



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 1 of 90
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Lab No: 51501

Field:

Sample ID: 1

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						38.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	121 ppm						%sat meq
Potassium (K)	M3	76 ppm						K 0.5 0.2
Calcium (Ca)	M3	6672 ppm						Ca 87.1 33.4
Magnesium (Mg)	M3	574 ppm						Mg 12.5 4.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.97
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.7%						
Estimated N Release		158 lbs/acre						
Nitrate Nitrogen	NO3N	8.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



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Lab No: 51502

Field:

Sample ID: 2

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						37.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	125 ppm						%sat meq
Potassium (K)	M3	71 ppm						K 0.5 0.2
Calcium (Ca)	M3	6431 ppm						Ca 86.9 32.2
Magnesium (Mg)	M3	562 ppm						Mg 12.7 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.84
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.2%						
Estimated N Release		148 lbs/acre						
Nitrate Nitrogen	NO3N	7.2 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



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Lab No: 51503

Field:

Sample ID: 3

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						40.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	117 ppm						%sat meq
Potassium (K)	M3	90 ppm						K 0.6 0.2
Calcium (Ca)	M3	7090 ppm						Ca 86.9 35.5
Magnesium (Mg)	M3	614 ppm						Mg 12.5 5.1
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 6.95
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.7%						
Estimated N Release		158 lbs/acre						
Nitrate Nitrogen	NO3N	9.3 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



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Lab No: 51504

Field:

Sample ID: 4

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						41.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	113 ppm						%sat meq
Potassium (K)	M3	98 ppm						K 0.6 0.3
Calcium (Ca)	M3	7205 ppm						Ca 87.0 36.0
Magnesium (Mg)	M3	609 ppm						Mg 12.3 5.1
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 7.07
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.8%						
Estimated N Release		180 lbs/acre						
Nitrate Nitrogen	NO3N	17 ppm						
Ammonium Nitrogen	NH4N	1.6 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



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Lab No: 51505

Field:

Sample ID: 5

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						43.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	121 ppm						%sat meq
Potassium (K)	M3	99 ppm						K 0.6 0.3
Calcium (Ca)	M3	7470 ppm						Ca 86.1 37.4
Magnesium (Mg)	M3	692 ppm						Mg 13.3 5.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.47
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.6%						
Estimated N Release		176 lbs/acre						
Nitrate Nitrogen	NO3N	8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



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Lab No: 51506

Field:

Sample ID: 6

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						34.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	98 ppm						%sat meq
Potassium (K)	M3	74 ppm						K 0.6 0.2
Calcium (Ca)	M3	5765 ppm						Ca 84.3 28.8
Magnesium (Mg)	M3	623 ppm						Mg 15.2 5.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 5.55
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.9%						
Estimated N Release		182 lbs/acre						
Nitrate Nitrogen	NO3N	11.5 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



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Lab No: 51507

Field:

Sample ID: 7

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						41.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	127 ppm						%sat meq
Potassium (K)	M3	83 ppm						K 0.5 0.2
Calcium (Ca)	M3	7184 ppm						Ca 86.6 35.9
Magnesium (Mg)	M3	644 ppm						Mg 12.9 5.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.71
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.2%						
Estimated N Release		148 lbs/acre						
Nitrate Nitrogen	NO3N	7.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



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Lab No: 51508

Field:

Sample ID: 8

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						37.6 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	118 ppm						%sat meq
Potassium (K)	M3	109 ppm						K 0.7 0.3
Calcium (Ca)	M3	6526 ppm						Ca 86.8 32.6
Magnesium (Mg)	M3	560 ppm						Mg 12.4 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.06
Manganese (Mn)								Ca/Mg Ratio: 7.00
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.8%						
Estimated N Release		160 lbs/acre						
Nitrate Nitrogen	NO3N	9.4 ppm						
Ammonium Nitrogen	NH4N	1.3 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



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Lab No: 51509

Field:

Sample ID: 9

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						36.7 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	83 ppm						%sat meq
Potassium (K)	M3	52 ppm						K 0.4 0.1
Calcium (Ca)	M3	6197 ppm						Ca 84.4 31.0
Magnesium (Mg)	M3	675 ppm						Mg 15.3 5.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 5.52
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.7%						
Estimated N Release		158 lbs/acre						
Nitrate Nitrogen	NO3N	9.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51510

Field:

Sample ID: 10

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.3						39.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	74 ppm						%sat meq
Potassium (K)	M3	43 ppm						K 0.3 0.1
Calcium (Ca)	M3	6859 ppm						Ca 87.3 34.3
Magnesium (Mg)	M3	570 ppm						Mg 12.1 4.8
Sulfur (S)								H 0.3 0.1
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 7.21
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.1%						
Estimated N Release		166 lbs/acre						
Nitrate Nitrogen	NO3N	8.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51512

Field:

Sample ID: 11

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						37.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	118 ppm						%sat meq
Potassium (K)	M3	81 ppm						K 0.6 0.2
Calcium (Ca)	M3	6472 ppm						Ca 87.0 32.4
Magnesium (Mg)	M3	556 ppm						Mg 12.5 4.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.96
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.8%						
Estimated N Release		160 lbs/acre						
Nitrate Nitrogen	NO3N	6.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51513

Field:

Sample ID: 12

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						38.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	124 ppm						%sat meq
Potassium (K)	M3	100 ppm						K 0.7 0.3
Calcium (Ca)	M3	6705 ppm						Ca 88.0 33.5
Magnesium (Mg)	M3	518 ppm						Mg 11.3 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.06
Manganese (Mn)								Ca/Mg Ratio: 7.79
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.5%						
Estimated N Release		154 lbs/acre						
Nitrate Nitrogen	NO3N	15.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51514

Field:

Sample ID: 13

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.4						40.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	68 ppm						%sat meq
Potassium (K)	M3	47 ppm						K 0.3 0.1
Calcium (Ca)	M3	7006 ppm						Ca 87.6 35.0
Magnesium (Mg)	M3	580 ppm						Mg 12.1 4.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 7.24
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.5%						
Estimated N Release		174 lbs/acre						
Nitrate Nitrogen	NO3N	11.5 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.

