

Tract 15

SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540

(309)286-2761

Customer: Craig Johnson

Field: Ackrm_09 (#34743)

Description: Ackerman Farm_Ackerman

Acres: 128.4

of Samples: 54

County: Boone

Township: Bonus

Range: 4E

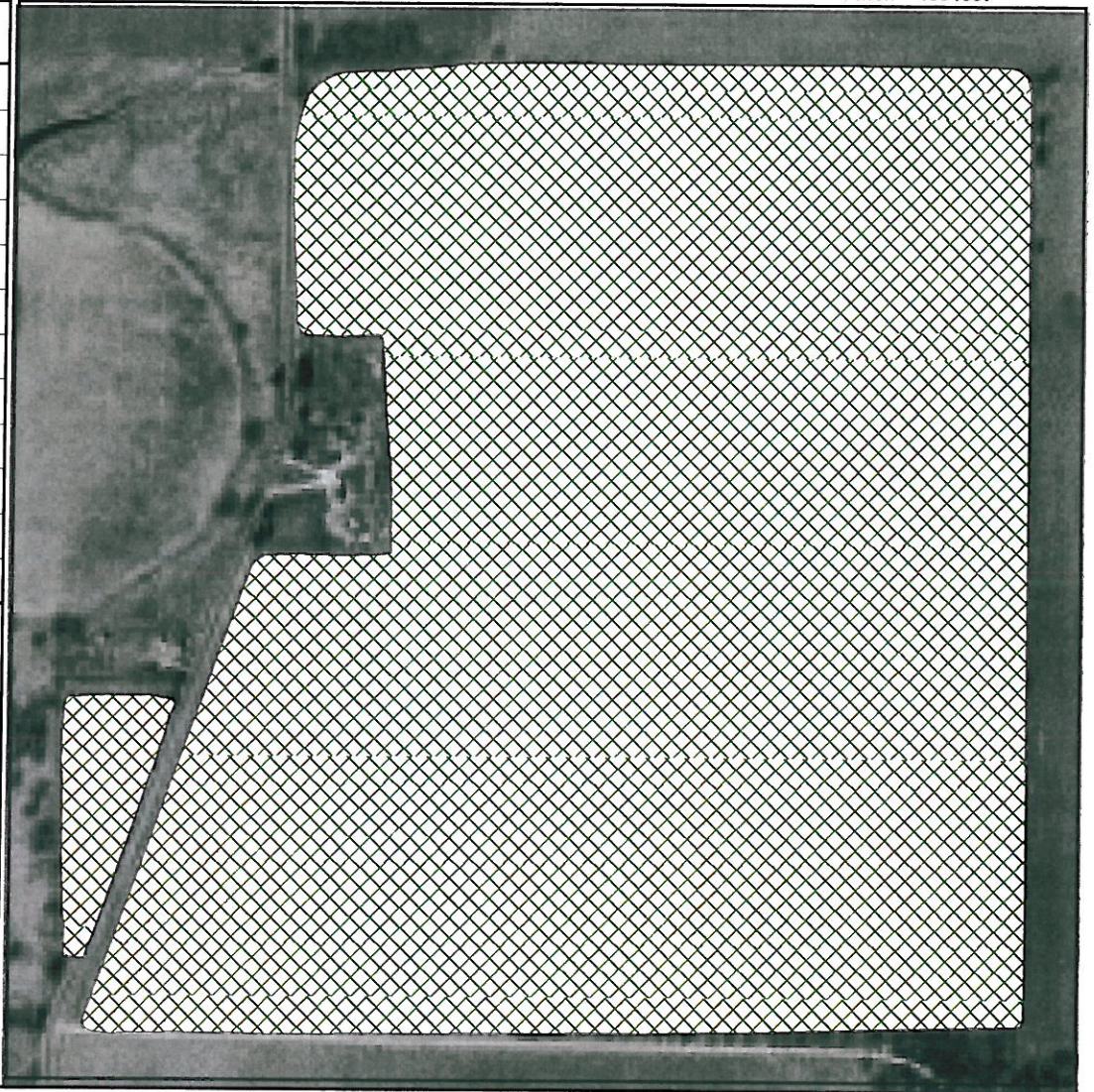
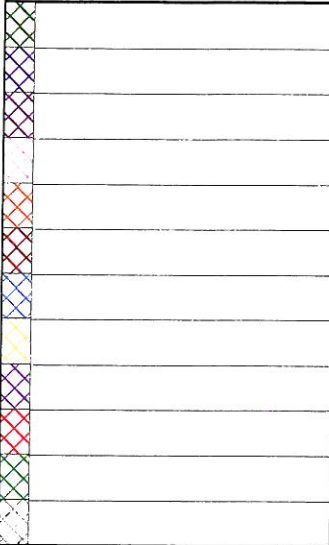
Section: 8

Date Tested: 07/23/2009

1 inch = 486 feet

Farm Map

Legend



Latitude: 42.3063
Longitude: 88.8036
Grid Size: 330nsX330ew

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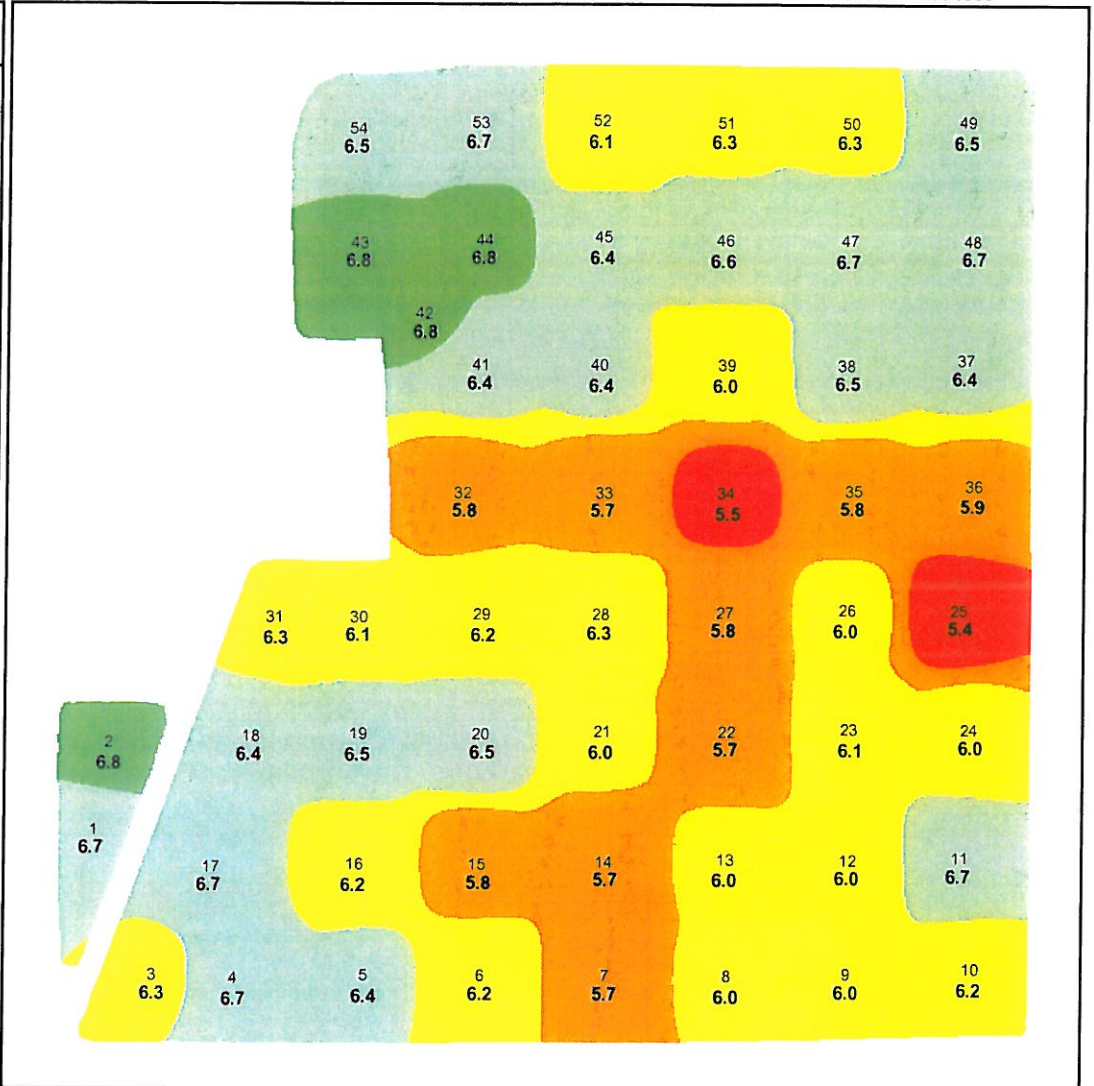
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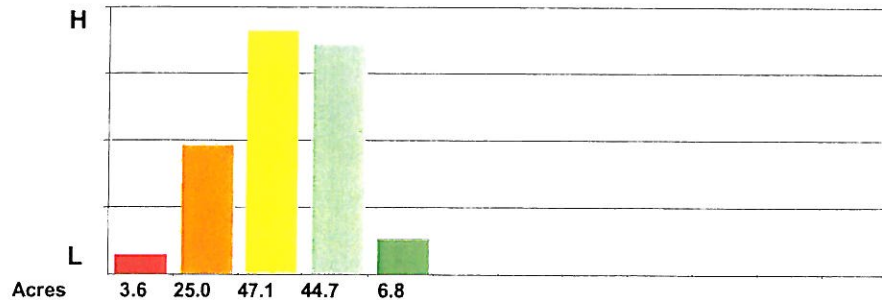
Water pH Results

1 inch = 486 feet

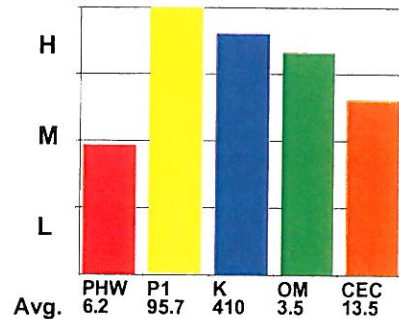
Legend	
	< 5.5
	5.5 - 5.9
	5.9 - 6.3
	6.3 - 6.7
	6.7 - 7.1
	7.1 - 7.5
	> 7.5
<p>Latitude: 42.3063 Longitude: 88.8036 Grid Size: 330nsX330ew</p>	



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

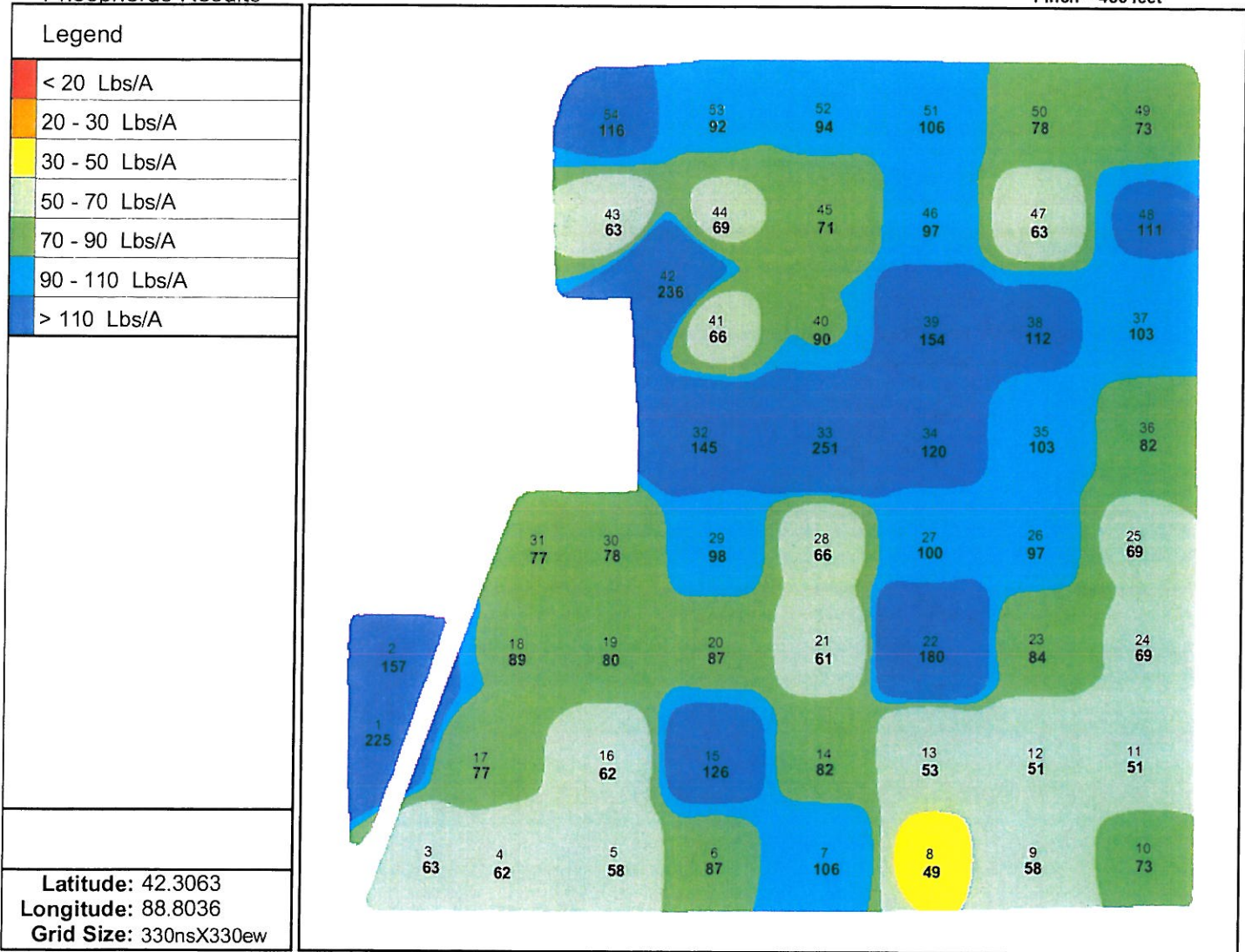
Toulon, IL 61483-0540
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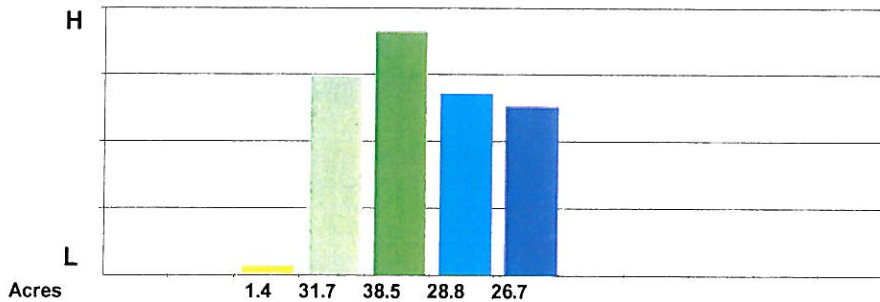
County: Boone
Township: Bonus
Range: 4E
Section: 8
Date Tested: 07/23/2009

of Samples: 54
Phosphorus Results

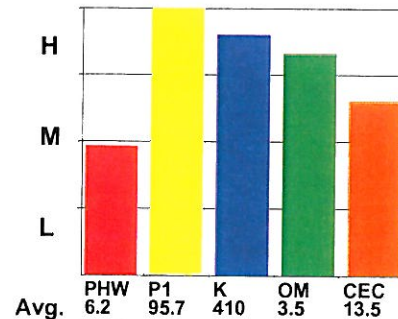
1 inch = 486 feet



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761

Customer: Craig Johnson
Field: Ackrm_09 (#34743)
Description: Ackerman Farm_Ackerman
Acres: 128.4
of Samples: 54

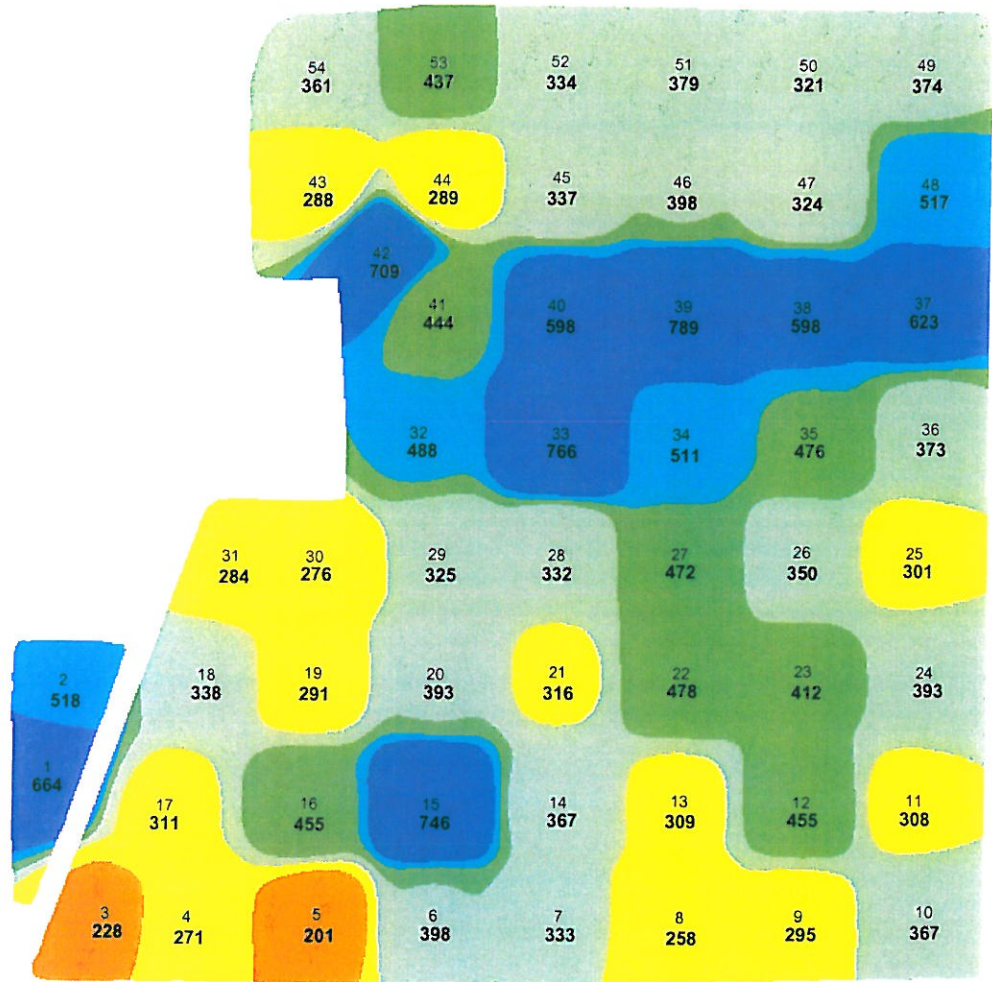
County: Boone
Township: Bonus
Range: 4E
Section: 8
Date Tested: 07/23/2009

