

# SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64800**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

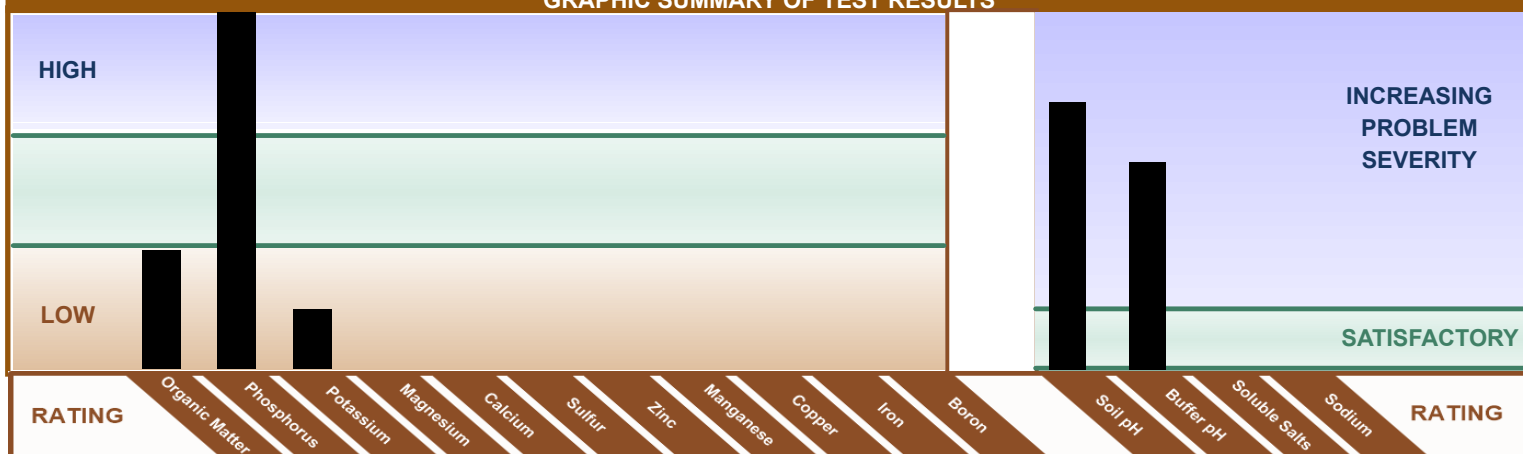
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>1</b>	
Soil pH	<b>5.6</b>
Buffer Index	<b>6.7</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.4</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>37</b>
--	--
--	--
--	--
Potassium	<b>119</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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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# SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64801**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

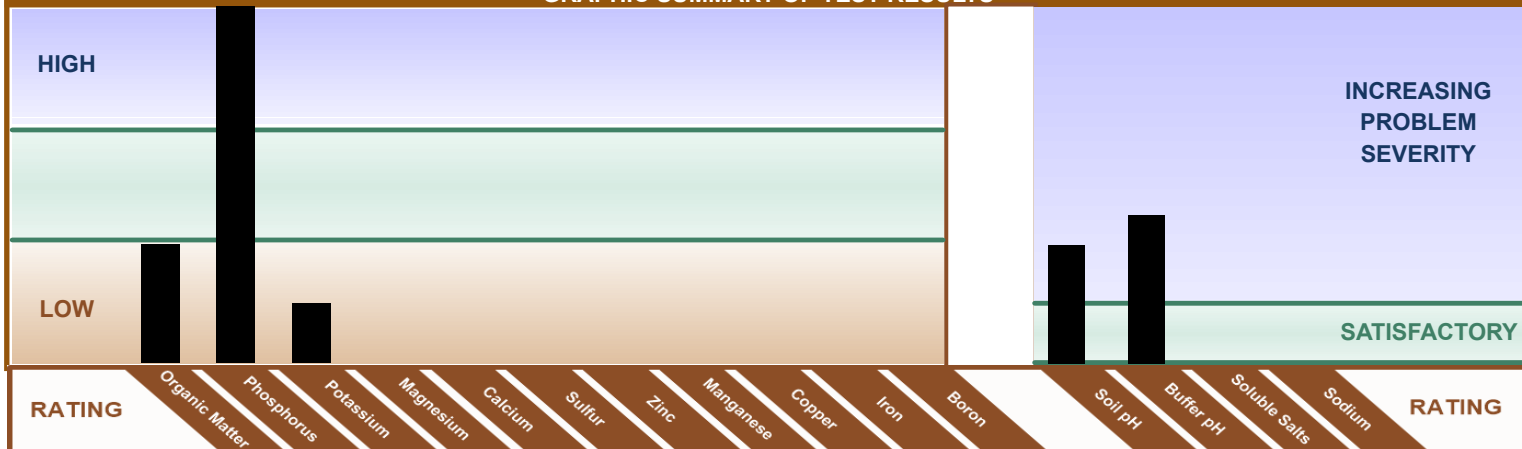
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>2</b>	
Soil pH	<b>6.5</b>
Buffer Index	<b>7.0</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.2</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>41</b>
--	--
--	--
--	--
Potassium	<b>111</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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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# SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64802**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

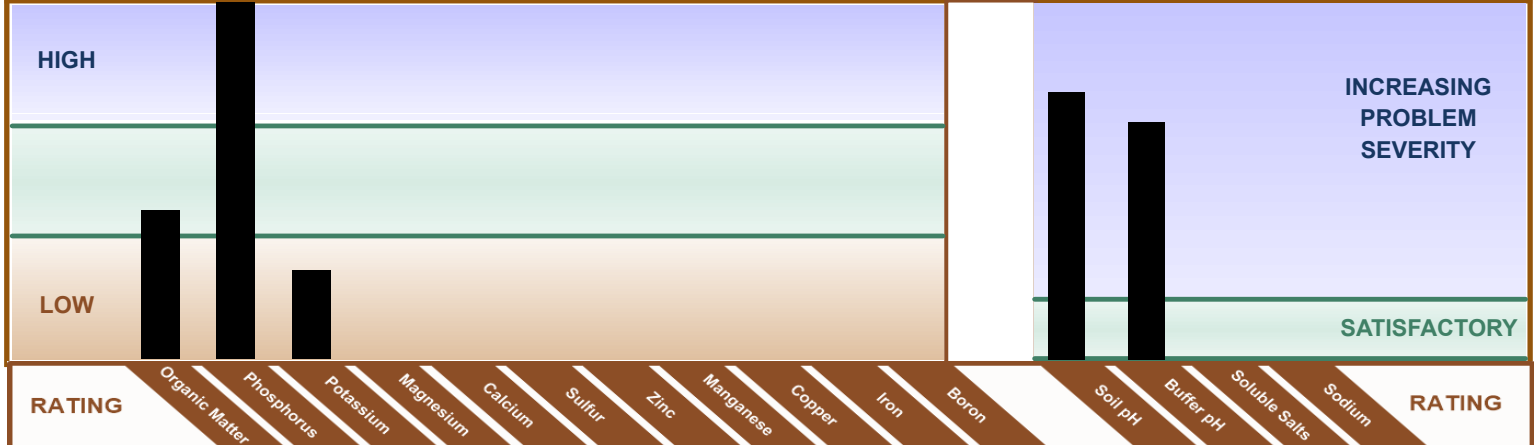
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>3</b>	
Soil pH	<b>5.7</b>
Buffer Index	<b>6.6</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.7</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>48</b>
--	--
--	--
--	--
Potassium	<b>126</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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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# SOIL ANALYSIS



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**VIRGINIA NICHOLS**  
**2501 AGRONOMY HALL**  
**716 FARMHOUSE LN**  
**AMES, IA 50011-1051**

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64803**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

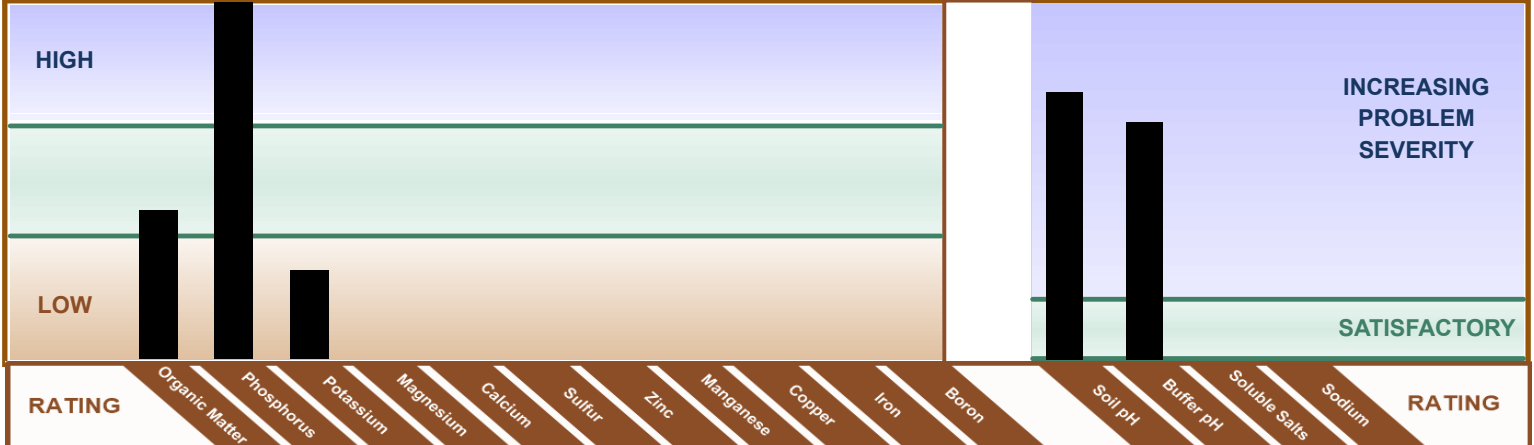
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>4</b>	
Soil pH	<b>5.6</b>
Buffer Index	<b>6.6</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.6</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>58</b>
--	--
--	--
--	--
Potassium	<b>130</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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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# SOIL ANALYSIS



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**VIRGINIA NICHOLS**  
**2501 AGRONOMY HALL**  
**716 FARMHOUSE LN**  
**AMES, IA 50011-1051**

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

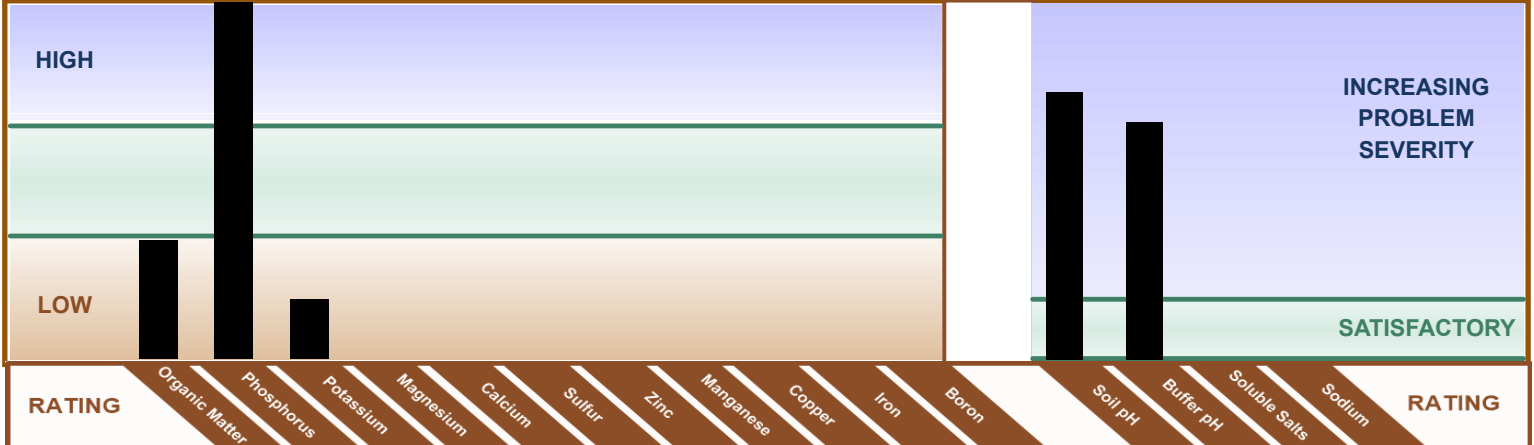
Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64804**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
5	
Soil pH	5.5
Buffer Index	6.6
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	50
--	--
--	--
--	--
Potassium	118
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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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# SOIL ANALYSIS



