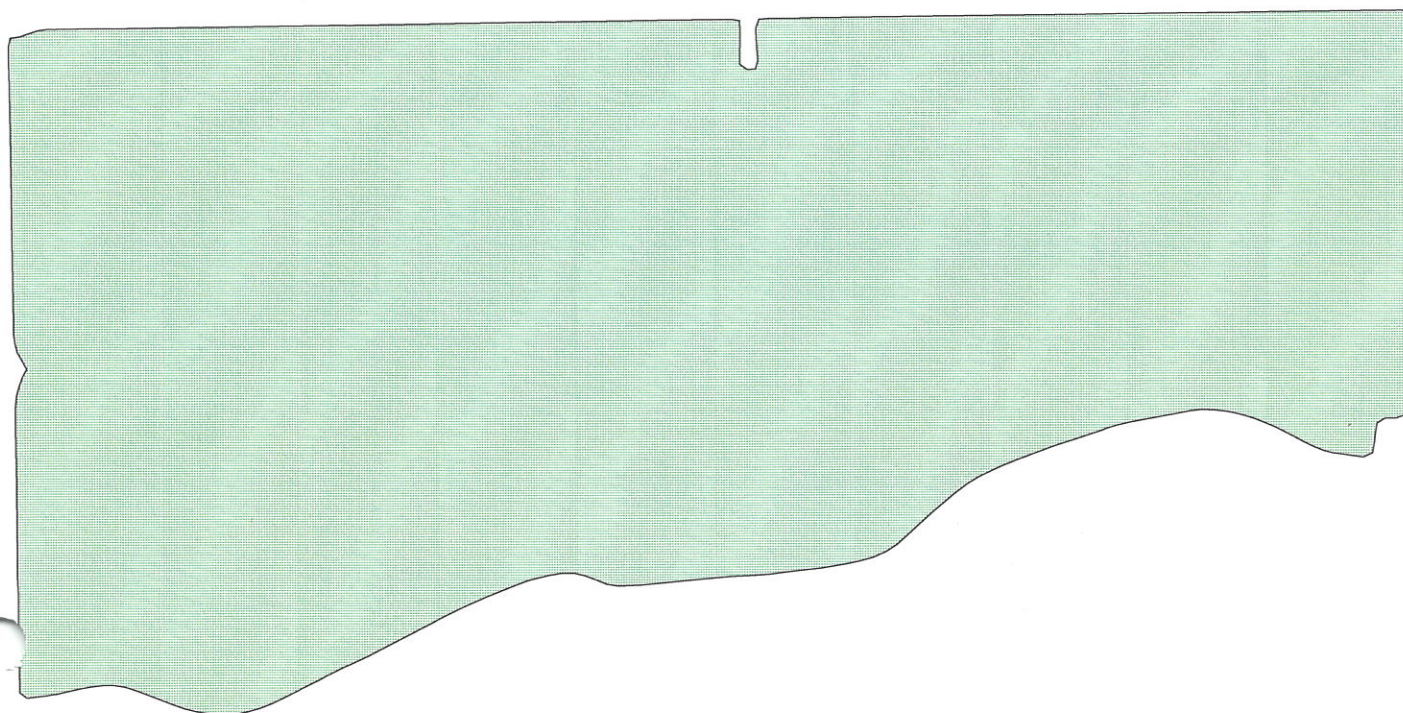


# Kevin Sash Taylor North; 16 (58.75 ac.)



500 0 500 1000 1500 Feet

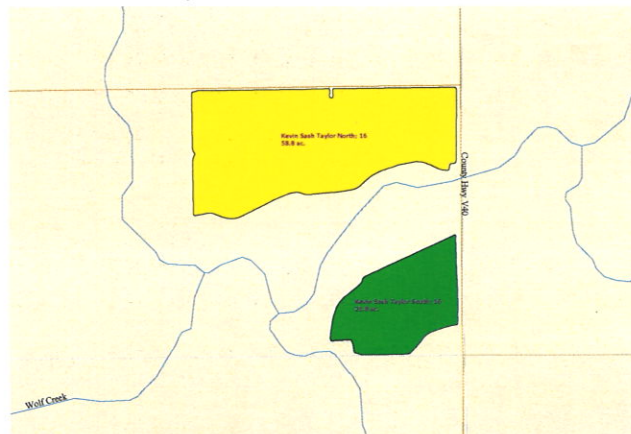
(58.8ac.)Field Boundary

Date: Nov 23, 2016  
Field Name: Kevin Sash Taylor North; 16  
Location: Benton Co., Iowa, U.S.  
Section 9, T86N, R12W  
Farm Name: Kevin Sash Taylor  
Client Name: CTS Sash David  
Total Acres: 58.75  
Field Boundary Start Location:  
Latitude: 42.27635987  
Longitude: -92.24518559



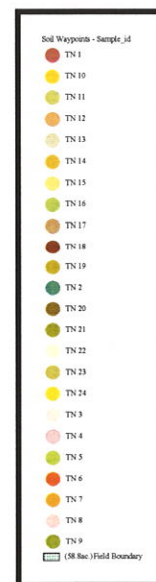
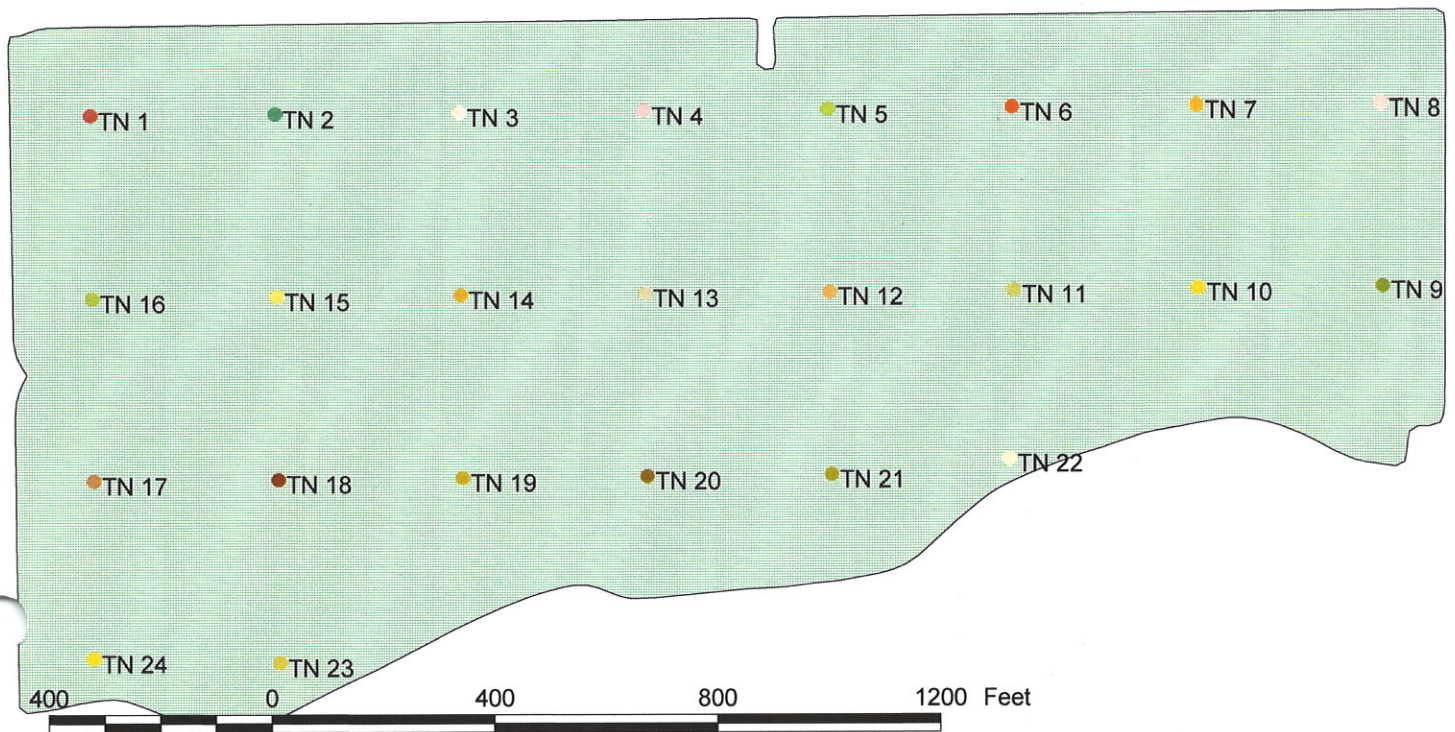
Crop Tech Seeds, Inc.