1 inch = 486 feet

Potassium Results

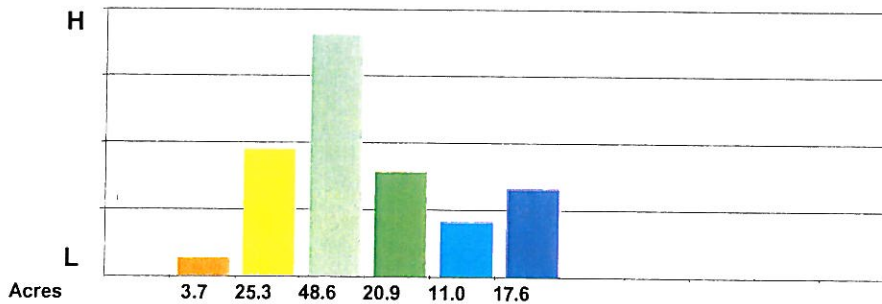
Legend

■	< 160 Lbs/A
■	160 - 240 Lbs/A
■	240 - 320 Lbs/A
■	320 - 400 Lbs/A
■	400 - 480 Lbs/A
■	480 - 560 Lbs/A
■	> 560 Lbs/A

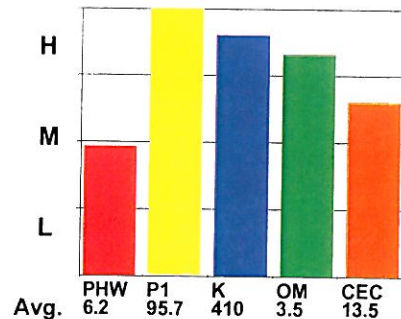


Latitude: 42.3063
Longitude: 88.8036
Grid Size: 330nsX330ew

BREAKDOWN OF FIELD ACRES



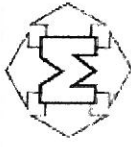
FIELD NUTRIENT SUMMARY





Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc
 600 S State St Suite 300
 Belvidere, IL 61008-4322

Order No: 231509
 Client ID: 2584
 Report Date: 7/22/2009
 Farm Name: Ackerman Farm
 Field Name: Ackerman
 Field Acres: 128.4



Sample	Water pH		Buffer pH		Pounds Per Acre			Percent		Parts per Million							Lbs/Ac			Percent Saturation				meq/100g		
					Phos-phorus	Potassium	Calcium	Magnesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	C
1	6.7	7.3	225	664	3040	876	3.2															59.6	28.6	6.7	5.2	12.8
2	6.8	7.4	157	518	2938	850	3.4															60.8	29.3	5.5	4.3	12.1
3	6.3	6.9	63	228	2396	669	3.0															56.9	26.5	2.8	13.9	10.5
4	6.7	7.3	62	271	2217	627	3.0															61.2	28.8	3.8	6.1	9.1
5	6.4	7.0	58	201	2841	692	3.5															60.4	24.5	2.2	12.9	11.8
6	6.2	6.7	87	398	3295	832	3.6															56.1	23.6	3.5	16.9	14.7
7	5.7	6.3	106	333	3229	743	3.8															51.2	19.6	2.7	26.4	15.8
8	6.0	6.6	49	258	2708	781	3.4															52.3	25.2	2.6	20.0	12.9
9	6.0	6.6	58	295	2972	803	3.5															53.9	24.3	2.7	19.1	13.8
10	6.2	6.7	73	367	3012	722	3.6															57.2	22.8	3.6	16.4	13.2
11	6.7	7.3	51	308	3766	1078	3.4															62.4	29.8	2.6	5.2	15.1
12	6.0	6.7	51	455	2983	832	2.9															51.6	24.0	4.0	20.3	14.4
13	6.0	6.6	53	309	2812	799	3.0															52.7	25.0	3.0	19.3	13.3
14	5.7	6.4	82	367	2639	654	3.5															49.9	20.6	3.6	25.9	13.2
15	5.8	6.5	126	746	3027	709	3.2															50.3	19.6	6.4	23.7	15.1
16	6.2	6.8	62	455	2363	622	3.0															54.0	23.7	5.3	17.0	10.9
17	6.7	7.3	77	311	2302	640	3.1															61.4	28.5	4.3	5.9	9.4
18	6.4	7.0	89	338	2328	673	2.9															56.3	27.1	4.2	12.3	10.3
19	6.5	7.1	80	291	2747	700	3.0															60.2	25.6	3.3	10.9	11.4
20	6.5	7.0	87	393	3536	786	3.8															62.8	23.3	3.6	10.4	14.1
21	6.0	6.7	61	316	2904	785	3.5															52.9	23.8	3.0	20.3	13.7
22	5.7	6.3	180	478	3207	722	3.9															51.3	19.3	3.9	25.5	15.6
23	6.1	6.7	84	412	2955	751	3.5															54.4	23.0	3.9	18.7	13.6
24	6.0	6.6	69	393	2946	767	3.6															52.9	23.0	3.6	20.5	13.9
25	5.4	6.4	69	301	2751	760	3.5															44.7	20.6	2.5	32.2	15.4
26	6.0	6.5	97	350	3021	783	3.7															54.0	23.3	3.2	19.4	14.0
27	5.8	6.4	100	472	3132	759	3.6															51.1	20.6	3.9	24.3	15.3
28	6.3	6.8	66	332	2988	788	3.8															57.7	25.4	3.3	13.6	12.9
29	6.2	6.7	98	325	3415	792	4.0															58.4	22.6	2.9	16.1	14.6
30	6.1	6.7	78	276	2134	636	3.0															52.9	26.3	3.5	17.3	10.1
31	6.3	6.9	77	284	2534	725	3.1															55.9	26.7	3.2	14.2	11.3
32	5.8	6.5	145	488	2212	464	3.2															52.3	18.3	5.9	23.4	10.6

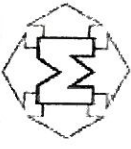
SGS Mowers Soil Testing Plus, Inc. | 117 E Main Street PO Box 540 Toulon, IL 61483 t (309) 286-2761 f (309) 286-6251
 www.mowersplus.com www.cropservices.sgs.com

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Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc
 600 S State St Suite 300
 Belvidere, IL 61008-4322

Order No: 231509
 Client ID: 2584
 Report Date: 7/22/2009
 Farm Name: Ackerman Farm
 Field Name: Ackerman
 Field Acres: 128.4



Sample	Pounds Per Acre			Parts per Million										Percent Saturation			meg/100g						
	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Percent Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H
33	5.7	6.3	251	766	3332	714	3.9												50.8	18.1	6.0	25.1	16.4
34	5.5	6.3	120	511	2221	549	3.6												45.7	18.8	5.4	30.2	12.2
35	5.8	6.5	103	476	2674	621	3.5												52.1	20.1	4.8	23.0	12.8
36	5.9	6.5	82	373	3064	744	3.6												53.1	21.5	3.3	22.2	14.4
37	6.4	6.9	103	623	3143	816	3.8												57.9	25.1	5.9	11.1	13.6
38	6.5	7.0	112	598	3474	881	4.0												59.7	25.2	5.3	9.8	14.5
39	6.0	6.5	154	789	3575	881	4.1												52.9	21.7	6.0	19.4	16.9
40	6.4	6.9	90	598	3443	914	3.8												57.7	25.5	5.1	11.6	14.9
41	6.4	6.9	66	444	3137	791	3.9												59.0	24.8	4.3	12.0	13.3
42	6.8	7.3	236	709	3286	789	3.6												63.6	25.5	7.0	3.9	12.9
43	6.8	7.4	63	288	3065	855	3.0												63.4	29.5	3.1	4.1	12.1
44	6.8	7.4	69	289	3584	937	3.2												65.4	28.5	2.7	3.4	13.7
45	6.4	6.9	71	337	3203	880	3.6												58.1	26.6	3.1	12.2	13.8
46	6.6	7.2	97	398	3487	994	3.5												60.5	28.8	3.5	7.2	14.4
47	6.7	7.2	63	324	3305	866	3.8												62.6	27.3	3.2	6.9	13.2
48	6.7	7.2	111	517	3838	1132	3.9												59.7	29.4	4.1	6.8	16.1
49	6.5	7.1	73	374	3106	1031	3.3												55.3	30.6	3.4	10.6	14.0
50	6.3	6.9	78	321	3413	1011	3.5												56.2	27.7	2.7	13.3	15.2
51	6.3	6.8	106	379	3468	960	3.9												57.1	26.3	3.2	13.4	15.2
52	6.1	6.6	94	334	3559	1009	3.8												54.0	25.5	2.6	17.9	16.5
53	6.7	7.2	92	437	3739	1090	3.9												60.7	29.5	3.6	6.2	15.4
54	6.5	7.0	116	361	3042	816	3.7												59.9	26.8	3.7	9.6	12.7
Field Median	6.3	6.8	84	370	3040	786	3.5												56.3	25.1	3.6	14.0	13.7

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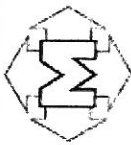
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 K-B Farms Inc

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 Belvidere, IL 61008-4322

Order No: 231509
 Client ID: 2584
 Report Date: 7/22/2009
 Farm Name: Ackerman Farm
 Field Name: Ackerman
 Field Acres: 128.4



Sample	Water pH	Buffer pH	Pounds Per Acre			Percent Organic Matter	Parts per Million							Percent Saturation				meq/100g										
			Phosphorus	Potassium	Calcium		Magnesium	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf	Bray P1		Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC			
Fertility Level																												
Water pH	6.3																											
Phosphorus	84																											
Potassium	370																											
Calcium	3040																											
Magnesium	786																											
Organic Matter	3.5																											
Fertilizer Recommendations are in Pounds per Acre																												
Intended Crop																												
Yield Goal																												
Build-up																												
Crop Removal: IL																												
**TOTAL REQUIRED																												
Credits:																												
**ADJUSTED RECOMMENDATIONS																												
Adjust Nitrogen Recommendations for Previous Crop or other N Sources.																												
Limestone Recommendations																												
CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2																												
Previous Crop: Corn Grain Previous Yield: 0 Bu																												

Optimum Ranges:
 Water pH: 6.3 - 6.8
 Phosphorus: 50.0 - 80.0
 Potassium: 290.0 - 370.0

A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231509
Farm Name: Ackerman Farm
Field Name: Ackerman

GENERAL FIELD RECOMMENDATIONS

The General Fertility Recommendations are for a Four Year Program of fertility build-up and include crop removal requirements and credits for prior fertilizer plowed down. Also any credits for manure application or nitrogen carried over from prior legumes need to be subtracted. These Fertility Recommendations must be adjusted if your cropping plans or circumstances change (i.e. if crop residues are removed, different yield goals are desired, different crops are grown, etc.) When soil test levels are above the recommended levels, a credit is given at half crop removal for high levels and full crop removal for very high levels.

Use the worksheet below to keep track of your plans and actual results. Please call the Toulon Office at (309)286-2761 or (800)354-8197 if you have any questions. Any of our staff agronomists will be happy to assist you.

Intended Crop	Corn Grain	Soybean	Corn Grain	Soybean
Yield Goal	150 Bu/Ac	50 Bu/Ac	175 Bu/Ac	60 Bu/Ac
	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Build up (4 years)	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0
Crop Removal	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
TOTAL REQUIRED	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
Credits: High Fertility	0 - 28 - 0	0 - 21 - 0	0 - 33 - 0	0 - 25 - 0
ADJUSTED RECOMMENDATION	180 - 28 - 42	0 - 21 - 65	210 - 32 - 49	0 - 25 - 78
Limestone Requirements: 0.62 Tons/Acre				

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: extension.agron.iastate.edu/soilfertility/nrate.aspx

All Fertility Recommendations are expressed as pounds (units) of actual nutrients per acre. Remember to give credits for the fertility value in manure, nitrogen in dry fertilizer and previous crops, and weed control carriers.

RECORDS OF ACTUAL FERTILITY APPLIED

Year	Actual Crop	Actual Yield	Lime Tons/Ac	Nitrogen Lbs/Acre	Phosphorus Lbs/Acre	Potassium Lbs/Acre
2010			VRT			

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Client ID: 2584
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OrderID: 231509
FarmName: Ackerman Farm
FieldName: Ackerman

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P₂O₅/Acre) and the actual Potassium (Lbs K₂O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
1	0.0	0	0	
2	0.0	0	0	
3	0.6	0	62	
4	0.0	0	19	
5	0.4	0	89	
6	1.2	0	0	
7	3.0	0	0	
8	1.8	1	32	
9	1.6	0	0	
10	1.1	0	0	
11	0.0	0	0	
12	1.8	0	0	
13	1.6	0	0	
14	2.9	0	0	
15	2.5	0	0	
16	1.2	0	0	
17	0.0	0	0	
18	0.3	0	0	
19	0.0	0	0	
20	0.0	0	0	
21	1.8	0	0	
22	2.8	0	0	
23	1.5	0	0	
24	1.9	0	0	
25	4.1	0	0	
26	1.7	0	0	
27	2.6	0	0	
28	0.6	0	0	
29	1.0	0	0	
30	1.3	0	14	
31	0.7	0	6	
32	2.4	0	0	
33	3.6	0	0	

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Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
34	3.7	0	0	
35	2.4	0	0	
36	2.2	0	0	
37	0.1	0	0	
38	0.0	0	0	
39	2.0	0	0	
40	0.2	0	0	
41	0.2	0	0	
42	0.0	0	0	
43	0.0	0	2	
44	0.0	0	1	
45	0.3	0	0	
46	0.0	0	0	
47	0.0	0	0	
48	0.0	0	0	
49	0.0	0	0	
50	0.5	0	0	
51	0.5	0	0	
52	1.6	0	0	
53	0.0	0	0	
54	0.0	0	0	
Median	0.6	0	0	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231509
Farm Name: Ackerman Farm
Field Name: Ackerman

YOUR FERTILITY RECOMMENDATIONS OPTIONS

Adjust the limestone recommendations for your tillage practices.

Build-up phosphorus and potassium can be applied each year for four years or the total amount needed for build-up can be applied at one time (4 times the amount shown in the Build-up Fertility Recommendation Table for one year).

The Fertilizer Recommendations are based on yearly applications. If you fertilize for more than one crop at a time, simply add the Fertilizer Recommendations together for the years of these crops.

RETEST IN FOUR YEARS

Agronomist: _____

Due Derooy

Tract 19

SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540

(309)286-2761

Customer: Craig Johnson

Field: AdBtm_09 (#34943)

Description: Andrus Bottoms Frm_Andrus Btms

Acres: 56.8

of Samples: 25

County: Boone

Township: Bonus
































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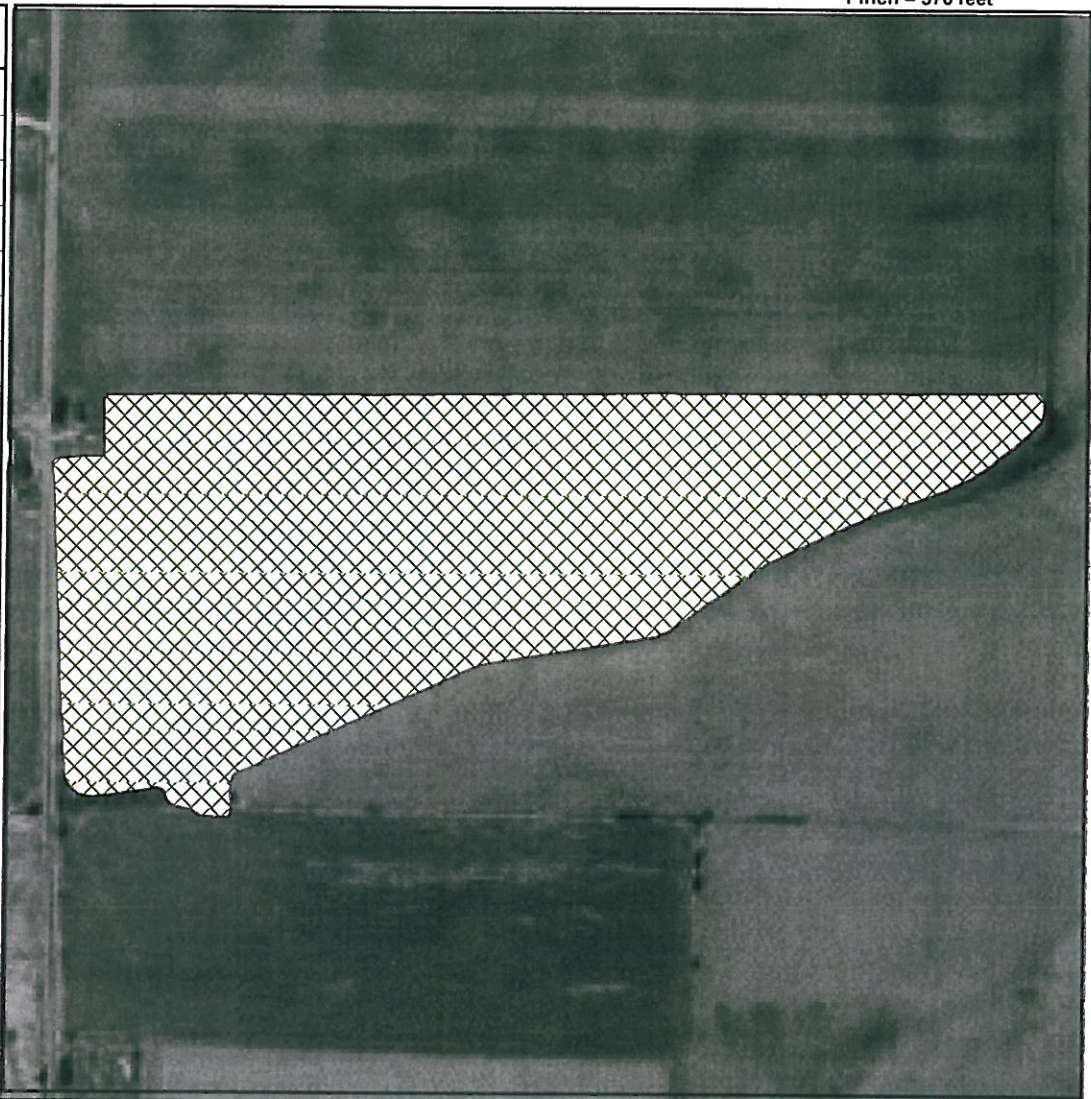
Section: 8

Date Tested: 07/23/2009

1 inch = 576 feet

Farm Map

Legend	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	



Latitude: 42.3129
Longitude: 88.8016
Grid Size: 330nsX330ew

SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761

Customer: Craig Johnson
 Field: AdBtm_09 (#34943)
 Description: Andrus Bottoms Frm_Andrus Btms
 Acres: 56.8
 # of Samples: 25