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University of Illinois Urbana-Champaign
Chelsea Peterson
1102 S Goodwin Ave (NRES)
Urbana IL 61801

Grower :
Dept of Natural Resources & Environmenta

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Lab No: 51515

Field:

Sample ID: 14

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						42.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	69 ppm						%sat meq
Potassium (K)	M3	45 ppm						K 0.3 0.1
Calcium (Ca)	M3	7462 ppm						Ca 88.0 37.3
Magnesium (Mg)	M3	594 ppm						Mg 11.7 5.0
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 7.52
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.5%						
Estimated N Release		174 lbs/acre						
Nitrate Nitrogen	NO3N	15.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe
Crop :												Rec Units:

Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



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Lab No: 51516

Field:

Sample ID: 15

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.3						34.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	88 ppm						%sat meq
Potassium (K)	M3	89 ppm						K 0.7 0.2
Calcium (Ca)	M3	5516 ppm						Ca 80.2 27.6
Magnesium (Mg)	M3	774 ppm						Mg 18.8 6.5
Sulfur (S)								H 0.3 0.1
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 4.27
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.1%						
Estimated N Release		166 lbs/acre						
Nitrate Nitrogen	NO3N	7.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 16 of 90
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Lab No: 51517

Field:

Sample ID: 16

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						37.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	105 ppm						%sat meq
Potassium (K)	M3	122 ppm						K 0.8 0.3
Calcium (Ca)	M3	6472 ppm						Ca 86.3 32.4
Magnesium (Mg)	M3	578 ppm						Mg 12.8 4.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.06
Manganese (Mn)								Ca/Mg Ratio: 6.74
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.5%						
Estimated N Release		174 lbs/acre						
Nitrate Nitrogen	NO3N	11.9 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51518

Field:

Sample ID: 17

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						38.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	126 ppm						%sat meq
Potassium (K)	M3	85 ppm						K 0.6 0.2
Calcium (Ca)	M3	6671 ppm						Ca 87.8 33.4
Magnesium (Mg)	M3	528 ppm						Mg 11.6 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 7.57
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.5%						
Estimated N Release		154 lbs/acre						
Nitrate Nitrogen	NO3N	9.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51519

Field:

Sample ID: 18

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						32.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	84 ppm						%sat meq
Potassium (K)	M3	126 ppm						K 1.0 0.3
Calcium (Ca)	M3	4994 ppm						Ca 75.9 25.0
Magnesium (Mg)	M3	907 ppm						Mg 23.0 7.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 3.30
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.9%						
Estimated N Release		162 lbs/acre						
Nitrate Nitrogen	NO3N	7 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51520

Field:

Sample ID: 19

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						43.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	93 ppm						%sat meq
Potassium (K)	M3	63 ppm						K 0.4 0.2
Calcium (Ca)	M3	7717 ppm						Ca 88.9 38.6
Magnesium (Mg)	M3	561 ppm						Mg 10.8 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 8.23
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.8%						
Estimated N Release		160 lbs/acre						
Nitrate Nitrogen	NO3N	14.5 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51521

Field:

Sample ID: 20

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.4						41.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	96 ppm						%sat meq
Potassium (K)	M3	71 ppm						K 0.4 0.2
Calcium (Ca)	M3	7406 ppm						Ca 88.4 37.0
Magnesium (Mg)	M3	562 ppm						Mg 11.2 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.89
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	7.0%						
Estimated N Release		184 lbs/acre						
Nitrate Nitrogen	NO3N	11 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51523

Field:

Sample ID: 21

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.4						41.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	87 ppm						%sat meq
Potassium (K)	M3	55 ppm						K 0.3 0.1
Calcium (Ca)	M3	7561 ppm						Ca 90.4 37.8
Magnesium (Mg)	M3	468 ppm						Mg 9.3 3.9
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 9.72
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.2%						
Estimated N Release		148 lbs/acre						
Nitrate Nitrogen	NO3N	9.5 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51524

Field:

Sample ID: 22

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						37.6 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	113 ppm						%sat meq
Potassium (K)	M3	75 ppm						K 0.5 0.2
Calcium (Ca)	M3	6669 ppm						Ca 88.7 33.3
Magnesium (Mg)	M3	489 ppm						Mg 10.8 4.1
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 8.21
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.9%						
Estimated N Release		162 lbs/acre						
Nitrate Nitrogen	NO3N	7.9 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51525

Field:

Sample ID: 23

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						37.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	75 ppm						%sat meq
Potassium (K)	M3	46 ppm						K 0.3 0.1
Calcium (Ca)	M3	6489 ppm						Ca 85.8 32.4
Magnesium (Mg)	M3	632 ppm						Mg 13.9 5.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 6.17
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.6%						
Estimated N Release		176 lbs/acre						
Nitrate Nitrogen	NO3N	11.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51526