## Kevin Sash Taylor; 16



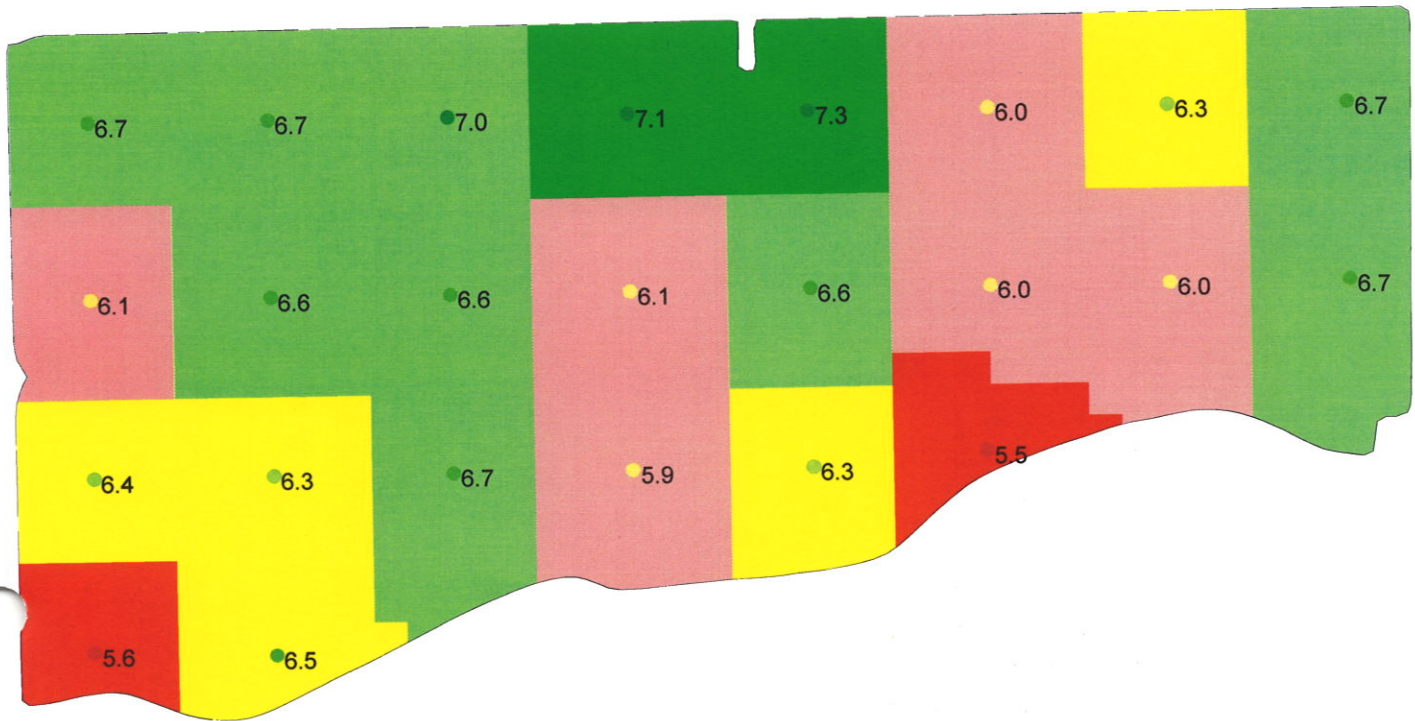


# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints - Sample\_id



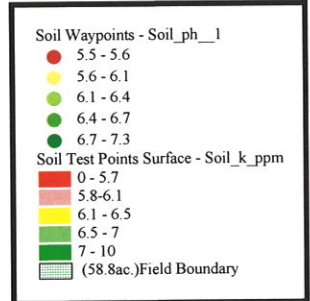
Date: Nov 23, 2016  
Field Name: Kevin Sash Taylor North; 16  
Location: Benton Co., Iowa, U.S.  
Section 9, T86N, R12W  
Farm Name: Kevin Sash Taylor  
Client Name: CTS Sash David  
Total Acres: 58.75  
Field Boundary Start Location:  
Latitude: 42.27635987  
Longitude: -92.24518559

# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints - Soil\_ph\_\_1



500 0 500 1000 1500 Feet

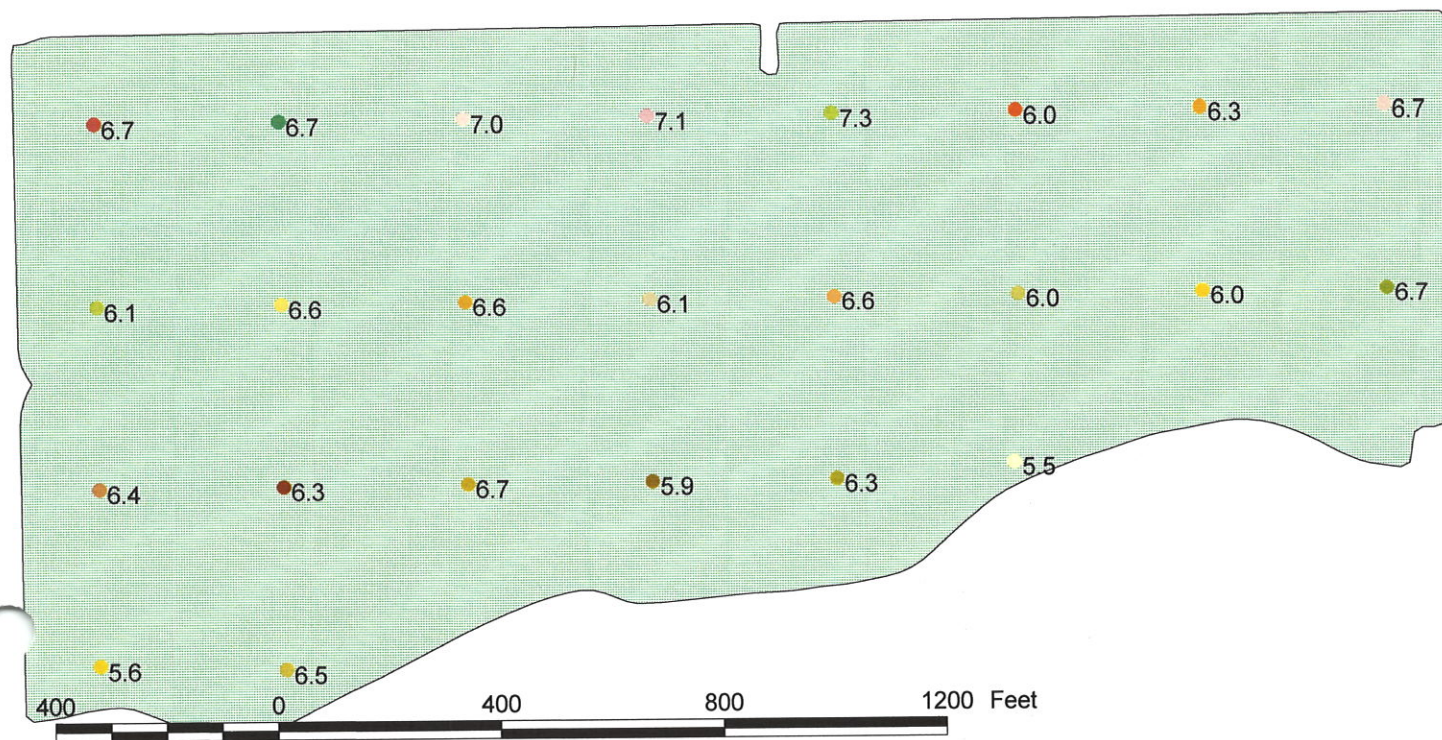
Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_ph\_\_1: 5.5  
 Maximum Soil\_ph\_\_1: 7.3  
 Average Soil\_ph\_\_1: 6.4



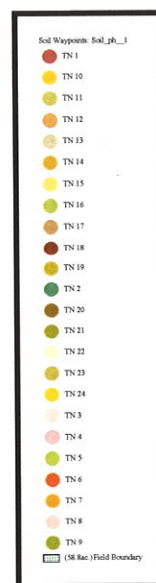
Crop Tech Seeds, Inc.



# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil\_ph\_1



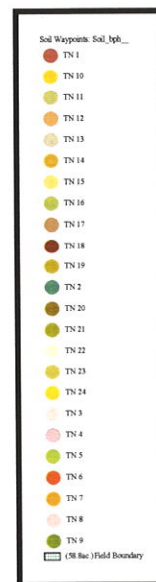
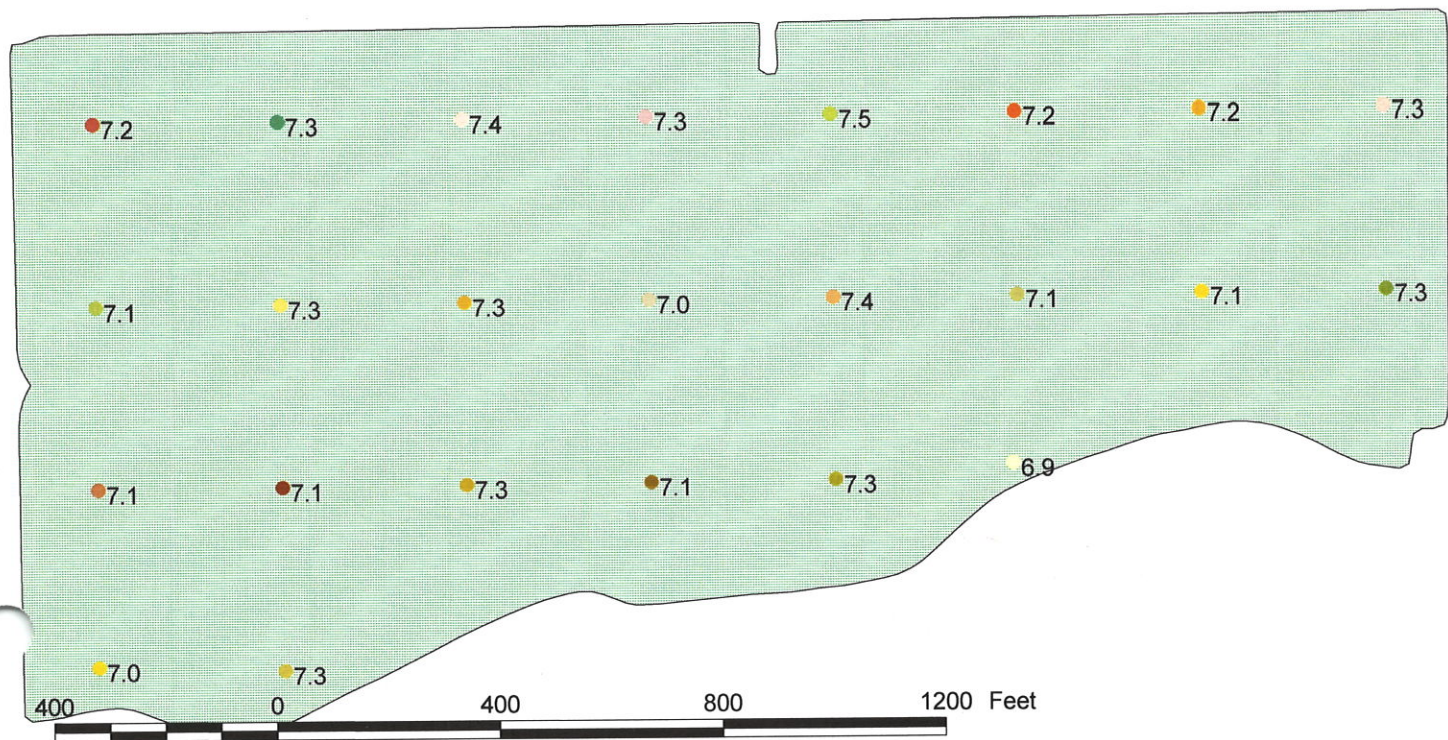
Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_ph\_1: 5.5  
 Maximum Soil\_ph\_1: 7.3  
 Average Soil\_ph\_1: 6.4



Crop Tech Seeds, Inc.



# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil\_bph

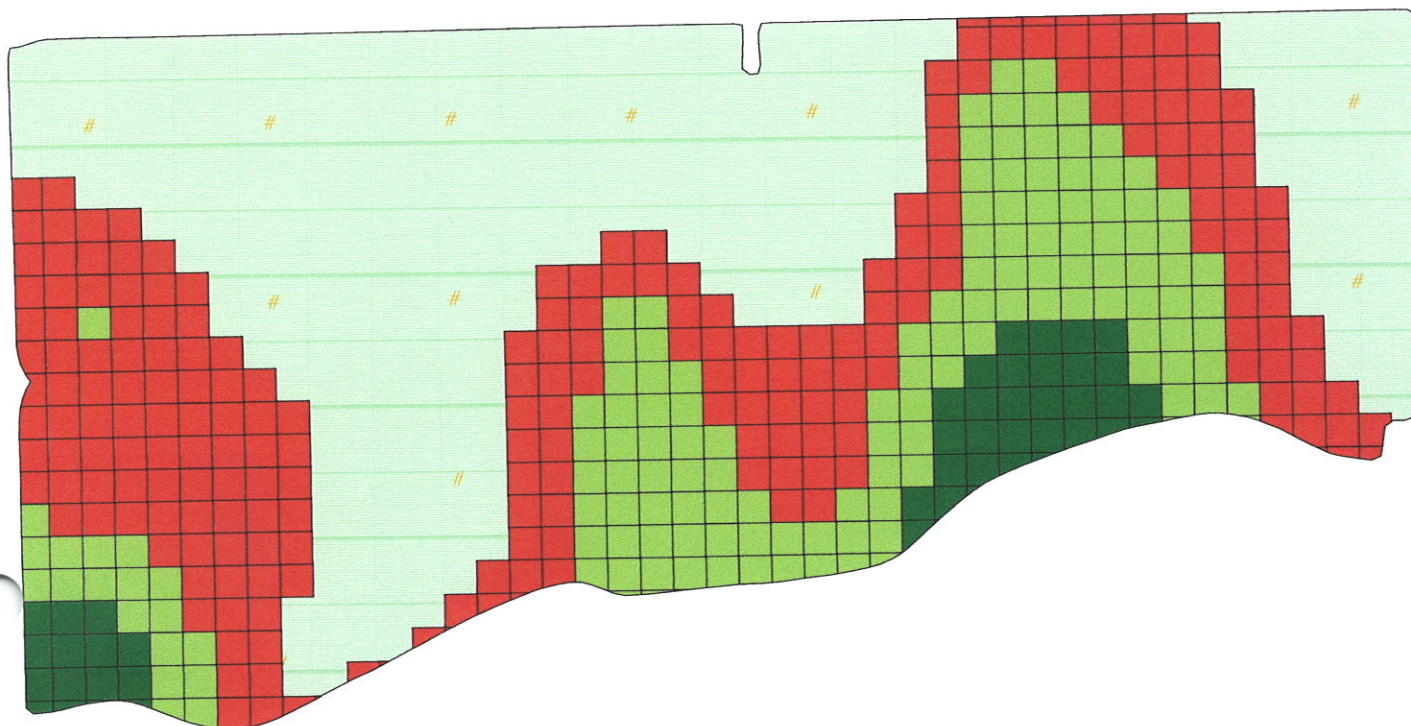


Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_bph\_: 6.9  
 Maximum Soil\_bph\_: 7.5  
 Average Soil\_bph\_: 7.2





# Kevin Sash Taylor North; 16 (58.75 ac.) - AgLime Recommendation



AgLime (A CTS Lime tons)

2.0	(17.5 ac.)
2.0 - 3.0	(11.0 ac.)
3.0 - 4.0	(3.1 ac.)
#	Soil Waypoints
	(58.8ac.) Field Boundary

500 0 500 1000 1500 Feet

Equation Used: A CTS Lime tons

Date: Nov 28, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559

Application Estimates:  
 Product: AgLime  
 Min. Rate: 2.0 Ton/ac.  
 Max. Rate: 4.0 Ton/ac.  
 Avg. Rate: 2.6 Ton/ac.  
 Total AgLime: 80.2 Ton  
 Total Lime (100%): 80.2 Ton  
 Product Price per ton: \$13.05  
 Product Cost: \$1047.13  
 Number of Acres to be Applied: 31.55 Acres  
 Per Acre Application Charge: \$0.00  
 Anticipated Application Charge: \$0.00  
 Total Cost: \$1047.13  
 Cost per Applied Acre: \$33.19  
 Total Acre Cost: \$17.82

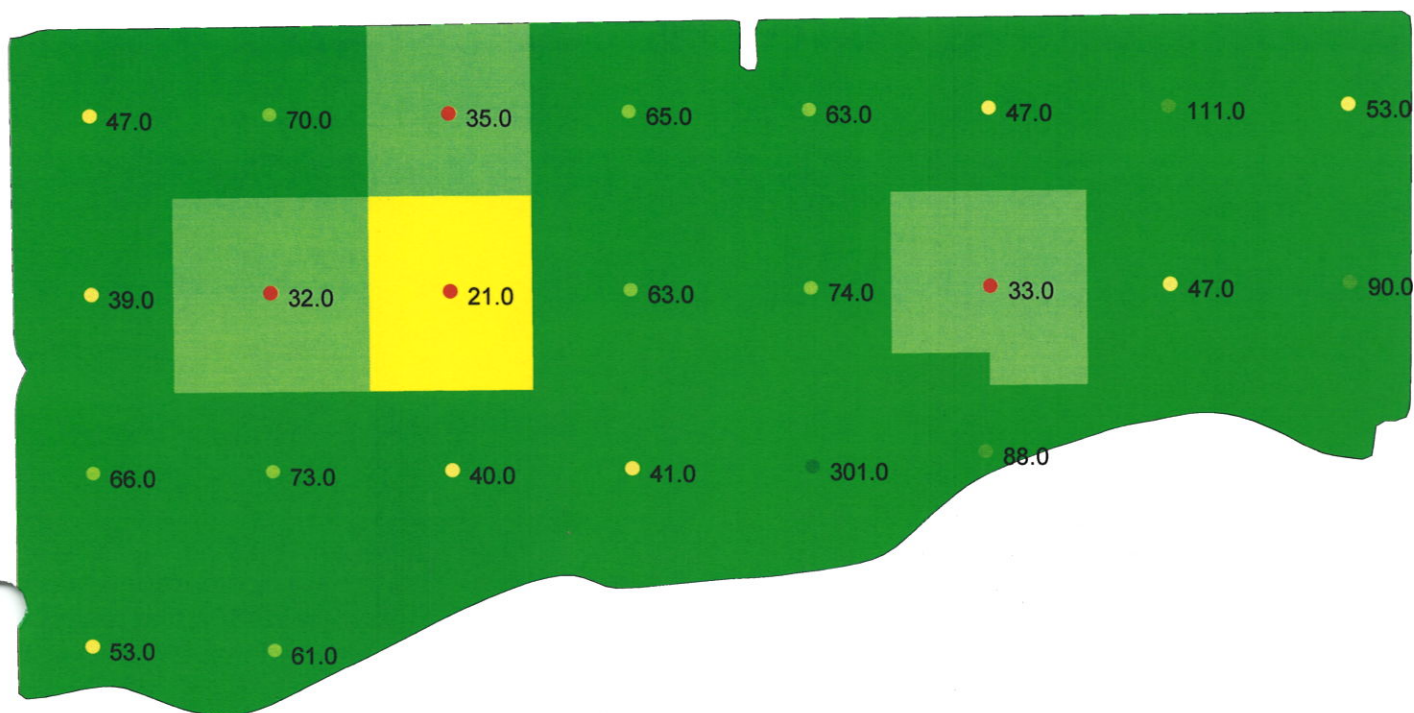
Spread Nov 2017



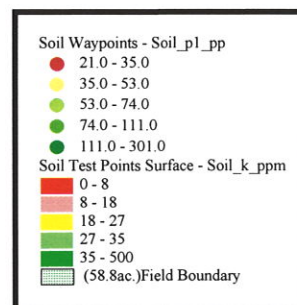
Crop Tech Seeds, Inc.



## Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints - Soil\_p1\_pp

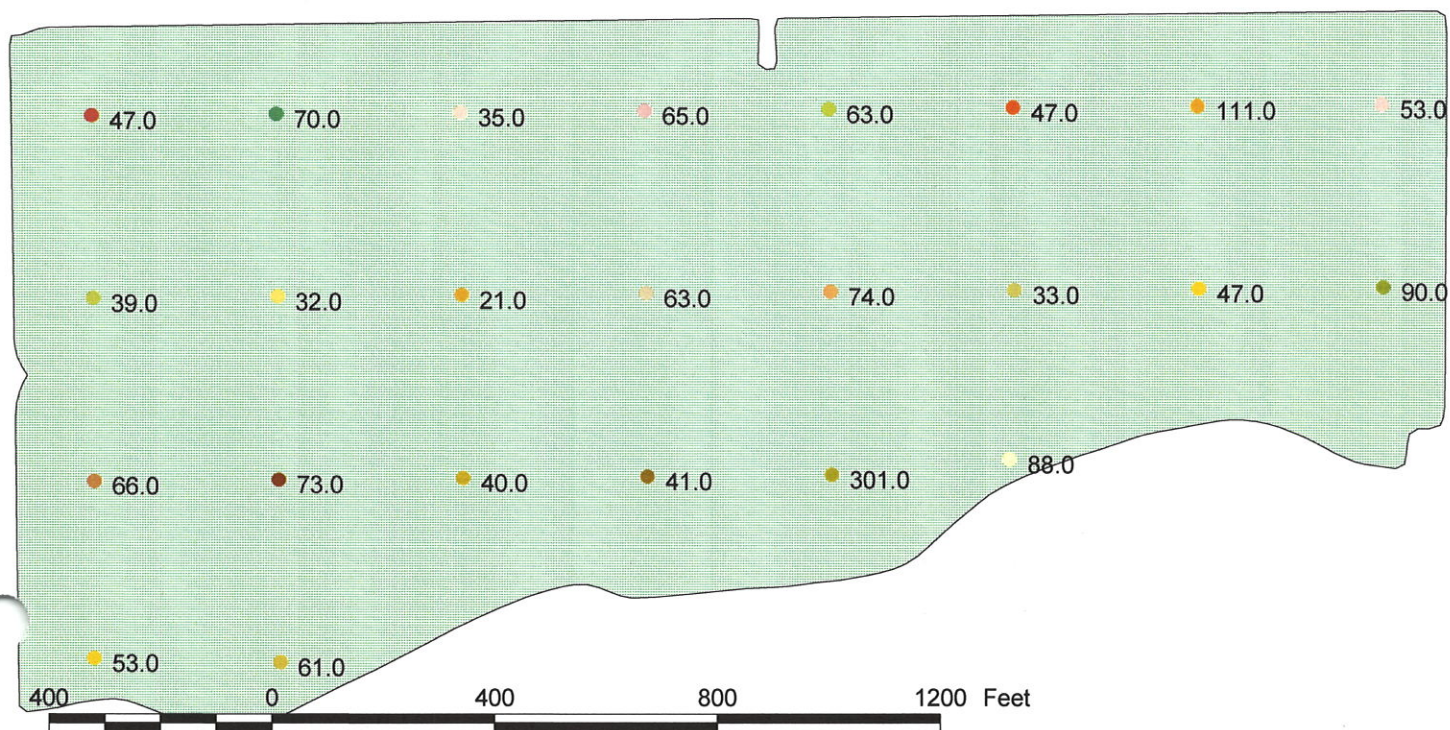


Date: Nov 23, 2016  
Field Name: Kevin Sash Taylor North; 16  
Location: Benton Co., Iowa, U.S.  
Section 9, T86N, R12W  
Farm Name: Kevin Sash Taylor  
Client Name: CTS Sash David  
Total Acres: 58.75  
Field Boundary Start Location:  
Latitude: 42.27635987  
Longitude: -92.24518559  
No. of Observations: 24  
Minimum Soil  $p_1$   $p_p$ : 21.0  
Maximum Soil  $p_1$   $p_p$ : 301.0  
Average Soil  $p_1$   $p_p$ : 67.2

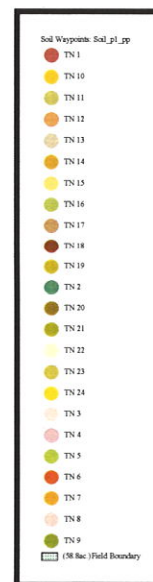




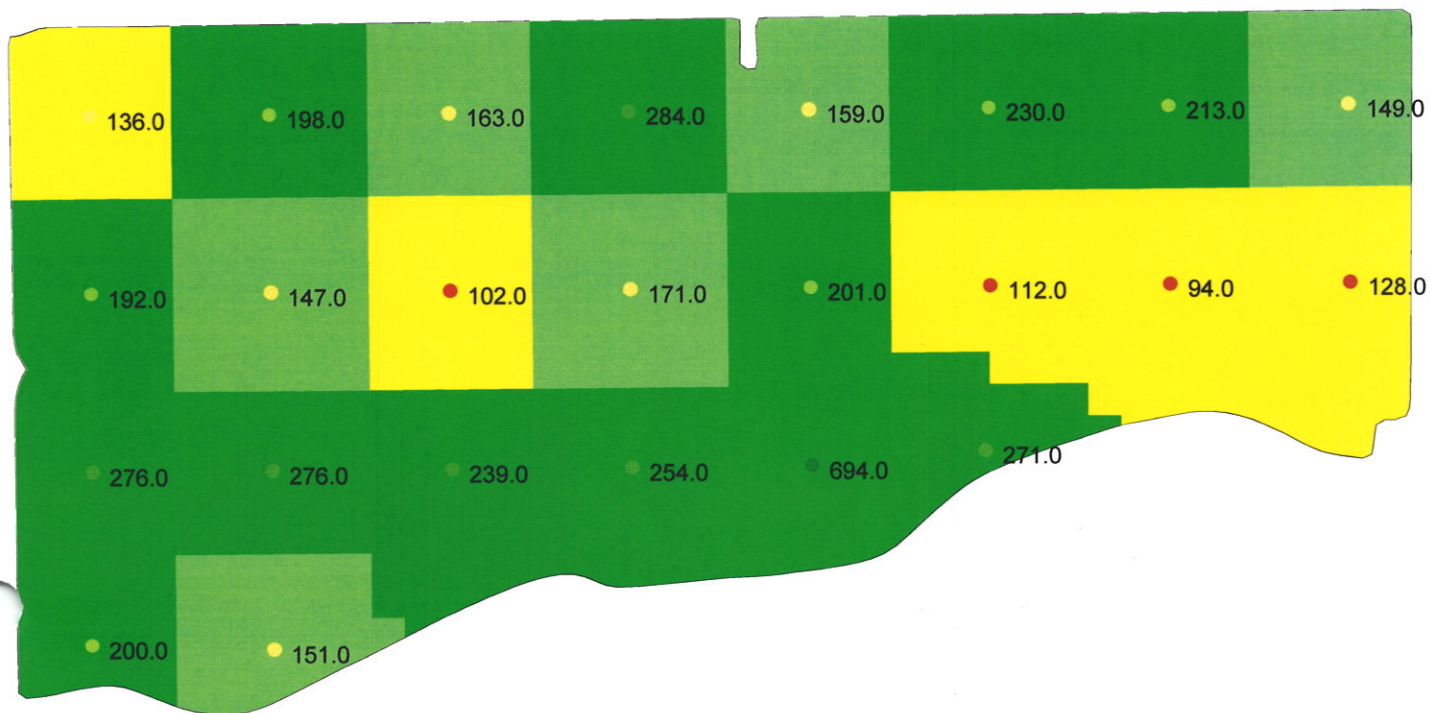
# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil\_p1\_pp



Date: Nov 23, 2016  
Field Name: Kevin Sash Taylor North; 16  
Location: Benton Co., Iowa, U.S.  
Section 9, T86N, R12W  
Farm Name: Kevin Sash Taylor  
Client Name: CTS Sash David  
Total Acres: 58.75  
Field Boundary Start Location:  
Latitude: 42.27635987  
Longitude: -92.24518559  
No. of Observations: 24  
Minimum Soil\_p1\_pp: 21.0  
Maximum Soil\_p1\_pp: 301.0  
Average Soil\_p1\_pp: 67.2