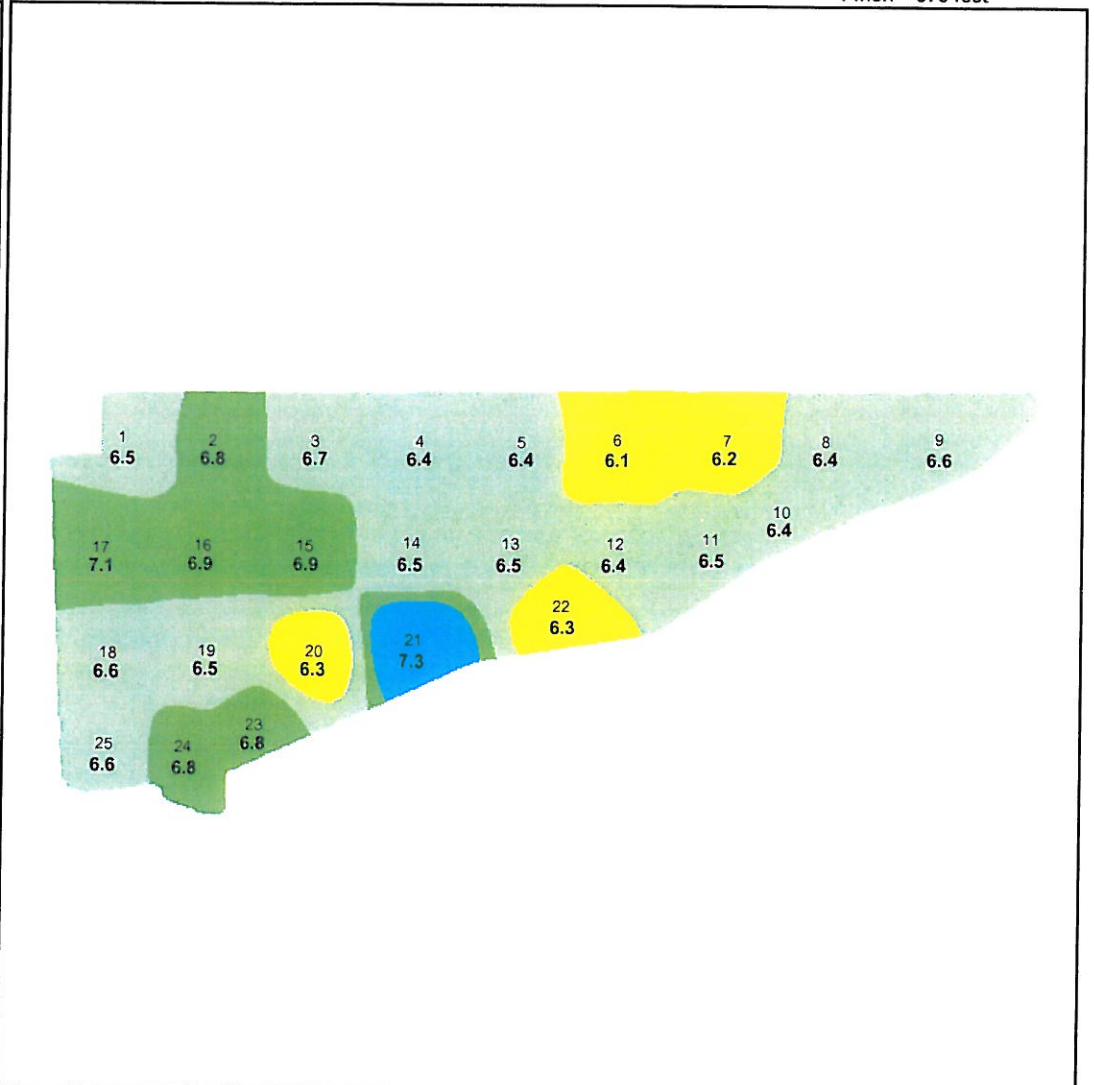
County: Boone
 Township: Bonus
 Range: 4E
 Section: 8
 Date Tested: 07/23/2009

1 inch = 576 feet

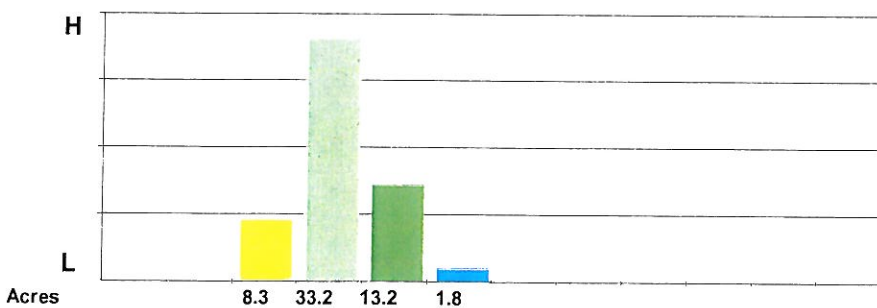
Water pH Results

Legend	
	< 5.5
	5.5 - 5.9
	5.9 - 6.3
	6.3 - 6.7
	6.7 - 7.1
	7.1 - 7.5
	> 7.5

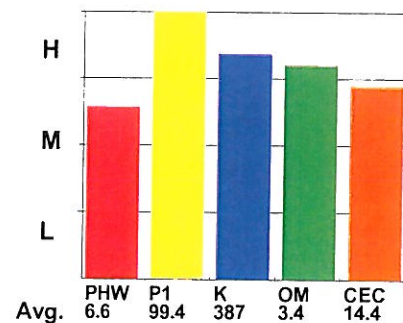
Latitude: 42.3129 Longitude: 88.8016 Grid Size: 330nsX330ew



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761

Customer: Craig Johnson
Field: AdBtm_09 (#34943)
Description: Andrus Bottoms Frm_Andrus Btms
Acres: 56.8
of Samples: 25

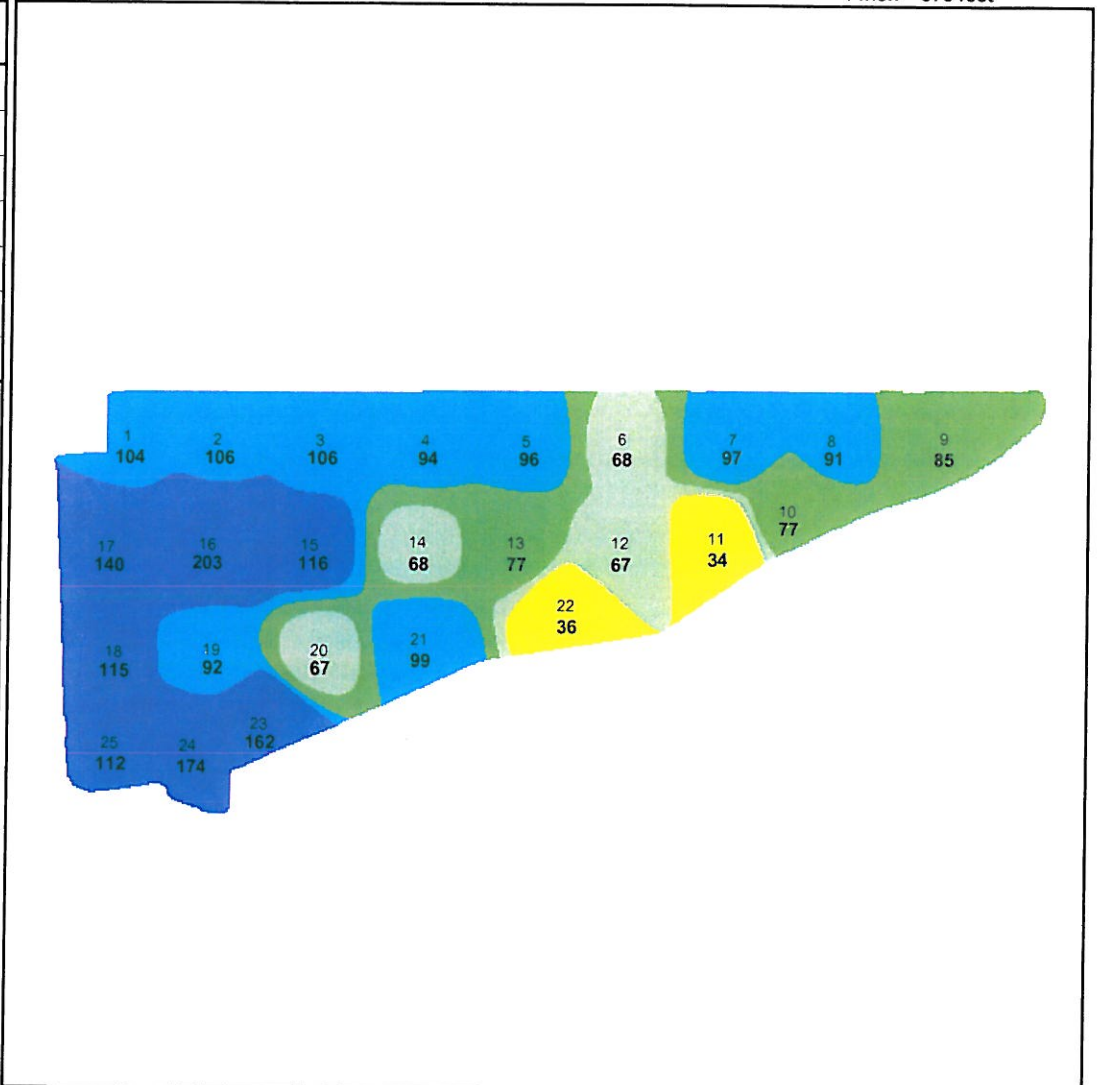
County: Boone
Township: Bonus
Range: 4E
Section: 8
Date Tested: 07/23/2009

1 inch = 576 feet

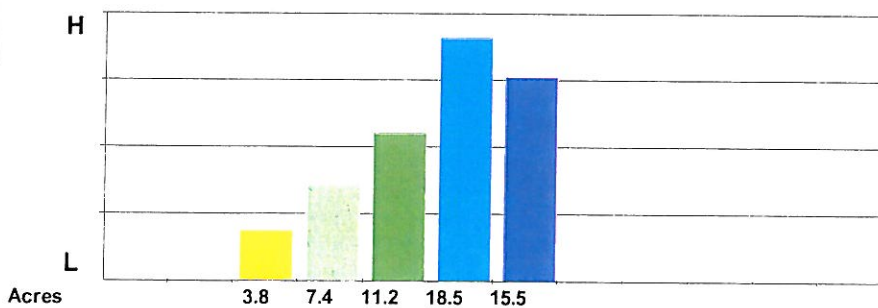
Phosphorus Results

Legend
< 20 Lbs/A
20 - 30 Lbs/A
30 - 50 Lbs/A
50 - 70 Lbs/A
70 - 90 Lbs/A
90 - 110 Lbs/A
> 110 Lbs/A

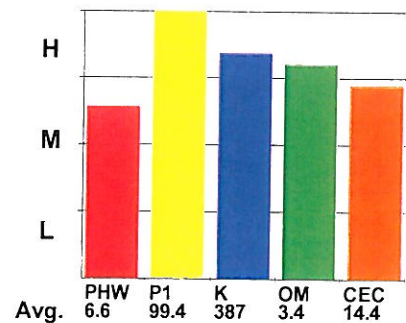
Latitude: 42.3129 Longitude: 88.8016 Grid Size: 330nsX330ew



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761

Customer: Craig Johnson
 Field: AdBtm_09 (#34943)
 Description: Andrus Bottoms Frm_Andrus Btms
 Acres: 56.8
 # of Samples: 25

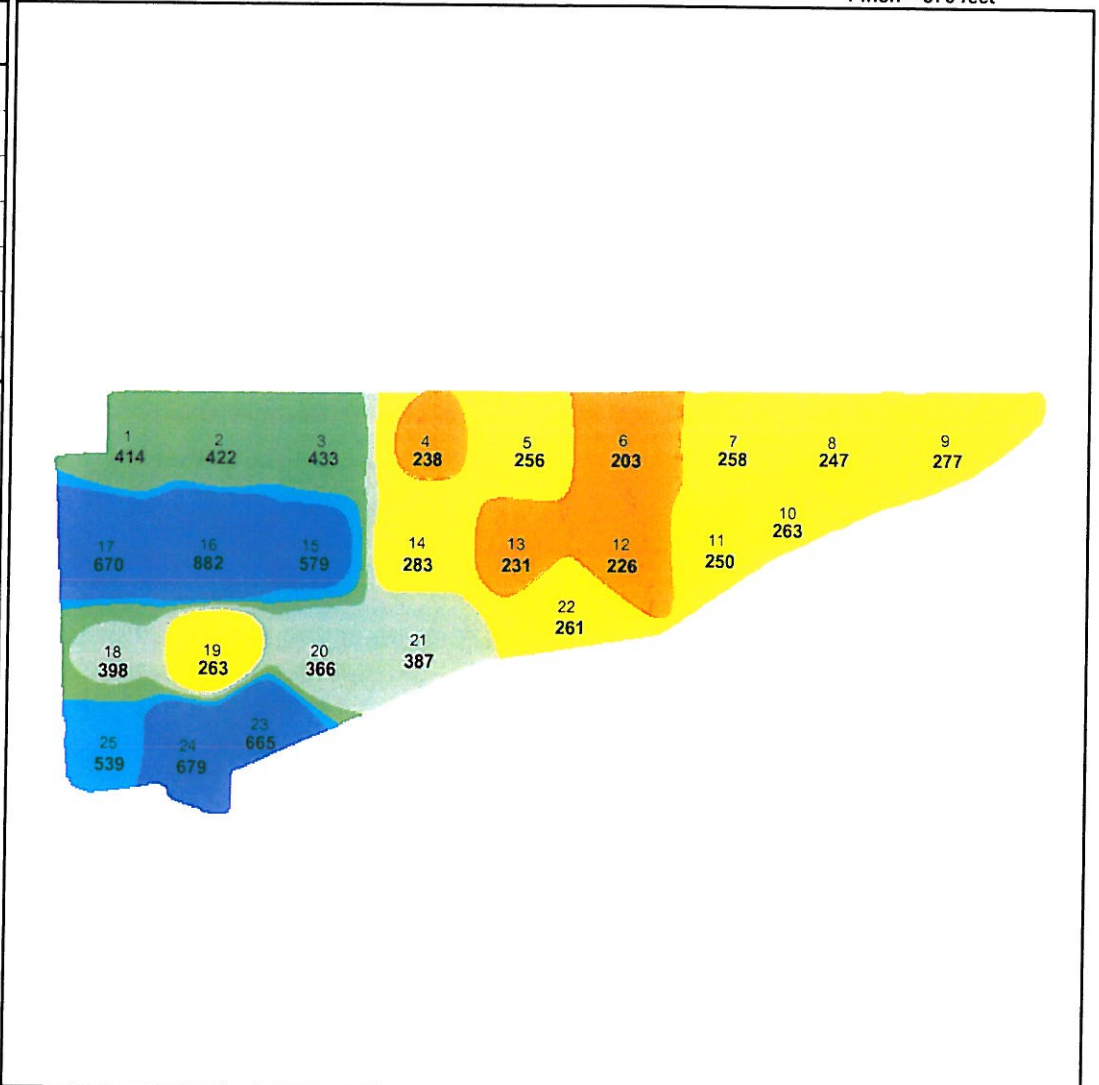
County: Boone
 Township: Bonus
 Range: 4E
 Section: 8
 Date Tested: 07/23/2009

1 inch = 576 feet

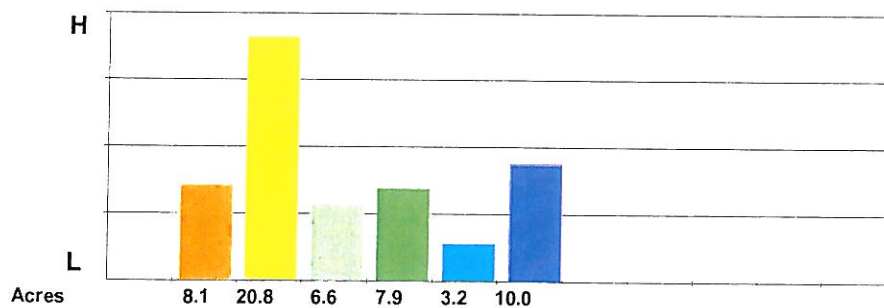
Potassium Results

Legend	
	< 160 Lbs/A
	160 - 240 Lbs/A
	240 - 320 Lbs/A
	320 - 400 Lbs/A
	400 - 480 Lbs/A
	480 - 560 Lbs/A
	> 560 Lbs/A

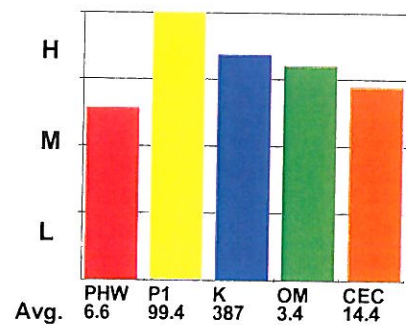
Latitude: 42.3129 Longitude: 88.8016 Grid Size: 330nsX330ew



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY





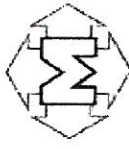
LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Craig Johnson
Samples Submitted by: Craig Johnson
K-B Farms Inc

Order No: 231184
Client ID: 2584

Report Date: 7/23/2009
Farm Name: Andrus Bottoms
Field Name: Andrus Bottoms
Field Acres: 56.8

600 S State St Suite 300
Belvidere, IL 61008-4322



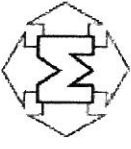
Sample	Water pH		Buffer pH	Pounds Per Acre				Percent Organic Matter	Parts per Million							Lbs/Ac			Percent Saturation			meq/100g			
	Water pH	6.5		6.8	7.0	Phos-phorus	Potassium		Calcium	Magnesium	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf	Bray P1	Bray P2	P BI-Carb	Ca	Mg	K
1	6.5	7.0	104	414	3259	888	3.9														58.8	26.7	3.8	10.6	13.8
2	6.8	7.3	106	422	3481	1027	3.6														61.5	30.3	3.8	4.4	14.1
3	6.7	7.2	106	433	3180	947	3.8														59.8	29.7	4.2	6.4	13.3
4	6.4	7.0	94	238	3306	972	3.5														57.4	28.1	2.1	12.3	14.4
5	6.4	7.0	96	256	3329	964	3.4														57.8	27.9	2.3	12.0	14.4
6	6.1	6.7	68	203	3043	845	3.3														55.0	25.5	1.9	17.7	13.8
7	6.2	6.7	97	258	3244	897	3.6														55.3	25.5	2.3	17.0	14.7
8	6.4	6.9	91	247	3356	972	3.7														57.3	27.7	2.2	12.8	14.6
9	6.6	7.1	85	277	2905	868	3.6														58.9	29.3	2.9	8.9	12.3
10	6.4	7.0	77	263	3879	1075	3.5														58.6	27.1	2.0	12.2	16.5
11	6.5	7.1	34	250	3292	1078	3.3														57.1	31.2	2.2	9.5	14.4
12	6.4	7.0	67	226	3301	957	3.4														58.0	28.0	2.0	11.9	14.2
13	6.6	7.2	77	231	3511	1037	3.5														59.6	29.4	2.0	9.0	14.7
14	6.5	7.0	68	283	3211	906	3.6														59.5	28.0	2.7	9.8	13.5
15	6.9	7.4	116	579	3772	1101	3.8														62.9	30.6	5.0	1.5	15.0
16	6.9	7.4	203	882	3665	1023	3.8														62.2	28.9	7.7	1.2	14.7
17	7.1	7.5	140	670	3527	1036	3.5														63.0	30.8	6.1	0.0	14.0
18	6.6	7.1	115	398	3463	924	3.6														61.3	27.3	3.6	7.9	14.1
19	6.5	7.1	92	263	3457	929	3.5														60.6	27.2	2.4	9.9	14.3
20	6.3	6.9	67	366	3130	1096	3.0														52.3	30.5	3.1	14.0	15.0
21	7.3	7.5	99	387	3617	1398	2.8														58.9	37.9	3.2	0.0	15.4
22	6.3	6.9	36	261	3115	1074	3.0														53.6	30.8	2.3	13.4	14.5
23	6.8	7.4	162	665	4031	1075	3.2														62.4	27.7	5.3	4.7	16.2
24	6.8	7.4	174	679	3421	1048	3.1														59.1	30.2	6.0	4.7	14.5
25	6.6	7.2	112	539	3034	796	3.0														60.6	26.5	5.5	7.3	12.5
Field Median	6.5	7.1	96	282	3328	972	3.5														58.9	28.1	2.9	9.5	14.4



LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc
 600 S State St Suite 300
 Belvidere, IL 61008-4322

Order No: 231184
 Client ID: 2584
 Report Date: 7/23/2009
 Farm Name: Andrus Bottoms
 Field Name: Andrus Bottoms
 Field Acres: 56.8



Sample	Water pH	Buffer pH	Pounds Per Acre			Percent Organic Matter	Parts per Million							Percent Saturation				meg/100g CEC			
			Phosphorus	Potassium	Calcium		Magnesium	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Bray P1	Bray P2		P Bi-Carb	Ca	Mg
Fertility Level																					
Water pH	6.5		V Low	Low	Medium	High	V High														
Phosphorus	96																				
Potassium	282																				
Calcium	3328																				
Magnesium	972																				
Organic Matter	3.5																				
Fertilizer Recommendations are in Pounds per Acre																					
Intended Crop							$N - P_2O_5 - K_2O$							$N - P_2O_5 - K_2O$				$N - P_2O_5 - K_2O$			
Yield Goal							$N - P_2O_5 - K_2O$							$N - P_2O_5 - K_2O$				$N - P_2O_5 - K_2O$			
Build-up							$N - P_2O_5 - K_2O$							$N - P_2O_5 - K_2O$				$N - P_2O_5 - K_2O$			
Crop Removal: IL							$N - P_2O_5 - K_2O$							$N - P_2O_5 - K_2O$				$N - P_2O_5 - K_2O$			
**TOTAL REQUIRED							$N - P_2O_5 - K_2O$							$N - P_2O_5 - K_2O$				$N - P_2O_5 - K_2O$			
Credits:																					
**ADJUSTED RECOMMENDATIONS																					
Adjust Nitrogen Recommendations for Previous Crop or other N Sources.																					