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**VIRGINIA NICHOLS**  
**2501 AGRONOMY HALL**  
**716 FARMHOUSE LN**  
**AMES, IA 50011-1051**

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64805**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

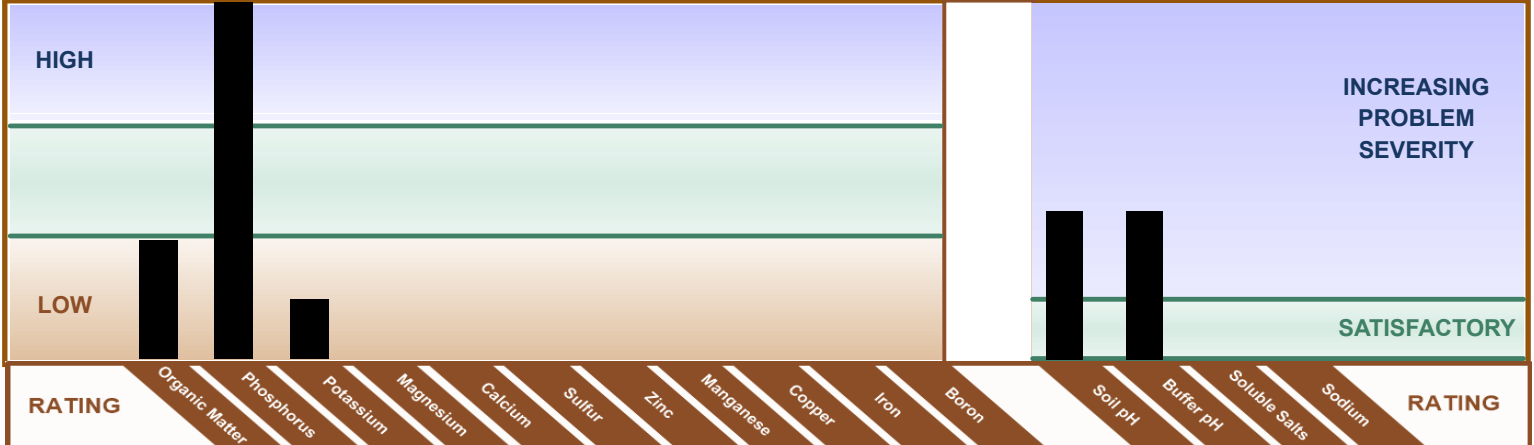
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>6</b>	
Soil pH	<b>6.3</b>
Buffer Index	<b>6.9</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.5</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>46</b>
--	--
--	--
--	--
Potassium	<b>109</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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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# SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64806**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

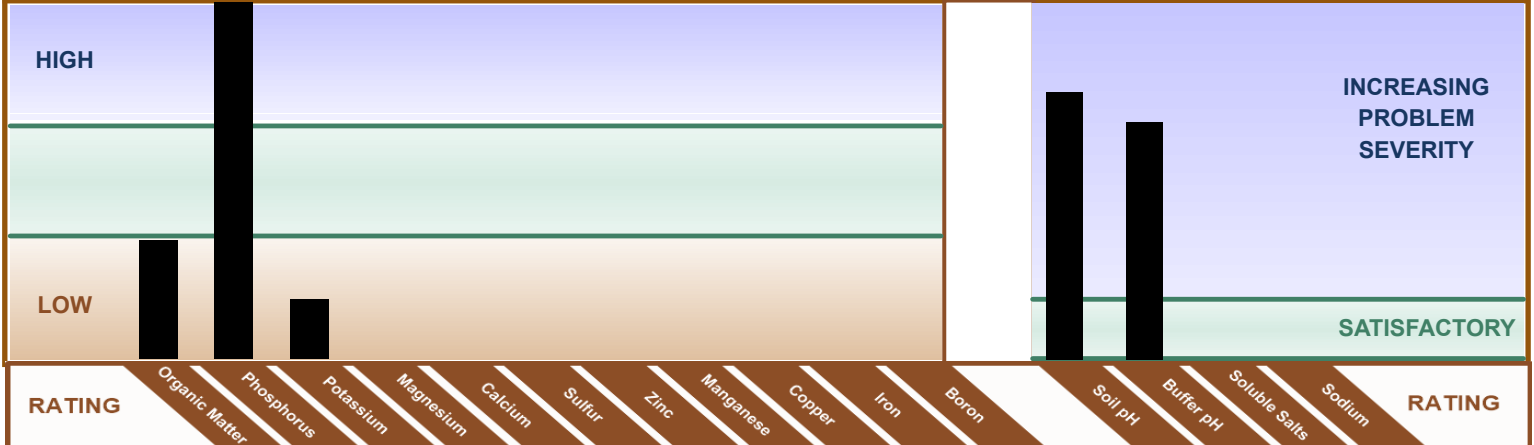
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
7	
Soil pH	5.6
Buffer Index	6.6
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	42
--	--
--	--
--	--
Potassium	102
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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**  
**2501 AGRONOMY HALL**  
**716 FARMHOUSE LN**  
**AMES, IA 50011-1051**

Submitted for  
**VIRGINIA NICHOLS**



Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64807**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

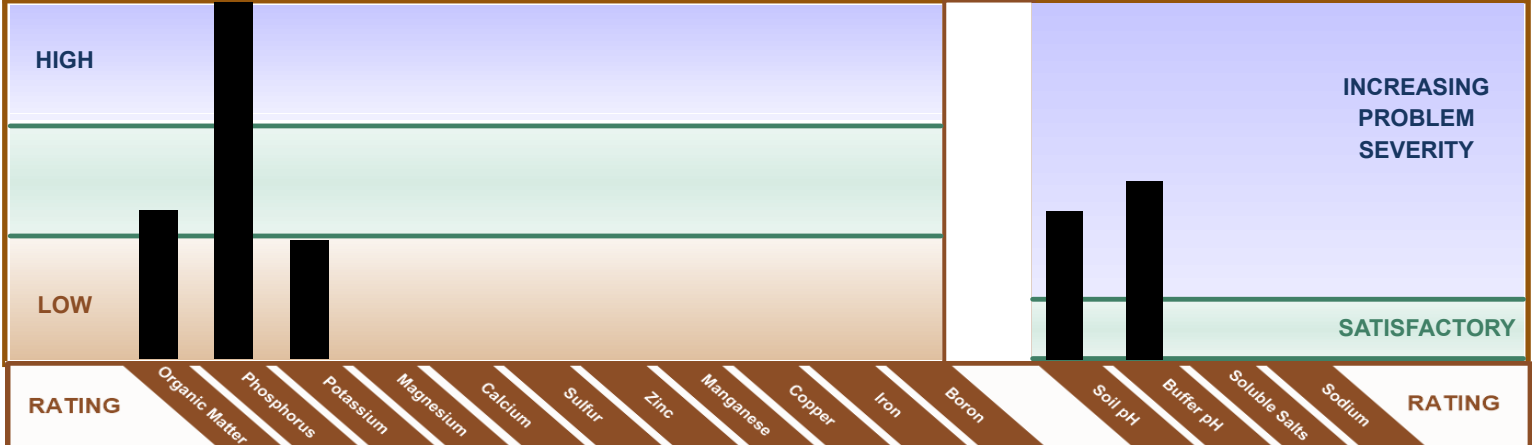
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
8	
Soil pH	6.3
Buffer Index	6.9
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.0
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	101
--	--
--	--
--	--
Potassium	156
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

**DISCLAIMER:** Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.



SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

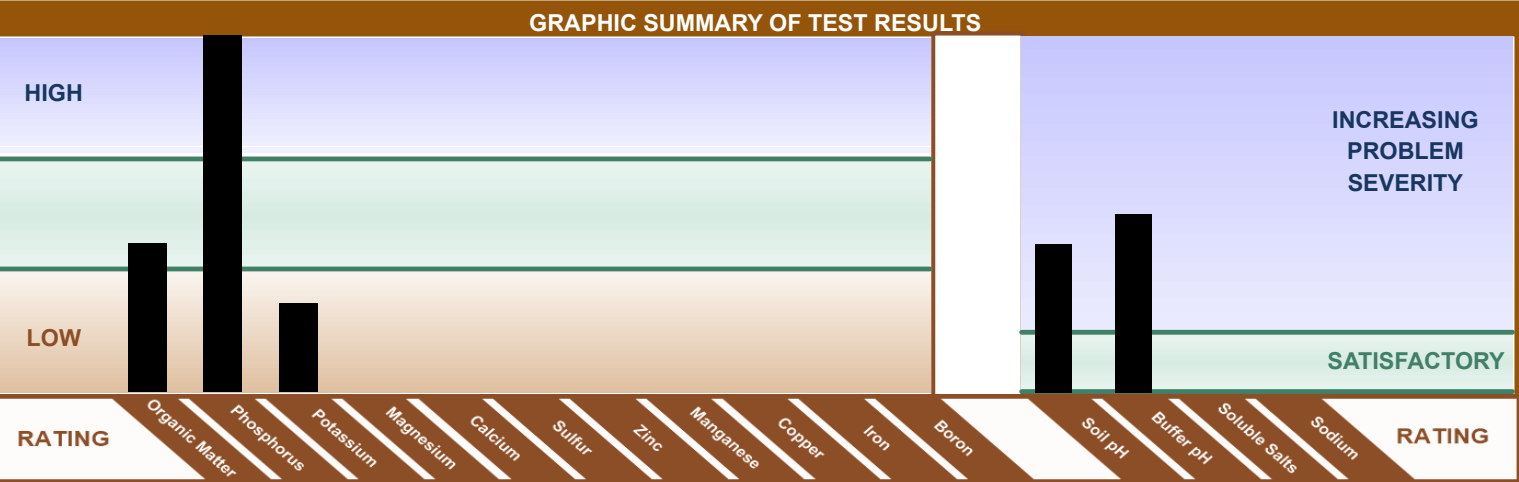
Laboratory Sample #  
**CA64808**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
9	
Soil pH	6.3
Buffer Index	6.9
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.9
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	82
--	--
--	--
--	--
Potassium	131
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

# SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64809**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

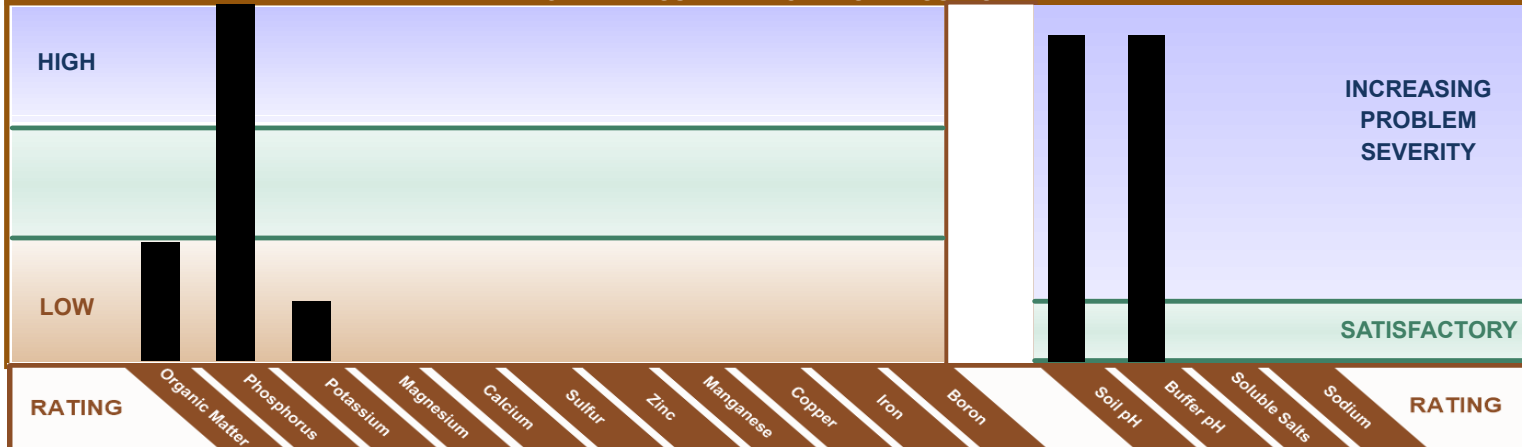
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
10	
Soil pH	5.3
Buffer Index	6.3
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	41
--	--
--	--
--	--
Potassium	96
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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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SOIL ANALYSIS

