

# SOIL TEST REPORT

## Farm and Field

MELANIE WAITE-ALTRINGER

ANOKA-RAMSEY COMMUNITY COLLEGE  
300 SPIRIT RIVER DRIVE N  
CAMBRIDGE MN 55008

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Report No. **57633**  
Laboratory No. **119611**  
Date Received **10/31/13**  
Date Reported **11/11/13**

### INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code:	H	P	E	9	A	P
C (coarse):	L I G H	R O B L E M	X C E S S I V E		L K A L L I N E	P P P P P P P P P
M (medium):				7		
loam, silt loam				H		K
F (fine):				6		K
clay loam,				H		K
silty clay loam,				H		K
silty clay				H		K

### SOIL TEST RESULTS

Sample/Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm
A	Coarse	0.9		7.0				39	75								

### RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
		0	10	0	60	25							
Rape/Mustard/Canola	Broadcast	0	10	0	60	25							
20 cwt/Acre	Row/Drill												

Comments: 4,5,18

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CAMBRIDGE MN 55008

INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code: C (coarse): sand, loamy sand, sandy loam	H I G H	E X C E S S I V E	A L L K A L L I N E	P P P P P P P P P P	K K K K K K K K K K
M (medium): loam, silt loam	M E D				
F (fine): clay loam, silty clay loam, silty clay	L O W				

SOIL TEST RESULTS

Sample/Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm	
<b>B</b>	<b>Coarse</b>	<b>1.2</b>		<b>6.8</b>				<b>48</b>	<b>269</b>									

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
	Method											
<b>Corn, Grain</b> <b>120 bu./acre</b>	Broadcast		<b>0</b>	<b>0</b>	<b>25</b>							
	Row/Drill		<b>15-20</b>	<b>10-15</b>	<b>12-15</b>							

Comments: 4,12,18

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300 SPIRIT RIVER DRIVE N  
CAMBRIDGE MN 55008

INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code: C (coarse): sand, loamy sand, sandy loam M (medium): loam, silt loam F (fine): clay loam, silty clay loam, silty clay	H I G H E X C E S S I V E P R O B L E M O O K	9 8 7 6 5	A L K A L I N E A C I D	K K K K K K K K K K
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SOIL TEST RESULTS

Sample/ Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm
C	Coarse	1.5	6.4	6.4	47	300+											

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
		Broadcast	0	0	0	25							
Row/Drill		15-20	0	12-15									

Comments: 4, 12, 18

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300 SPIRIT RIVER DRIVE N  
CAMBRIDGE MN 55008

INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code:	H I G M E D L O W	E X C E S S I V E	9	A L K A L L I N E	P	K
C (coarse):	sand, loamy sand, sandy loam		8		P	K
M (medium):	loam, silt loam		7		P	K
F (fine):	clay loam, silty clay loam, silty clay		6	H H H H	P	K
			5	A C I D	P	K

SOIL TEST RESULTS

Sample/Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm
D	Coarse	1.2		6.2				55	145								

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
Edible Beans	Broadcast	0	40	0	0								
2000 lb./acre	Row/Drill												

Comments: 4,5,18

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INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code:	H I G H	E X C E B	P R O B L E M	A L K A L L I N E	P
C (coarse):	sand, loamy sand, sandy loam				K
M (medium):	loam, silt loam				K
F (fine):	clay loam, silty clay loam, silty clay				K
					K
					K
					K
					K
					K
					K
					K

SOIL TEST RESULTS

Sample/Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4 -S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm	
E	Coarse	1.0		5.8	7.1			50	128									

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
2000 lb./acre	Broadcast	0	10	0	10							
Comments: 4,5,18	Row/Drill											

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300 SPIRIT RIVER DRIVE N  
CAMBRIDGE MN 55008

INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code: C (coarse): sand, loamy sand, sandy loam	H I G	E X C E S S I V E	P R O B L E M	A L K A L L I N E	P P P P P P P P P	Very High
M (medium): loam, silt loam	M E D			B B B B B B B B B	K K K K K K K K K	
F (fine): clay loam, silty clay loam, silty clay	L O O		O K	B B B B B B B B B		Very Low

SOIL TEST RESULTS

Sample/ Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	Buffer Index	pH	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm	
F	Coarse	1.1		7.1	5.7			28	94									

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
Potatoes	Broadcast	0	180	75	200							
400 cwt/acre	Row/Drill											

Comments: 18

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Laboratory No. **119617**  
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Date Reported **11/11/13**

INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code:	H I G	P R O B L E M	E X C E S S I V E	9	A L K A L I N E	P
C (coarse):	sand, loamy sand, sandy loam			8		P
M (medium):	loam, silt loam			7		P
F (fine):	clay loam, silty clay loam, silty clay			6		P
				5		P

SOIL TEST RESULTS

Sample/Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm	
<b>G</b>	<b>Coarse</b>	<b>0.7</b>		<b>6.5</b>				<b>33</b>	<b>82</b>									

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
Soybeans	Broadcast	0	0	0	20								
40 bu./acre	Row/Drill												

Comments: 4,5,18,19

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INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code: C (coarse): sand, loamy sand, sandy loam	H I G H	P R O B L E M	E X C E S S I V E	9	A L K A L I N E	P
M (medium): loam, silt loam	M E D			7		K
F (fine): clay loam, silty clay loam, silty clay	L O W	O K		6		K
				5		K

SOIL TEST RESULTS

Sample/ Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4 -S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm	
H	Coarse	1.0		6.4				32	118									

RECOMMENDATIONS

Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
Millet	Broadcast	0	10	0	25								
2000 lb./acre	Row/Drill												

Comments: 4,5,18



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Report No. 57633  
Laboratory No. 119619  
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INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code: C (coarse): sand, loamy sand, sandy loam	H I G H E X C E S S I V E	A L K A L I N E	P P P P P P P P P P
M (medium): loam, silt loam	M E D		K K K K K
F (fine): clay loam, silty clay loam, silty clay	L O W	A C I D	K

SOIL TEST RESULTS

Sample/ Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm	
1	Coarse	0.9		6.0				41	80									

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
Sorghum Sudan 3 Tons/Acre	Broadcast Row/Drill	0	90	0	70								

Comments: 4,5,18

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ANOKA-RAMSEY COMMUNITY COLLEGE  
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CAMBRIDGE MN 55008

INTERPRETATION OF SOIL TEST RESULTS

Soil Texture Code: C (coarse): sand, loamy sand, sandy loam	H I G H	P R O B L E M	E X C E S S I V E	9 8 7 6 5	A L K A L I N E	P P P P P P P P P	K K K K K K K K K	Very High
M (medium): loam, silt loam	M E D							
F (fine): clay loam, silty clay loam, silty clay	L O W	O K						Very Low

SOIL TEST RESULTS

Sample/Field Number	Estimated Soil Texture	Organic Matter %	Soluble Salts mmhos/cm	pH	Buffer Index	Nitrate NO3-N ppm	Olsen Phosphorus ppm P	Bray 1 Phosphorus ppm P	Potassium ppm K	Sulfur SO4-S ppm	Zinc ppm	Iron ppm	Manganese ppm	Copper ppm	Boron ppm	Calcium ppm	Magnesium ppm	
J	Coarse	0.9		7.1				55	300+									

RECOMMENDATIONS Crop Before Last: Native Grasses; Last Crop: Soybeans

Crop and Yield Goal	Method	Lime #ENP/A	N lb/A	P2O5 lb/A	K2O lb/A	S lb/A	Zn lb/A	Fe lb/A	Mn lb/A	Cu lb/A	B lb/A	Ca lb/A	Mg lb/A
		0	110	0	0								
Sunflowers	Broadcast	0	110	0	0								
4000 lb./acre	Row/Drill												

Comments: 4,5,18