Limestone Recommendations
 CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2
 Previous Crop: Corn Grain Previous Yield: 0 Bu

Optimum Ranges:
 Water pH: 6.3 - 6.8
 Phosphorus: 40.0 - 70.0
 Potassium: 290.0 - 370.0

A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

SGS Mowers Soil Testing Plus, Inc. | 117 E Main Street P.O. Box 540 Toulon, IL 61483 | (309) 286-2761 f (309) 286-6251
www.mowersplus.com
www.cropservices.sgs.com

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231184
Farm Name: Andrus Bottoms
Field Name: Andrus Bottoms

GENERAL FIELD RECOMMENDATIONS

The General Fertility Recommendations are for a Four Year Program of fertility build-up and include crop removal requirements and credits for prior fertilizer plowed down. Also any credits for manure application or nitrogen carried over from prior legumes need to be subtracted. These Fertility Recommendations must be adjusted if your cropping plans or circumstances change (i.e. if crop residues are removed, different yield goals are desired, different crops are grown, etc.) When soil test levels are above the recommended levels, a credit is given at half crop removal for high levels and full crop removal for very high levels.

Use the worksheet below to keep track of your plans and actual results. Please call the Toulon Office at (309)286-2761 or (800)354-8197 if you have any questions. Any of our staff agronomists will be happy to assist you.

Intended Crop	Corn Grain	Soybean	Corn Grain	Soybean
Yield Goal	150 Bu/Ac	50 Bu/Ac	175 Bu/Ac	60 Bu/Ac
	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Build up (4 years)	0 - 0 - 7	0 - 0 - 7	0 - 0 - 7	0 - 0 - 7
Crop Removal	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
TOTAL REQUIRED	180 - 56 - 49	0 - 42 - 72	210 - 65 - 56	0 - 50 - 85
Credits: High Fertility	0 - 28 - 0	0 - 21 - 0	0 - 33 - 0	0 - 25 - 0
ADJUSTED RECOMMENDATION	180 - 28 - 49	0 - 21 - 72	210 - 32 - 56	0 - 25 - 85
Limestone Requirements: 0 Tons/Acre				

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: extension.agron.iastate.edu/soilfertility/nrate.aspx

All Fertility Recommendations are expressed as pounds (units) of actual nutrients per acre. Remember to give credits for the fertility value in manure, nitrogen in dry fertilizer and previous crops, and weed control carriers.

RECORDS OF ACTUAL FERTILITY APPLIED

Year	Actual Crop	Actual Yield	Lime Tons/Ac	Nitrogen Lbs/Acre	Phosphorus Lbs/Acre	Potassium Lbs/Acre

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

OrderID: 231184
FarmName: Andrus Bottoms
FieldName: Andrus Bottoms

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P2O5/Acre) and the actual Potassium (Lbs K2O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
1	0.0	0	0	
2	0.0	0	0	
3	0.0	0	0	
4	0.3	0	52	
5	0.2	0	34	
6	1.3	0	87	
7	1.2	0	32	
8	0.4	0	43	
9	0.0	0	13	
10	0.0	0	57	
11	0.0	14	40	
12	0.2	0	64	
13	0.0	0	59	
14	0.0	0	7	
15	0.0	0	0	
16	0.0	0	0	
17	0.0	0	0	
18	0.0	0	0	
19	0.0	0	27	
20	0.6	0	0	
21	0.0	0	0	
22	0.5	9	29	
23	0.0	0	0	
24	0.0	0	0	
25	0.0	0	0	
Median	0.0	0	7	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231184
Farm Name: Andrus Bottoms
Field Name: Andrus Bottoms

YOUR FERTILITY RECOMMENDATIONS OPTIONS

Build-up phosphorus and potassium can be applied each year for four years or the total amount needed for build-up can be applied at one time (4 times the amount shown in the Build-up Fertility Recommendation Table for one year).

The Fertilizer Recommendations are based on yearly applications. If you fertilize for more than one crop at a time, simply add the Fertilizer Recommendations together for the years of these crops.

RETEST IN FOUR YEARS

Agronomist: *Sue Dorsey*

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Tract 21

SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761



































Customer: Craig Johnson
Field: Larsn_09 (#34855)
Description: Larson Farm_Larson
Acres: 75.6

County: Boone
Township: Bonus
Range: 4E
Section: 9
Date Tested: 07/23/2009

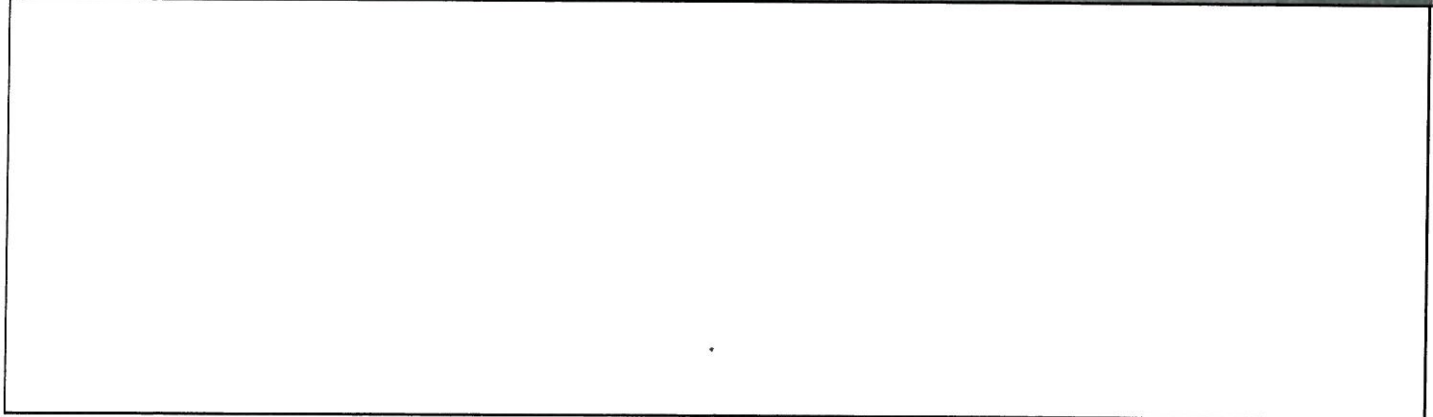
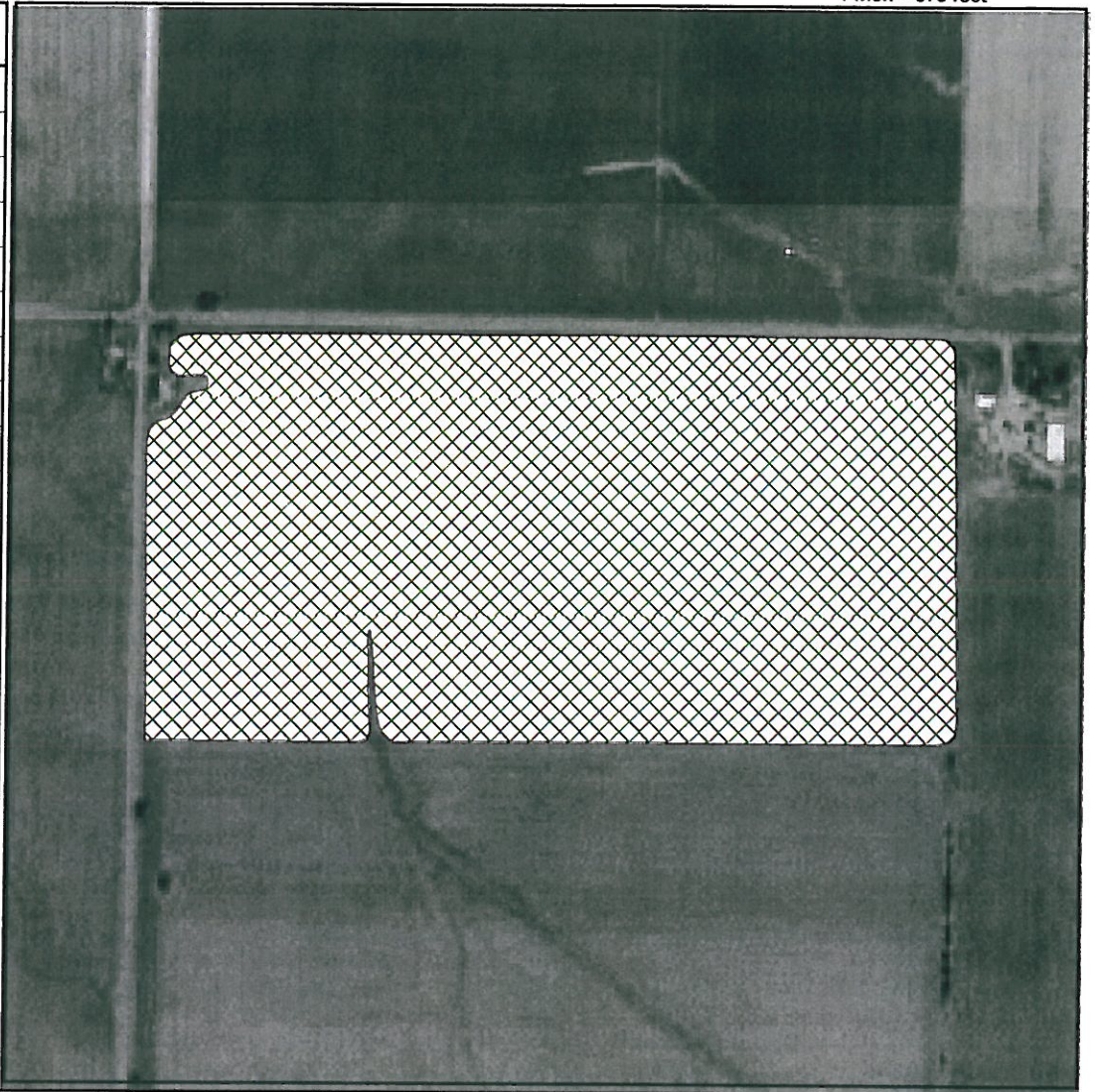
of Samples: 32

1 inch = 573 feet

Farm Map

Legend	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	

Latitude: 42.3159
Longitude: 88.7852
Grid Size: 330nsX330ew



SGS Mowers Soil Testing Plus, Inc.

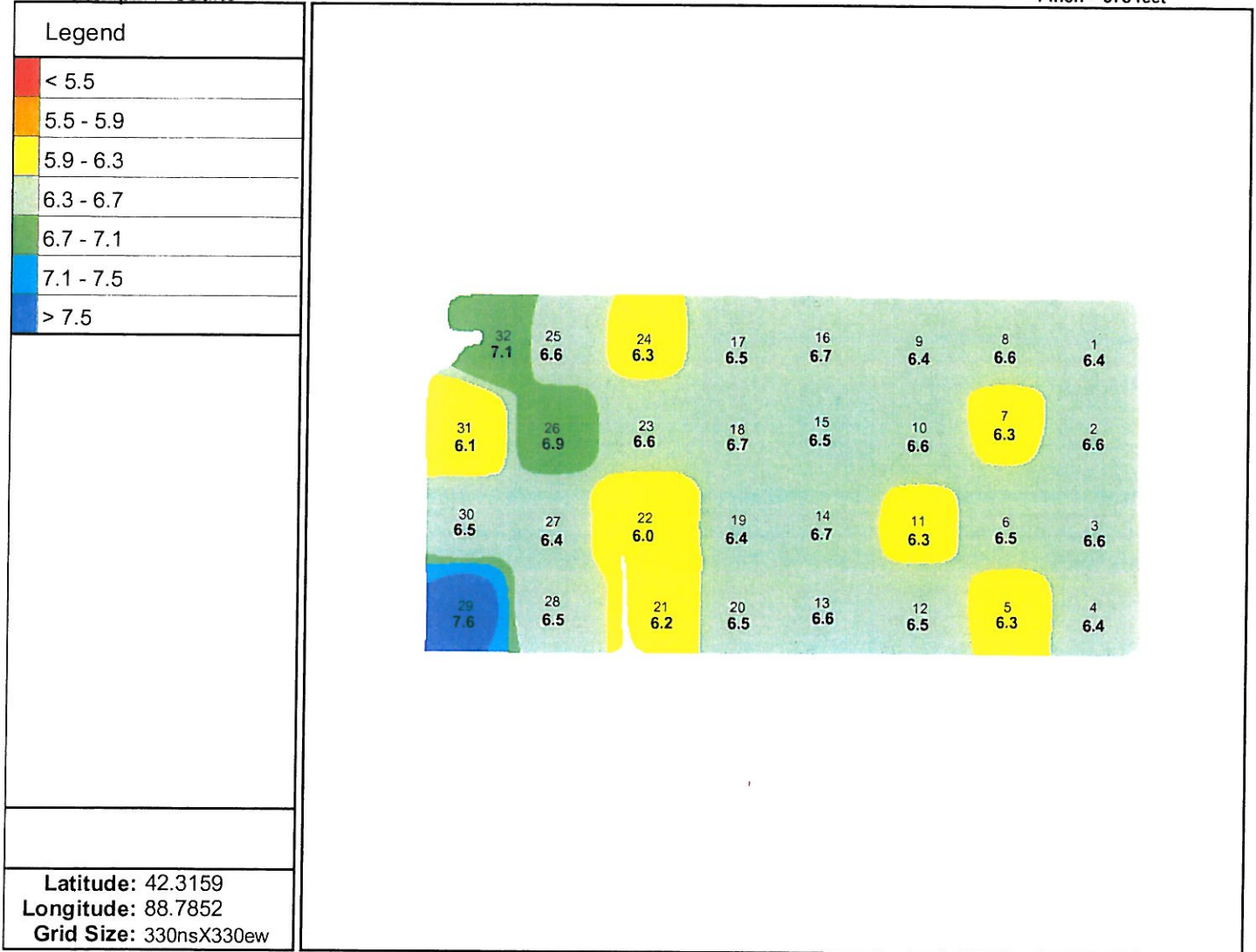
Toulon, IL 61483-0540
(309)286-2761

Customer: Craig Johnson
Field: Larsn_09 (#34855)
Description: Larson Farm_Larson
Acres: 75.6
of Samples: 32

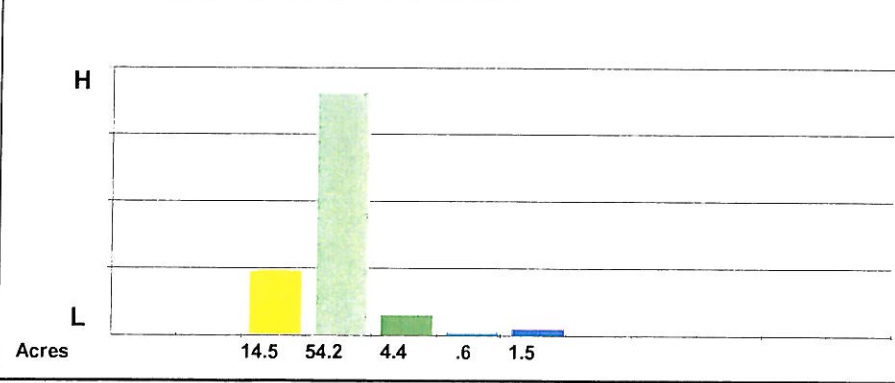
County: Boone
Township: Bonus
Range: 4E
Section: 9
Date Tested: 07/23/2009

1 inch = 573 feet

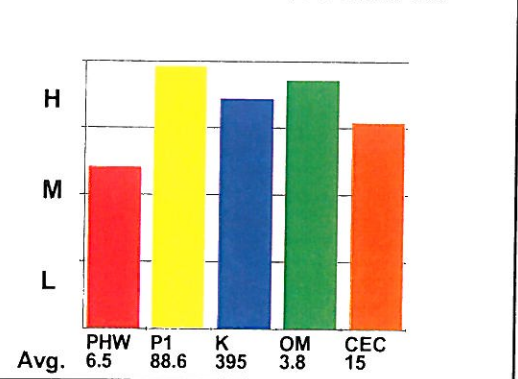
Water pH Results



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761

Customer: Craig Johnson
Field: Larsn_09 (#34855)
Description: Larson Farm_Larson
Acres: 75.6

