other		
Past Management History		
Cropping System (Rotations, Cover crops, etc)		
Fertilizers/Pesticides (N-P-K, Pesticide use, etc)		
Tillage/Residue Cover (Rotations, Cover crops, etc)		
Irrigation (Pivot, Hard-hose. etc)		
Unusual Events (Floods, Fire, Land leveling, etc)		

Aerial View of Filed showing Sample sites and location of adjacent environmentally sensitive areas such as ponds, creeks, wetlands

Scale: 1 inch = (or N/A if not to scale)



Additional notes concerning the site:

Soil Descriptions and Estimations		
	Description Site 1	Description Site 2
Top Soil Depth (inches)		
Plant Roots		
Compaction Layer		
Soil Texture		
Other		

Interpretations:

Soil Structure Index								
	Depth (in)	Type	Size	Grade	Class* (A)	(B)	(A) x (B)	Structure Index?
Site 1	0-4					3		X
	4-8					2		
	8-12					1		
						Total		
Site 2	0-4					3		X
	4-8					2		
	8-12					1		
						Total		

\* Class is determined by the combination of Soil type, size and grade. See "Classes for Structure Index" chart on following page.

? Structure Index = (Class Total - 6) ÷ 24 x 100

Interpretation:

<b>Classes for Structure Index</b>			
Structure			Class <sup>a</sup>
Type	Size	Grade	
Granular	Fine, Medium, Coarse	Weak	2
Granular	Fine, Medium, Coarse	Moderate	4
Granular	Fine, Medium, Coarse	Strong	5
Blocky	Very fine, Fine, Med.	Weak	1
Blocky	Very fine, Fine	Moderate	4
Blocky	Very fine, Fine, Med.	Strong	5
Blocky	Medium	Moderate	3
Platy	Thin, Medium, Thick	Very friable <sup>b</sup>	3
Platy	Thin, Medium, Thick	Friable <sup>b</sup>	2
Platy	Thin, Medium, Thick	Firm or Stronger <sup>b</sup>	1
Massive			1
Single Grain			1

Note: <sup>a</sup> Class 5 is the best. <sup>b</sup> Substitute horizontal moist rupture resistance.

<b>Soil EC and pH measurements</b>			
Sample Number	Sample Site Description	Ec reading (dS/m)	pH
1			
2			
3			
4			

Interpretations:

<b>Water EC and pH measurements</b>			
<b>Sample Number</b>	<b>Water Source Description</b>	<b>Ec reading (dS/m)</b>	<b>pH</b>
1			
2			

Interpretations:

<b>Soil Infiltration Rate</b>					
<b>Sample Number</b>	<b>Sample Site Description</b>	<b>Start Time</b>	<b>Stop Time</b>	<b>Time Elapsed (minutes)</b>	<b>Rate (in/hr) and Class</b>
1					
2					
3					
4					

Rate = 1 ÷ Time elapsed x 60

Interpretations:

## Soil Compaction

<b>Static Cone Penetrometer (Data in PSI)</b>			
<b>Depth</b>	<b>Pressure Site 1</b>	<b>Pressure Site 2</b>	<b>Pressure Site 3</b>
3"			
6"			
9"			
12"			
15"			

Interpretation: Based upon the readings, at what depths are compacted layers present (if any)? Alternatively, is the soil evenly compacted, or loose?

<b>Dynamic Cone Penetrometer (Option 1 method)</b>			
<b>Depth</b>	<b>Hammer drops Site 1</b>	<b>Hammer drops Site 2</b>	<b>Hammer drops Site 3</b>
2"			
4"			
6"			
8"			
10"			
12"			
14"			

Interpretation: Based upon the readings, at what depths are compacted layers present (if any)? Alternatively, is the soil evenly compacted, or loose?