Field:

Sample ID: 24

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.4						37.6 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	91 ppm						%sat meq
Potassium (K)	M3	65 ppm						K 0.4 0.2
Calcium (Ca)	M3	6607 ppm						Ca 87.9 33.0
Magnesium (Mg)	M3	533 ppm						Mg 11.8 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.45
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.0%						
Estimated N Release		144 lbs/acre						
Nitrate Nitrogen	NO3N	8.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51527

Field:

Sample ID: 25

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						38.7 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	129 ppm						%sat meq
Potassium (K)	M3	85 ppm						K 0.6 0.2
Calcium (Ca)	M3	6794 ppm						Ca 87.8 34.0
Magnesium (Mg)	M3	543 ppm						Mg 11.7 4.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 7.50
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.3%						
Estimated N Release		150 lbs/acre						
Nitrate Nitrogen	NO3N	15.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51528

Field:

Sample ID: 26

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						47.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	85 ppm						%sat meq
Potassium (K)	M3	73 ppm						K 0.4 0.2
Calcium (Ca)	M3	8608 ppm						Ca 91.4 43.0
Magnesium (Mg)	M3	463 ppm						Mg 8.2 3.9
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 11.15
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.5%						
Estimated N Release		134 lbs/acre						
Nitrate Nitrogen	NO3N	16.2 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51529

Field:

Sample ID: 27

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						35.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	80 ppm						%sat meq
Potassium (K)	M3	58 ppm						K 0.4 0.1
Calcium (Ca)	M3	5889 ppm						Ca 83.9 29.4
Magnesium (Mg)	M3	658 ppm						Mg 15.6 5.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 5.38
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.4%						
Estimated N Release		152 lbs/acre						
Nitrate Nitrogen	NO3N	11.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51530

Field:

Sample ID: 28

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						38.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	102 ppm						%sat meq
Potassium (K)	M3	75 ppm						K 0.5 0.2
Calcium (Ca)	M3	6636 ppm						Ca 87.3 33.2
Magnesium (Mg)	M3	552 ppm						Mg 12.1 4.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.21
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.9%						
Estimated N Release		162 lbs/acre						
Nitrate Nitrogen	NO3N	10.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51531

Field:

Sample ID: 29

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						37.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	110 ppm						%sat meq
Potassium (K)	M3	60 ppm						K 0.4 0.2
Calcium (Ca)	M3	6597 ppm						Ca 88.0 33.0
Magnesium (Mg)	M3	525 ppm						Mg 11.7 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.52
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.0%						
Estimated N Release		144 lbs/acre						
Nitrate Nitrogen	NO3N	8.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51532

Field:

Sample ID: 30

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						39.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	102 ppm						%sat meq
Potassium (K)	M3	59 ppm						K 0.4 0.2
Calcium (Ca)	M3	7012 ppm						Ca 88.1 35.1
Magnesium (Mg)	M3	550 ppm						Mg 11.5 4.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.66
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.3%						
Estimated N Release		170 lbs/acre						
Nitrate Nitrogen	NO3N	7.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51534

Field:

Sample ID: 31

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.9						35.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	76 ppm						%sat meq
Potassium (K)	M3	38 ppm						K 0.3 0.1
Calcium (Ca)	M3	6012 ppm						Ca 85.2 30.1
Magnesium (Mg)	M3	622 ppm						Mg 14.7 5.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 5.80
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.4%						
Estimated N Release		172 lbs/acre						
Nitrate Nitrogen	NO3N	8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51535

Field:

Sample ID: 32

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						32.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	93 ppm						%sat meq
Potassium (K)	M3	47 ppm						K 0.4 0.1
Calcium (Ca)	M3	5255 ppm						Ca 81.9 26.3
Magnesium (Mg)	M3	687 ppm						Mg 17.8 5.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 4.60
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.6%						
Estimated N Release		176 lbs/acre						
Nitrate Nitrogen	NO3N	9.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51536

Field:

Sample ID: 33

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						34.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	79 ppm						%sat meq
Potassium (K)	M3	46 ppm						K 0.3 0.1
Calcium (Ca)	M3	5747 ppm						Ca 84.3 28.7
Magnesium (Mg)	M3	626 ppm						Mg 15.3 5.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 5.51
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.8%						
Estimated N Release		180 lbs/acre						
Nitrate Nitrogen	NO3N	11.3 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51537

Field:

Sample ID: 34

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						34.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	130 ppm						%sat meq
Potassium (K)	M3	80 ppm						K 0.6 0.2
Calcium (Ca)	M3	6067 ppm						Ca 87.2 30.3
Magnesium (Mg)	M3	510 ppm						Mg 12.2 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 7.15
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.2%						
Estimated N Release		148 lbs/acre						
Nitrate Nitrogen	NO3N	7.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51538

Field:

Sample ID: 35

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						33.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	90 ppm						%sat meq
Potassium (K)	M3	48 ppm						K 0.4 0.1
Calcium (Ca)	M3	5523 ppm						Ca 82.9 27.6
Magnesium (Mg)	M3	669 ppm						Mg 16.7 5.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.02
Manganese (Mn)								Ca/Mg Ratio: 4.96
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.1%						
Estimated N Release		146 lbs/acre						
Nitrate Nitrogen	NO3N	4.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51539