County: Boone
Township: Bonus
Range: 4E
Section: 9
Date Tested: 07/23/2009

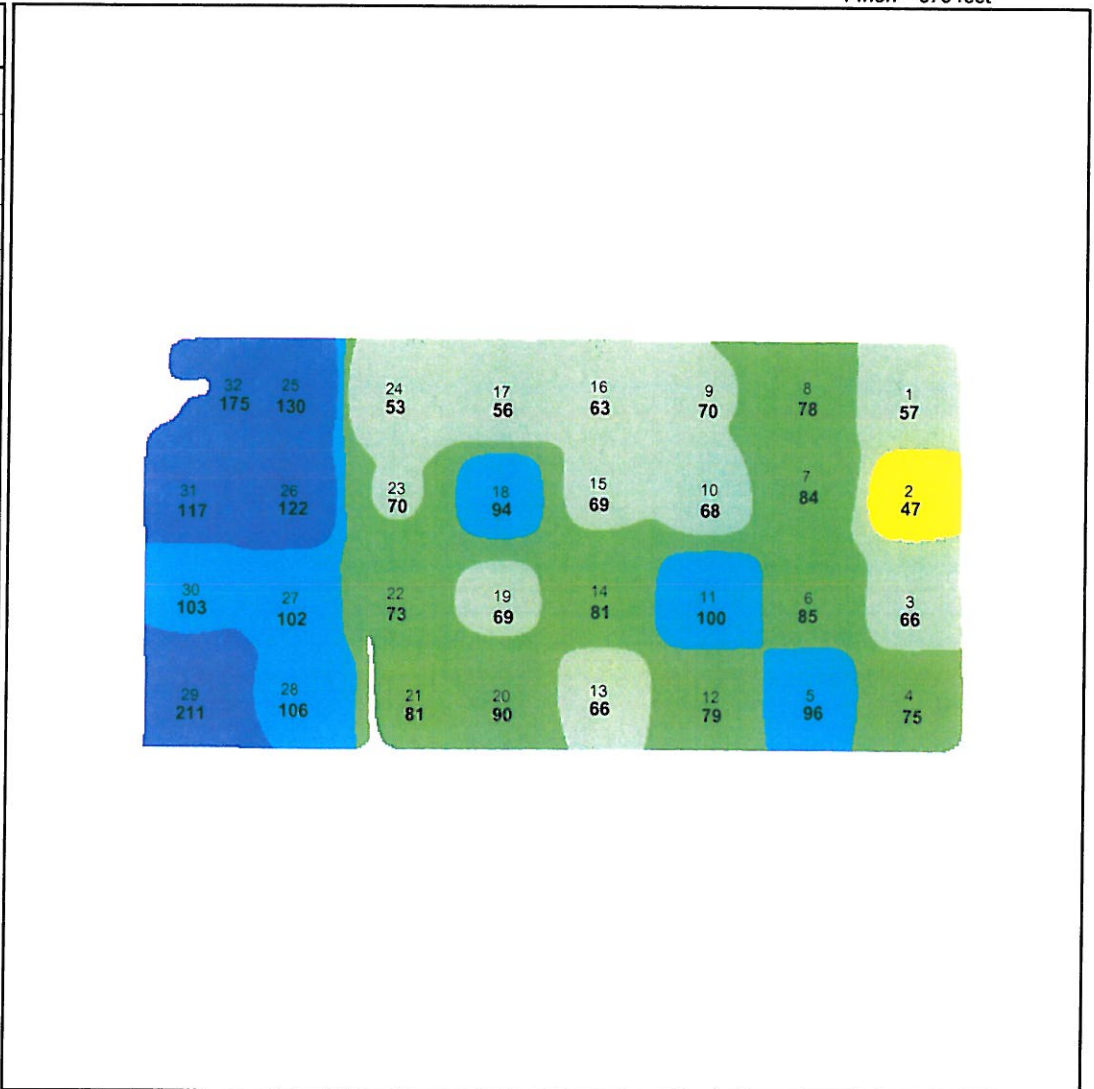
of Samples: 32

1 inch = 573 feet

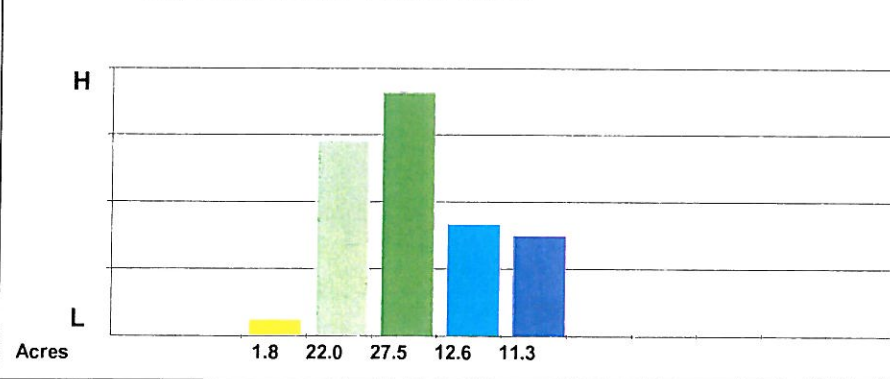
Phosphorus Results

Legend	
	< 20 Lbs/A
	20 - 30 Lbs/A
	30 - 50 Lbs/A
	50 - 70 Lbs/A
	70 - 90 Lbs/A
	90 - 110 Lbs/A
	> 110 Lbs/A

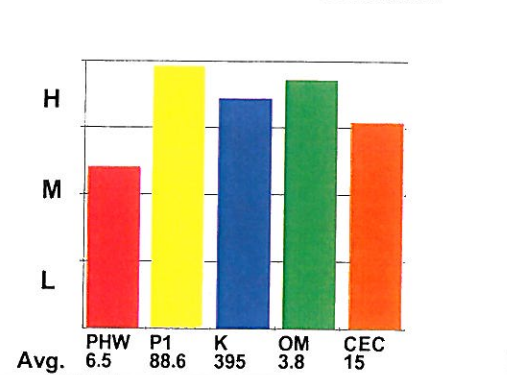
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Longitude: 88.7852
Grid Size: 330nsX330ew



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY





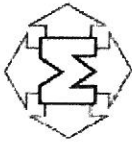
LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Craig Johnson
Samples Submitted by: Craig Johnson
K-B Farms Inc

Order No: 231345
Client ID: 2584

Report Date: 7/22/2009
Farm Name: Larson Farm
Field Name: Larson
Field Acres: 75.6

600 S State St Suite 300
Belvidere, IL 61008-4322



Sample	Water pH		Buffer pH		Pounds Per Acre				Percent Organic Matter		Parts per Million							Percent Saturation				meq/100g	
	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Magnesium	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC	
1	6.4	7.0	57	352	3323	983	3.3											57.1	28.2	3.1	11.6	14.5	
2	6.6	7.2	47	289	3351	1048	3.4											59.3	30.9	2.6	7.1	14.1	
3	6.6	7.1	66	286	3286	993	3.6											58.8	29.6	2.6	8.9	14.0	
4	6.4	6.9	75	292	3649	960	3.8											59.5	26.1	2.4	12.0	15.3	
5	6.3	6.8	96	529	4129	987	4.2											59.3	23.6	3.9	13.2	17.4	
6	6.5	7.0	85	378	3805	1079	4.0											59.2	28.0	3.0	9.9	16.1	
7	6.3	6.8	84	279	3108	885	3.6											56.6	26.9	2.6	14.0	13.7	
8	6.6	7.2	78	359	3240	949	3.5											59.0	28.8	3.3	8.9	13.7	
9	6.4	7.0	70	220	3299	968	3.0											57.4	28.1	2.0	12.6	14.4	
10	6.6	7.2	68	299	3687	1099	3.2											59.9	29.8	2.5	7.8	15.4	
11	6.3	6.8	100	374	3352	946	3.8											56.4	26.5	3.2	13.9	14.9	
12	6.5	7.0	79	287	4226	1078	4.5											62.1	26.4	2.2	9.3	17.0	
13	6.6	7.1	66	366	3382	1069	4.0											58.3	30.7	3.2	7.8	14.5	
14	6.7	7.2	81	306	3235	1039	4.2											59.3	31.7	2.9	6.1	13.6	
15	6.5	7.1	69	287	3130	1021	3.5											56.5	30.7	2.7	10.1	13.8	
16	6.7	7.2	63	285	3202	1018	3.6											59.5	31.5	2.7	6.2	13.4	
17	6.5	7.1	56	284	2804	988	3.3											55.5	32.6	2.9	9.0	12.6	
18	6.7	7.2	94	557	3362	1032	3.7											58.4	29.9	5.0	6.7	14.4	
19	6.4	6.9	69	284	3100	971	3.6											56.7	29.6	2.7	11.0	13.7	
20	6.5	7.0	90	539	4050	1159	4.5											58.0	27.7	4.0	10.4	17.5	
21	6.2	6.7	81	346	3899	1088	4.2											56.2	26.1	2.6	15.1	17.3	
22	6.0	6.6	73	295	2933	854	4.0											51.5	25.0	2.7	20.9	14.2	
23	6.6	7.1	70	262	3505	1109	4.2											58.9	31.1	2.3	7.8	14.9	
24	6.3	6.8	53	295	3330	921	3.6											57.3	26.4	2.6	13.7	14.5	
25	6.6	7.1	130	745	3765	1078	4.2											58.3	27.8	5.9	7.9	16.1	
26	6.9	7.4	122	576	4088	1228	4.3											62.2	31.1	4.5	2.2	16.4	
27	6.4	6.9	102	466	3562	1008	4.5											57.2	27.0	3.8	12.0	15.6	
28	6.5	7.0	106	314	4326	1292	4.2											58.3	29.0	2.2	10.5	18.5	
29	7.6	7.5	211	767	4263	1253	3.5											63.2	31.0	5.8	0.0	16.9	
30	6.5	7.0	103	433	3513	1050	3.6											58.0	28.9	3.7	9.4	15.1	
31	6.1	6.6	117	425	2896	781	4.2											53.6	24.1	4.0	18.3	13.5	
32	7.1	7.5	175	863	3730	979	4.3											64.3	28.1	7.6	0.0	14.5	

SGS Mowers Soil Testing Plus, Inc. | 117 E Main Street PO Box 540 Toulon, IL 61483 t (309) 286-2761 f (309) 286-6251
www.mowersplus.com
www.cropservices.sgs.com

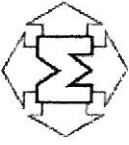
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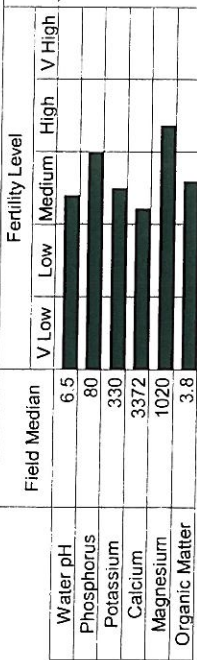
LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc
 600 S State St Suite 300
 Belvidere, IL 61008-4322

Order No: 231345
 Client ID: 2584
 Report Date: 7/22/2009
 Farm Name: Larson Farm
 Field Name: Larson
 Field Acres: 75.6



Sample Field Median	Water pH	Buffer pH	Pounds Per Acre			Percent Organic Matter	Parts per Million										Percent Saturation			meq/100g CEC		
			Phosphorus	Potassium	Calcium		Mag-nesium	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf	Bray P1	Bray P2	P Bi-Carb		Ca	Mg
	6.5	7.0	80	330	3372	3.8												58.3	28.5	2.9	9.7	14.5



Fertilizer Recommendations are in Pounds per Acre

Intended Crop	Yield Goal	Build-up	Crop Removal:	IL
$N - P_2O_5 - K_2O$ $N - P_2O_5 - K_2O$ $N - P_2O_5 - K_2O$ $N - P_2O_5 - K_2O$				
**TOTAL REQUIRED Credits: **ADJUSTED RECOMMENDATIONS				
Adjust Nitrogen Recommendations for Previous Crop or other N Sources.				

Limestone Recommendations

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2
 Previous Crop: Corn Grain Previous Yield: 0 Bu

Optimum Ranges:
 Water pH: 6.3 - 6.8
 Phosphorus: 50.0 - 80.0
 Potassium: 290.0 - 370.0

SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231345
Farm Name: Larson Farm
Field Name: Larson

GENERAL FIELD RECOMMENDATIONS

The General Fertility Recommendations are for a Four Year Program of fertility build-up and include crop removal requirements and credits for prior fertilizer plowed down. Also any credits for manure application or nitrogen carried over from prior legumes need to be subtracted. These Fertility Recommendations must be adjusted if your cropping plans or circumstances change (i.e. if crop residues are removed, different yield goals are desired, different crops are grown, etc.) When soil test levels are above the recommended levels, a credit is given at half crop removal for high levels and full crop removal for very high levels.

Use the worksheet below to keep track of your plans and actual results. Please call the Toulon Office at (309)286-2761 or (800)354-8197 if you have any questions. Any of our staff agronomists will be happy to assist you.

Intended Crop	Corn Grain	Soybean	Corn Grain	Soybean
Yield Goal	150 Bu/Ac	50 Bu/Ac	175 Bu/Ac	60 Bu/Ac
	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Build up (4 years)	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0
Crop Removal	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
TOTAL REQUIRED	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
Credits: High Fertility	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0
ADJUSTED RECOMMENDATION	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
Limestone Requirements: 0 Tons/Acre				

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: extension.agron.iastate.edu/soilfertility/nrate.aspx

All Fertility Recommendations are expressed as pounds (units) of actual nutrients per acre. Remember to give credits for the fertility value in manure, nitrogen in dry fertilizer and previous crops, and weed control carriers.

RECORDS OF ACTUAL FERTILITY APPLIED

Year	Actual Crop	Actual Yield	Lime Tons/Ac	Nitrogen Lbs/Acre	Phosphorus Lbs/Acre	Potassium Lbs/Acre

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

OrderID: 231345
FarmName: Larson Farm
FieldName: Larson

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P2O5/Acre) and the actual Potassium (Lbs K2O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
1	0.2	0	0	
2	0.0	6	1	
3	0.0	0	4	
4	0.2	0	0	
5	0.2	0	0	
6	0.0	0	0	
7	0.6	0	11	
8	0.0	0	0	
9	0.3	0	70	
10	0.0	0	0	
11	0.6	0	0	
12	0.0	0	33	
13	0.0	0	0	
14	0.0	0	0	
15	0.0	0	3	
16	0.0	0	5	
17	0.0	0	6	
18	0.0	0	0	
19	0.1	0	6	
20	0.0	0	0	
21	0.8	0	0	
22	1.9	0	0	
23	0.0	0	28	
24	0.6	0	0	
25	0.0	0	0	
26	0.0	0	0	
27	0.2	0	0	
28	0.0	0	6	
29	0.0	0	0	
30	0.0	0	0	
31	1.4	0	0	
32	0.0	0	0	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

OrderID: 231345
FarmName: Larson Farm
FieldName: Larson

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P₂O₅/Acre) and the actual Potassium (Lbs K₂O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
Median	0.0	0	0	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231345
Farm Name: Larson Farm
Field Name: Larson

YOUR FERTILITY RECOMMENDATIONS OPTIONS

Build-up phosphorus and potassium can be applied each year for four years or the total amount needed for build-up can be applied at one time (4 times the amount shown in the Build-up Fertility Recommendation Table for one year).

The Fertilizer Recommendations are based on yearly applications. If you fertilize for more than one crop at a time, simply add the Fertilizer Recommendations together for the years of these crops.

RETEST IN FOUR YEARS

Agronomist: *Sue Dorsey*

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Tract 25

SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540

(309)286-2761

Customer: Craig Johnson

Field: ABurt_09 (#34860)

Description: A. Burton Farm_A Burton

Acres: 75.1

of Samples: 31

County: Boone

Township: Bonus

Range: 4E











Section: 4

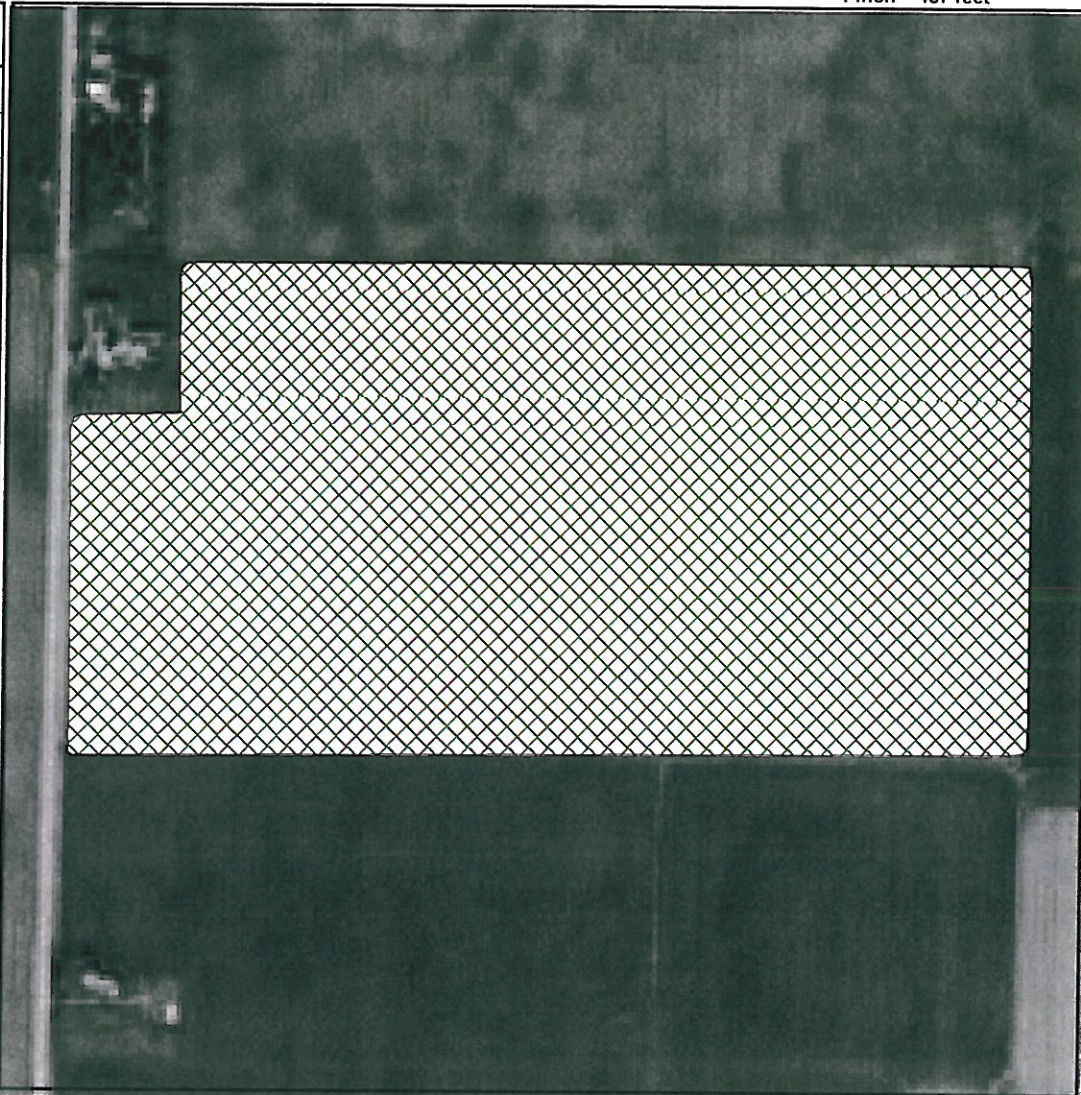
Date Tested: 07/23/2009

1 inch = 487 feet

Farm Map

Legend



Latitude: 42.3259
Longitude: 88.7843
Grid Size: 330nsX330ew

SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540

(309)286-2761

Customer: Craig Johnson
 Field: ABurt_09 (#34860)
 Description: A. Burton Farm_A Burton
 Acres: 75.1
 # of Samples: 31

