

SOIL ANALYSIS



Submitted by **EW50010106**
ISU-VIRGINIA NICHOLS
2501 AGRONOMY HALL
716 FARMHOUSE LN
AMES, IA 50011-1051

Submitted for
VIRGINIA NICHOLS

Date Received
16-Apr-2021

Date Reported
19-Apr-2021

Laboratory Sample #
CB20671

Information Sheet #
S0416-920

Laboratory Turnaround

3 Days

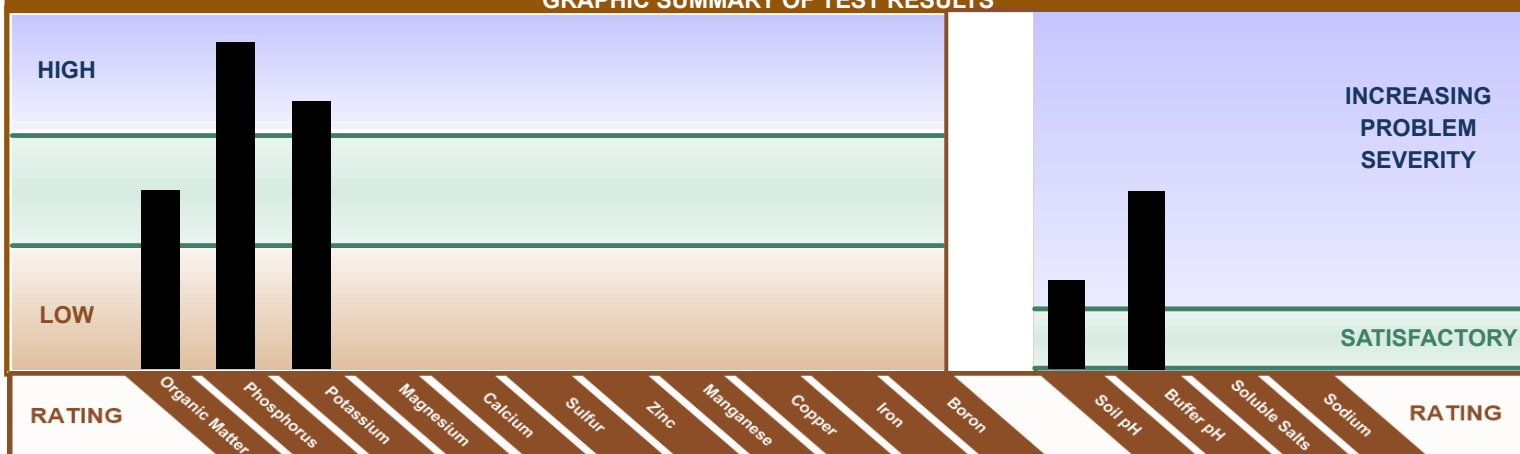
Samples Will Be Stored Until

01-May-2021

Field Identification

AMES

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
1	
Soil pH	6.6
Buffer Index	6.9
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	30
--	--
--	--
--	--
Potassium	206
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.2

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime				Lime				Lime			

Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED			
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil	
--		--		--		--		--			

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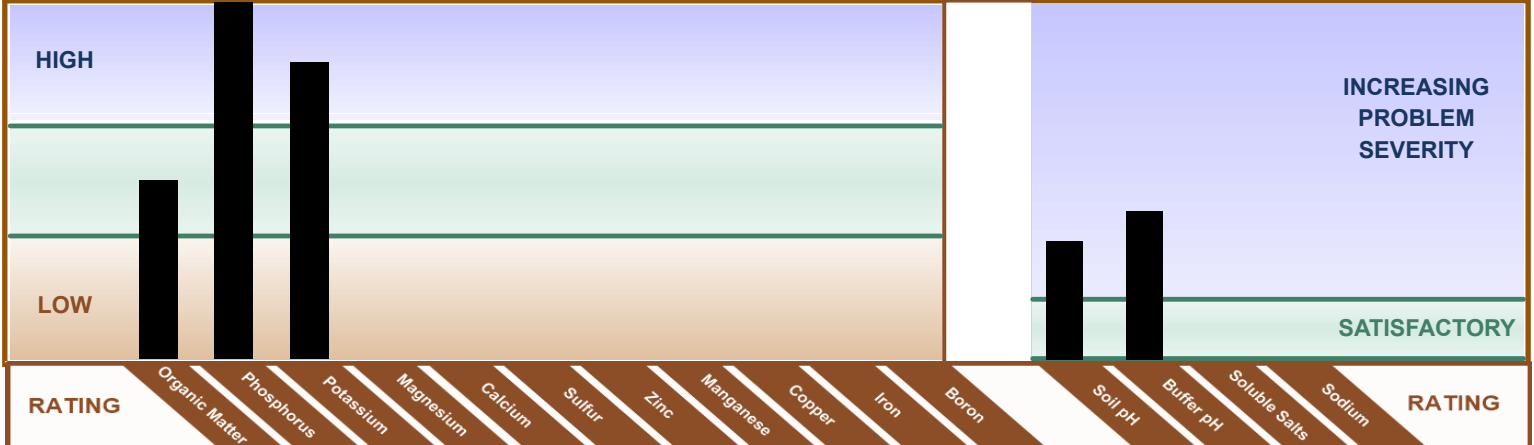
Date Received
16-Apr-2021