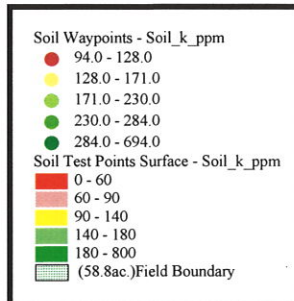


# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints - Soil\_k\_ppm



500 0 500 1000 1500 Feet

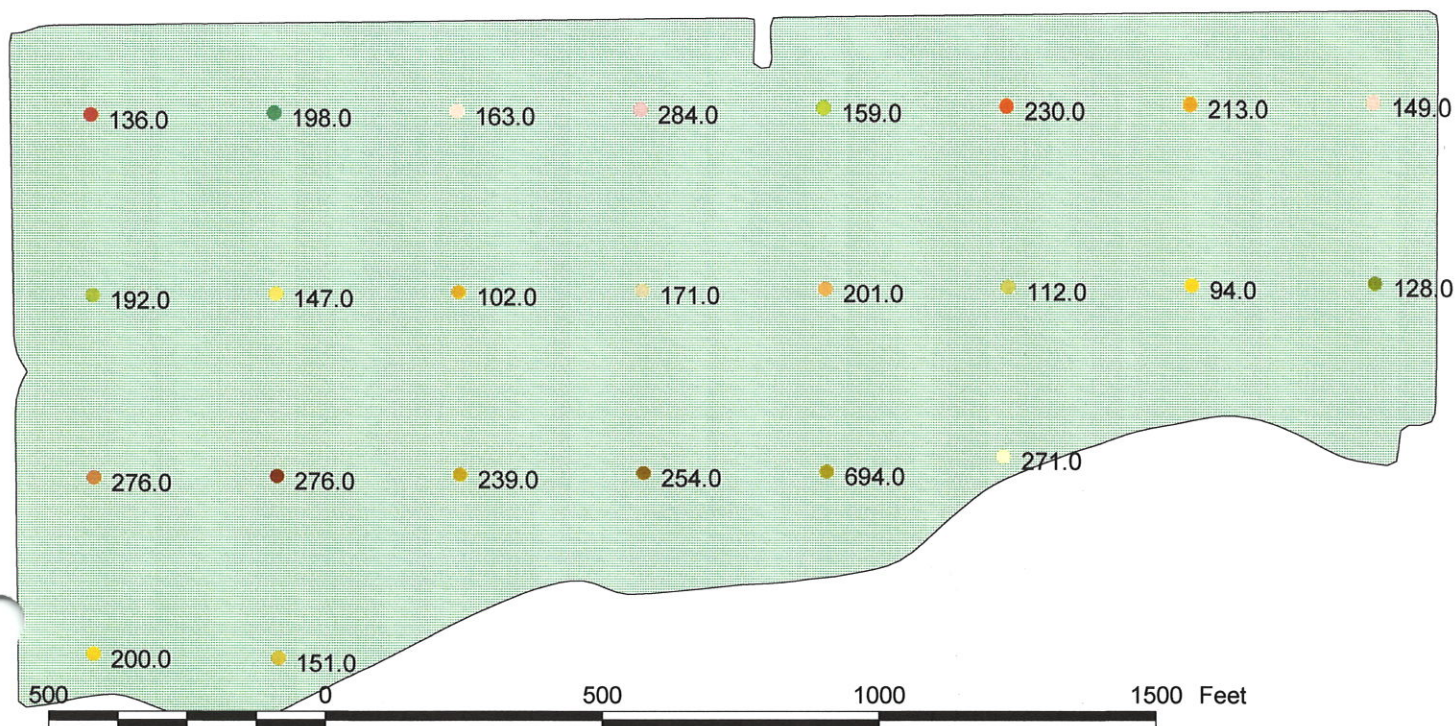
Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_k\_ppm: 94.0  
 Maximum Soil\_k\_ppm: 694.0  
 Average Soil\_k\_ppm: 210.0



Crop Tech Seeds, Inc.



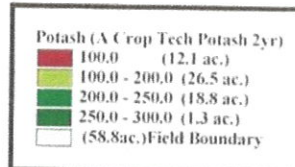
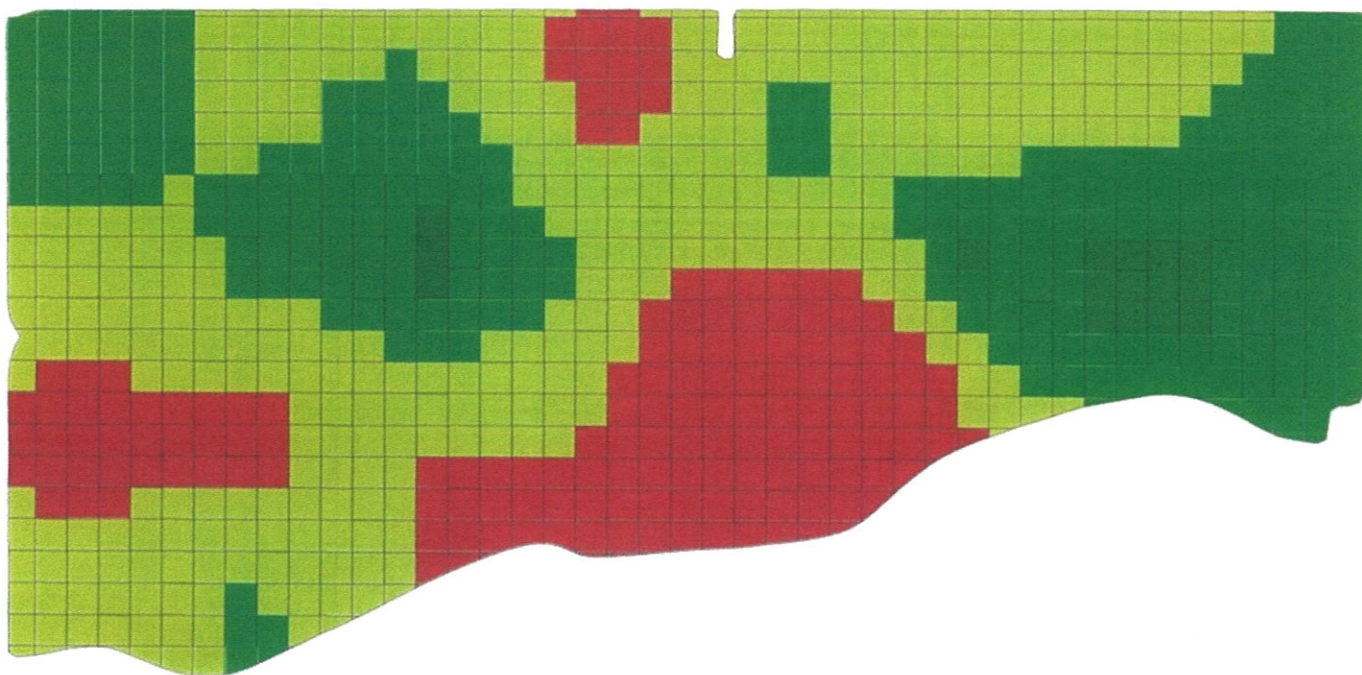
# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil\_k\_ppm



Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_k\_ppm: 94.0  
 Maximum Soil\_k\_ppm: 694.0  
 Average Soil\_k\_ppm: 210.0



# Kevin Sash Taylor North; 16 (58.75 ac.) - Potash Recommendation



500 0 500 1000 1500 Feet

Equation Used: A Crop Tech Potash 2yr

Date: Jan 4, 2017  
 Field Name: Kevin Sash Taylor North; 16  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559