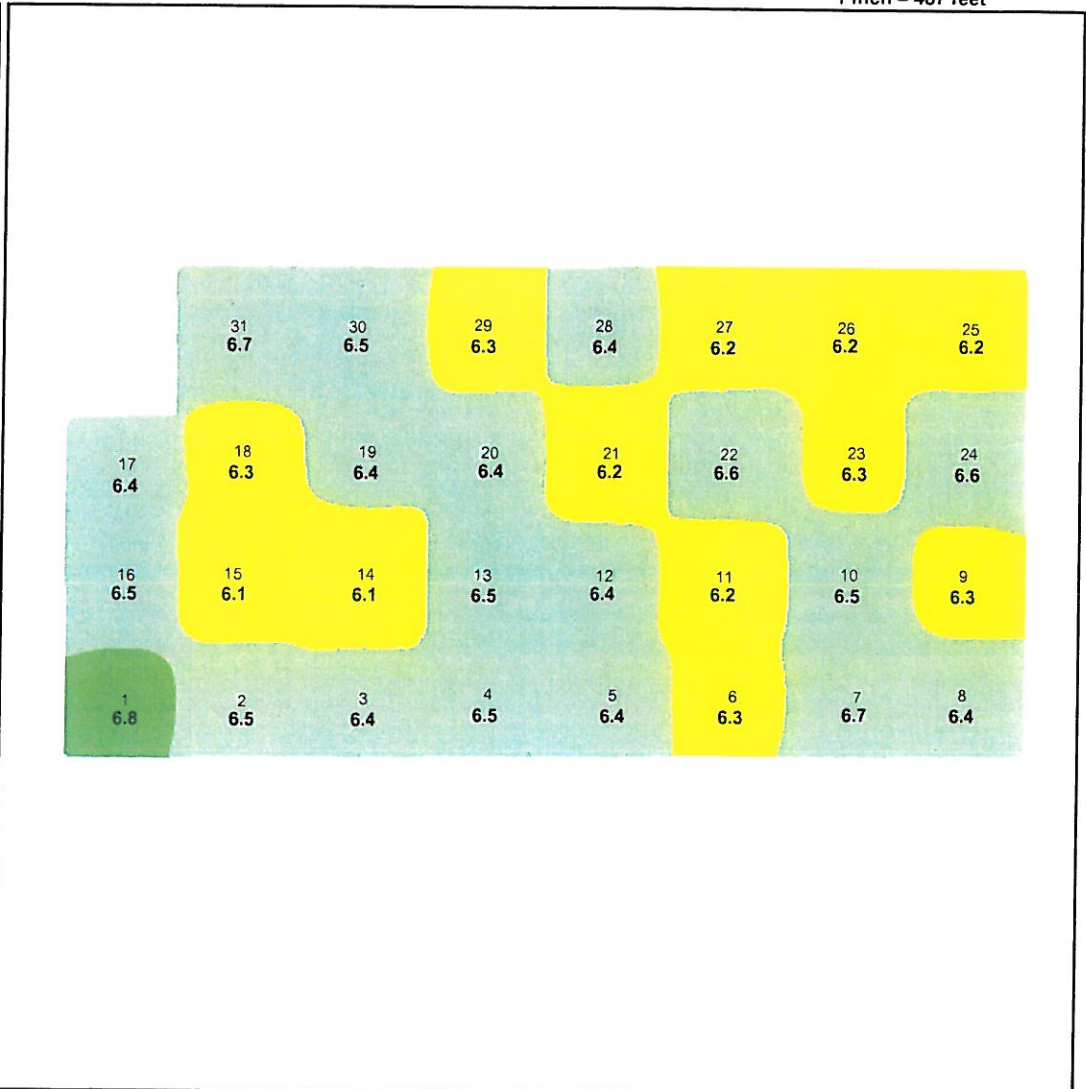
County: Boone
 Township: Bonus
 Range: 4E
 Section: 4
 Date Tested: 07/23/2009

1 inch = 487 feet

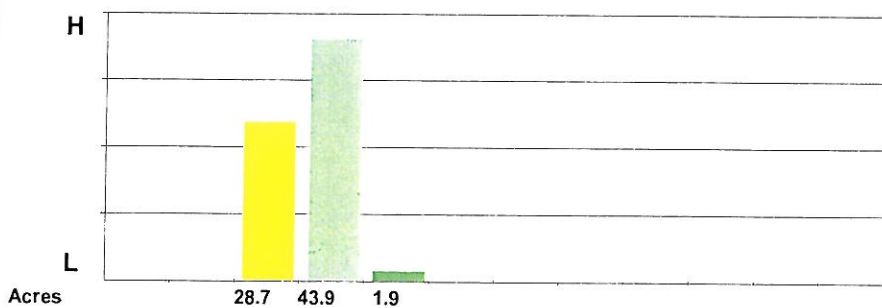
Water pH Results

Legend	
	< 5.5
	5.5 - 5.9
	5.9 - 6.3
	6.3 - 6.7
	6.7 - 7.1
	7.1 - 7.5
	> 7.5

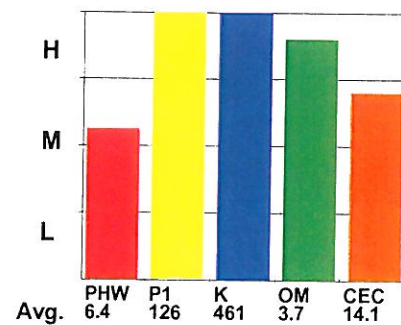
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BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540

(309)286-2761

Customer: Craig Johnson
 Field: ABurt_09 (#34860)
 Description: A. Burton Farm_A Burton
 Acres: 75.1

County: Boone
 Township: Bonus
 Range: 4E
 Section: 4
 Date Tested: 07/23/2009

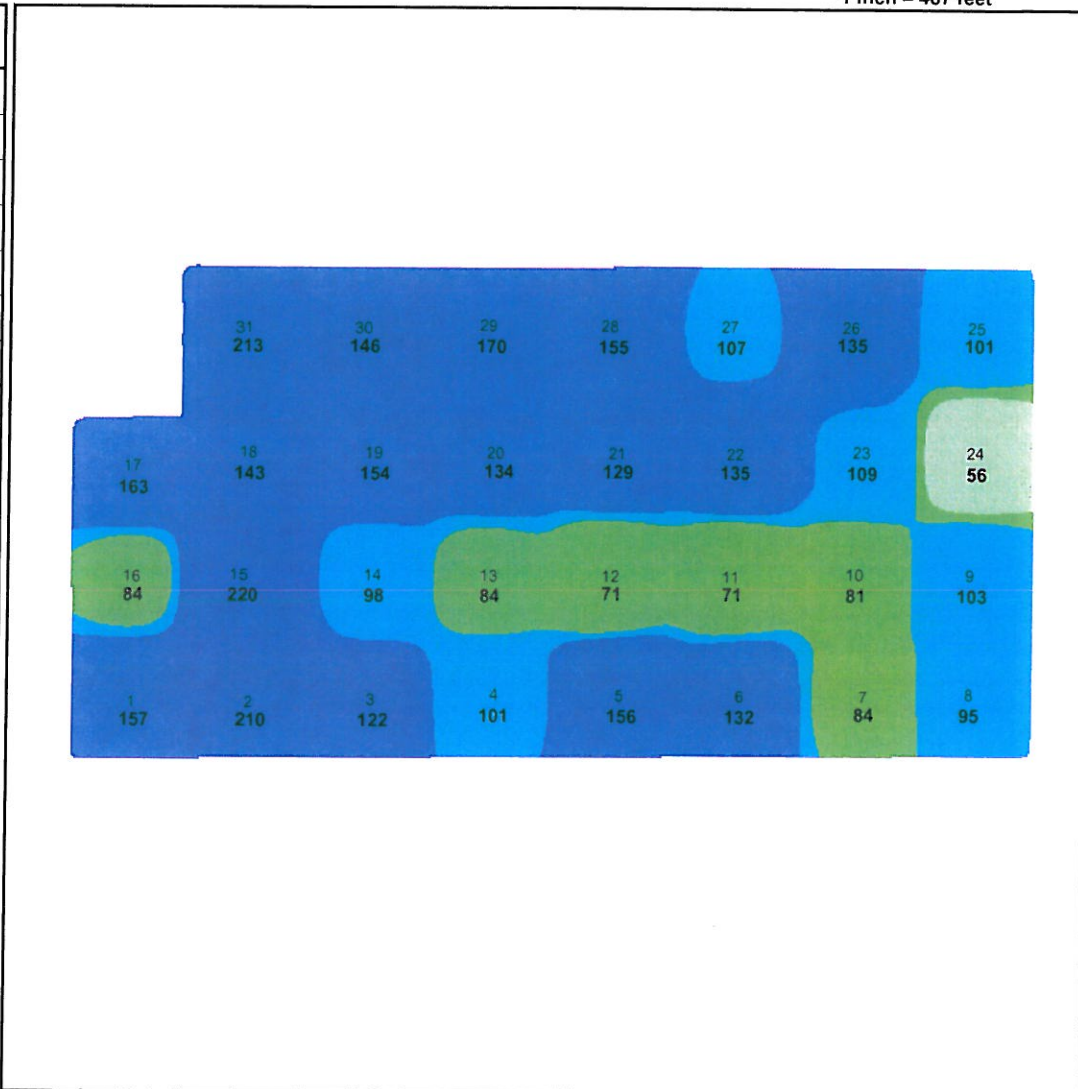
of Samples: 31

1 inch = 487 feet

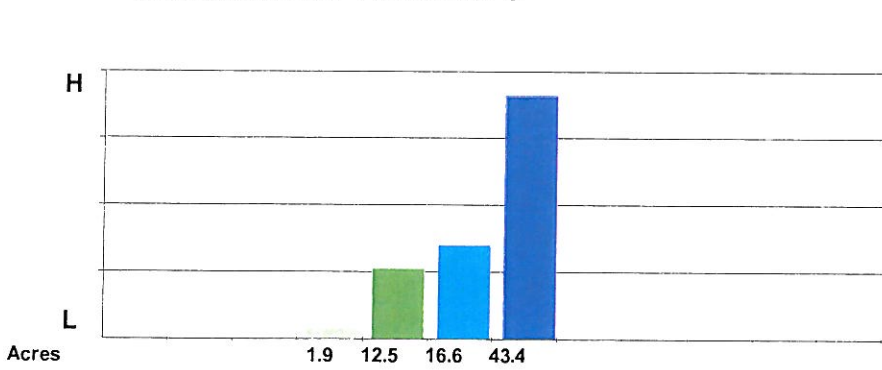
Phosphorus Results

Legend	
	< 20 Lbs/A
	20 - 30 Lbs/A
	30 - 50 Lbs/A
	50 - 70 Lbs/A
	70 - 90 Lbs/A
	90 - 110 Lbs/A
	> 110 Lbs/A

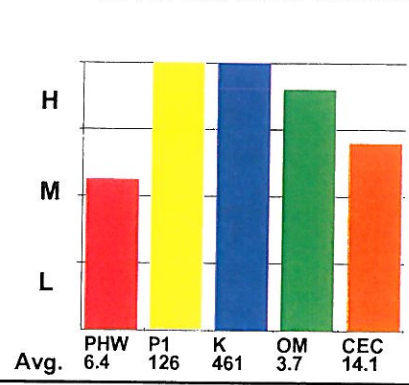
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Longitude: 88.7843
Grid Size: 330nsX330ew



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761

Customer: Craig Johnson
Field: ABurt_09 (#34860)
Description: A. Burton Farm_A Burton
Acres: 75.1
of Samples: 31

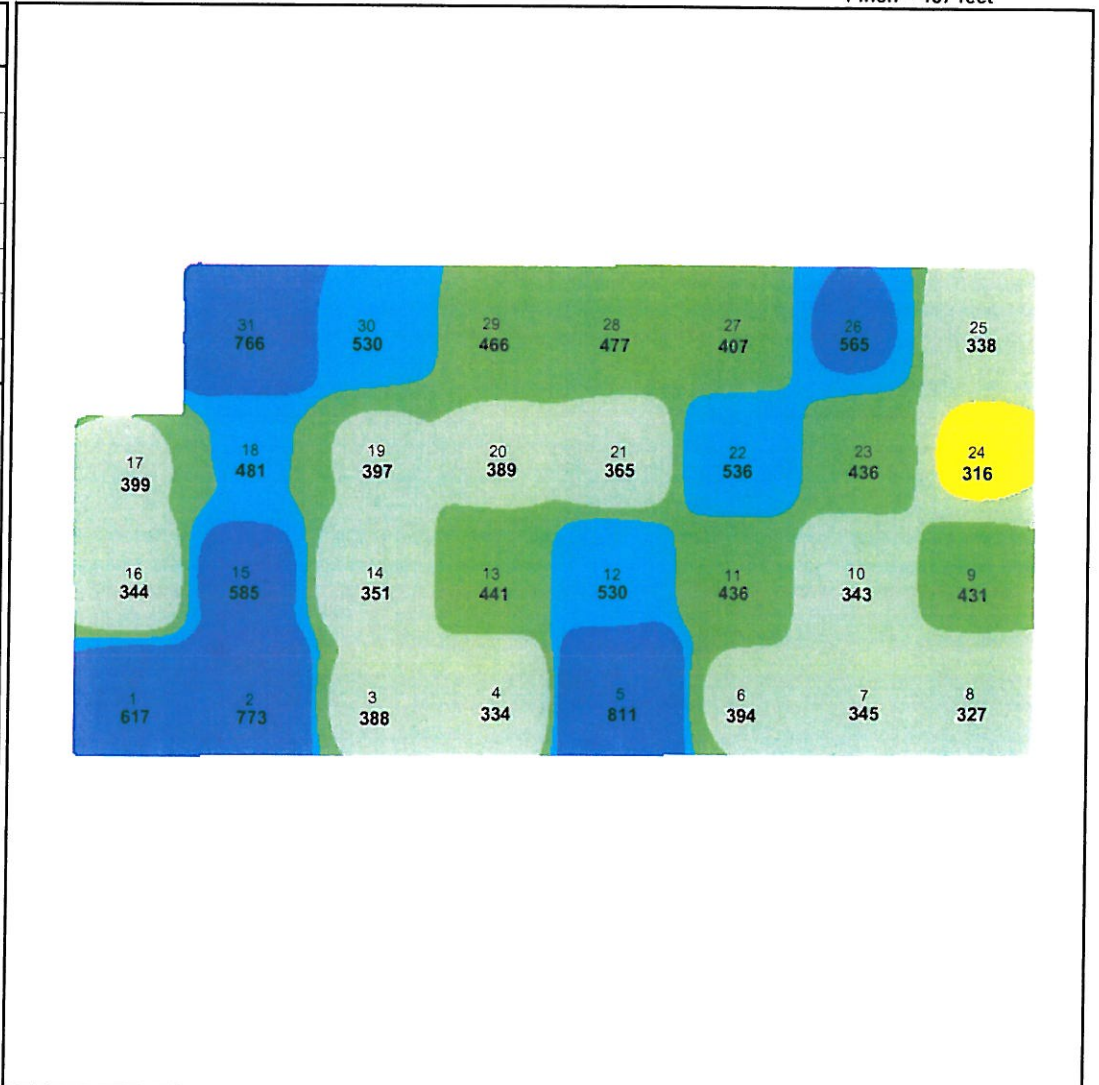
County: Boone
Township: Bonus
Range: 4E
Section: 4
Date Tested: 07/23/2009

1 inch = 487 feet

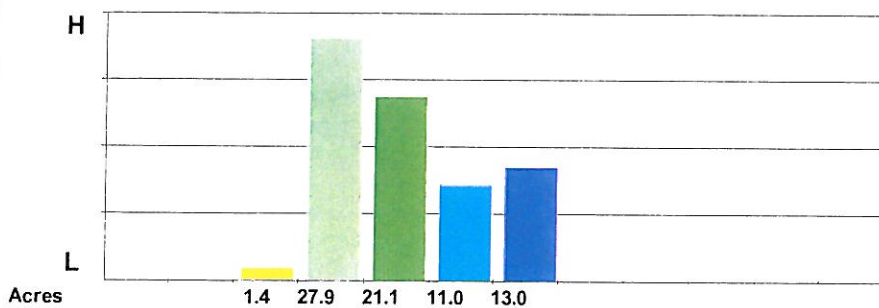
Potassium Results

Legend	
■	< 160 Lbs/A
■	160 - 240 Lbs/A
■	240 - 320 Lbs/A
■	320 - 400 Lbs/A
■	400 - 480 Lbs/A
■	480 - 560 Lbs/A
■	> 560 Lbs/A

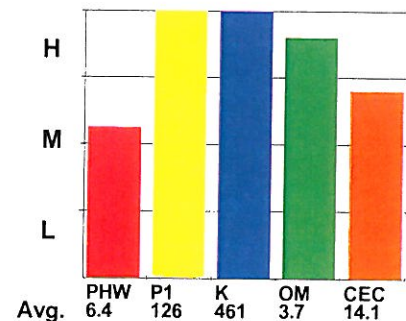
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BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY





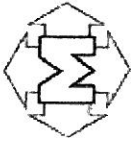
LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc

Order No: 231334
 Client ID: 2584

Report Date: 7/22/2009
 Farm Name: A. Burton Farm
 Field Name: A Burton
 Field Acres: 75.1

600 S State St Suite 300
 Belvidere, IL 61008-4322



Sample	Water pH		Buffer pH	Pounds Per Acre				Percent Organic Matter	Parts per Million							Lbs/Ac				Percent Saturation				meq/100g CEC
	6.8	6.5		6.9	Phos-phorus	Potassium	Calcium		Magnesium	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	
1			7.3	157	617	3877	1082	4.5												61.6	28.7	5.0	4.7	15.7
2			6.9	210	773	3246	884	4.6												56.7	25.7	6.9	10.7	14.3
3			6.9	122	388	3207	977	3.8												56.4	28.6	3.5	11.5	14.2
4			7.1	101	334	3047	957	3.5												56.9	29.8	3.2	10.0	13.4
5			6.9	156	811	3441	1019	3.6												54.1	26.7	6.5	12.6	15.9
6			6.8	132	394	3174	931	4.2												55.4	27.1	3.5	14.0	14.3
7			7.3	84	345	3064	1012	3.5												58.0	32.0	3.3	6.6	13.2
8			7.0	95	327	2808	906	3.3												55.1	29.7	3.3	11.9	12.7
9			6.8	103	431	3461	995	3.9												56.0	26.8	3.6	13.6	15.5
10			7.0	81	343	3170	1007	4.0												57.4	30.4	3.2	9.0	13.8
11			6.8	71	436	2650	843	3.5												52.2	27.7	4.4	15.7	12.7
12			6.9	71	530	2926	949	3.6												54.0	29.2	5.0	11.8	13.6
13			7.0	84	441	3051	948	3.6												56.0	29.0	4.2	10.8	13.6
14			6.7	98	351	3089	877	3.5												53.2	25.2	3.1	18.5	14.5
15			6.6	220	585	3301	907	4.2												52.4	24.0	4.8	18.9	15.8
16			7.0	84	344	2981	892	3.6												58.1	28.9	3.4	9.6	12.8
17			6.9	163	399	3084	831	3.9												58.6	26.3	3.9	11.2	13.2
18			6.9	143	481	3143	896	3.5												55.2	26.2	4.3	14.3	14.2
19			6.9	154	397	3168	853	3.8												57.8	25.9	3.7	12.5	13.7
20			6.9	134	389	3387	972	4.0												57.3	27.4	3.4	11.9	14.8
21			6.7	129	365	3319	972	4.2												54.6	26.7	3.1	15.6	15.2
22			7.1	135	536	3255	993	4.1												57.3	29.1	4.8	8.8	14.2
23			6.8	109	436	3152	916	3.6												55.1	26.7	3.9	14.3	14.3
24			7.3	56	316	3165	1181	2.5												54.6	34.0	2.8	8.6	14.5
25			6.8	101	338	2710	756	3.0												54.4	25.3	3.5	16.9	12.5
26			6.8	135	565	3076	870	3.2												53.6	25.3	5.1	16.0	14.3
27			6.8	107	407	2872	932	3.5												52.3	28.3	3.8	15.6	13.7
28			6.9	155	477	3202	951	3.6												56.0	27.7	4.3	12.0	14.3
29			6.9	170	466	3027	859	3.5												55.2	26.1	4.4	14.4	13.7
30			7.1	146	530	2964	891	3.4												56.4	28.3	5.2	10.1	13.1
31			7.2	213	766	3386	972	3.8												59.2	28.3	6.9	5.6	14.3
Field Median			6.9	130	432	3152	932	3.6												56.0	27.7	3.9	11.9	14.2