Date Reported
19-Apr-2021

Laboratory Sample #
CB20672
 Information Sheet #
S0416-920

Laboratory Turnaround **3 Days** Samples Will Be Stored Until **01-May-2021** Field Identification **AMES**

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
2	
Soil pH	6.4
Buffer Index	7.0
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	43
--	--
--	--
--	--
Potassium	221
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.0

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime				Lime				Lime			

Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
--		--		--		--		--		

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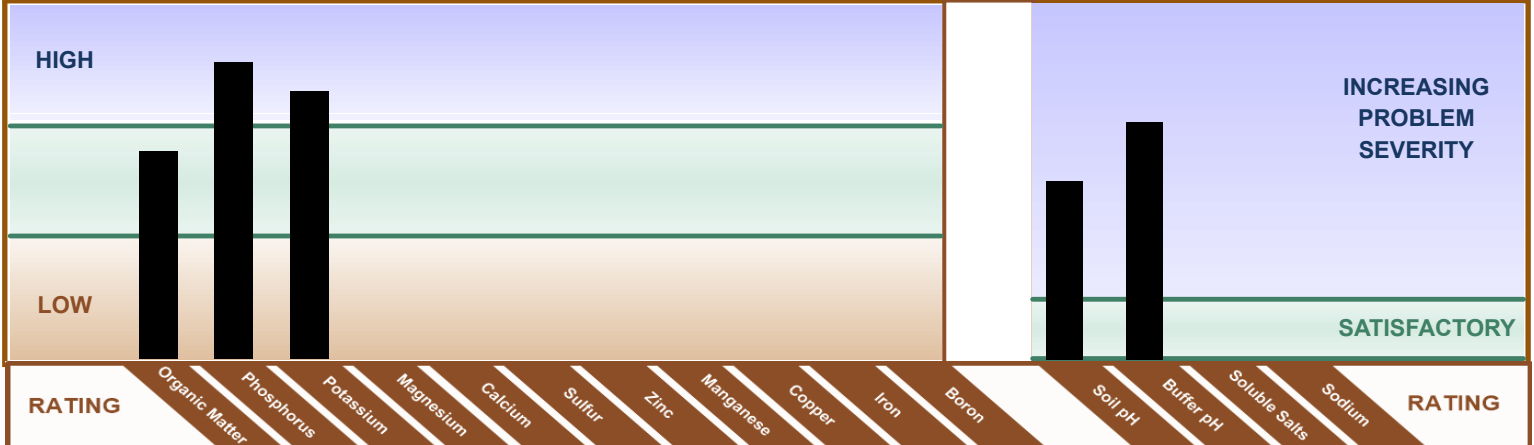
Samples Will Be Stored Until

01-May-2021

Field Identification

AMES

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
3	
Soil pH	6.0
Buffer Index	6.6
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.6
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	28
--	--
--	--
--	--
Potassium	210
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.0

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime To 6.5				Lime To 6.5				Lime To 6.5			
Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.											

