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**Varia, Donald**

**Bachman**

**Bachman**

**Area: 231.29 ac**

## Field Boundary Map




Grower: Varia, Donald  
Farm: Bachman  
Field: Bachman  
Area: 231.29 ac  
Report Date: 11/27/2012



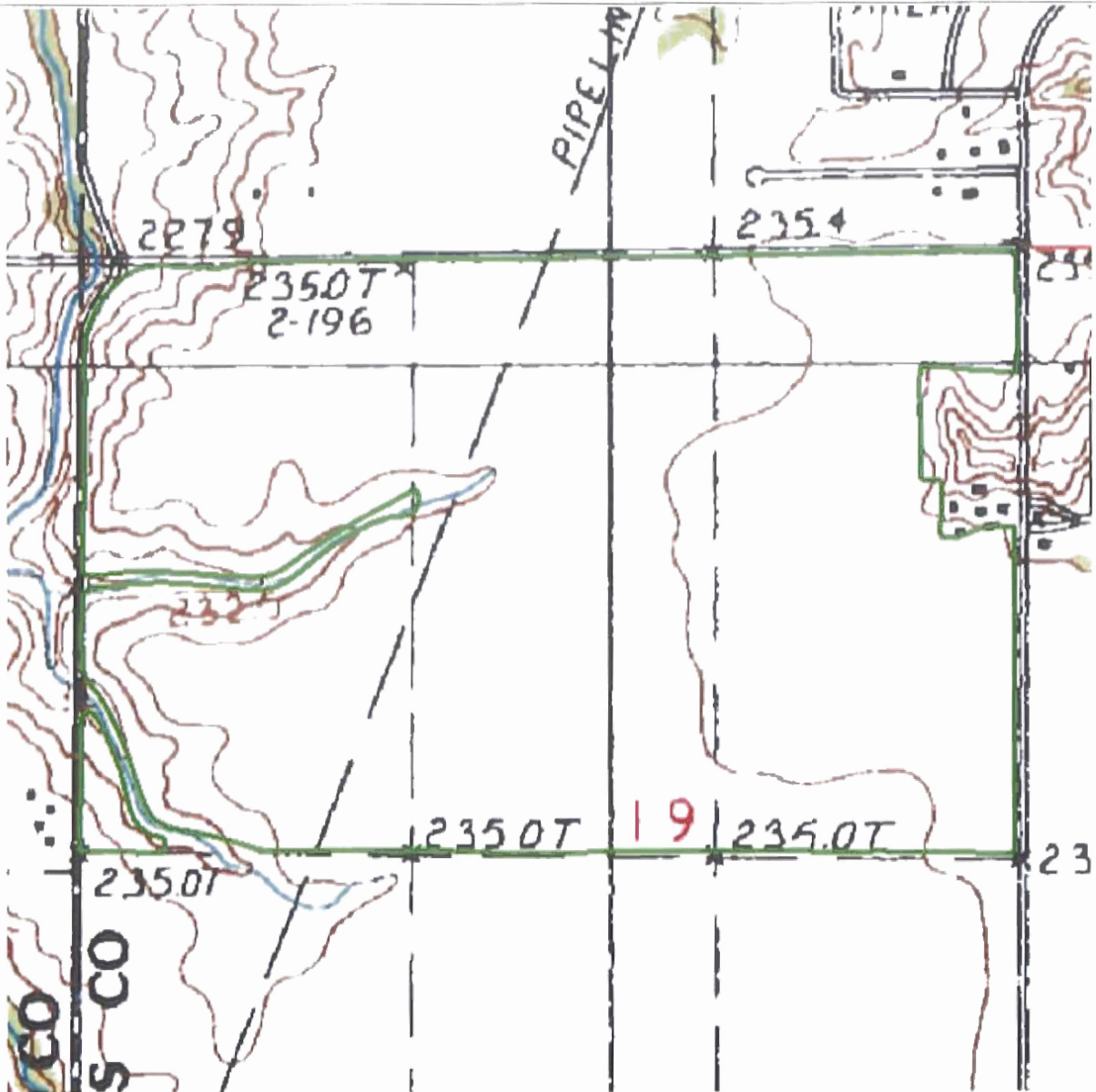
One In = 728 feet  
0 329 658 987 1316 1644

 **Heritage**  
FS Inc.

 Bachman (231.29 ac)

 **GREEN PLAN**  
CROPPING SYSTEMS

# Field Topo Map




Grower: Varia, Donald  
Farm: Bachman  
Field: Bachman  
Area: 231.29 ac  
Report Date: 11/27/2012