Field:

Sample ID: 36

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						39.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	105 ppm						%sat meq
Potassium (K)	M3	65 ppm						K 0.4 0.2
Calcium (Ca)	M3	6950 ppm						Ca 88.4 34.8
Magnesium (Mg)	M3	523 ppm						Mg 11.1 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.96
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.9%						
Estimated N Release		162 lbs/acre						
Nitrate Nitrogen	NO3N	7.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51540

Field:

Sample ID: 37

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.4						34.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	89 ppm						%sat meq
Potassium (K)	M3	132 ppm						K 1.0 0.3
Calcium (Ca)	M3	5507 ppm						Ca 80.0 27.5
Magnesium (Mg)	M3	782 ppm						Mg 18.9 6.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 4.23
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.9%						
Estimated N Release		162 lbs/acre						
Nitrate Nitrogen	NO3N	13.7 ppm						
Ammonium Nitrogen	NH4N	2.6 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51541

Field:

Sample ID: 38

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						41.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	117 ppm						%sat meq
Potassium (K)	M3	100 ppm						K 0.6 0.3
Calcium (Ca)	M3	7207 ppm						Ca 87.5 36.0
Magnesium (Mg)	M3	586 ppm						Mg 11.9 4.9
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 7.35
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.6%						
Estimated N Release		156 lbs/acre						
Nitrate Nitrogen	NO3N	7.7 ppm						
Ammonium Nitrogen	NH4N	1.5 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe
Crop :												Rec Units:

Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51542

Field:

Sample ID: 39

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.8						37.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	76 ppm						%sat meq
Potassium (K)	M3	54 ppm						K 0.4 0.1
Calcium (Ca)	M3	6194 ppm						Ca 82.6 31.0
Magnesium (Mg)	M3	639 ppm						Mg 14.2 5.3
Sulfur (S)								H 2.9 1.1
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 5.82
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.9%						
Estimated N Release		182 lbs/acre						
Nitrate Nitrogen	NO3N	11.5 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51543

Field:

Sample ID: 40

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						45.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	86 ppm						%sat meq
Potassium (K)	M3	69 ppm						K 0.4 0.2
Calcium (Ca)	M3	8263 ppm						Ca 90.2 41.3
Magnesium (Mg)	M3	518 ppm						Mg 9.4 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 9.60
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.8%						
Estimated N Release		160 lbs/acre						
Nitrate Nitrogen	NO3N	8.3 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51545

Field:

Sample ID: 41

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						40.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	106 ppm						%sat meq
Potassium (K)	M3	86 ppm						K 0.5 0.2
Calcium (Ca)	M3	7171 ppm						Ca 87.7 35.9
Magnesium (Mg)	M3	584 ppm						Mg 11.9 4.9
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 7.37
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.1%						
Estimated N Release		166 lbs/acre						
Nitrate Nitrogen	NO3N	15 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51546

Field:

Sample ID: 42

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						38.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	135 ppm						%sat meq
Potassium (K)	M3	111 ppm						K 0.7 0.3
Calcium (Ca)	M3	6511 ppm						Ca 85.7 32.6
Magnesium (Mg)	M3	614 ppm						Mg 13.5 5.1
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.06
Manganese (Mn)								Ca/Mg Ratio: 6.35
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.5%						
Estimated N Release		154 lbs/acre						
Nitrate Nitrogen	NO3N	7.3 ppm						
Ammonium Nitrogen	NH4N	2.4 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51547

Field:

Sample ID: 43

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						35.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	125 ppm						%sat meq
Potassium (K)	M3	65 ppm						K 0.5 0.2
Calcium (Ca)	M3	6215 ppm						Ca 86.6 31.1
Magnesium (Mg)	M3	564 ppm						Mg 13.1 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.61
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.4%						
Estimated N Release		152 lbs/acre						
Nitrate Nitrogen	NO3N	6.2 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51548

Field:

Sample ID: 44

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						41.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	101 ppm						%sat meq
Potassium (K)	M3	67 ppm						K 0.4 0.2
Calcium (Ca)	M3	7349 ppm						Ca 89.2 36.7
Magnesium (Mg)	M3	510 ppm						Mg 10.3 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 8.66
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.6%						
Estimated N Release		176 lbs/acre						
Nitrate Nitrogen	NO3N	11.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51549

Field:

Sample ID: 45

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						33.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	118 ppm						%sat meq
Potassium (K)	M3	78 ppm						K 0.6 0.2
Calcium (Ca)	M3	5792 ppm						Ca 86.4 29.0
Magnesium (Mg)	M3	520 ppm						Mg 12.9 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 6.70
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.0%						
Estimated N Release		144 lbs/acre						
Nitrate Nitrogen	NO3N	8.9 ppm						
Ammonium Nitrogen	NH4N	1.1 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 46 of 90
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Lab No: 51550

Field:

Sample ID: 46

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						48.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	145 ppm						%sat meq
Potassium (K)	M3	119 ppm						K 0.6 0.3
Calcium (Ca)	M3	8262 ppm						Ca 85.4 41.3
Magnesium (Mg)	M3	811 ppm						Mg 14.0 6.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 6.10
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.4%						
Estimated N Release		152 lbs/acre						
Nitrate Nitrogen	NO3N	8.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51551

Field:

Sample ID: 47

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						36.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	108 ppm						%sat meq
Potassium (K)	M3	68 ppm						K 0.5 0.2
Calcium (Ca)	M3	6295 ppm						Ca 86.2 31.5
Magnesium (Mg)	M3	581 ppm						Mg 13.3 4.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.48
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.4%						
Estimated N Release		152 lbs/acre						
Nitrate Nitrogen	NO3N	8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51552

Field:

Sample ID: 48

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						34.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	119 ppm						%sat meq
Potassium (K)	M3	61 ppm						K 0.4 0.2
Calcium (Ca)	M3	6075 ppm						Ca 87.3 30.4
Magnesium (Mg)	M3	518 ppm						Mg 12.4 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.04
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.4%						
Estimated N Release		132 lbs/acre						
Nitrate Nitrogen	NO3N	6.9 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51553

Field:

Sample ID: 49

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.9						40.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	112 ppm						%sat meq
Potassium (K)	M3	69 ppm						K 0.4 0.2
Calcium (Ca)	M3	7214 ppm						Ca 88.4 36.1
Magnesium (Mg)	M3	544 ppm						Mg 11.1 4.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.96
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.0%						
Estimated N Release		164 lbs/acre						
Nitrate Nitrogen	NO3N	9.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 50 of 90
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Lab No: 51554

Field:

Sample ID: 50

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						33.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	121 ppm						%sat meq
Potassium (K)	M3	50 ppm						K 0.4 0.1
Calcium (Ca)	M3	5829 ppm						Ca 86.0 29.1
Magnesium (Mg)	M3	558 ppm						Mg 13.7 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.28
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.3%						
Estimated N Release		150 lbs/acre						
Nitrate Nitrogen	NO3N	7.5 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 51 of 90
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Lab No: 51556

Field:

Sample ID: 51

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						35.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	113 ppm						%sat meq
Potassium (K)	M3	55 ppm						K 0.4 0.1
Calcium (Ca)	M3	6286 ppm						Ca 87.8 31.4
Magnesium (Mg)	M3	511 ppm						Mg 11.9 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.38
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.5%						
Estimated N Release		154 lbs/acre						
Nitrate Nitrogen	NO3N	7.9 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51557

Field:

Sample ID: 52

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						38.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	121 ppm						%sat meq
Potassium (K)	M3	114 ppm						K 0.8 0.3
Calcium (Ca)	M3	6800 ppm						Ca 88.5 34.0
Magnesium (Mg)	M3	497 ppm						Mg 10.8 4.1
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.07
Manganese (Mn)								Ca/Mg Ratio: 8.19
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.6%						
Estimated N Release		156 lbs/acre						
Nitrate Nitrogen	NO3N	7.9 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51558

Field:

Sample ID: 53

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.9						39.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	89 ppm						%sat meq
Potassium (K)	M3	51 ppm						K 0.3 0.1
Calcium (Ca)	M3	6890 ppm						Ca 88.3 34.5
Magnesium (Mg)	M3	533 ppm						Mg 11.4 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.75
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.7%						
Estimated N Release		158 lbs/acre						
Nitrate Nitrogen	NO3N	8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51559

Field:

Sample ID: 54

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						32.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	107 ppm						%sat meq
Potassium (K)	M3	48 ppm						K 0.4 0.1
Calcium (Ca)	M3	5473 ppm						Ca 85.5 27.4
Magnesium (Mg)	M3	544 ppm						Mg 14.2 4.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.02
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.4%						
Estimated N Release		152 lbs/acre						
Nitrate Nitrogen	NO3N	4.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51560

Field:

Sample ID: 55

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						19.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	57 ppm						%sat meq
Potassium (K)	M3	21 ppm						K 0.3 0.1
Calcium (Ca)	M3	3610 ppm						Ca 94.0 18.1
Magnesium (Mg)	M3	128 ppm						Mg 5.6 1.1
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 16.79
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.2%						
Estimated N Release		148 lbs/acre						
Nitrate Nitrogen	NO3N	8.7 ppm						
Ammonium Nitrogen	NH4N	1.1 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51561

Field:

Sample ID: 56

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						35.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	102 ppm						%sat meq
Potassium (K)	M3	57 ppm						K 0.4 0.1
Calcium (Ca)	M3	6228 ppm						Ca 86.7 31.1
Magnesium (Mg)	M3	559 ppm						Mg 13.0 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.67
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.3%						
Estimated N Release		150 lbs/acre						
Nitrate Nitrogen	NO3N	7 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 57 of 90
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Lab No: 51562

Field:

Sample ID: 57

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						34.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	118 ppm						%sat meq
Potassium (K)	M3	61 ppm						K 0.4 0.2
Calcium (Ca)	M3	6083 ppm						Ca 87.1 30.4
Magnesium (Mg)	M3	524 ppm						Mg 12.5 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.97
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.9%						
Estimated N Release		142 lbs/acre						
Nitrate Nitrogen	NO3N	7.3 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51563

Field:

Sample ID: 58

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						39.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	94 ppm						%sat meq
Potassium (K)	M3	47 ppm						K 0.3 0.1
Calcium (Ca)	M3	7115 ppm						Ca 90.1 35.6
Magnesium (Mg)	M3	458 ppm						Mg 9.7 3.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 9.29
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.4%						
Estimated N Release		132 lbs/acre						
Nitrate Nitrogen	NO3N	9.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51564

Field:

Sample ID: 59

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						38.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	85 ppm						%sat meq
Potassium (K)	M3	40 ppm						K 0.3 0.1
Calcium (Ca)	M3	6986 ppm						Ca 91.4 34.9
Magnesium (Mg)	M3	380 ppm						Mg 8.3 3.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 11.01
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.0%						
Estimated N Release		124 lbs/acre						
Nitrate Nitrogen	NO3N	10.2 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 60 of 90
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Lab No: 51565

Field:

Sample ID: 60

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						38.6 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	97 ppm						%sat meq
Potassium (K)	M3	53 ppm						K 0.4 0.1
Calcium (Ca)	M3	6810 ppm						Ca 88.2 34.1
Magnesium (Mg)	M3	534 ppm						Mg 11.5 4.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.67
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.1%						
Estimated N Release		166 lbs/acre						
Nitrate Nitrogen	NO3N	7.7 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 61 of 90
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Lab No: 51567

Field:

Sample ID: 61

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						45.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	94 ppm						%sat meq
Potassium (K)	M3	58 ppm						K 0.3 0.1
Calcium (Ca)	M3	8084 ppm						Ca 89.8 40.4
Magnesium (Mg)	M3	529 ppm						Mg 9.8 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 9.16
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.8%						
Estimated N Release		160 lbs/acre						
Nitrate Nitrogen	NO3N	9.2 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 62 of 90
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Lab No: 51568

Field:

Sample ID: 62

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						36.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	115 ppm						%sat meq
Potassium (K)	M3	51 ppm						K 0.4 0.1
Calcium (Ca)	M3	6435 ppm						Ca 89.1 32.2
Magnesium (Mg)	M3	456 ppm						Mg 10.5 3.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 8.49
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.1%						
Estimated N Release		146 lbs/acre						
Nitrate Nitrogen	NO3N	10.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 63 of 90
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Lab No: 51569

Field:

Sample ID: 63

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						35.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	112 ppm						%sat meq
Potassium (K)	M3	54 ppm						K 0.4 0.1
Calcium (Ca)	M3	6092 ppm						Ca 86.5 30.5
Magnesium (Mg)	M3	558 ppm						Mg 13.2 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.55
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.6%						
Estimated N Release		136 lbs/acre						
Nitrate Nitrogen	NO3N	6.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 64 of 90
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Lab No: 51570

Field:

Sample ID: 64

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.4						37.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	108 ppm						%sat meq
Potassium (K)	M3	50 ppm						K 0.3 0.1
Calcium (Ca)	M3	6461 ppm						Ca 87.1 32.3
Magnesium (Mg)	M3	557 ppm						Mg 12.5 4.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.97
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.6%						
Estimated N Release		136 lbs/acre						
Nitrate Nitrogen	NO3N	8.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 65 of 90
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Lab No: 51571

Field:

Sample ID: 65

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						35.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	118 ppm						%sat meq
Potassium (K)	M3	50 ppm						K 0.4 0.1
Calcium (Ca)	M3	6296 ppm						Ca 87.7 31.5
Magnesium (Mg)	M3	520 ppm						Mg 12.1 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.25
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.3%						
Estimated N Release		170 lbs/acre						
Nitrate Nitrogen	NO3N	6.5 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 66 of 90
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Lab No: 51572

Field:

Sample ID: 66

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						33.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	127 ppm						%sat meq
Potassium (K)	M3	47 ppm						K 0.4 0.1
Calcium (Ca)	M3	5793 ppm						Ca 87.0 29.0
Magnesium (Mg)	M3	503 ppm						Mg 12.6 4.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.90
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	3.9%						
Estimated N Release		122 lbs/acre						
Nitrate Nitrogen	NO3N	5.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51573

Field:

Sample ID: 67

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						36.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	109 ppm						%sat meq
Potassium (K)	M3	46 ppm						K 0.3 0.1
Calcium (Ca)	M3	6331 ppm						Ca 87.0 31.7
Magnesium (Mg)	M3	560 ppm						Mg 12.8 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.80
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.7%						
Estimated N Release		138 lbs/acre						
Nitrate Nitrogen	NO3N	9.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 68 of 90
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Lab No: 51574

Field:

Sample ID: 68

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						37.7 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	95 ppm						%sat meq
Potassium (K)	M3	50 ppm						K 0.3 0.1
Calcium (Ca)	M3	6590 ppm						Ca 87.4 33.0
Magnesium (Mg)	M3	556 ppm						Mg 12.3 4.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.11
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.5%						
Estimated N Release		174 lbs/acre						
Nitrate Nitrogen	NO3N	8.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51575

Field:

Sample ID: 69

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						41.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	112 ppm						%sat meq
Potassium (K)	M3	83 ppm						K 0.5 0.2
Calcium (Ca)	M3	7323 ppm						Ca 87.6 36.6
Magnesium (Mg)	M3	597 ppm						Mg 11.9 5.0
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.36
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.8%						
Estimated N Release		160 lbs/acre						
Nitrate Nitrogen	NO3N	9.7 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 70 of 90
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Lab No: 51576

Field:

Sample ID: 70

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						41.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	122 ppm						%sat meq
Potassium (K)	M3	62 ppm						K 0.4 0.2
Calcium (Ca)	M3	7340 ppm						Ca 88.9 36.7
Magnesium (Mg)	M3	536 ppm						Mg 10.8 4.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 8.23
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.0%						
Estimated N Release		144 lbs/acre						
Nitrate Nitrogen	NO3N	8.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 71 of 90
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Lab No: 51578

Field:

Sample ID: 71

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						38.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	123 ppm						%sat meq
Potassium (K)	M3	100 ppm						K 0.7 0.3
Calcium (Ca)	M3	6824 ppm						Ca 87.9 34.1
Magnesium (Mg)	M3	528 ppm						Mg 11.3 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.06
Manganese (Mn)								Ca/Mg Ratio: 7.78
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.6%						
Estimated N Release		176 lbs/acre						
Nitrate Nitrogen	NO3N	9.8 ppm						
Ammonium Nitrogen	NH4N	1.1 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51579

Field:

Sample ID: 72

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						37.6 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	113 ppm						%sat meq
Potassium (K)	M3	100 ppm						K 0.7 0.3
Calcium (Ca)	M3	6436 ppm						Ca 85.6 32.2
Magnesium (Mg)	M3	614 ppm						Mg 13.6 5.1
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 6.29
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.3%						
Estimated N Release		150 lbs/acre						
Nitrate Nitrogen	NO3N	13 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51580

Field:

Sample ID: 73

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						34.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	103 ppm						%sat meq
Potassium (K)	M3	60 ppm						K 0.5 0.2
Calcium (Ca)	M3	5904 ppm						Ca 86.8 29.5
Magnesium (Mg)	M3	520 ppm						Mg 12.7 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.83
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.9%						
Estimated N Release		162 lbs/acre						
Nitrate Nitrogen	NO3N	8.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

Client : University of Illinois Urbana-Champaign Chelsea Peterson 1102 S Goodwin Ave (NRES) Urbana IL 61801	Grower : Dept of Natural Resources & Environmenta	Report No: 23-170-0537 Cust No: 02280 Date Printed: 07/03/2023 Date Received : 06/19/2023 PO: Page : 74 of 90
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Lab No: 51581

Field:

Sample ID: 74

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						36.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	114 ppm						%sat meq
Potassium (K)	M3	78 ppm						K 0.6 0.2
Calcium (Ca)	M3	6195 ppm						Ca 86.0 31.0
Magnesium (Mg)	M3	582 ppm						Mg 13.5 4.9
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.37
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.7%						
Estimated N Release		158 lbs/acre						
Nitrate Nitrogen	NO3N	7.3 ppm						
Ammonium Nitrogen	NH4N	2.1 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51582

Field:

Sample ID: 75

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						34.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	130 ppm						%sat meq
Potassium (K)	M3	68 ppm						K 0.5 0.2
Calcium (Ca)	M3	5960 ppm						Ca 87.1 29.8
Magnesium (Mg)	M3	513 ppm						Mg 12.5 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.97
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.0%						
Estimated N Release		144 lbs/acre						
Nitrate Nitrogen	NO3N	10.2 ppm						
Ammonium Nitrogen	NH4N	1.9 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51583

Field:

Sample ID: 76

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						35.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	109 ppm						%sat meq
Potassium (K)	M3	56 ppm						K 0.4 0.1
Calcium (Ca)	M3	6114 ppm						Ca 87.3 30.6
Magnesium (Mg)	M3	518 ppm						Mg 12.3 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.10
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.6%						
Estimated N Release		156 lbs/acre						
Nitrate Nitrogen	NO3N	11.8 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51584

Field:

Sample ID: 77

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						34.7 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	121 ppm						%sat meq
Potassium (K)	M3	60 ppm						K 0.4 0.2
Calcium (Ca)	M3	6077 ppm						Ca 87.6 30.4
Magnesium (Mg)	M3	505 ppm						Mg 12.1 4.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 7.24
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	4.7%						
Estimated N Release		138 lbs/acre						
Nitrate Nitrogen	NO3N	7.5 ppm						
Ammonium Nitrogen	NH4N	1.2 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51585

Field:

Sample ID: 78

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						42.6 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	118 ppm						%sat meq
Potassium (K)	M3	53 ppm						K 0.3 0.1
Calcium (Ca)	M3	7652 ppm						Ca 89.8 38.3
Magnesium (Mg)	M3	505 ppm						Mg 9.9 4.2
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 9.07
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.1%						
Estimated N Release		146 lbs/acre						
Nitrate Nitrogen	NO3N	9.7 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51586

Field:

Sample ID: 79

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						43.1 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	101 ppm						%sat meq
Potassium (K)	M3	76 ppm						K 0.5 0.2
Calcium (Ca)	M3	7797 ppm						Ca 90.5 39.0
Magnesium (Mg)	M3	471 ppm						Mg 9.1 3.9
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.05
Manganese (Mn)								Ca/Mg Ratio: 9.95
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.1%						
Estimated N Release		146 lbs/acre						
Nitrate Nitrogen	NO3N	23.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

Due to the magnesium and/or calcium carbonate levels in the soil, the calculated CEC and cation saturation percentages may not be accurately estimated. If you have questions, please call the lab.