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
--		--		--		--		--		

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Submitted for
VIRGINIA NICHOLS



Date Received
16-Apr-2021

Date Reported
19-Apr-2021

Laboratory Sample #
CB20674

Information Sheet #
S0416-920

Laboratory Turnaround

3 Days

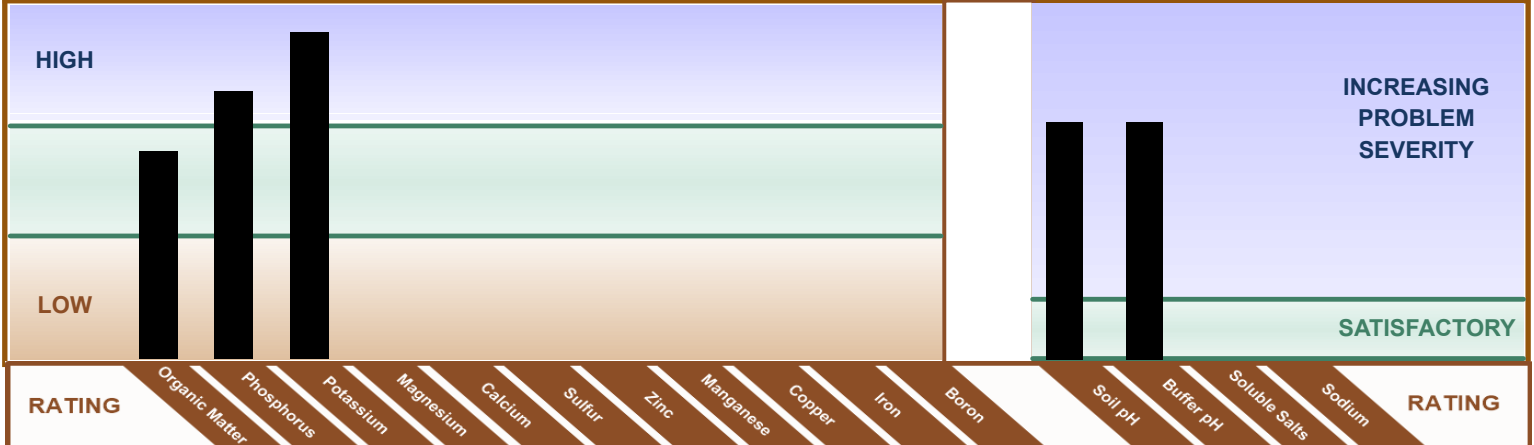
Samples Will Be Stored Until

01-May-2021

Field Identification

AMES

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
4	
Soil pH	5.9
Buffer Index	6.6
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	4.0
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	24
--	--
--	--
--	--
Potassium	227
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.1

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime To 6.5				Lime To 6.5				Lime To 6.5			
Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.											

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
--		--		--		--		--		

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Submitted for
VIRGINIA NICHOLS



Date Received
16-Apr-2021

Date Reported
19-Apr-2021

Laboratory Sample #
CB20675

Information Sheet #
S0416-920

Laboratory Turnaround

3 Days

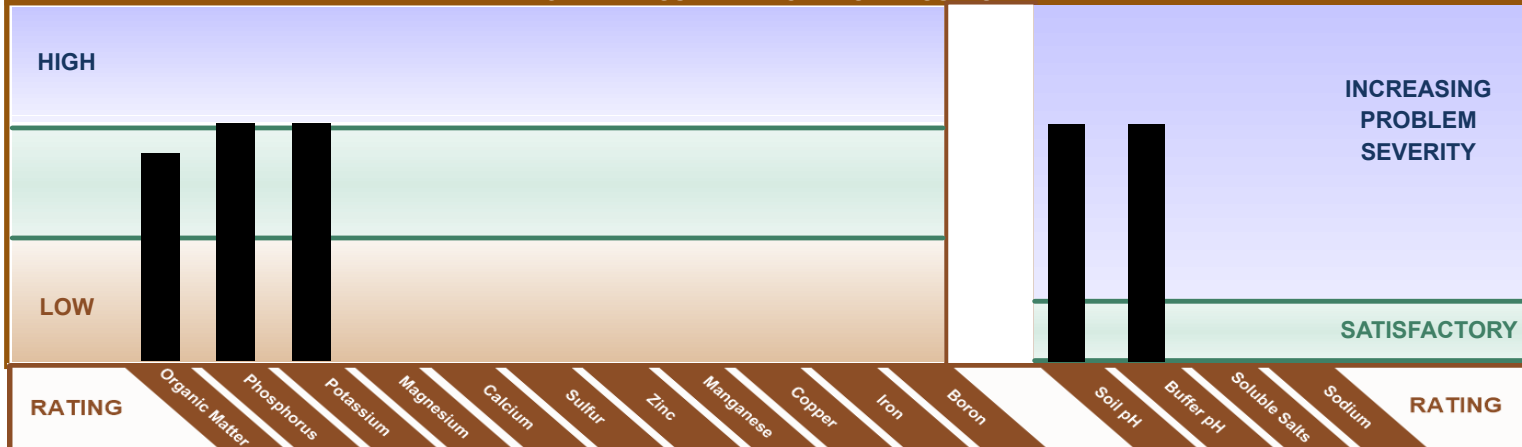
Samples Will Be Stored Until

01-May-2021

Field Identification

AMES

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
5	
Soil pH	5.8
Buffer Index	6.6
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.6
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	20
--	--
--	--
--	--
Potassium	195
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.1

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime To 6.5				Lime To 6.5				Lime To 6.5			
Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.											

