

## SOIL ANALYSIS

Client :	Grower :	Report No: 18-072-0780
		Cust No: 99999
		Date Printed: 03/14/2018
		Date Received : 03/13/2018
		PO:
	Farm:	Page : 1 of 5

Lab Number : 08620

Field Id : Island

Sample Id : 1

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.3						6.9 meq/100g
Buffer pH	BPH	7.86						%Saturation
Phosphorus (P)	M3	162 LB/ACRE						%sat meq
Potassium (K)	M3	180 LB/ACRE						K 3.3 0.2
Calcium (Ca)	M3	2078 LB/ACRE						Ca 75.3 5.2
Magnesium (Mg)	M3	168 LB/ACRE						Mg 10.1 0.7
Sulfur (S)	M3	20 LB/ACRE						H 10.1 0.7
Boron (B)	M3	0.8 LB/ACRE						Na 1.4 0.1
Copper (Cu)	M3	2.0 LB/ACRE						
Iron (Fe)	M3	310 LB/ACRE						K/Mg Ratio: 0.33
Manganese (Mn)	M3	366 LB/ACRE						Ca/Mg Ratio: 7.46
Zinc (Zn)	M3	9.8 LB/ACRE						
Sodium (Na)	M3	46 LB/ACRE						
Soluble Salts								
Organic Matter	LOI	2.5% ENR 94						
Nitrate Nitrogen								

### SOIL FERTILITY GUIDELINES Prev Crop : Wheat/Soybeans

Crop : Corn		Yield Goal : 176 bu/acre		Rec Units: LB/ACRE							
(lbs)	LIME (tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	210	0	80	0	11	1.2	0	0	0	
Crop : Corn- No till		Yield Goal : 176 bu/acre		Rec Units: LB/ACRE							
0	0	210	0	80	0	11	1.2	0	0	0	

Comments :

**Analysis and fertility recommendations shown on this report are performed in accordance within NRCS (TN-EQIP) guidelines.**

#### Corn

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.

#### Corn- No till

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.
  - If N is supplied to corn through the irrigation system, make 3-4 equal applications at 7-10 day intervals, beginning at the 6th leaf stage.

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Lab Number : 08622

Field Id : Island

Sample Id : 2

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity														
			Very Low	Low	Medium	Optimum	Very High															
Soil pH	1:1	6.3						9.9 meq/100g														
Buffer pH	BPH	7.83																				
Phosphorus (P)	M3	300 LB/ACRE						<table border="1"> <thead> <tr> <th colspan="2">%Saturation</th> </tr> <tr> <th>%sat</th> <th>meq</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>4.4</td> </tr> <tr> <td>Ca</td> <td>75.4</td> </tr> <tr> <td>Mg</td> <td>9.4</td> </tr> <tr> <td>H</td> <td>10.1</td> </tr> <tr> <td>Na</td> <td>0.8</td> </tr> </tbody> </table>	%Saturation		%sat	meq	K	4.4	Ca	75.4	Mg	9.4	H	10.1	Na	0.8
%Saturation																						
%sat	meq																					
K	4.4																					
Ca	75.4																					
Mg	9.4																					
H	10.1																					
Na	0.8																					
Potassium (K)	M3	342 LB/ACRE																				
Calcium (Ca)	M3	2984 LB/ACRE																				
Magnesium (Mg)	M3	224 LB/ACRE																				
Sulfur (S)	M3	22 LB/ACRE																				
Boron (B)	M3	0.6 LB/ACRE																				
Copper (Cu)	M3	6.6 LB/ACRE																				
Iron (Fe)	M3	278 LB/ACRE																				
Manganese (Mn)	M3	502 LB/ACRE						K/Mg Ratio: 0.47														
Zinc (Zn)	M3	17.0 LB/ACRE						Ca/Mg Ratio: 8.02														
Sodium (Na)	M3	38 LB/ACRE																				
Soluble Salts																						
Organic Matter	LOI	3.2% ENR 108																				
Nitrate Nitrogen																						

### SOIL FERTILITY GUIDELINES Prev Crop : Wheat/Soybeans

Crop : Corn		Yield Goal : 176 bu/acre		Rec Units: LB/ACRE							
(lbs)	LIME (tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	210	0	0	0	10	1.4	0	0	0	
Crop : Corn- No till		Yield Goal : 176 bu/acre		Rec Units: LB/ACRE							
0	0	210	0	0	0	10	1.4	0	0	0	

Comments :

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#### Corn

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.

#### Corn- No till

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.
  - If N is supplied to corn through the irrigation system, make 3-4 equal applications at 7-10 day intervals, beginning at the 6th leaf stage.

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Lab Number : 08623

Field Id : Island

Sample Id : 3

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.7						8.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	232 LB/ACRE						%sat meq
Potassium (K)	M3	244 LB/ACRE						K 3.9 0.3
Calcium (Ca)	M3	2612 LB/ACRE						Ca 80.6 6.5
Magnesium (Mg)	M3	188 LB/ACRE						Mg 9.7 0.8
Sulfur (S)	M3	24 LB/ACRE						H 4.9 0.4
Boron (B)	M3	0.8 LB/ACRE						Na 0.9 0.1
Copper (Cu)	M3	2.4 LB/ACRE						
Iron (Fe)	M3	274 LB/ACRE						K/Mg Ratio: 0.40
Manganese (Mn)	M3	412 LB/ACRE						Ca/Mg Ratio: 8.31
Zinc (Zn)	M3	9.0 LB/ACRE						
Sodium (Na)	M3	34 LB/ACRE						
Soluble Salts								
Organic Matter	LOI	2.6% ENR 96						
Nitrate Nitrogen								

### SOIL FERTILITY GUIDELINES Prev Crop : Wheat/Soybeans

Crop : Corn

Yield Goal : 176 bu/acre

Rec Units: LB/ACRE

(lbs)	LIME (tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	210	0	0	0	10	1.2	0	0	0	
Crop : Corn- No till Yield Goal : 176 bu/acre Rec Units: LB/ACRE											
0	0	210	0	0	0	10	1.2	0	0	0	

Comments :

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#### Corn

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.