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

Submitted for  
VIRGINIA NICHOLS



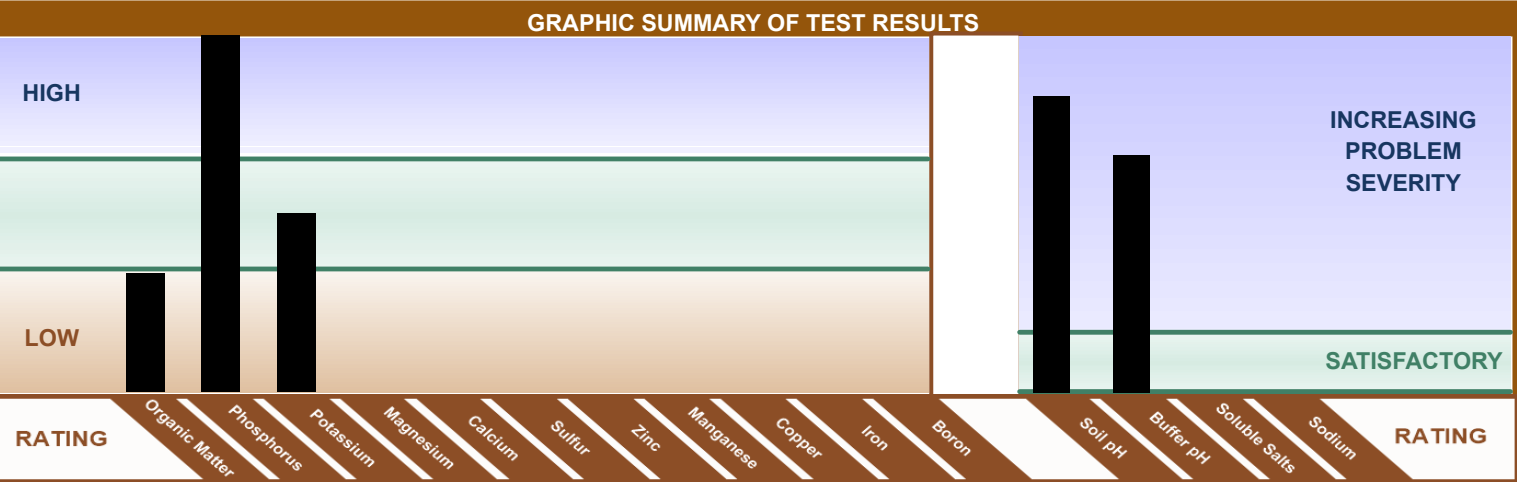
Laboratory Sample #  
CA64810

Date Received  
15-Feb-2021

Date Reported  
17-Feb-2021

Information Sheet #  
S0215-221

Laboratory Turnaround 2 Days Samples Will Be Stored Until 02-Mar-2021 Field Identification ISU



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
11	
Soil pH	5.5
Buffer Index	6.7
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.3
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	68
--	--
--	--
--	--
Potassium	173
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

# SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64811**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

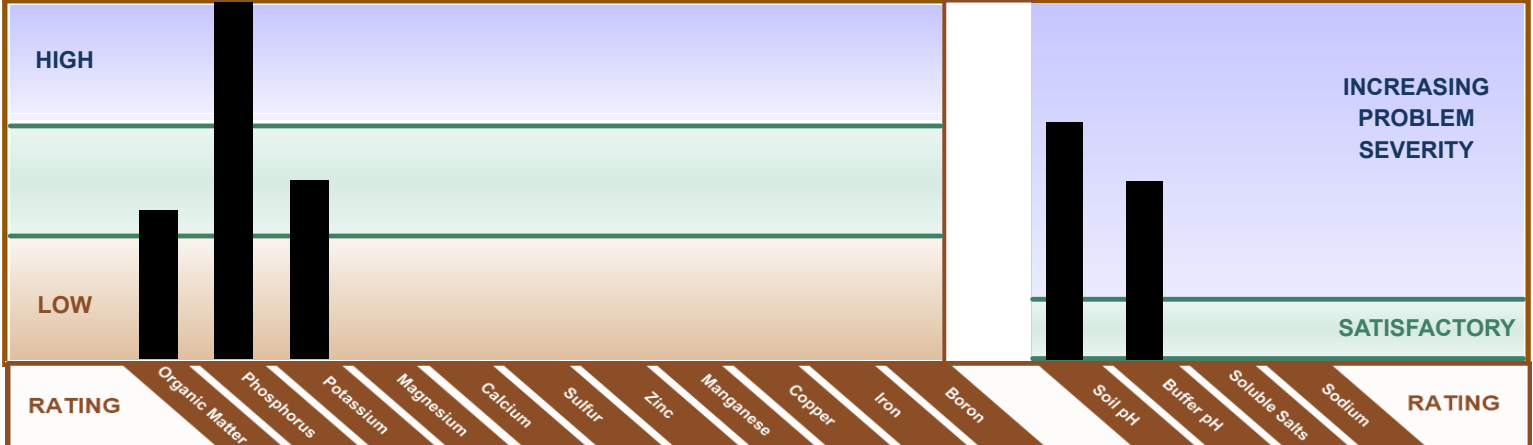
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>12</b>	
Soil pH	<b>5.7</b>
Buffer Index	<b>6.8</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.5</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>49</b>
--	--
--	--
--	--
Potassium	<b>180</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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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# SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64812**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

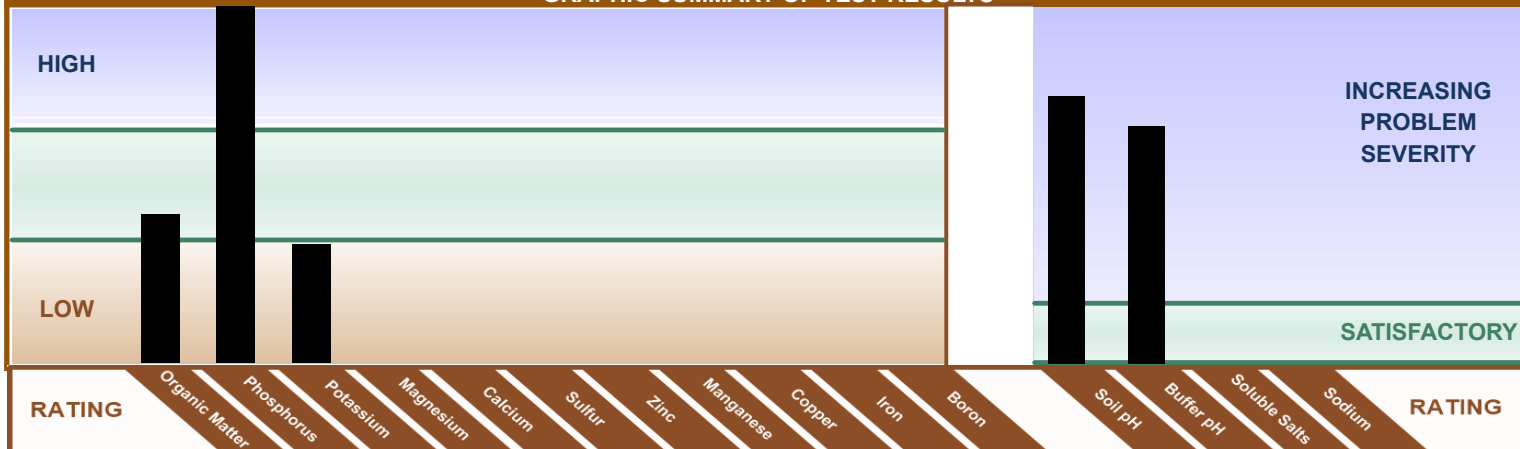
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>13</b>	
Soil pH	<b>5.6</b>
Buffer Index	<b>6.7</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.5</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>44</b>
--	--
--	--
--	--
Potassium	<b>149</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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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# SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64813**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

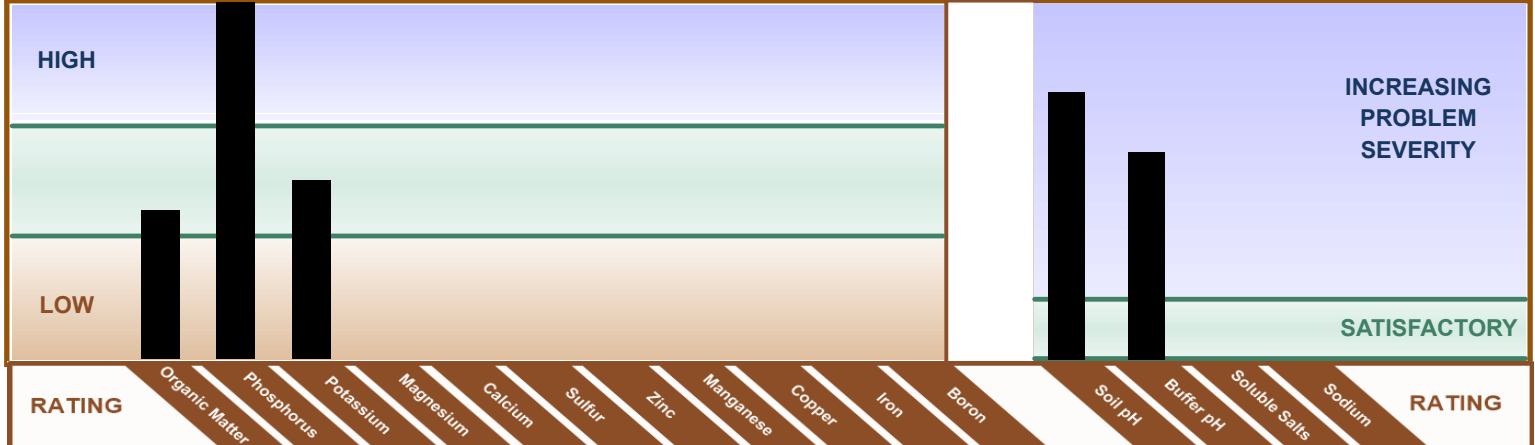
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



### REPORT OF ANALYSIS

YOUR SAMPLE NUMBER	
<b>14</b>	
Soil pH	<b>5.7</b>
Buffer Index	<b>6.7</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.5</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>50</b>
--	--
--	--
--	--
Potassium	<b>181</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

### 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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>		
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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)

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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SOIL ANALYSIS