SGS Mowers Soil Testing Plus, Inc. 117 E Main Street, PO Box 540 Toulon, IL 61483 t (309) 286-2761 f (309) 286-6251
 www.mowersplus.com www.cropservices.sgs.com

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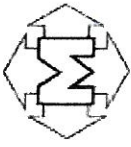
LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Craig Johnson
Samples Submitted by: Craig Johnson
K-B Farms Inc

Order No: 231334
Client ID: 2584

Report Date: 7/22/2009
Farm Name: A. Burton Farm
Field Name: A Burton
Field Acres: 75.1

600 S State St Suite 300
Belvidere, IL 61008-4322



Sample	Water pH	Buffer pH	Pounds Per Acre					Percent Organic Matter	Parts per Million										Percent Saturation		meq/100g CEC					
			Phosphorus	Potassium	Calcium	Magnesium	Sulfur		Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf	Bray P1	Bray P2	P Bi-Carb	Ca		Mg	K	H		
Fertility Level																										
Water pH	6.4		V Low	Low	Medium	High	V High																			
Phosphorus	130																									
Potassium	432																									
Calcium	3152																									
Magnesium	932																									
Organic Matter	3.6																									
Fertilizer Recommendations are in Pounds per Acre																										
Intended Crop								$N - P_2O_5 - K_2O$								$N - P_2O_5 - K_2O$										
Yield Goal								$N - P_2O_5 - K_2O$								$N - P_2O_5 - K_2O$										
Crop Removal: IL								$N - P_2O_5 - K_2O$								$N - P_2O_5 - K_2O$										
**TOTAL REQUIRED																										
Credits:																										
**ADJUSTED RECOMMENDATIONS																										
Adjust Nitrogen Recommendations for Previous Crop or other N Sources.																										
Limestone Recommendations																										
CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2																										
Previous Crop: Corn Grain Previous Yield: 0 Bu																										

Optimum Ranges:
Water pH: 6.3 - 6.8
Phosphorus: 50.0 - 80.0
Potassium: 290.0 - 370.0

A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231334
Farm Name: A. Burton Farm
Field Name: A Burton

GENERAL FIELD RECOMMENDATIONS

The General Fertility Recommendations are for a Four Year Program of fertility build-up and include crop removal requirements and credits for prior fertilizer plowed down. Also any credits for manure application or nitrogen carried over from prior legumes need to be subtracted. These Fertility Recommendations must be adjusted if your cropping plans or circumstances change (i.e. if crop residues are removed, different yield goals are desired, different crops are grown, etc.) When soil test levels are above the recommended levels, a credit is given at half crop removal for high levels and full crop removal for very high levels.

Use the worksheet below to keep track of your plans and actual results. Please call the Toulon Office at (309)286-2761 or (800)354-8197 if you have any questions. Any of our staff agronomists will be happy to assist you.

Intended Crop	Corn Grain	Soybean	Corn Grain	Soybean
Yield Goal	150 Bu/Ac	50 Bu/Ac	175 Bu/Ac	60 Bu/Ac
	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Build up (4 years)	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0
Crop Removal	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
TOTAL REQUIRED	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
Credits: High Fertility	0 - 56 - 21	0 - 42 - 33	0 - 65 - 25	0 - 50 - 39
ADJUSTED RECOMMENDATION	180 - 0 - 21	0 - 0 - 32	210 - 0 - 24	0 - 0 - 39
Limestone Requirements: 0.22 Tons/Acre				

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: extension.agron.iastate.edu/soilfertility/nrate.aspx

All Fertility Recommendations are expressed as pounds (units) of actual nutrients per acre. Remember to give credits for the fertility value in manure, nitrogen in dry fertilizer and previous crops, and weed control carriers.

RECORDS OF ACTUAL FERTILITY APPLIED

Year	Actual Crop	Actual Yield	Lime Tons/Ac	Nitrogen Lbs/Acre	Phosphorus Lbs/Acre	Potassium Lbs/Acre

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

OrderID: 231334
FarmName: A. Burton Farm
FieldName: A Burton

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P₂O₅/Acre) and the actual Potassium (Lbs K₂O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
1	0.0	0	0	
2	0.0	0	0	
3	0.1	0	0	
4	0.0	0	0	
5	0.4	0	0	
6	0.6	0	0	
7	0.0	0	0	
8	0.2	0	0	
9	0.6	0	0	
10	0.0	0	0	
11	0.9	0	0	
12	0.2	0	0	
13	0.0	0	0	
14	1.5	0	0	
15	1.6	0	0	
16	0.0	0	0	
17	0.1	0	0	
18	0.7	0	0	
19	0.3	0	0	
20	0.2	0	0	
21	0.9	0	0	
22	0.0	0	0	
23	0.7	0	0	
24	0.0	0	0	
25	1.2	0	0	
26	1.0	0	0	
27	0.9	0	0	
28	0.2	0	0	
29	0.7	0	0	
30	0.0	0	0	
31	0.0	0	0	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

OrderID: 231334
FarmName: A. Burton Farm
FieldName: A Burton

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P₂O₅/Acre) and the actual Potassium (Lbs K₂O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
Median	0.2	0	0	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231334
Farm Name: A. Burton Farm
Field Name: A Burton

YOUR FERTILITY RECOMMENDATIONS OPTIONS

Adjust the limestone recommendations for your tillage practices.

Build-up phosphorus and potassium can be applied each year for four years or the total amount needed for build-up can be applied at one time (4 times the amount shown in the Build-up Fertility Recommendation Table for one year).

The Fertilizer Recommendations are based on yearly applications. If you fertilize for more than one crop at a time, simply add the Fertilizer Recommendations together for the years of these crops.

RETEST IN FOUR YEARS

Agronomist: *Due Dray*

Tracts 40 & 41

SGS Mowers Soil Testing Plus, Inc.








































Toulon, IL 61483-0540
(309)286-2761

Customer: K-B Farms Inc
Field: Drsdn_09 (#34747)
Description: Dresdner Farm_North and South
Acres: 104.2
of Samples: 29

County: Boone
Township: Boone
Range: 4E
Section: 1
Date Tested: 07/27/2009

1 inch = 690 feet

Farm Map

Legend	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	

Latitude: 42.4116
Longitude: 88.7260
Grid Size: 440nsX440ew



SGS Mowers Soil Testing Plus, Inc.








Toulon, IL 61483-0540
(309)286-2761

Customer: K-B Farms Inc
Field: Drsdn_09 (#34747)
Description: Dresdner Farm_North and South
Acres: 104.2
of Samples: 29

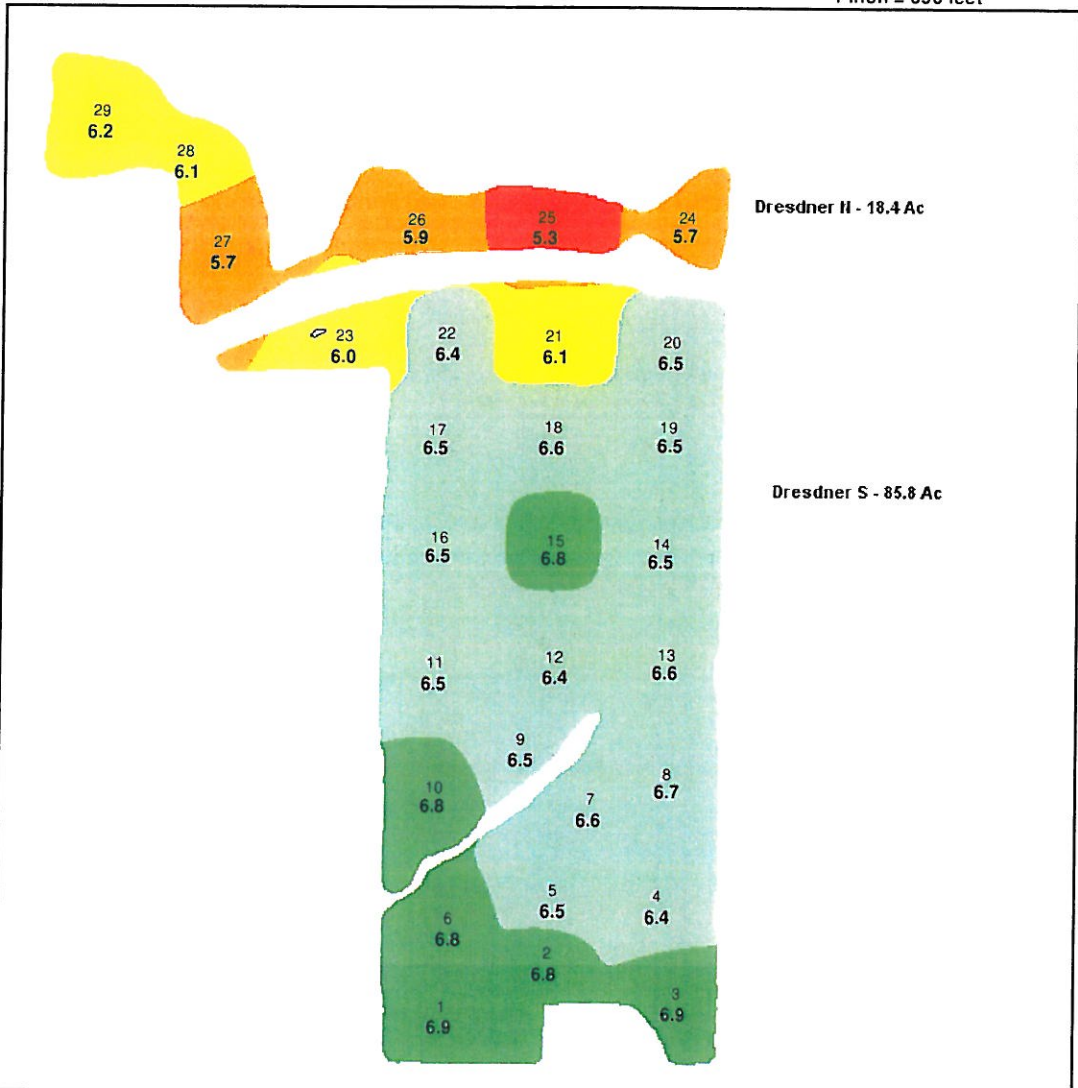
County: Boone
Township: Boone
Range: 4E
Section: 1
Date Tested: 07/27/2009

1 inch = 690 feet

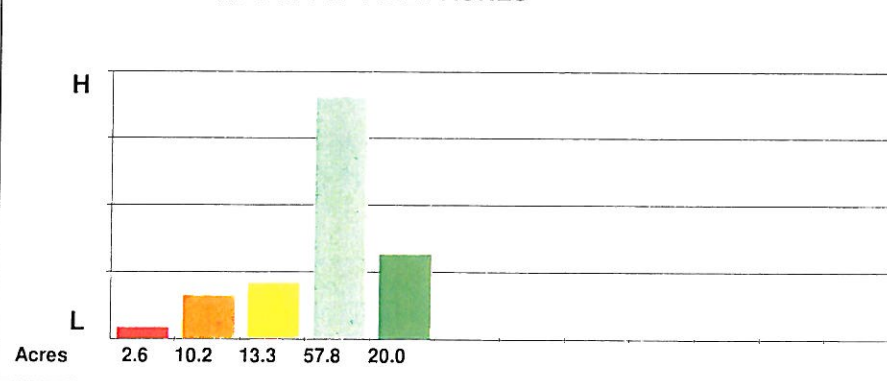
Water pH Results

Legend	
	< 5.5
	5.5 - 5.9
	5.9 - 6.3
	6.3 - 6.7
	6.7 - 7.1
	7.1 - 7.5
	> 7.5

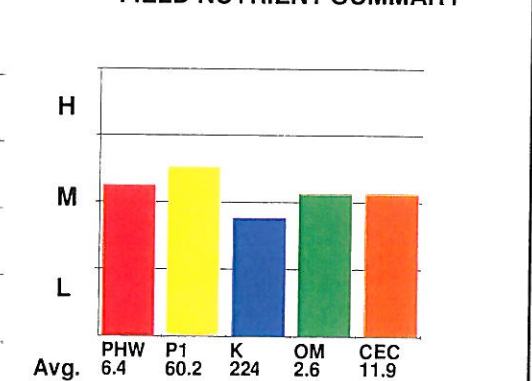
Latitude: 42.4116
Longitude: 88.7260
Grid Size: 440nsX440ew



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

Toulon, IL 61483-0540
(309)286-2761

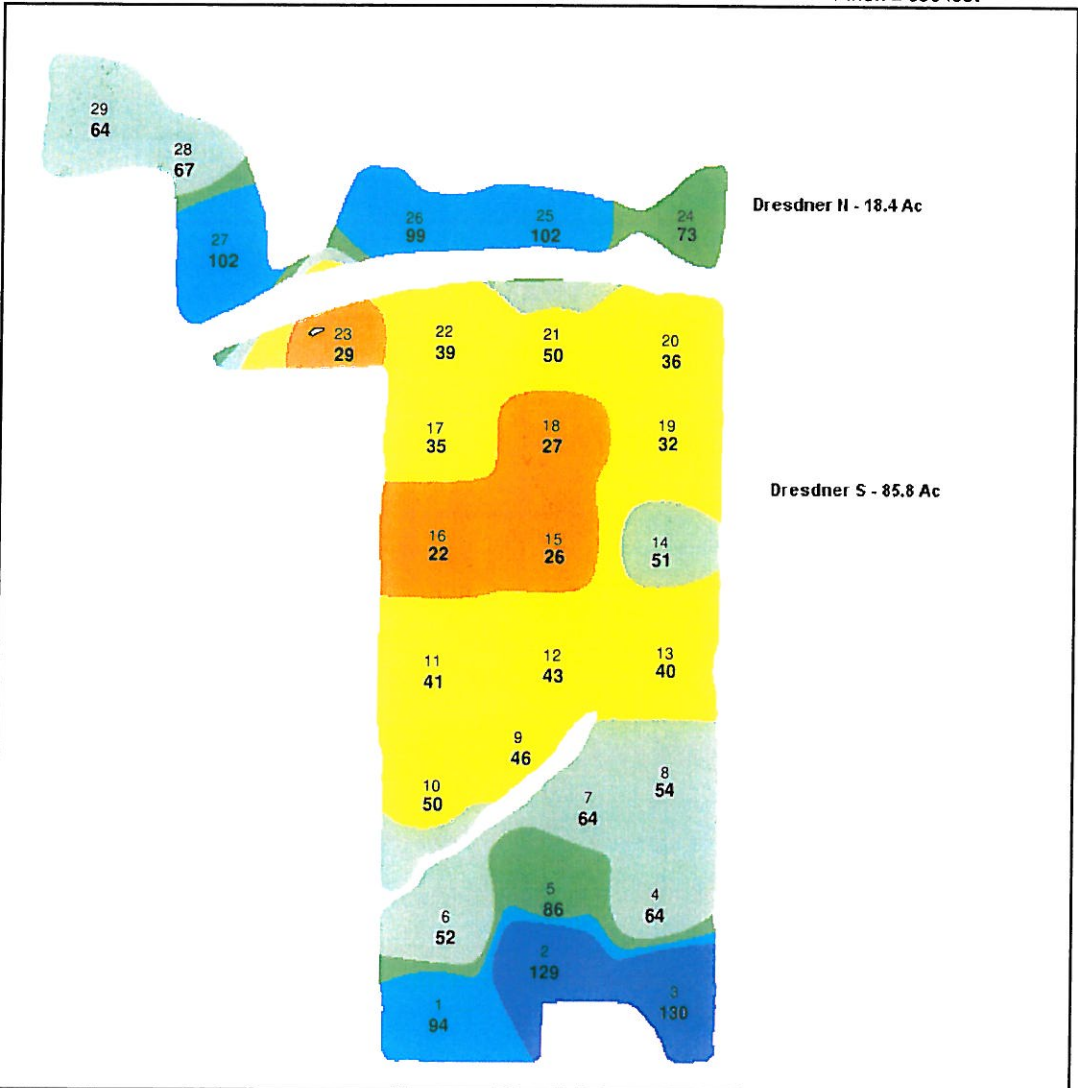
Customer: K-B Farms Inc
Field: Drsdn_09 (#34747)
Description: Dresdner Farm_North and South
Acres: 104.2
of Samples: 29

County: Boone
Township: Boone
Range: 4E
Section: 1
Date Tested: 07/27/2009

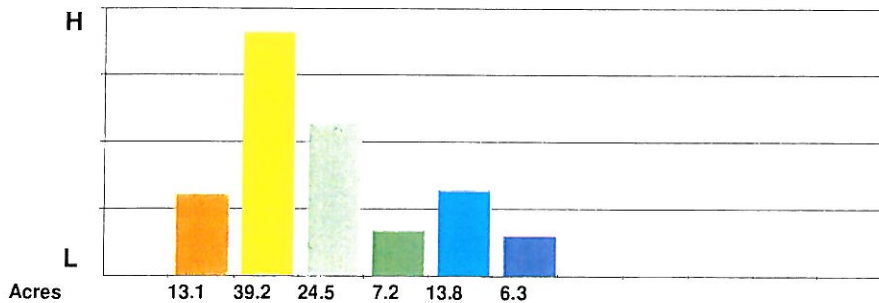
1 inch = 690 feet

Phosphorus Results

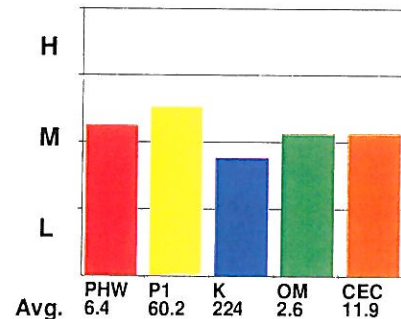
Legend
■ < 20 Lbs/A
■ 20 - 30 Lbs/A
■ 30 - 50 Lbs/A
■ 50 - 70 Lbs/A
■ 70 - 90 Lbs/A
■ 90 - 110 Lbs/A
■ > 110 Lbs/A
<p>Latitude: 42.4116 Longitude: 88.7260 Grid Size: 440nsX440ew</p>



BREAKDOWN OF FIELD ACRES



FIELD NUTRIENT SUMMARY



SGS Mowers Soil Testing Plus, Inc.