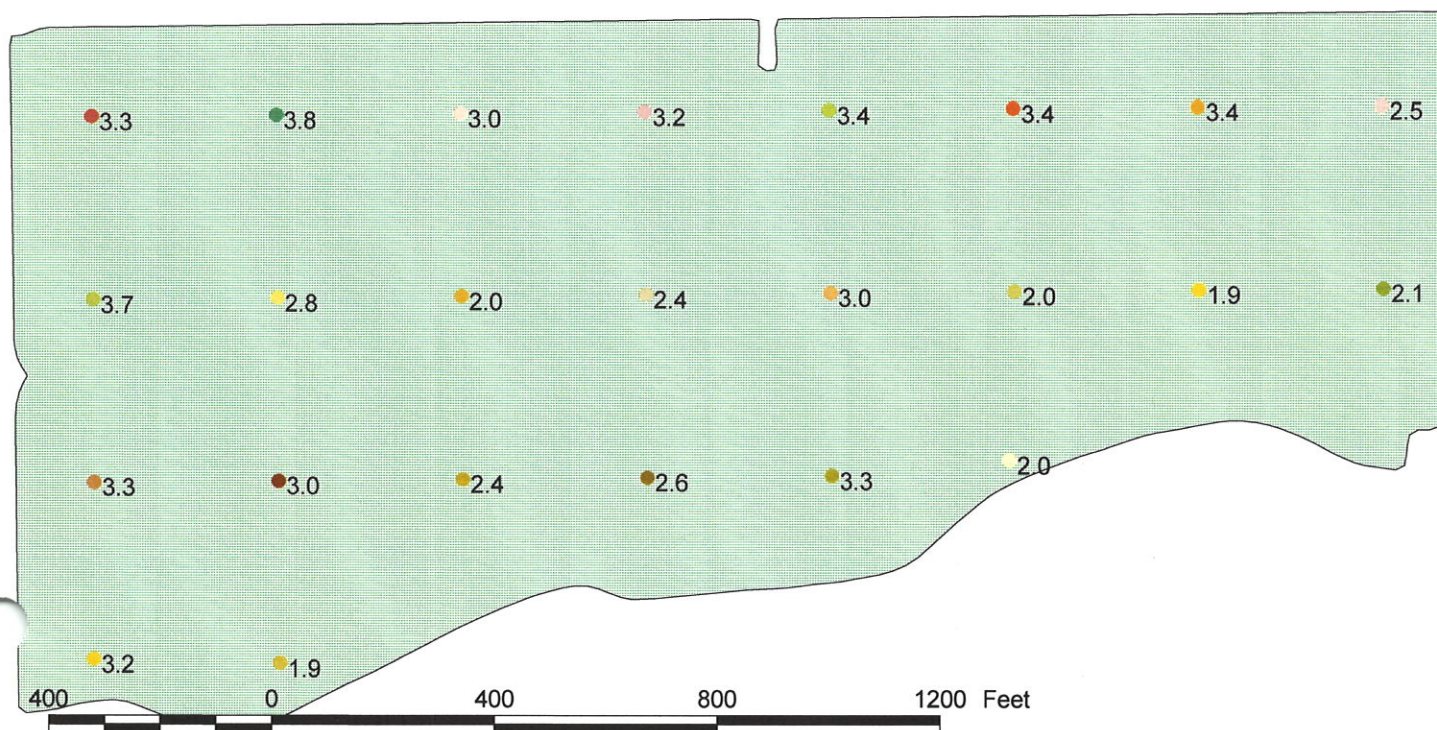
Application Estimates:  
 Product: Potash  
 Min. Rate: 100.0 Lbs/ac.  
 Max. Rate: 300.0 Lbs/ac.  
 Avg. Rate: 197.4 Lbs/ac.  
 Total Potash: 5.80 Tons  
 Total K (60%): 3.48 Tons  
 Product Price per ton: \$293.00  
 Product Cost: \$1699.40  
 Number of Acres to be Applied: 58.74 Acres  
 Per Acre Application Charge: \$8.00  
 Anticipated Application Charge: \$469.92  
 Total Cost: \$2169.32  
 Cost per Applied Acre: \$36.93  
 Total Acre Cost: \$36.92

spread spring 2017

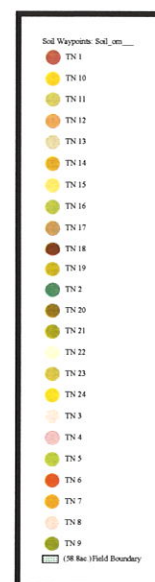




# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil om



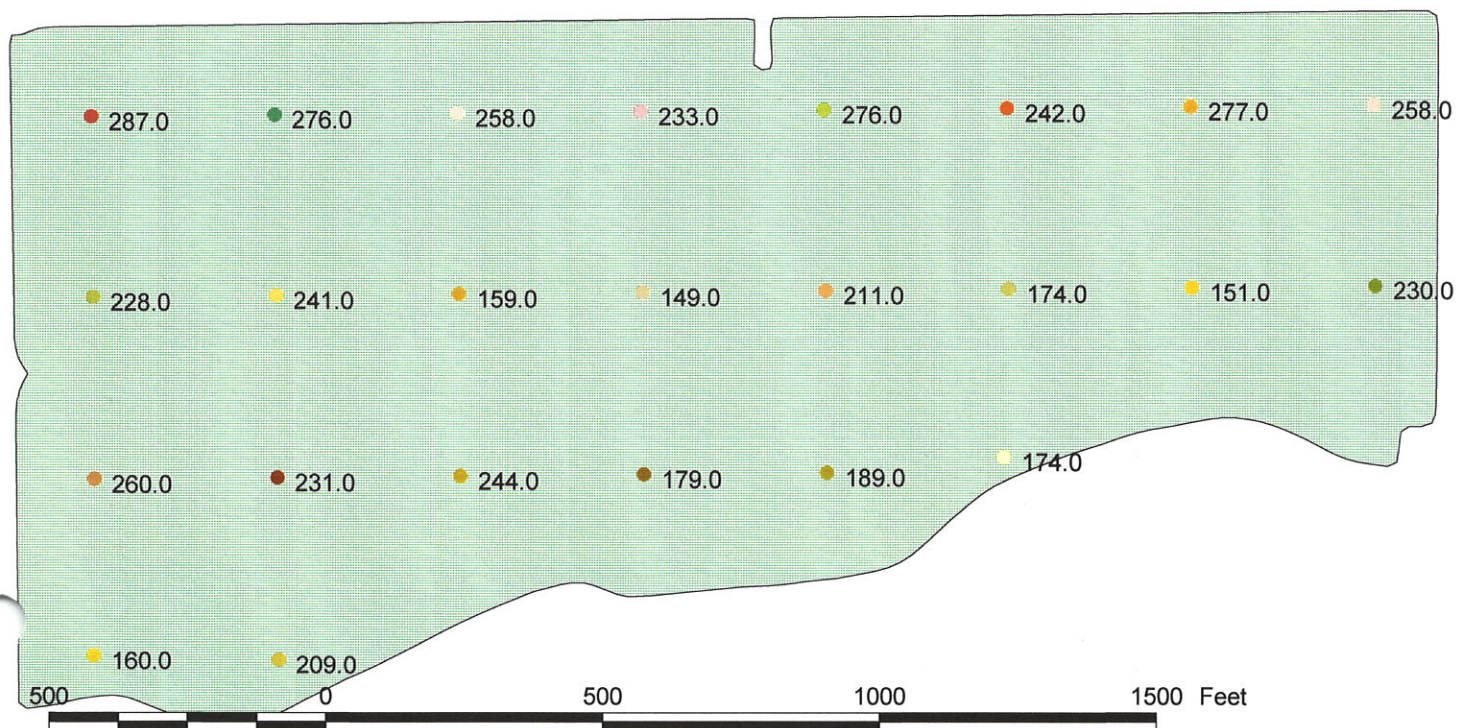
Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_om: 1.9  
 Maximum Soil\_om: 3.8  
 Average Soil\_om: 2.8



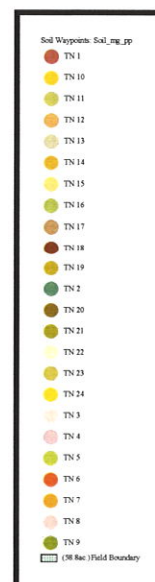
Crop Tech Seeds, Inc.



# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil mg pp



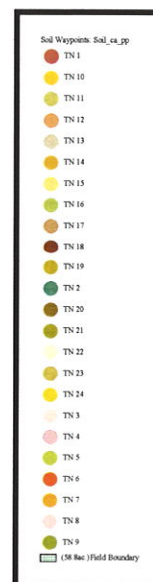
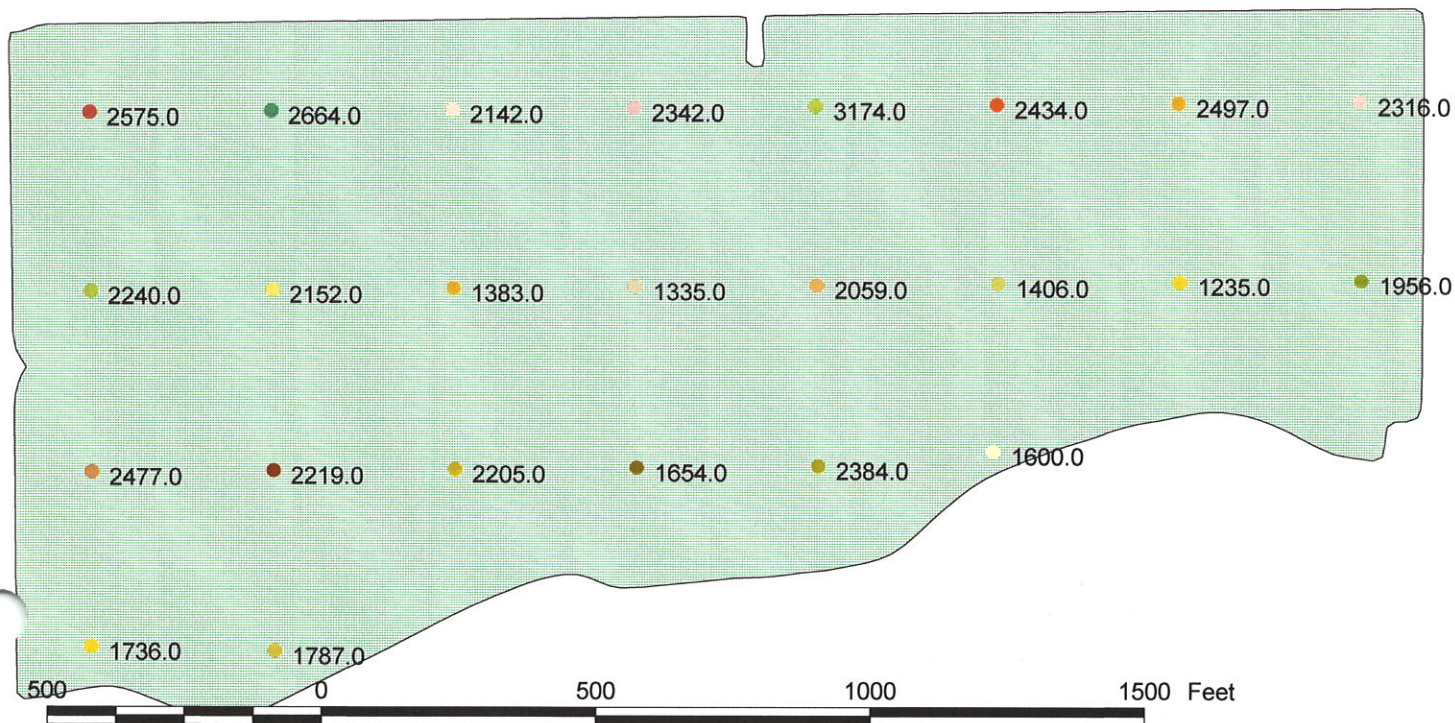
Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil mg pp: 149.0  
 Maximum Soil mg pp: 287.0  
 Average Soil mg pp: 220.7