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
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Submitted for
VIRGINIA NICHOLS



Date Received
16-Apr-2021

Date Reported
19-Apr-2021

Laboratory Sample #
CB20676

Information Sheet #
S0416-920

Laboratory Turnaround

3 Days

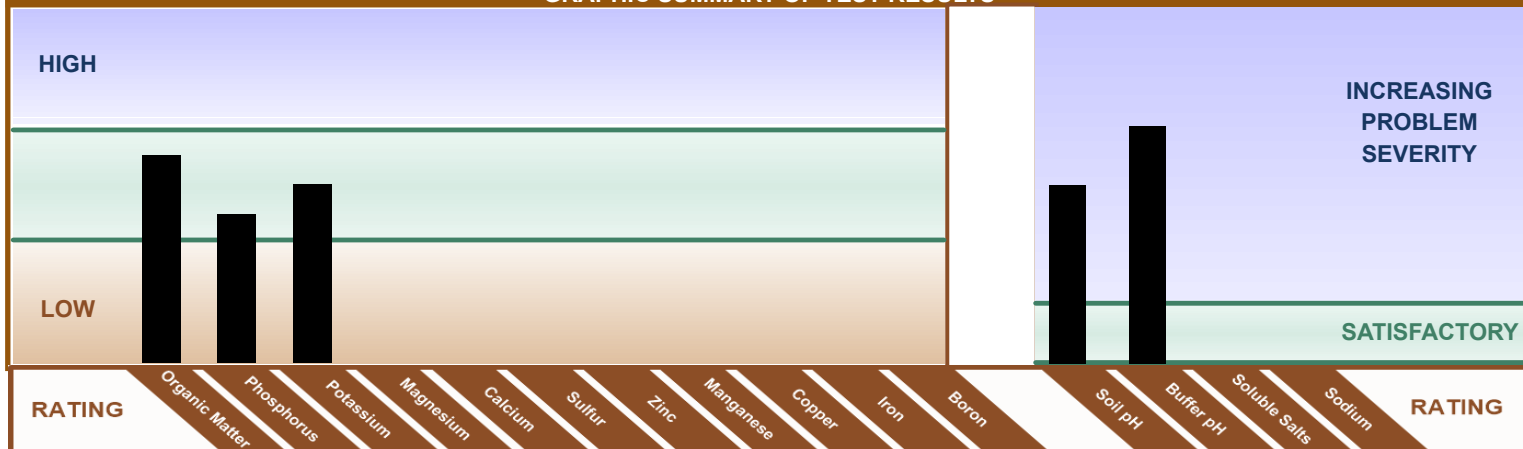
Samples Will Be Stored Until

01-May-2021

Field Identification

AMES

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
6	
Soil pH	6.1
Buffer Index	6.7
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.7
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	17
--	--
--	--
--	--
Potassium	172
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.0

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime To 6.5				Lime To 6.5				Lime To 6.5			
Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.											

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
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VIRGINIA NICHOLS