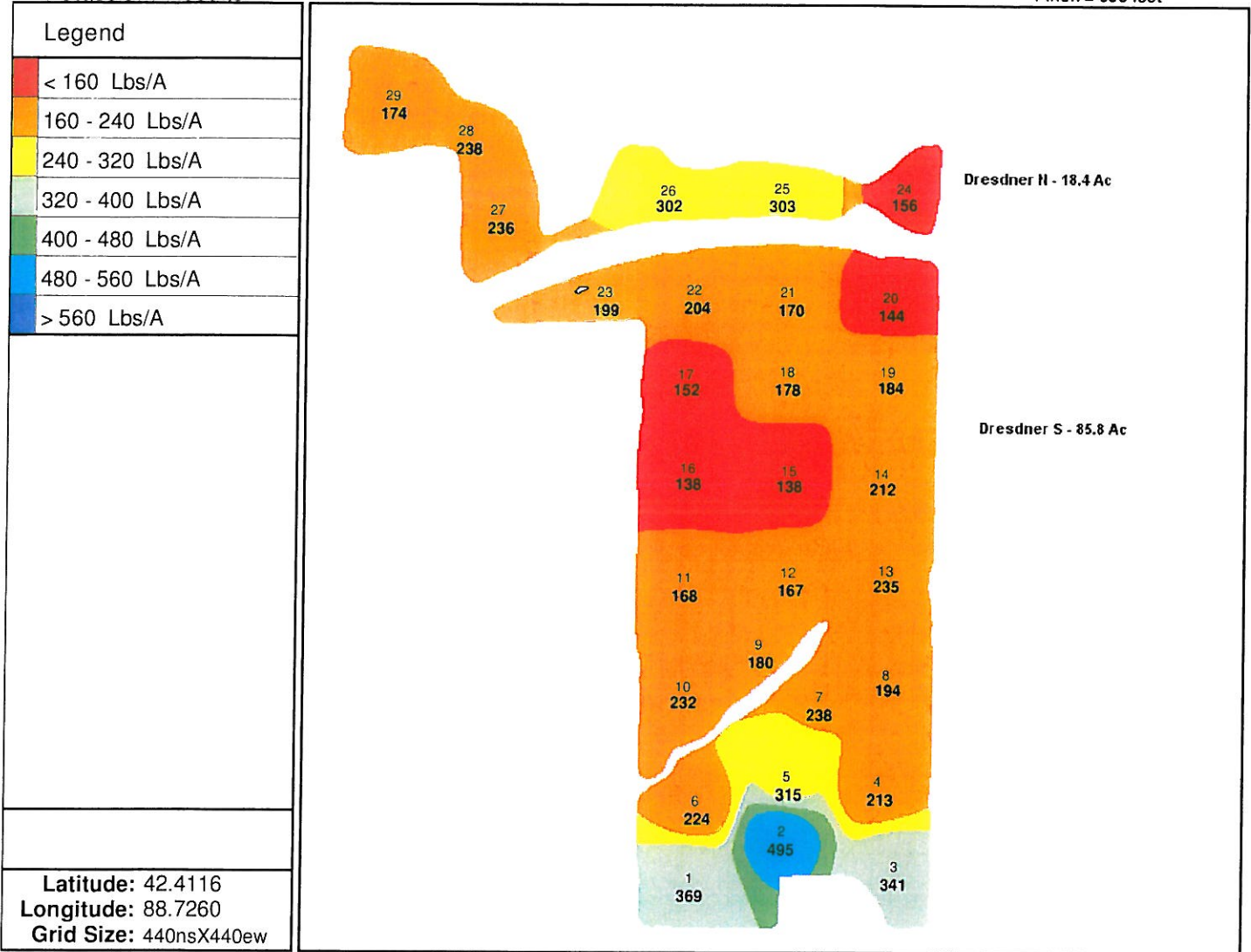
Toulon, IL 61483-0540
(309)286-2761

Customer: K-B Farms Inc
Field: Drsdn_09 (#34747)
Description: Dresdner Farm_North and South
Acres: 104.2
of Samples: 29

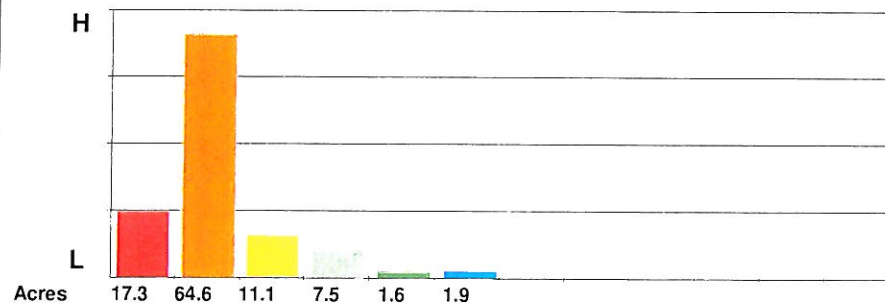
County: Boone
Township: Boone
Range: 4E
Section: 1
Date Tested: 07/27/2009

Potassium Results

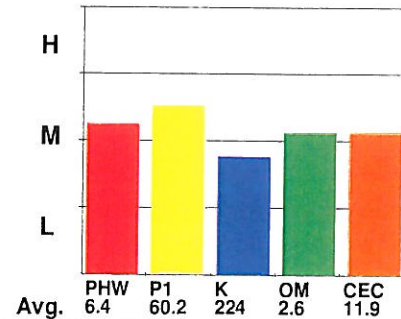
1 inch = 690 feet



BREAKDOWN OF FIELD ACRES



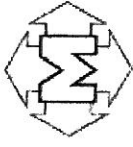
FIELD NUTRIENT SUMMARY





Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc
 600 S State St Suite 300
 Belvidere, IL 61008-4322

Order No: 231506
 Client ID: 2584
 Report Date: 7/22/2009
 Farm Name: Dresdner Farm
 Field Name: Dresdner S
 Field Acres: 85.8

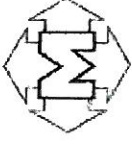


Sample	Water pH		Buffer pH	Phosphorus	Pounds Per Acre			Percent Organic Matter	Parts per Million							Lbs/Ac			Percent Saturation				meq/100g	
	Water pH	Buffer pH			Potassium	Calcium	Magnesium		Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	NO3-N Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H
1	6.9	7.5	94	369	2434	791	2.1											60.7	32.9	4.7	1.7	10.0		
2	6.8	7.5	129	495	2696	871	2.3											59.1	31.8	5.6	3.5	11.4		
3	6.9	7.5	130	341	2727	881	2.1											61.2	32.9	3.9	2.0	11.1		
4	6.4	7.1	64	213	2370	827	2.2											54.7	31.8	2.5	11.0	10.8		
5	6.5	7.2	86	315	2747	951	2.0											54.9	31.7	3.2	10.2	12.5		
6	6.8	7.5	52	224	2800	1028	2.3											58.0	35.5	2.4	4.2	12.1		
7	6.6	7.3	64	238	2808	870	2.1											59.6	30.8	2.6	7.0	11.8		
8	6.7	7.4	54	194	2662	945	2.5											57.4	34.0	2.1	6.4	11.6		
9	6.5	7.2	46	180	2392	705	2.3											58.6	28.8	2.3	10.3	10.2		
10	6.8	7.5	50	232	2975	1155	2.4											56.9	36.8	2.3	4.0	13.1		
11	6.5	7.1	41	168	2734	788	3.0											59.8	28.7	1.9	9.5	11.4		
12	6.4	7.1	43	167	2164	623	2.5											58.3	28.0	2.3	11.3	9.3		
13	6.6	7.3	40	235	2493	832	2.4											57.6	32.0	2.8	7.6	10.8		
14	6.5	7.1	51	212	2666	931	2.6											55.9	32.6	2.3	9.2	11.9		
15	6.8	7.5	26	138	2291	735	2.3											60.7	32.5	1.9	5.0	9.4		
16	6.5	7.2	22	138	2322	737	2.5											58.0	30.7	1.8	9.5	10.0		
17	6.5	7.1	35	152	1906	556	2.6											58.9	28.6	2.4	10.1	8.1		
18	6.6	7.3	27	178	2429	777	2.4											58.4	31.1	2.2	8.3	10.4		
19	6.5	7.2	32	184	2484	810	2.3											56.5	30.7	2.2	10.6	11.0		
20	6.5	7.2	36	144	2480	767	2.5											58.4	30.1	1.7	9.8	10.6		
21	6.1	6.7	50	170	2206	605	2.6											55.4	25.3	2.2	17.1	10.0		
22	6.4	7.1	39	204	2197	716	2.5											55.7	30.2	2.7	11.5	9.9		
23	6.0	6.7	29	199	2282	724	2.3											51.1	27.0	2.3	19.6	11.2		
Field Median	6.5	7.2	46	198	2480	790	2.4											58.0	31.1	2.3	9.5	10.8		

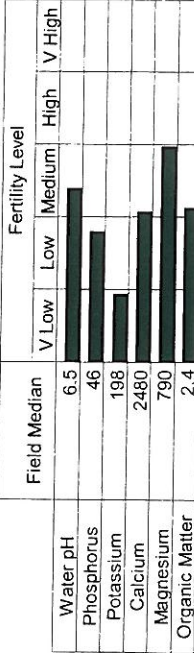


Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc
 600 S State St Suite 300
 Belvidere, IL 61008-4322

Order No: 231506
 Client ID: 2584
 Report Date: 7/22/2009
 Farm Name: Dresdner Farm
 Field Name: Dresdner S
 Field Acres: 85.8



Sample	Water pH	Buffer pH	Phosphorus	Pounds Per Acre				Percent Organic Matter	Parts per Million				Lbs/Ac				Percent Saturation			
				Potassium	Calcium	Magnesium	Iron		Copper	Sulfur	Zinc	Manganese	Boron	NO3-N Sub	Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg



Fertilizer Recommendations are in Pounds per Acre	
Intended Crop Yield Goal	$N - P_2O_5 - K_2O$
Build-up	$N - P_2O_5 - K_2O$
Crop Removal: IL	$N - P_2O_5 - K_2O$
**TOTAL REQUIRED	
Credits:	
**ADJUSTED RECOMMENDATIONS	
Adjust Nitrogen Recommendations for Previous Crop or other N Sources.	

Limestone Recommendations

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 50.0 - 80.0

Potassium: 290.0 - 370.0

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231506
Farm Name: Dresdner Farm
Field Name: Dresdner S

GENERAL FIELD RECOMMENDATIONS

The General Fertility Recommendations are for a Four Year Program of fertility build-up and include crop removal requirements and credits for prior fertilizer plowed down. Also any credits for manure application or nitrogen carried over from prior legumes need to be subtracted. These Fertility Recommendations must be adjusted if your cropping plans or circumstances change (i.e. if crop residues are removed, different yield goals are desired, different crops are grown, etc.) When soil test levels are above the recommended levels, a credit is given at half crop removal for high levels and full crop removal for very high levels.

Use the worksheet below to keep track of your plans and actual results. Please call the Toulon Office at (309)286-2761 or (800)354-8197 if you have any questions. Any of our staff agronomists will be happy to assist you.

Intended Crop	Corn Grain	Soybean	Corn Grain	Soybean
Yield Goal	150 Bu/Ac	50 Bu/Ac	175 Bu/Ac	60 Bu/Ac
	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Build up (4 years)	0 - 9 - 91	0 - 9 - 91	0 - 9 - 91	0 - 9 - 91
Crop Removal	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
TOTAL REQUIRED	180 - 65 - 133	0 - 51 - 156	210 - 74 - 140	0 - 59 - 169
Credits: High Fertility	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0
ADJUSTED RECOMMENDATION	180 - 65 - 133	0 - 51 - 156	210 - 74 - 140	0 - 59 - 169
Limestone Requirements: 0 Tons/Acre				

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: extension.agron.iastate.edu/soilfertility/nrate.aspx

All Fertility Recommendations are expressed as pounds (units) of actual nutrients per acre. Remember to give credits for the fertility value in manure, nitrogen in dry fertilizer and previous crops, and weed control carriers.

RECORDS OF ACTUAL FERTILITY APPLIED

Year	Actual Crop	Actual Yield	Lime Tons/Ac	Nitrogen Lbs/Acre	Phosphorus Lbs/Acre	Potassium Lbs/Acre

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

OrderID: 231506
FarmName: Dresdner Farm
FieldName: Dresdner S

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P2O5/Acre) and the actual Potassium (Lbs K2O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
1	0.0	0	0	
2	0.0	0	0	
3	0.0	0	0	
4	0.1	0	77	
5	0.0	0	0	
6	0.0	0	66	
7	0.0	0	52	
8	0.0	0	96	
9	0.0	9	110	
10	0.0	0	58	
11	0.0	19	122	
12	0.1	16	123	
13	0.0	23	55	
14	0.0	0	78	
15	0.0	54	152	
16	0.0	63	152	
17	0.0	33	138	
18	0.0	51	112	
19	0.0	41	106	
20	0.0	31	146	
21	1.2	1	120	
22	0.1	25	86	
23	1.7	48	91	
Median	0.0	9	91	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231506
Farm Name: Dresdner Farm
Field Name: Dresdner S

YOUR FERTILITY RECOMMENDATIONS OPTIONS

Build-up phosphorus and potassium can be applied each year for four years or the total amount needed for build-up can be applied at one time (4 times the amount shown in the Build-up Fertility Recommendation Table for one year).

The Fertilizer Recommendations are based on yearly applications. If you fertilize for more than one crop at a time, simply add the Fertilizer Recommendations together for the years of these crops.

RETEST IN FOUR YEARS

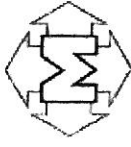
Agronomist: *Lucy Boroy*



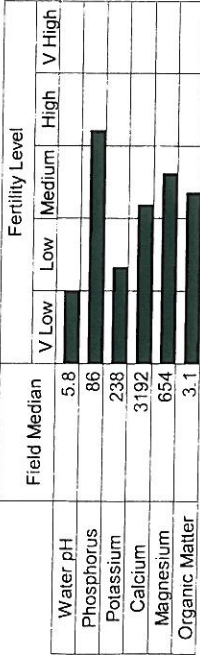
LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Craig Johnson
 Samples Submitted by: Craig Johnson
 K-B Farms Inc
 600 S State St Suite 300
 Belvidere, IL 61008-4322

Order No: 231506
 Client ID: 2584
 Report Date: 7/22/2009
 Farm Name: Dresdner Farm
 Field Name: Dresdner N
 Field Acres: 18.4



Sample	Pounds Per Acre			Parts per Million										Percent Saturation			meq/100g							
	Water pH	Buffer pH	Phosphorus	Potassium	Calcium	Magnesium	Percent Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub	Surf		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H
24	5.7	6.4	73	156	4372	433	3.0													61.8	10.2	1.1	26.9	17.7
25	5.3	6.3	102	303	2318	483	2.8													46.7	16.2	3.1	34.0	12.4
26	5.9	6.6	99	302	1941	621	2.6													47.8	25.5	3.8	22.8	10.1
27	5.7	6.4	102	236	2484	688	3.2													49.6	22.9	2.4	25.1	12.5
28	6.1	6.7	67	238	3901	929	3.3													57.7	22.9	1.8	17.6	16.9
29	6.2	6.6	64	174	6317	1394	4.6													60.7	22.3	.9	16.1	26.0
Field Median	5.8	6.5	86	238	3192	654	3.1													53.6	22.6	2.1	24.0	14.7



Fertilizer Recommendations are in Pounds per Acre	
Intended Crop Yield Goal	
Build-up	
Crop Removal: IL	
**TOTAL REQUIRED	
Credits:	
**ADJUSTED RECOMMENDATIONS	
Adjust Nitrogen Recommendations for Previous Crop or other N Sources.	

Limestone Recommendations

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: Corn Grain Previous Yield: 0 Bu

Optimum Ranges:
 Water pH: 6.3 - 6.8
 Phosphorus: 50.0 - 80.0
 Potassium: 290.0 - 370.0

A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231506
Farm Name: Dresdner Farm
Field Name: Dresdner N

GENERAL FIELD RECOMMENDATIONS

The General Fertility Recommendations are for a Four Year Program of fertility build-up and include crop removal requirements and credits for prior fertilizer plowed down. Also any credits for manure application or nitrogen carried over from prior legumes need to be subtracted. These Fertility Recommendations must be adjusted if your cropping plans or circumstances change (i.e. if crop residues are removed, different yield goals are desired, different crops are grown, etc.) When soil test levels are above the recommended levels, a credit is given at half crop removal for high levels and full crop removal for very high levels.

Use the worksheet below to keep track of your plans and actual results. Please call the Toulon Office at (309)286-2761 or (800)354-8197 if you have any questions. Any of our staff agronomists will be happy to assist you.

Intended Crop	Corn Grain	Soybean	Corn Grain	Soybean
Yield Goal	150 Bu/Ac	50 Bu/Ac	175 Bu/Ac	60 Bu/Ac
	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Build up (4 years)	0 - 0 - 53	0 - 0 - 53	0 - 0 - 53	0 - 0 - 53
Crop Removal	180 - 56 - 42	0 - 42 - 65	210 - 65 - 49	0 - 50 - 78
TOTAL REQUIRED	180 - 56 - 95	0 - 42 - 118	210 - 65 - 102	0 - 50 - 131
Credits: High Fertility	0 - 28 - 0	0 - 21 - 0	0 - 33 - 0	0 - 25 - 0
ADJUSTED RECOMMENDATION	180 - 28 - 95	0 - 21 - 118	210 - 32 - 102	0 - 25 - 131
Limestone Requirements: 2.53 Tons/Acre				

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: extension.agron.iastate.edu/soilfertility/nrate.aspx

All Fertility Recommendations are expressed as pounds (units) of actual nutrients per acre. Remember to give credits for the fertility value in manure, nitrogen in dry fertilizer and previous crops, and weed control carriers.

RECORDS OF ACTUAL FERTILITY APPLIED

Year	Actual Crop	Actual Yield	Lime Tons/Ac	Nitrogen Lbs/Acre	Phosphorus Lbs/Acre	Potassium Lbs/Acre
2010			2.5			

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

OrderID: 231506
FarmName: Dresdner Farm
FieldName: Dresdner N

BUILD-UP FERTILITY RECOMMENDATIONS TABLE

Below are the actual Phosphorus units (Lbs P2O5/Acre) and the actual Potassium (Lbs K2O/Acre) recommended for fertility build-up for each individual sample site. The amount shown should be applied each year for the next four years if you wish to spot fertilize the field on the basis of actual test results. A zero indicates no build-up fertility is needed because the soil test readings are at or above the recommended levels. The lime recommendation is the total limestone requirement over the four year program and may be applied in one or more applications.

Sample Number	Lime Tons/Acre	Phosphorus <i>Lbs(P₂O₅)/ Ac</i>	Potassium <i>Lbs(K₂O)/ Ac</i>	Notes
24	4.1	0	164	
25	4.5	0	0	
26	2.3	0	0	
27	2.8	0	54	
28	1.5	0	82	
29	1.0	0	176	
Median	2.5	0	53	

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SGS MOWERS SOIL TESTING PLUS, INC.

Client ID: 2584
Prepared for: Craig Johnson

Order ID: 231506
Farm Name: Dresdner Farm
Field Name: Dresdner N

YOUR FERTILITY RECOMMENDATIONS OPTIONS

Adjust the limestone recommendations for your tillage practices.

Build-up phosphorus and potassium can be applied each year for four years or the total amount needed for build-up can be applied at one time (4 times the amount shown in the Build-up Fertility Recommendation Table for one year).

The Fertilizer Recommendations are based on yearly applications. If you fertilize for more than one crop at a time, simply add the Fertilizer Recommendations together for the years of these crops.

RETEST IN FOUR YEARS

Agronomist: _____

Dave Dorsey