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# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil\_ca\_pp



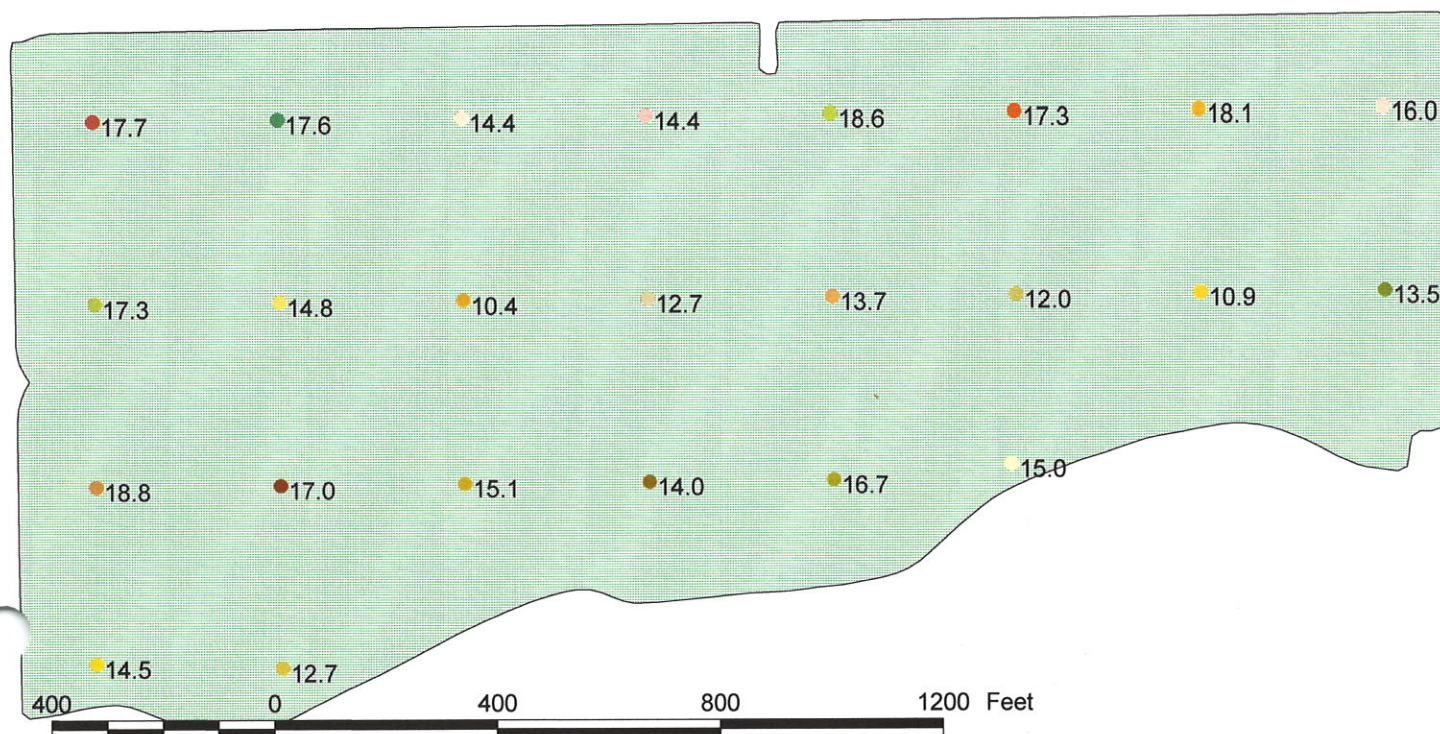
Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_ca\_pp: 1235.0  
 Maximum Soil\_ca\_pp: 3174.0  
 Average Soil\_ca\_pp: 2082.2



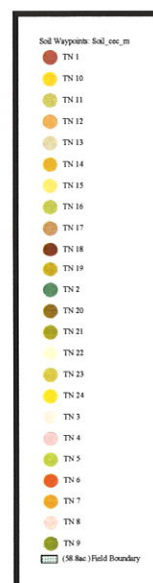
Crop Tech Seeds, Inc.



# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Soil\_cec\_m



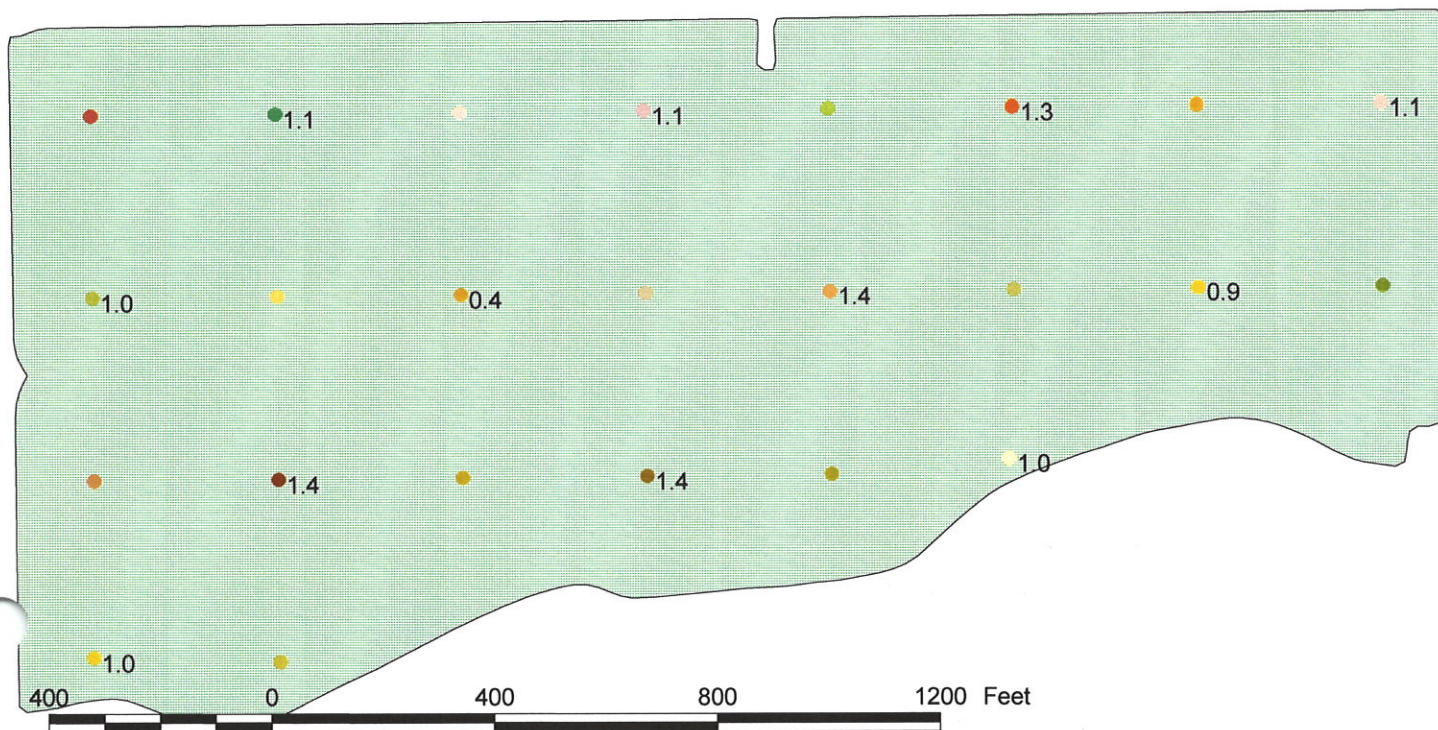
Date: Nov 23, 2016  
 Field Name: Kevin Sash Taylor North; 16  
 Location: Benton Co., Iowa, U.S.  
 Section 9, T86N, R12W  
 Farm Name: Kevin Sash Taylor  
 Client Name: CTS Sash David  
 Total Acres: 58.75  
 Field Boundary Start Location:  
 Latitude: 42.27635987  
 Longitude: -92.24518559  
 No. of Observations: 24  
 Minimum Soil\_cec\_m: 10.4  
 Maximum Soil\_cec\_m: 18.8  
 Average Soil\_cec\_m: 15.1