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

Submitted for  
VIRGINIA NICHOLS



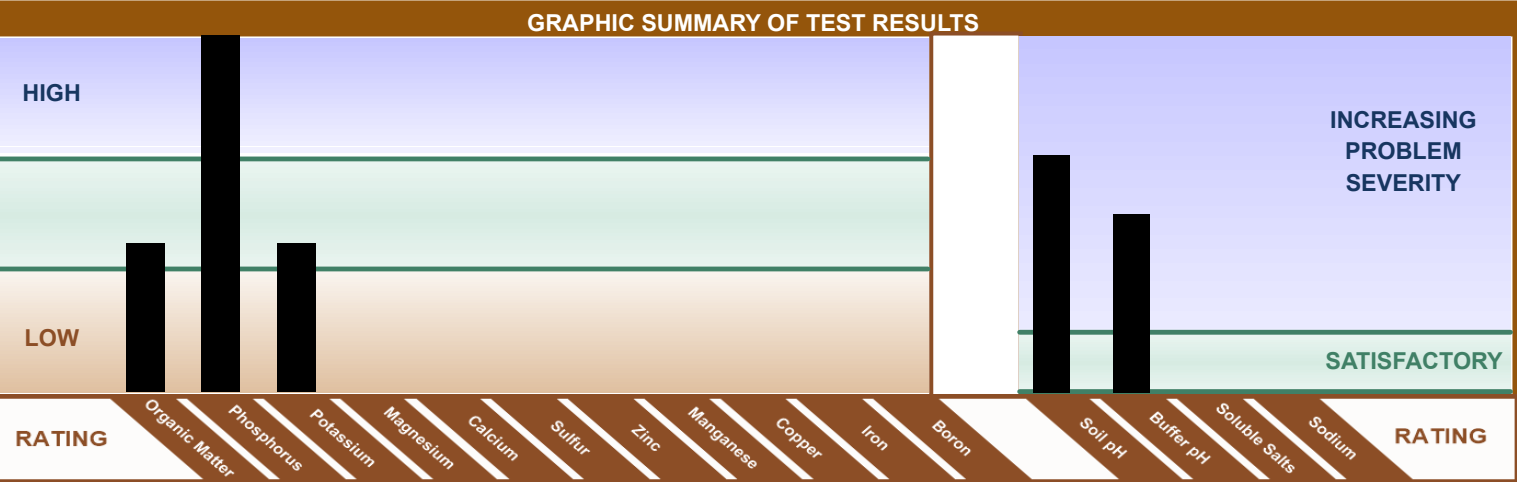
Laboratory Sample #  
CA64814

Date Received  
15-Feb-2021

Date Reported  
17-Feb-2021

Information Sheet #  
S0215-221

Laboratory Turnaround 2 Days Samples Will Be Stored Until 02-Mar-2021 Field Identification ISU



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
15	
Soil pH	5.9
Buffer Index	6.8
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.6
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	53
--	--
--	--
--	--
Potassium	167
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

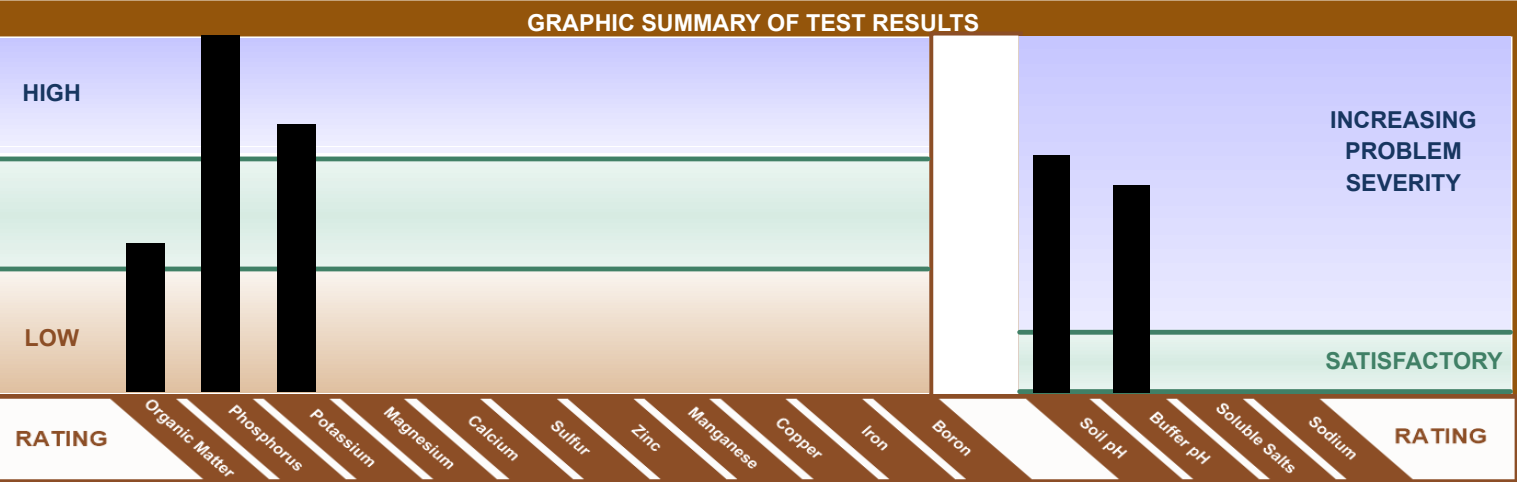
Laboratory Sample #  
**CA64815**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
16	
Soil pH	5.9
Buffer Index	6.7
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.6
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	92
--	--
--	--
--	--
Potassium	206
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		



# SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64816**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

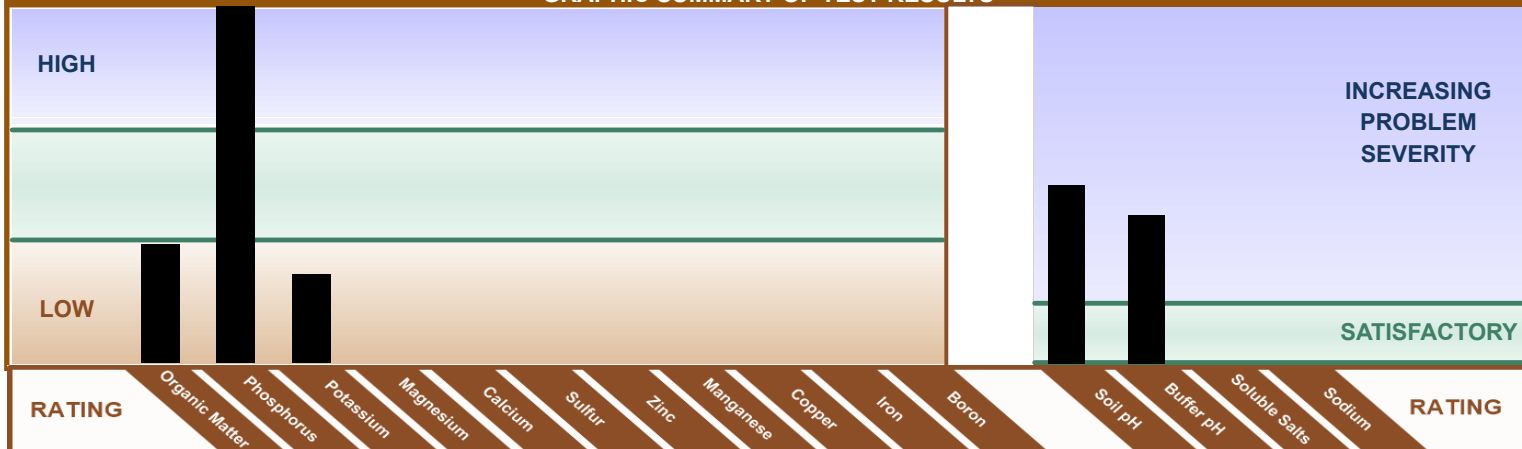
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>17</b>	
Soil pH	<b>6.1</b>
Buffer Index	<b>6.9</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>2.3</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>40</b>
--	--
--	--
--	--
Potassium	<b>136</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

**DISCLAIMER:** Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.

SOIL ANALYSIS

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

Submitted for  
VIRGINIA NICHOLS



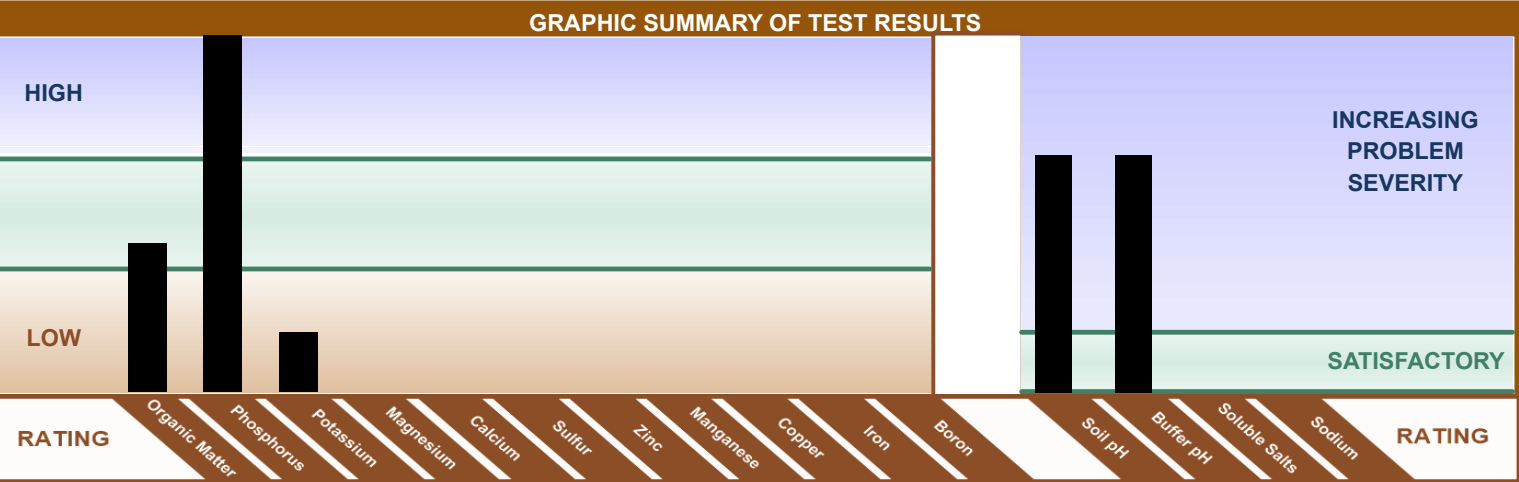
Laboratory Sample #  
CA64817

Date Received  
15-Feb-2021

Date Reported  
17-Feb-2021

Information Sheet #  
S0215-221

Laboratory Turnaround 2 Days Samples Will Be Stored Until 02-Mar-2021 Field Identification ISU



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
18	
Soil pH	5.7
Buffer Index	6.7
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.6
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	39
--	--
--	--
--	--
Potassium	119
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

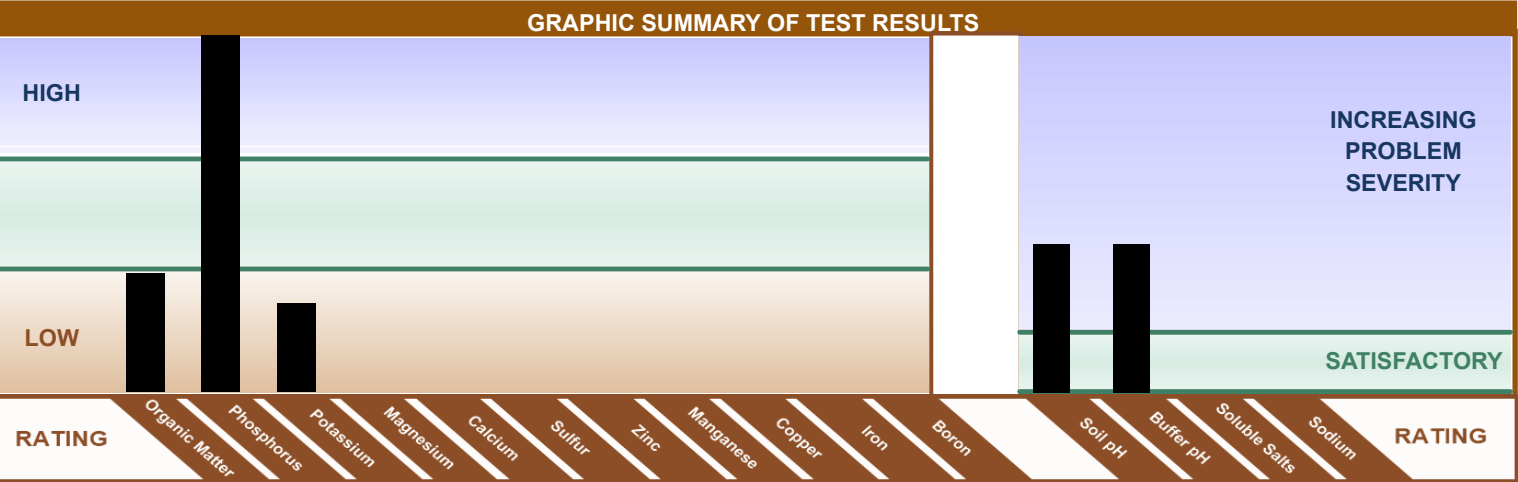
Laboratory Sample #  
**CA64818**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
19	
Soil pH	6.3
Buffer Index	7.0
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.2
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	33
--	--
--	--
--	--
Potassium	139
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

# SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



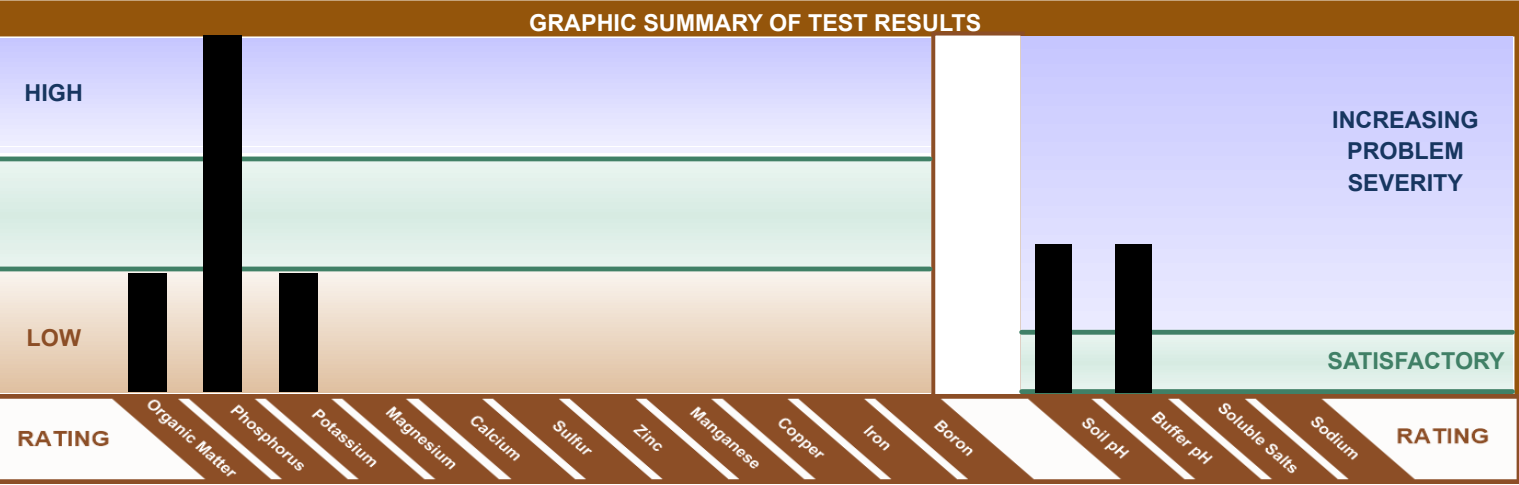
Laboratory Sample #  
**CA64819**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
20	
Soil pH	6.3
Buffer Index	6.9
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.1
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	33
--	--
--	--
--	--
Potassium	149
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

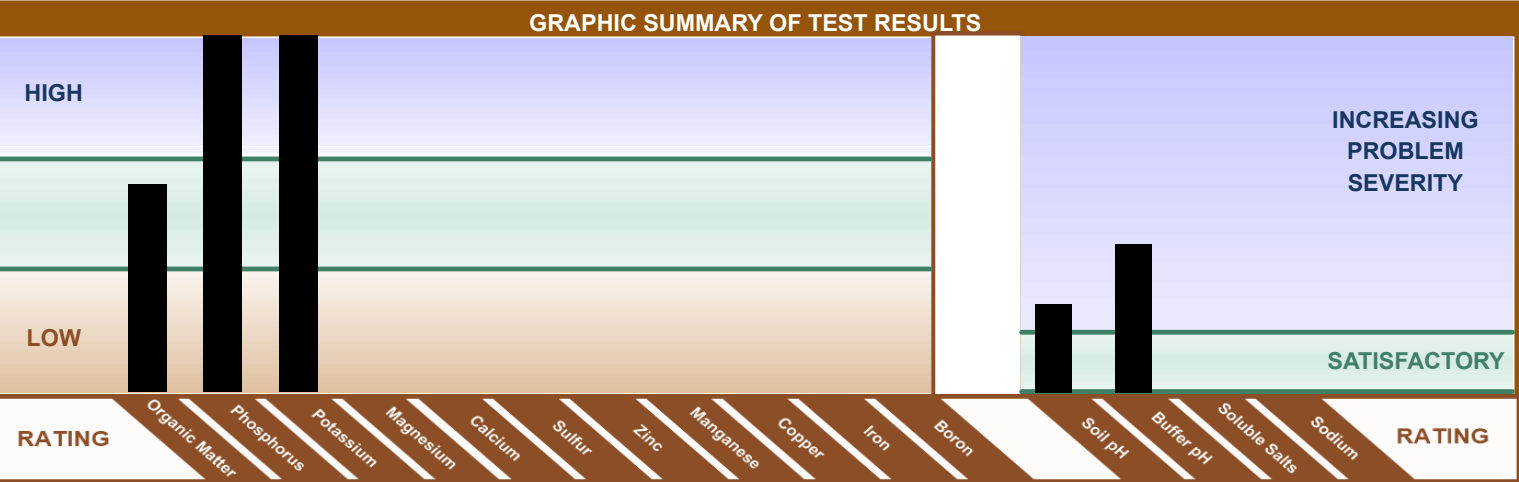
Laboratory Sample #  
**CA64820**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
21	
Soil pH	6.7
Buffer Index	7.0
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	53
--	--
--	--
--	--
Potassium	269
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

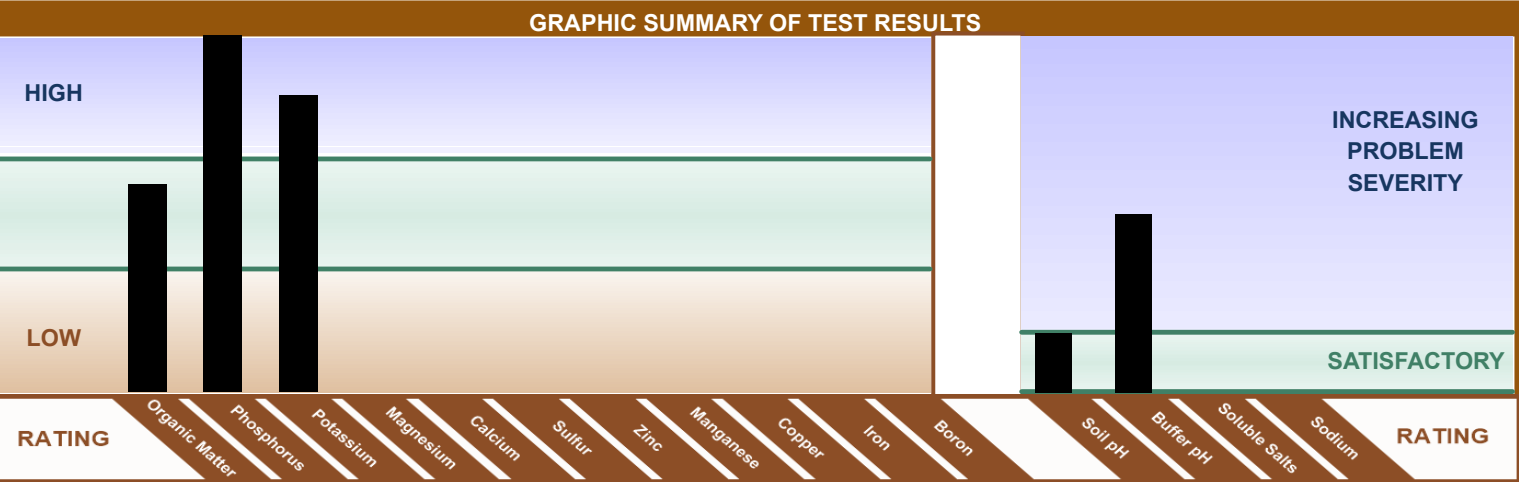
Laboratory Sample #  
**CA64822**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
22	
Soil pH	6.7
Buffer Index	6.9
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	33
--	--
--	--
--	--
Potassium	213
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

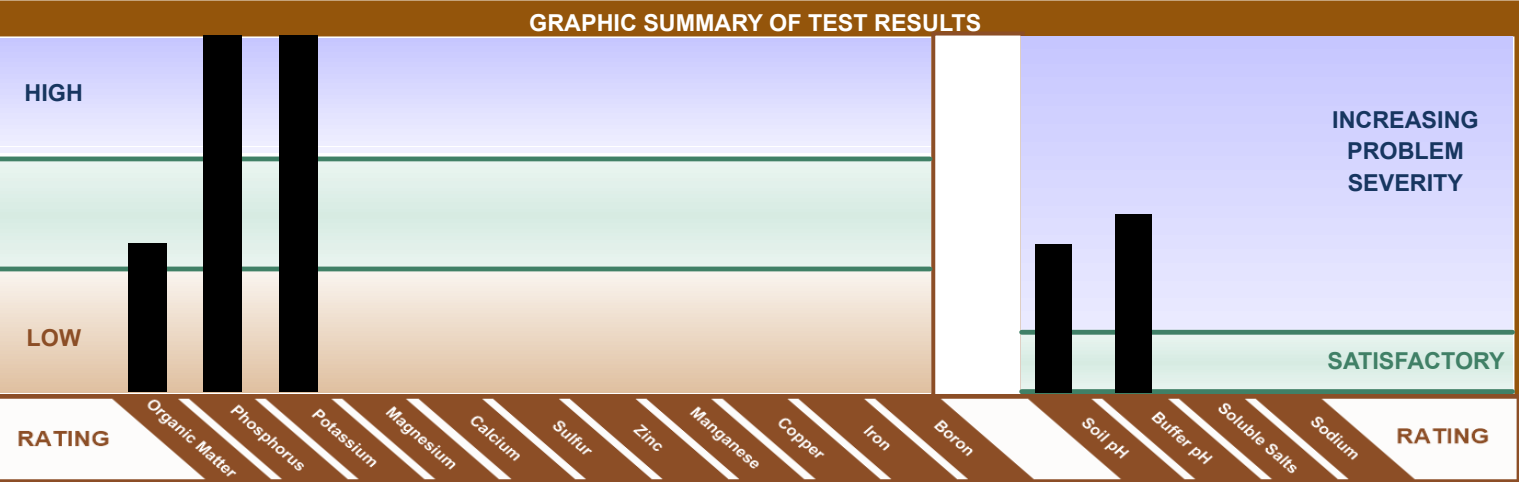
Laboratory Sample #  
**CA64823**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
23	
Soil pH	6.3
Buffer Index	6.8
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.8
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	36
--	--
--	--
--	--
Potassium	296
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS

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

Submitted for  
VIRGINIA NICHOLS



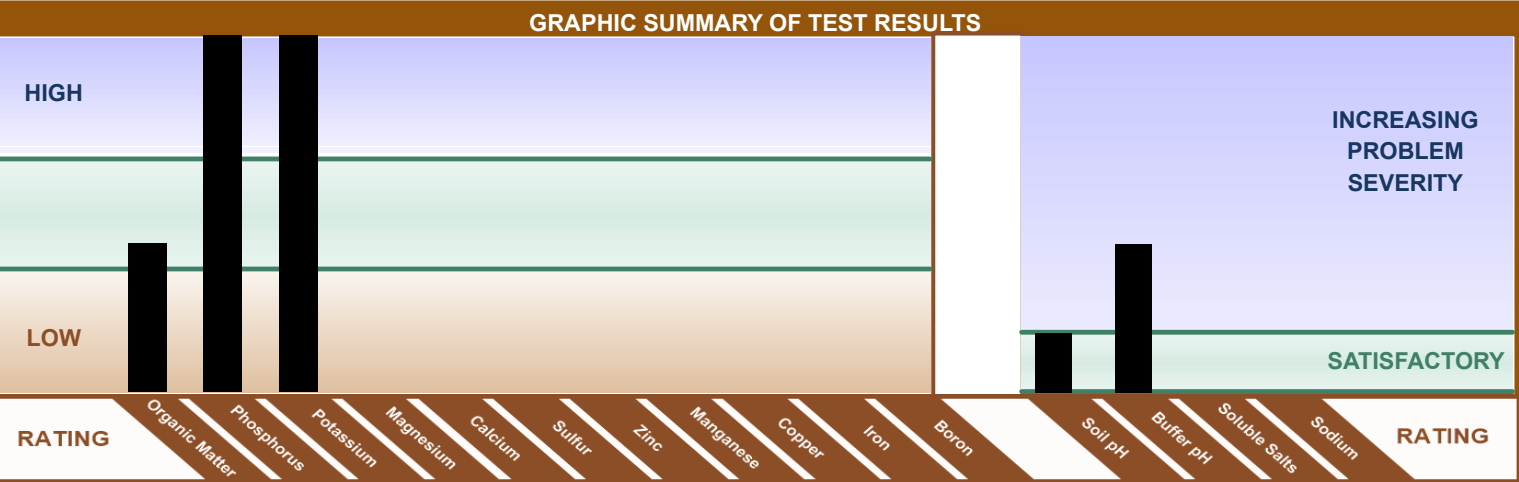
Laboratory Sample #  
CA64824

Date Received  
15-Feb-2021

Date Reported  
17-Feb-2021

Information Sheet #  
S0215-221

Laboratory Turnaround 2 Days Samples Will Be Stored Until 02-Mar-2021 Field Identification ISU



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
24	
Soil pH	6.8
Buffer Index	7.0
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.0
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	69
--	--
--	--
--	--
Potassium	548
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		



SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



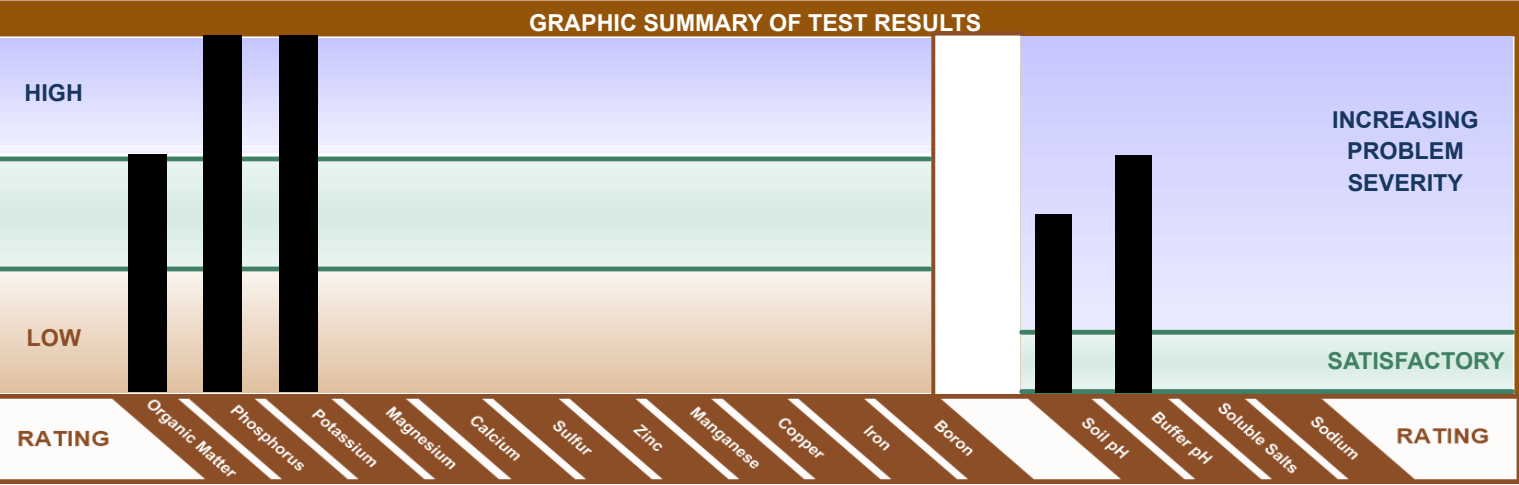
Laboratory Sample #  
**CA64825**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
25	
Soil pH	6.1
Buffer Index	6.6
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	4.3
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	85
--	--
--	--
--	--
Potassium	362
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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
--		--		--		--		--		

# SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64826**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

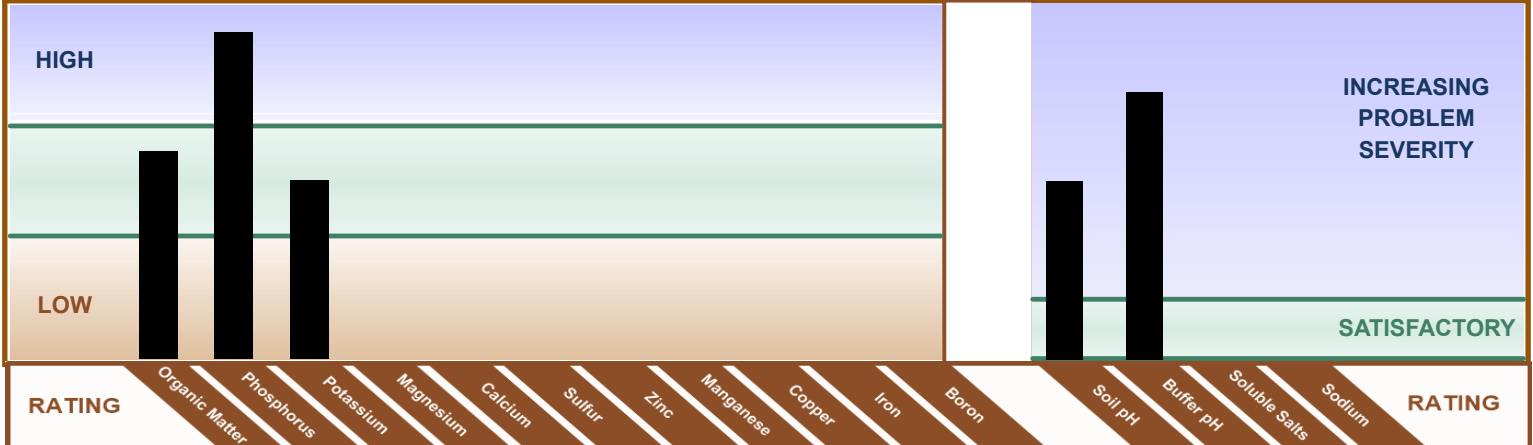
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>26</b>	
Soil pH	<b>6.1</b>
Buffer Index	<b>6.5</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>3.8</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>31</b>
--	--
--	--
--	--
Potassium	<b>171</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

**DISCLAIMER:** Data and information in this report are intended solely for the individual(s) for whom samples were submitted. Reproduction of this report must be in its entirety. Levels listed are guidelines only. Data was reported based on standard laboratory procedures and deviations.

SOIL ANALYSIS



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

Submitted for  
**VIRGINIA NICHOLS**

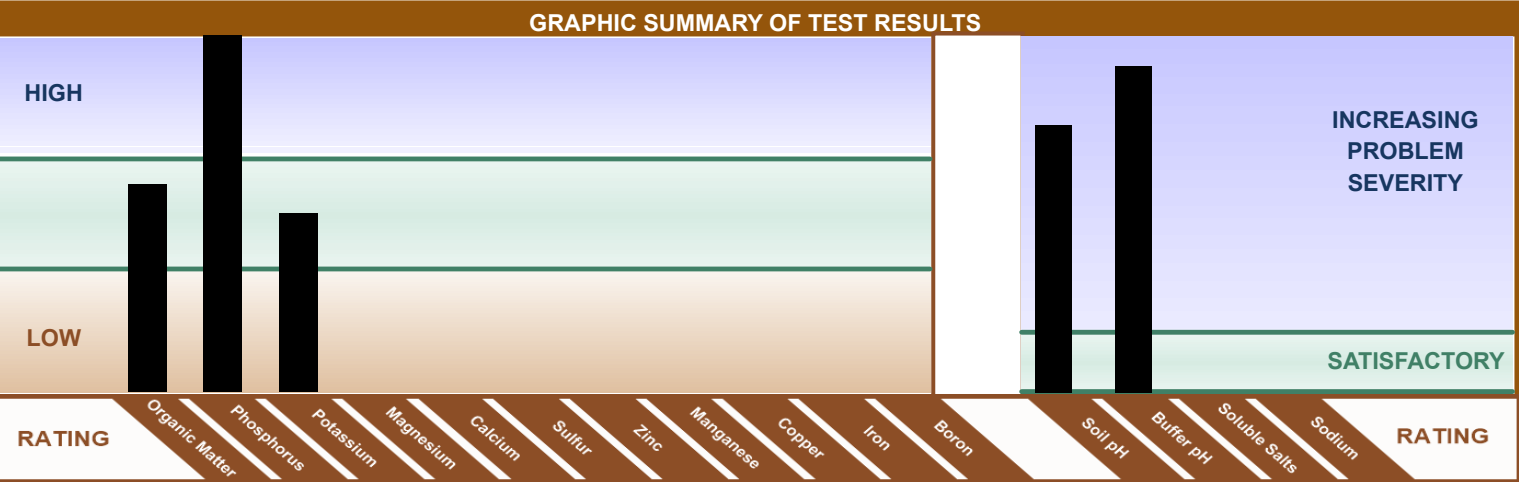
Laboratory Sample #  
**CA64827**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
27	
Soil pH	5.7
Buffer Index	6.2
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.9
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	48
--	--
--	--
--	--
Potassium	172
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS

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

Date Received  
**15-Feb-2021**

Submitted for  
**VIRGINIA NICHOLS**

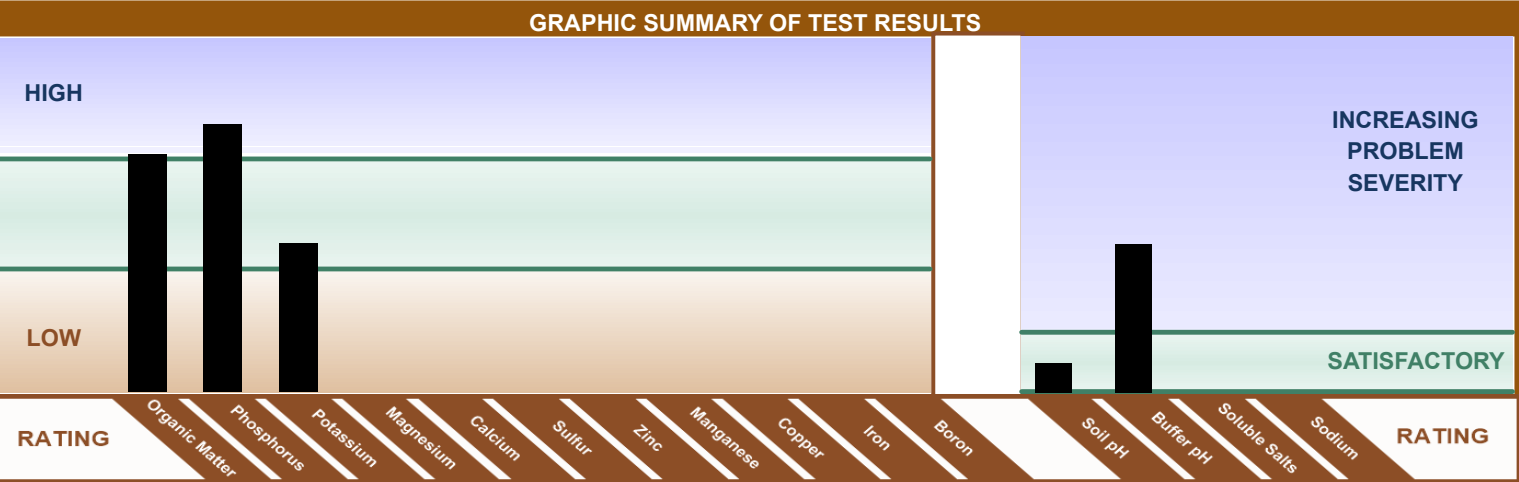
Date Reported  
**17-Feb-2021**



Laboratory Sample #  
**CA64828**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
28	
Soil pH	7.0
Buffer Index	7.0
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	4.1
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	23
--	--
--	--
--	--
Potassium	168
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

# SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Laboratory Sample #  
**CA64829**

Information Sheet #  
**S0215-221**

Laboratory Turnaround

**2 Days**

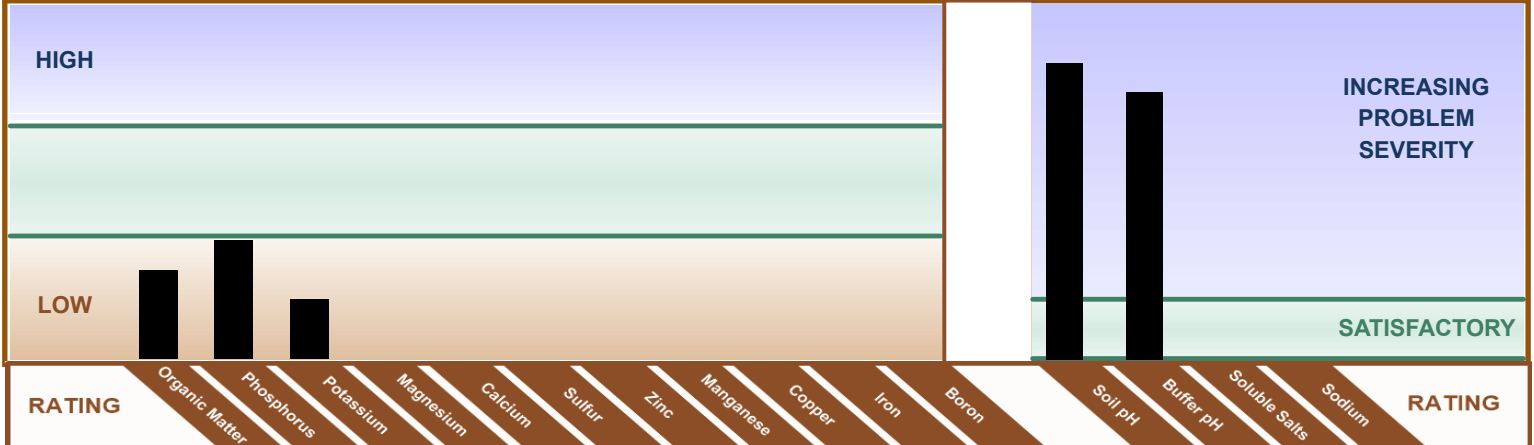
Samples Will Be Stored Until

**02-Mar-2021**

Field Identification

**ISU**

## GRAPHIC SUMMARY OF TEST RESULTS



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
<b>29</b>	
Soil pH	<b>5.4</b>
Buffer Index	<b>6.6</b>
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	<b>1.8</b>
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	<b>14</b>
--	--
--	--
--	--
Potassium	<b>98</b>
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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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SOIL ANALYSIS

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

Submitted for  
VIRGINIA NICHOLS



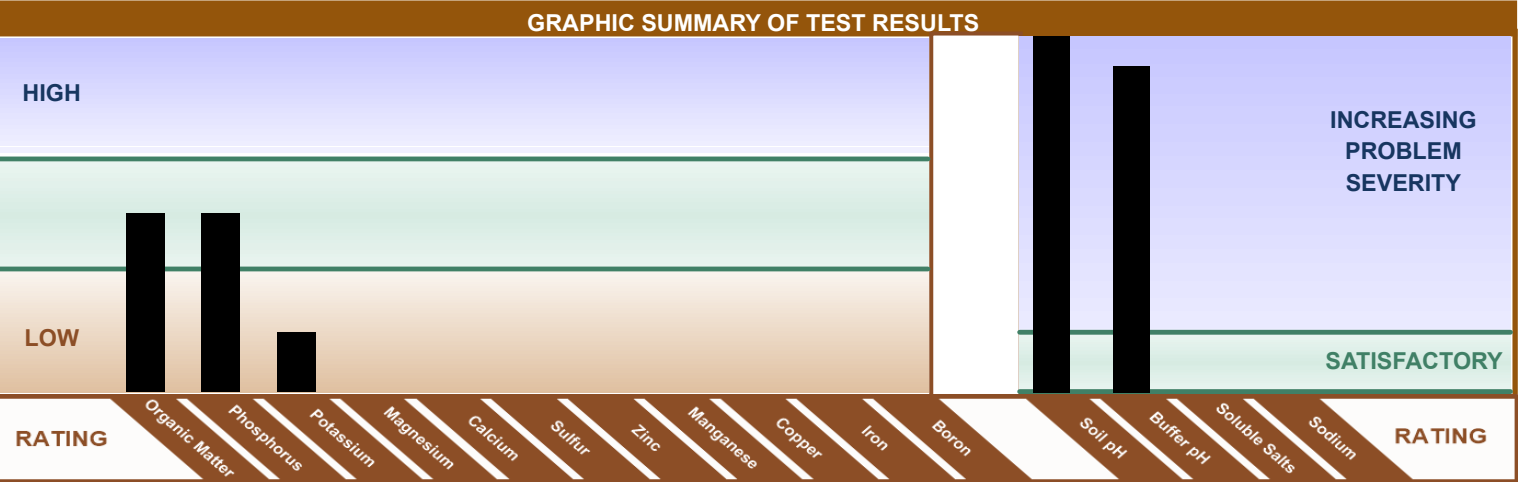
Laboratory Sample #  
CA64830

Date Received  
15-Feb-2021

Date Reported  
17-Feb-2021

Information Sheet #  
S0215-221

Laboratory Turnaround 2 Days Samples Will Be Stored Until 02-Mar-2021 Field Identification ISU



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
30	
Soil pH	5.0
Buffer Index	6.2
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.3
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	18
--	--
--	--
--	--
Potassium	70
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS

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

Date Received  
**15-Feb-2021**

Submitted for  
**VIRGINIA NICHOLS**

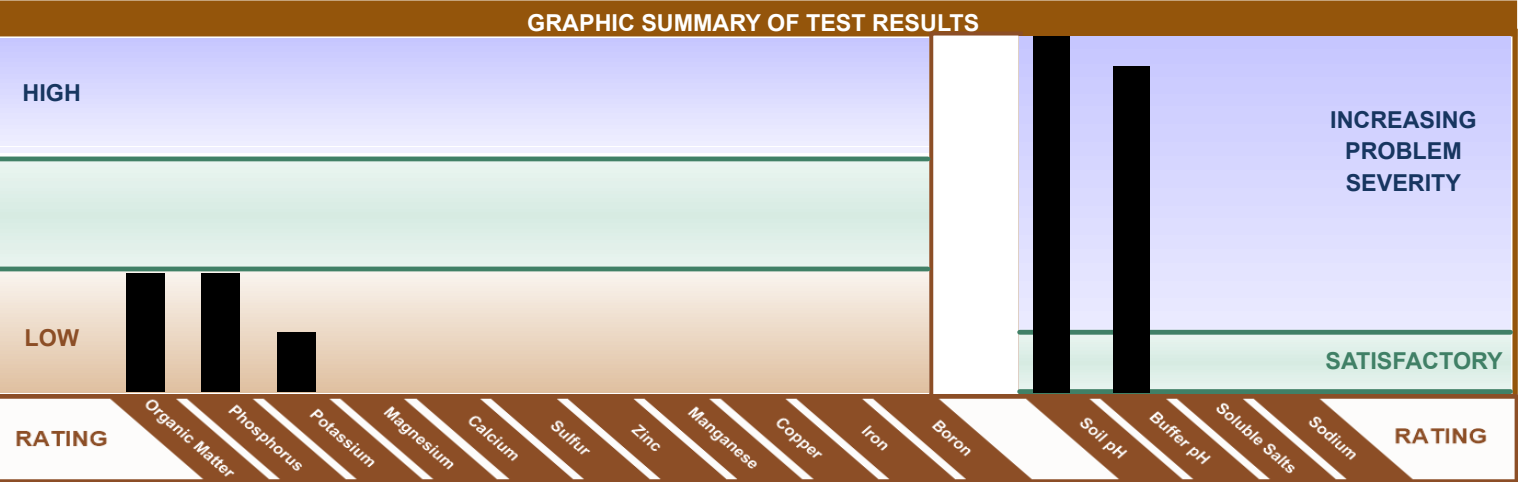
Date Reported  
**17-Feb-2021**



Laboratory Sample #  
**CA64831**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
31	
Soil pH	4.7
Buffer Index	6.1
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	2.2
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	15
--	--
--	--
--	--
Potassium	67
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS

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

Submitted for  
VIRGINIA NICHOLS



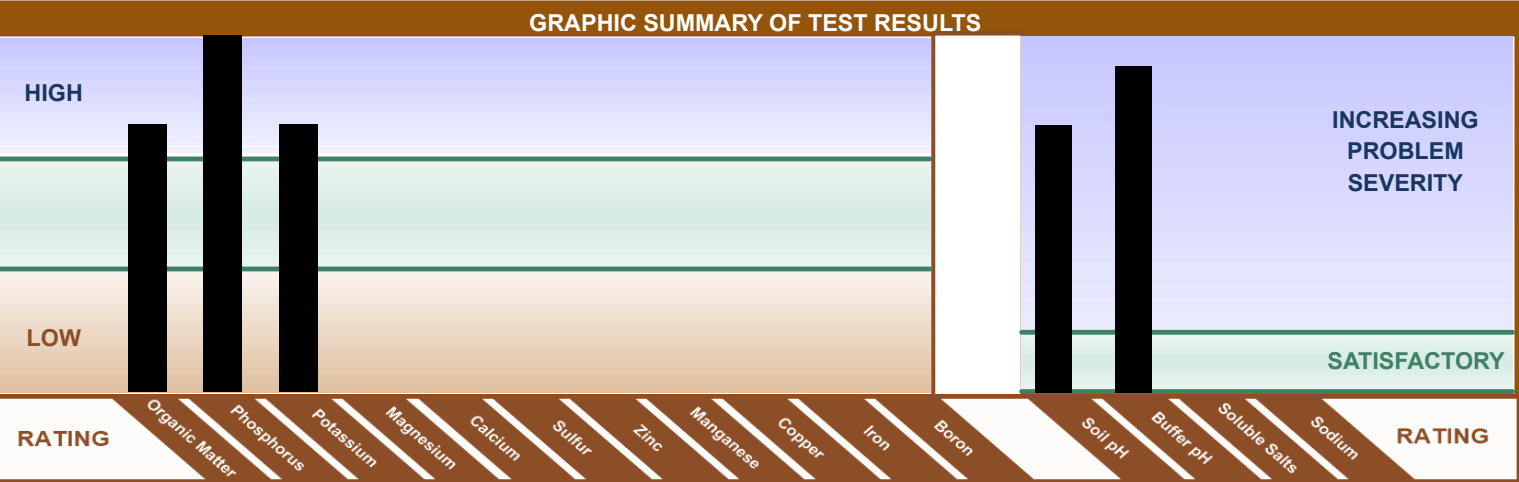
Laboratory Sample #  
CA64832

Date Received  
15-Feb-2021

Date Reported  
17-Feb-2021

Information Sheet #  
S0215-221

Laboratory Turnaround 2 Days Samples Will Be Stored Until 02-Mar-2021 Field Identification ISU



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
32	
Soil pH	5.6
Buffer Index	6.4
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	4.6
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	56
--	--
--	--
--	--
Potassium	209
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		