Date Received
16-Apr-2021

Date Reported
19-Apr-2021

Laboratory Sample #
CB20677

Information Sheet #
S0416-920

Laboratory Turnaround

3 Days

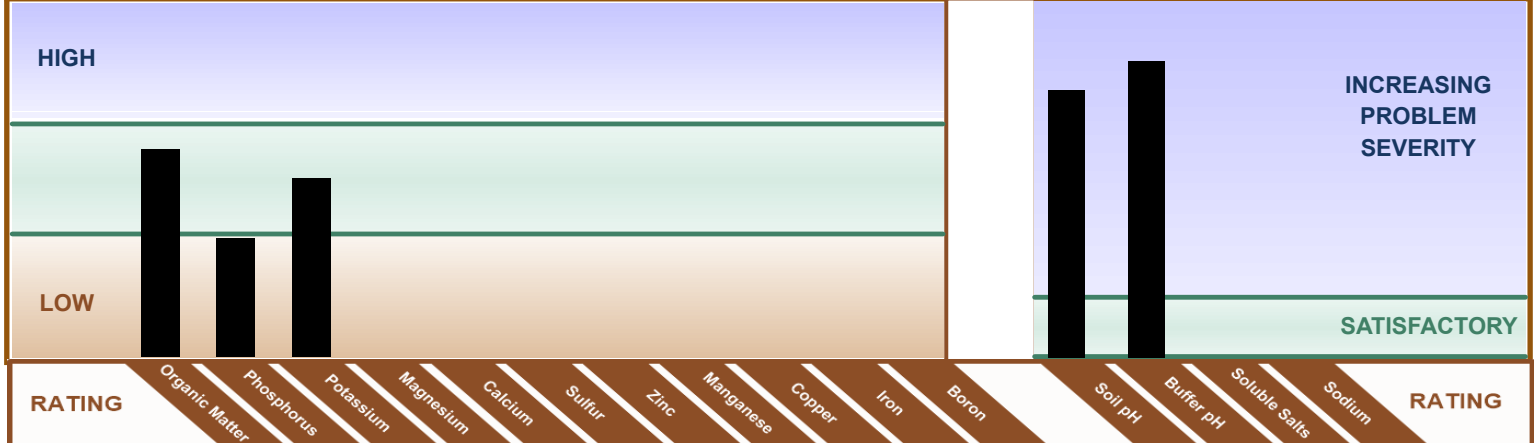
Samples Will Be Stored Until

01-May-2021

Field Identification

AMES

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
7	
Soil pH	5.7
Buffer Index	6.5
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.8
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	16
--	--
--	--
--	--
Potassium	177
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.0

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime To 6.5				Lime To 6.5				Lime To 6.5			

Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
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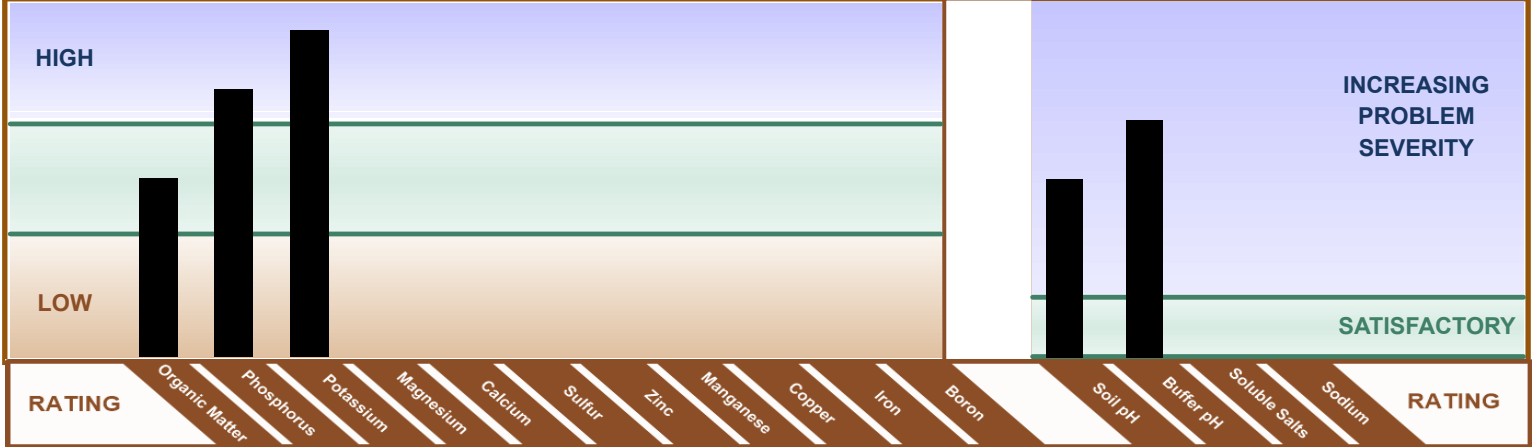
Date Reported
19-Apr-2021

Laboratory Sample #
CB20678

Information Sheet #
S0416-920

Laboratory Turnaround **3 Days** Samples Will Be Stored Until **01-May-2021** Field Identification **AMES**

GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
8	
Soil pH	6.0
Buffer Index	6.6
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.5
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	22
--	--
--	--
--	--
Potassium	228
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--
Bulk Density	1.2

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Lime To 6.5				Lime To 6.5				Lime To 6.5			
Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.											

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
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