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# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: Zn\_ppm



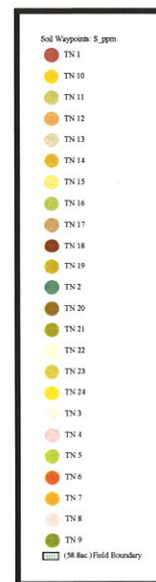
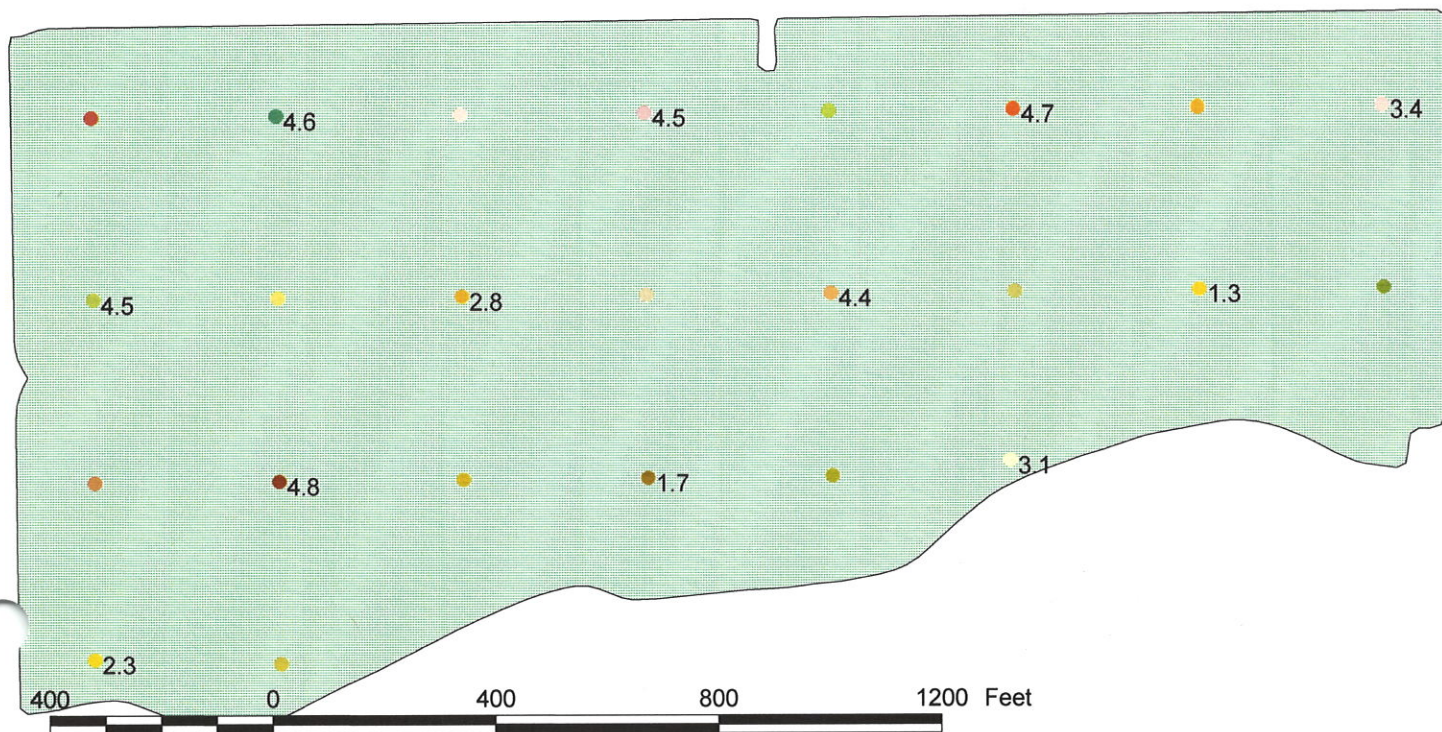
Date: Nov 23, 2016  
Field Name: Kevin Sash Taylor North; 16  
Location: Benton Co., Iowa, U.S.  
Section 9, T86N, R12W  
Farm Name: Kevin Sash Taylor  
Client Name: CTS Sash David  
Total Acres: 58.75  
Field Boundary Start Location:  
Latitude: 42.27635987  
Longitude: -92.24518559



Crop Tech Seeds, Inc.



# Kevin Sash Taylor North; 16 (58.75 ac.) - Soil Waypoints: S ppm



Date: Nov 23, 2016  
Field Name: Kevin Sash Taylor North; 16  
Location: Benton Co., Iowa, U.S.  
Section 9, T86N, R12W  
Farm Name: Kevin Sash Taylor  
Client Name: CTS Sash David  
Total Acres: 58.75  
Field Boundary Start Location:  
Latitude: 42.27635987  
Longitude: -92.24518559





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1532 DeWitt  
Ellsworth, IA 50075  
Phone: 515-836-4444  
ellsworth@agsource.com

# SOIL ANALYSIS

Submitted by **EW52404201**  
**CROP TECH SERVICES INC.**  
6801 ELY RD. SW  
CEDAR RAPIDS, IA 52404

Submitted for  
**KEVIN SASH**

Laboratory Sample #  
**AY83793 - AY83817**

Date Received  
**18-Nov-2016**

Date Reported  
**22-Nov-2016**

Information Sheet #  
**1118-541**

Field Id: **TAYLOR NORTH**

Signup Id:

Sample Id	Soil pH	Buffer pH	Sol. Salt	OM	Phosphorus					Wet K	ppm							% Base Saturation													
					Bray 1	Bray 2	Olsen	M3	K		Mg	Ca	S	Zn	Mn	Cu	Fe	B	CEC	% H			% K			% Mg			% Na		
																				%	%	%	%	%	%	%	%	%	%	%	%
TN-1	6.7	7.2		3.3	36				47	136	287	2575								17.7	12.0	2.0	13.3	72.6	0.4						
TN-10	6.0	7.1		1.9	68				47	94	151	1235	1	0.9						10.9	29.5	2.2	11.4	56.6	0.6						
TN-11	6.0	7.1		2.0	41				33	112	174	1406								12.0	27.0	2.4	11.9	58.5	0.5						
TN-12	6.6	7.4		3.0	76				74	201	211	2059	4	1.4						13.7	8.3	3.7	12.7	75.0	0.4						
TN-13	6.1	7.0		2.4	74				63	171	149	1335								12.7	33.8	3.4	9.7	52.5	0.4						
TN-14	6.6	7.3		2.0	31				21	102	159	1383	3	0.4						10.4	17.6	2.5	12.6	66.4	0.6						
TN-15	6.6	7.3		2.8	27				32	147	241	2152								14.8	10.8	2.5	13.4	72.6	0.4						
TN-16	6.1	7.1		3.7	46				39	192	228	2240	5	1.0						17.3	21.2	2.8	10.8	64.6	0.4						
TN-17	6.4	7.1		3.3	65				66	276	260	2477								18.8	18.7	3.8	11.4	65.8	0.3						
TN-18	6.3	7.1		3.0	79				73	276	231	2219	5	1.4						17.0	19.4	4.1	11.2	65.1	0.3						
TN-19	6.7	7.3		2.4	48				40	239	244	2205								15.1	9.3	4.0	13.3	72.9	0.4						
TN-2	6.7	7.3		3.8	55				70	198	276	2664	5	1.1						17.6	8.3	2.9	12.9	75.5	0.4						
TN-20	5.9	7.1		2.6	51				41	254	179	1654	2	1.4						14.0	25.3	4.6	10.5	59.0	0.5						
TN-21	6.3	7.3		3.3	325				301	694	189	2384								16.7	8.3	10.6	9.3	71.2	0.3						
TN-22	5.5	6.9		2.0	109				88	271	174	1600	3	1.0						15.0	32.4	4.6	9.5	53.2	0.5						
TN-23	6.5	7.3		1.9	75				61	151	209	1787								12.7	12.9	3.0	13.6	70.2	0.5						
TN-24	5.6	7.0		3.2	81				53	200	160	1736	2	1.0						14.5	27.4	3.5	9.1	59.8	0.5						

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.





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**Laboratories**

A Subsidiary of Cooperative Resources International

1532 DeWitt  
Ellsworth, IA 50075  
Phone: 515-836-4444  
ellsworth@agsource.com

# SOIL ANALYSIS

Submitted by  
**CROP TECH SERVICES INC.**  
6801 ELY RD. SW  
CEDAR RAPIDS, IA 52404

Submitted for  
**KEVIN SASH**

Laboratory Sample #  
**AY83793 - AY83817**

Date Received  
**18-Nov-2016**

Date Reported  
**22-Nov-2016**

Information Sheet #  
**1118-541**

Signup Id:

Field Id: **TAYLOR NORTH**

Sample Id	Soil pH	Buffer pH	Sol. Salt	OM	Phosphorus				Wet		ppm											% Base Saturation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
					Bray 1	Bray 2	Olsen	M3	K	Mg	Ca	S	Zn	Mn	Cu	Fe	B	CEC	% H			% K			% Mg			% Ca			% Na																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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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.