SOIL ANALYSIS

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Lab No: 51587

Field:

Sample ID: 80

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						36.3 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	121 ppm						%sat meq
Potassium (K)	M3	57 ppm						K 0.4 0.1
Calcium (Ca)	M3	6301 ppm						Ca 86.8 31.5
Magnesium (Mg)	M3	558 ppm						Mg 12.8 4.7
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.78
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.1%						
Estimated N Release		146 lbs/acre						
Nitrate Nitrogen	NO3N	6.3 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51589

Field:

Sample ID: 81

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.9						34.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	112 ppm						%sat meq
Potassium (K)	M3	49 ppm						K 0.4 0.1
Calcium (Ca)	M3	6004 ppm						Ca 87.0 30.0
Magnesium (Mg)	M3	525 ppm						Mg 12.7 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.85
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.3%						
Estimated N Release		170 lbs/acre						
Nitrate Nitrogen	NO3N	6.4 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51590

Field:

Sample ID: 82

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.6						34.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	115 ppm						%sat meq
Potassium (K)	M3	53 ppm						K 0.4 0.1
Calcium (Ca)	M3	5867 ppm						Ca 86.3 29.3
Magnesium (Mg)	M3	543 ppm						Mg 13.3 4.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.49
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.6%						
Estimated N Release		156 lbs/acre						
Nitrate Nitrogen	NO3N	6.7 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :

SOIL ANALYSIS

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Lab No: 51591

Field:

Sample ID: 83

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						34.7 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	123 ppm						%sat meq
Potassium (K)	M3	50 ppm						K 0.4 0.1
Calcium (Ca)	M3	6008 ppm						Ca 86.6 30.0
Magnesium (Mg)	M3	541 ppm						Mg 13.0 4.5
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.66
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.5%						
Estimated N Release		154 lbs/acre						
Nitrate Nitrogen	NO3N	4.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51592

Field:

Sample ID: 84

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						35.8 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	129 ppm						%sat meq
Potassium (K)	M3	66 ppm						K 0.5 0.2
Calcium (Ca)	M3	6146 ppm						Ca 85.8 30.7
Magnesium (Mg)	M3	594 ppm						Mg 13.8 5.0
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.22
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.3%						
Estimated N Release		150 lbs/acre						
Nitrate Nitrogen	NO3N	6.7 ppm						
Ammonium Nitrogen	NH4N	1.2 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51593

Field:

Sample ID: 85

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						38.2 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	108 ppm						%sat meq
Potassium (K)	M3	55 ppm						K 0.4 0.1
Calcium (Ca)	M3	6739 ppm						Ca 88.2 33.7
Magnesium (Mg)	M3	521 ppm						Mg 11.4 4.3
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.74
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.2%						
Estimated N Release		148 lbs/acre						
Nitrate Nitrogen	NO3N	9.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51594

Field:

Sample ID: 86

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.7						35.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	103 ppm						%sat meq
Potassium (K)	M3	52 ppm						K 0.4 0.1
Calcium (Ca)	M3	6239 ppm						Ca 88.1 31.2
Magnesium (Mg)	M3	485 ppm						Mg 11.4 4.0
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.73
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.3%						
Estimated N Release		150 lbs/acre						
Nitrate Nitrogen	NO3N	8.1 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51595

Field:

Sample ID: 87

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.9						35.4 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	119 ppm						%sat meq
Potassium (K)	M3	52 ppm						K 0.4 0.1
Calcium (Ca)	M3	6179 ppm						Ca 87.3 30.9
Magnesium (Mg)	M3	527 ppm						Mg 12.4 4.4
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 7.04
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.3%						
Estimated N Release		150 lbs/acre						
Nitrate Nitrogen	NO3N	5.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51596

Field:

Sample ID: 88

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.5						37.0 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	111 ppm						%sat meq
Potassium (K)	M3	57 ppm						K 0.4 0.1
Calcium (Ca)	M3	6420 ppm						Ca 86.8 32.1
Magnesium (Mg)	M3	572 ppm						Mg 12.9 4.8
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.73
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.6%						
Estimated N Release		156 lbs/acre						
Nitrate Nitrogen	NO3N	10.7 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :



SOIL ANALYSIS

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Lab No: 51597

Field:

Sample ID: 89

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.8						35.9 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	126 ppm						%sat meq
Potassium (K)	M3	56 ppm						K 0.4 0.1
Calcium (Ca)	M3	6232 ppm						Ca 86.8 31.2
Magnesium (Mg)	M3	553 ppm						Mg 12.8 4.6
Sulfur (S)								H 0.0 0.0
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.03
Manganese (Mn)								Ca/Mg Ratio: 6.78
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	5.2%						
Estimated N Release		148 lbs/acre						
Nitrate Nitrogen	NO3N	6.6 ppm						
Ammonium Nitrogen	NH4N	1.0 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :	Rec Units:

Comments :



SOIL ANALYSIS

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Lab No: 51598

Field:

Sample ID: 90

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	7.2						37.5 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	94 ppm						%sat meq
Potassium (K)	M3	73 ppm						K 0.5 0.2
Calcium (Ca)	M3	6476 ppm						Ca 86.3 32.4
Magnesium (Mg)	M3	578 ppm						Mg 12.8 4.8
Sulfur (S)								H 0.3 0.1
Boron (B)								
Copper (Cu)								
Iron (Fe)								K/Mg Ratio: 0.04
Manganese (Mn)								Ca/Mg Ratio: 6.74
Zinc (Zn)								
Sodium (Na)								
Soluble Salts								
Organic Matter	LOI	6.5%						
Estimated N Release		174 lbs/acre						
Nitrate Nitrogen	NO3N	14.3 ppm						
Ammonium Nitrogen	NH4N	1.2 ppm						

SOIL FERTILITY GUIDELINES

Crop :

Rec Units:

(lbs)	LIME	(tons)	N	P ₂ O ₅	K ₂ O	Mg	S	B	Cu	Mn	Zn	Fe

Crop :

Rec Units:

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Comments :