#### Corn- No till

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.
  - If N is supplied to corn through the irrigation system, make 3-4 equal applications at 7-10 day intervals, beginning at the 6th leaf stage.

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Lab Number : 08624

Field Id : Island

Sample Id : 4

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity	
			Very Low	Low	Medium	Optimum	Very High		
Soil pH	1:1	6.6						<b>9.3 meq/100g</b>	
Buffer pH								<b>%Saturation</b>	
Phosphorus (P)	M3	248 LB/ACRE						<b>%sat</b>	<b>meq</b>
Potassium (K)	M3	258 LB/ACRE						K	3.6 0.3
Calcium (Ca)	M3	2918 LB/ACRE						Ca	78.4 7.3
Magnesium (Mg)	M3	226 LB/ACRE						Mg	10.1 0.9
Sulfur (S)	M3	20 LB/ACRE						H	6.5 0.6
Boron (B)	M3	0.6 LB/ACRE						Na	1.1 0.1
Copper (Cu)	M3	3.4 LB/ACRE						<b>K/Mg Ratio: 0.35</b>	
Iron (Fe)	M3	326 LB/ACRE						<b>Ca/Mg Ratio: 7.76</b>	
Manganese (Mn)	M3	500 LB/ACRE							
Zinc (Zn)	M3	11.2 LB/ACRE							
Sodium (Na)	M3	48 LB/ACRE							
Soluble Salts									
Organic Matter	LOI	2.8% ENR 100							
Nitrate Nitrogen									

### SOIL FERTILITY GUIDELINES Prev Crop : Wheat/Soybeans

<b>Crop :</b> Corn	<b>Yield Goal :</b> 176 bu/acre	<b>Rec Units:</b> LB/ACRE								
(lbs) LIME (tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
0 0	210	0	0	0	11	1.4	0	0	0	
<b>Crop :</b> Corn- No till	<b>Yield Goal :</b> 176 bu/acre	<b>Rec Units:</b> LB/ACRE								
0 0	210	0	0	0	11	1.4	0	0	0	

Comments :

**Analysis and fertility recommendations shown on this report are performed in accordance within NRCS (TN-EQIP) guidelines.**

#### Corn

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.

#### Corn- No till

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
  - For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.
  - If N is supplied to corn through the irrigation system, make 3-4 equal applications at 7-10 day intervals, beginning at the 6th leaf stage.

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Lab Number : 08625

Field Id : Island

Sample Id : 5

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.2						9.1 meq/100g
Buffer pH	BPH	7.82						%Saturation
Phosphorus (P)	M3	92 LB/ACRE						%sat meq
Potassium (K)	M3	202 LB/ACRE						K 2.8 0.3
Calcium (Ca)	M3	2616 LB/ACRE						Ca 71.9 6.5
Magnesium (Mg)	M3	260 LB/ACRE						Mg 11.9 1.1
Sulfur (S)	M3	28 LB/ACRE						H 12.1 1.1
Boron (B)	M3	0.8 LB/ACRE						Na 0.9 0.1
Copper (Cu)	M3	2.4 LB/ACRE						
Iron (Fe)	M3	324 LB/ACRE						K/Mg Ratio: 0.24
Manganese (Mn)	M3	330 LB/ACRE						Ca/Mg Ratio: 6.04
Zinc (Zn)	M3	12.0 LB/ACRE						
Sodium (Na)	M3	38 LB/ACRE						
Soluble Salts								
Organic Matter	LOI	3.3% ENR 110						
Nitrate Nitrogen								

### SOIL FERTILITY GUIDELINES Prev Crop : Wheat/Soybeans

Crop : Corn

Yield Goal : 176 bu/acre

Rec Units: LB/ACRE

(lbs)	LIME	(tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
1000		0.5	210	0	80	0	10	1.2	0	0	0	
Crop : Corn- No till Yield Goal : 176 bu/acre Rec Units: LB/ACRE												
1000		0.5	210	0	80	0	10	1.2	0	0	0	

Comments :

**Analysis and fertility recommendations shown on this report are performed in accordance within NRCS (TN-EQIP) guidelines.**

#### Corn

Limestone application is targeted to bring soil pH to 6.5.

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
- For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.

#### Corn- No till

Limestone application is targeted to bring soil pH to 6.5.

- Greater N efficiency for corn may be achieved by splitting the N application. Apply 1/4 to 1/3 of the N prior to or at planting and the remainder as sidedress when corn is 8-24 inches high.
- For early planted corn or no till corn, apply a starter fertilizer at least 2 inches from the seed at a rate of 10-20 lbs N/Acre and 30-60 lbs P2O5/Acre.
- If N is supplied to corn through the irrigation system, make 3-4 equal applications at 7-10 day intervals, beginning at the 6th leaf stage.