SOIL ANALYSIS

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

Submitted for  
**VIRGINIA NICHOLS**



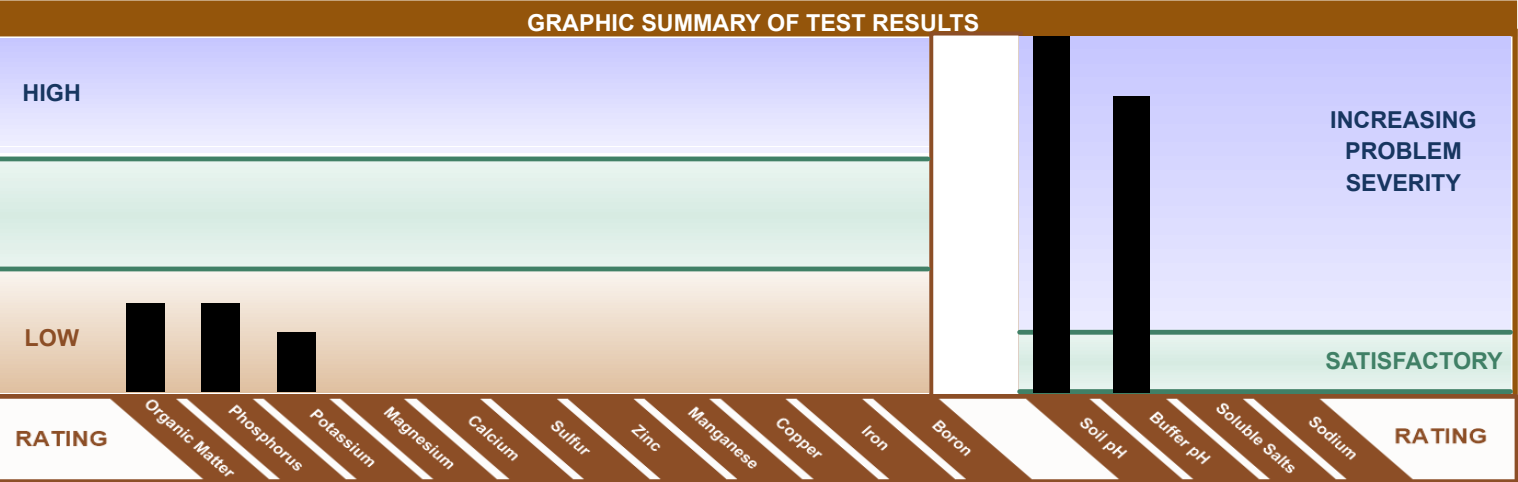
Laboratory Sample #  
**CA64833**

Date Received  
**15-Feb-2021**

Date Reported  
**17-Feb-2021**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
33	
Soil pH	5.1
Buffer Index	6.4
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	1.8
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	12
--	--
--	--
--	--
Potassium	80
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS

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

Date Received  
**15-Feb-2021**

Submitted for  
**VIRGINIA NICHOLS**

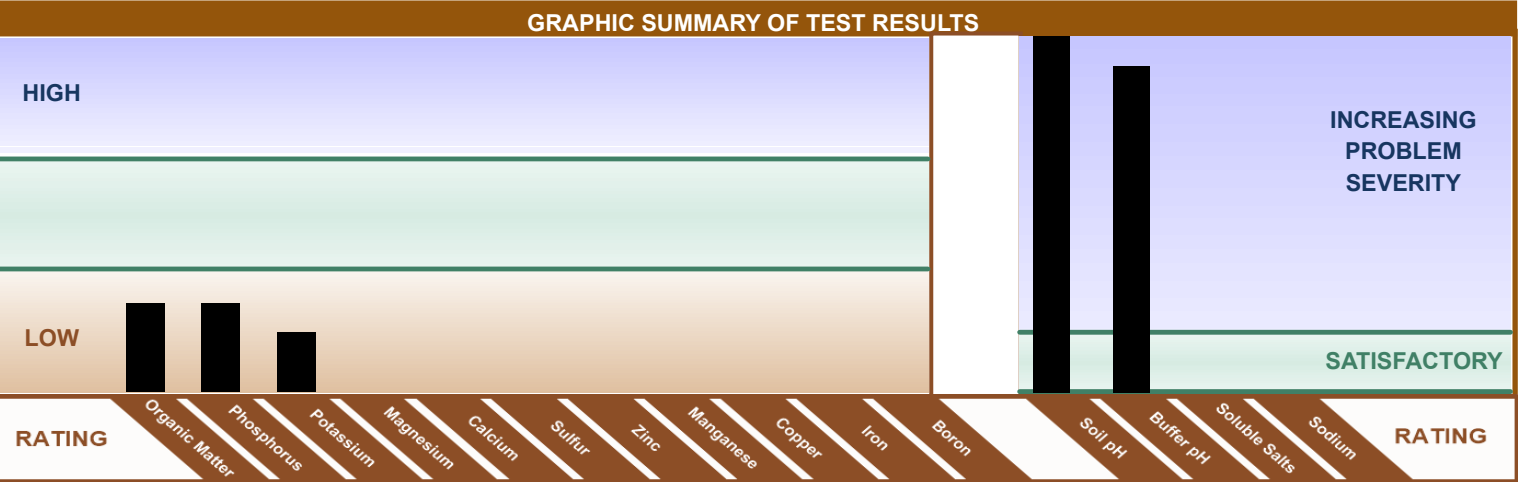
Date Reported  
**17-Feb-2021**



Laboratory Sample #  
**CA64834**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
34	
Soil pH	5.1
Buffer Index	6.4
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	1.8
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	11
--	--
--	--
--	--
Potassium	80
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O			K <sub>2</sub> O			K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS

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

Date Received  
**15-Feb-2021**

Submitted for  
**VIRGINIA NICHOLS**

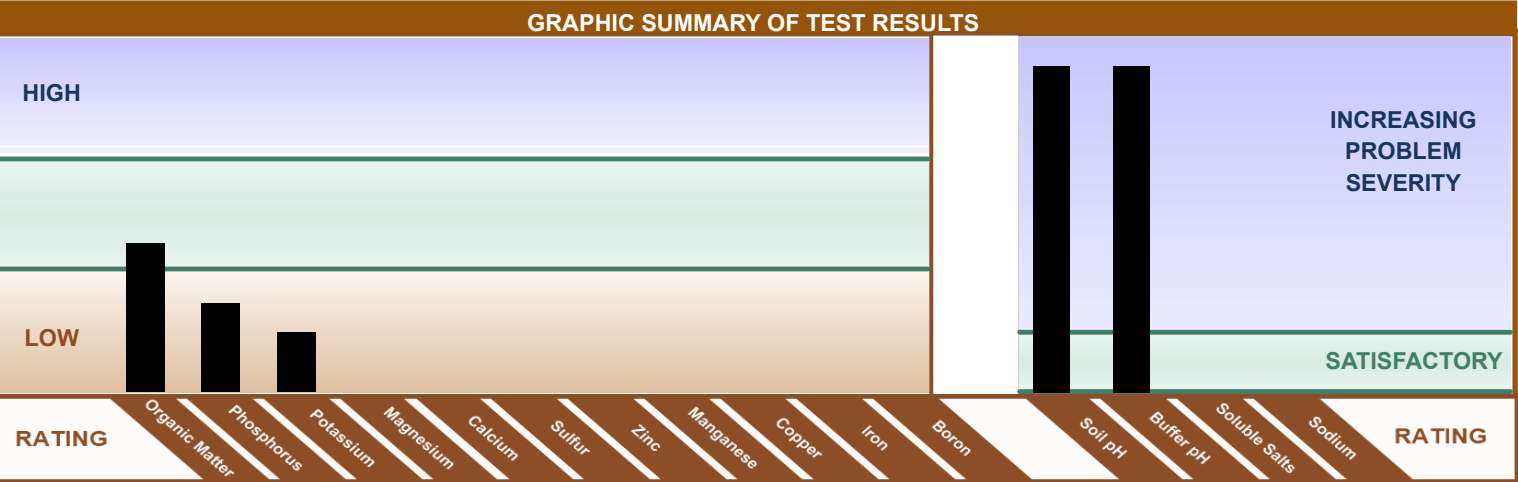
Date Reported  
**17-Feb-2021**



Laboratory Sample #  
**CA64835**

Information Sheet #  
**S0215-221**

Laboratory Turnaround **2 Days** Samples Will Be Stored Until **02-Mar-2021** Field Identification **ISU**



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
35	
Soil pH	5.3
Buffer Index	6.3
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	3.0
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	12
--	--
--	--
--	--
Potassium	109
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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
--		--		--		--		--		

SOIL ANALYSIS

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

Submitted for  
VIRGINIA NICHOLS



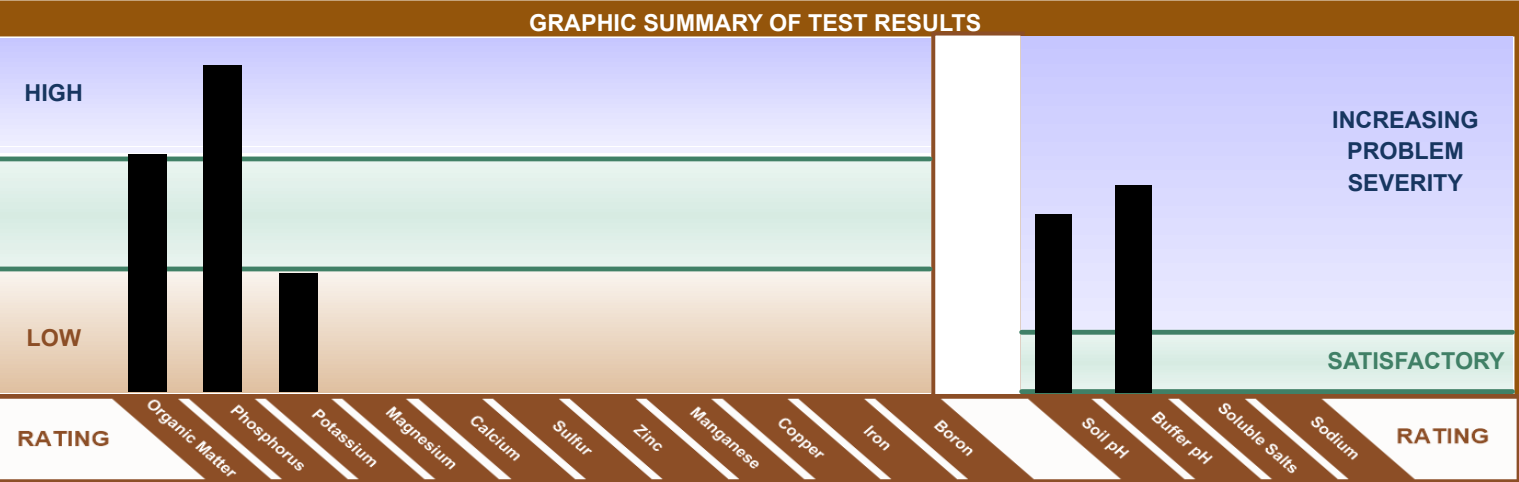
Laboratory Sample #  
CA64836

Date Received  
15-Feb-2021

Date Reported  
17-Feb-2021

Information Sheet #  
S0215-221

Laboratory Turnaround 2 Days Samples Will Be Stored Until 02-Mar-2021 Field Identification ISU



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
36	
Soil pH	6.2
Buffer Index	6.7
Soluble Salts mmhos/cm	--
Sodium ppm	--
% Organic Matter	4.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	--
Phosphorus Mehlich III	31
--	--
--	--
--	--
Potassium	145
Magnesium	--
Calcium	--
Sulfate Sulfur	--
Zinc	--
Manganese	--
Copper	--
Iron	--
Boron	--

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 <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>				P <sub>2</sub> O <sub>5</sub>			
K <sub>2</sub> O				K <sub>2</sub> O				K <sub>2</sub> 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
--		--		--		--		--		