One in = 728 feet  
0 329 658 987 1316 1644

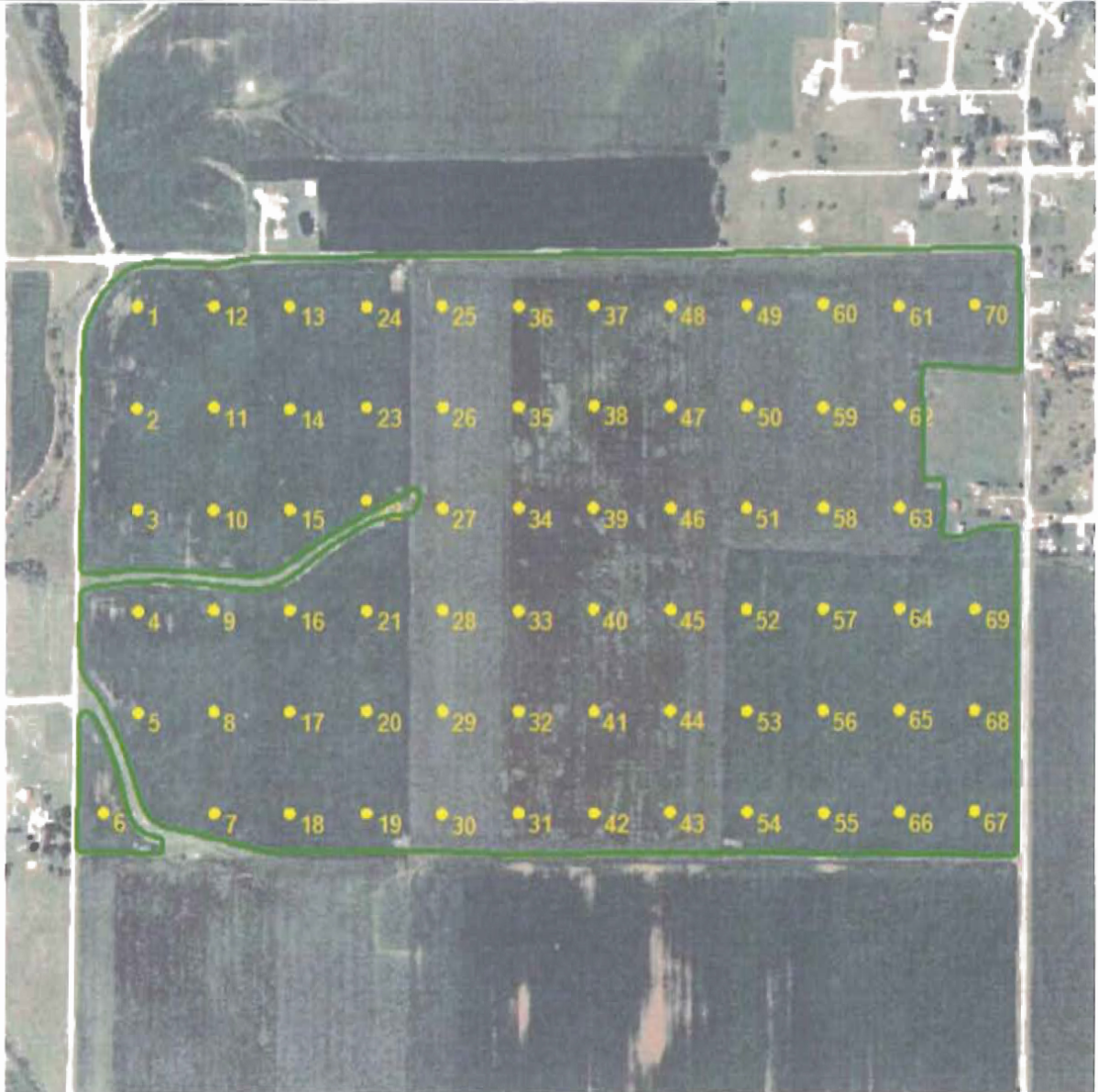
 **Heritage**  
FS Inc.

 Bachman (231.29 ac)

 **GREEN PLAN**  
SOLUTIONS



## Soil Sample Grid





Grower: Varia, Donald  
 Farm: Bachman  
 Field: Bachman  
 Area: 231.29 ac  
 Event Date(s): 11/27/2012  
 Report Date: 11/27/2012



One in = 728 feet  
 0 329 658 987 1316 1644

 **Heritage**  
 FS Inc.

 Field Boundary  
 Soil Sample Points

 **GREEN PLAN**  
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# Soil Test Results Table

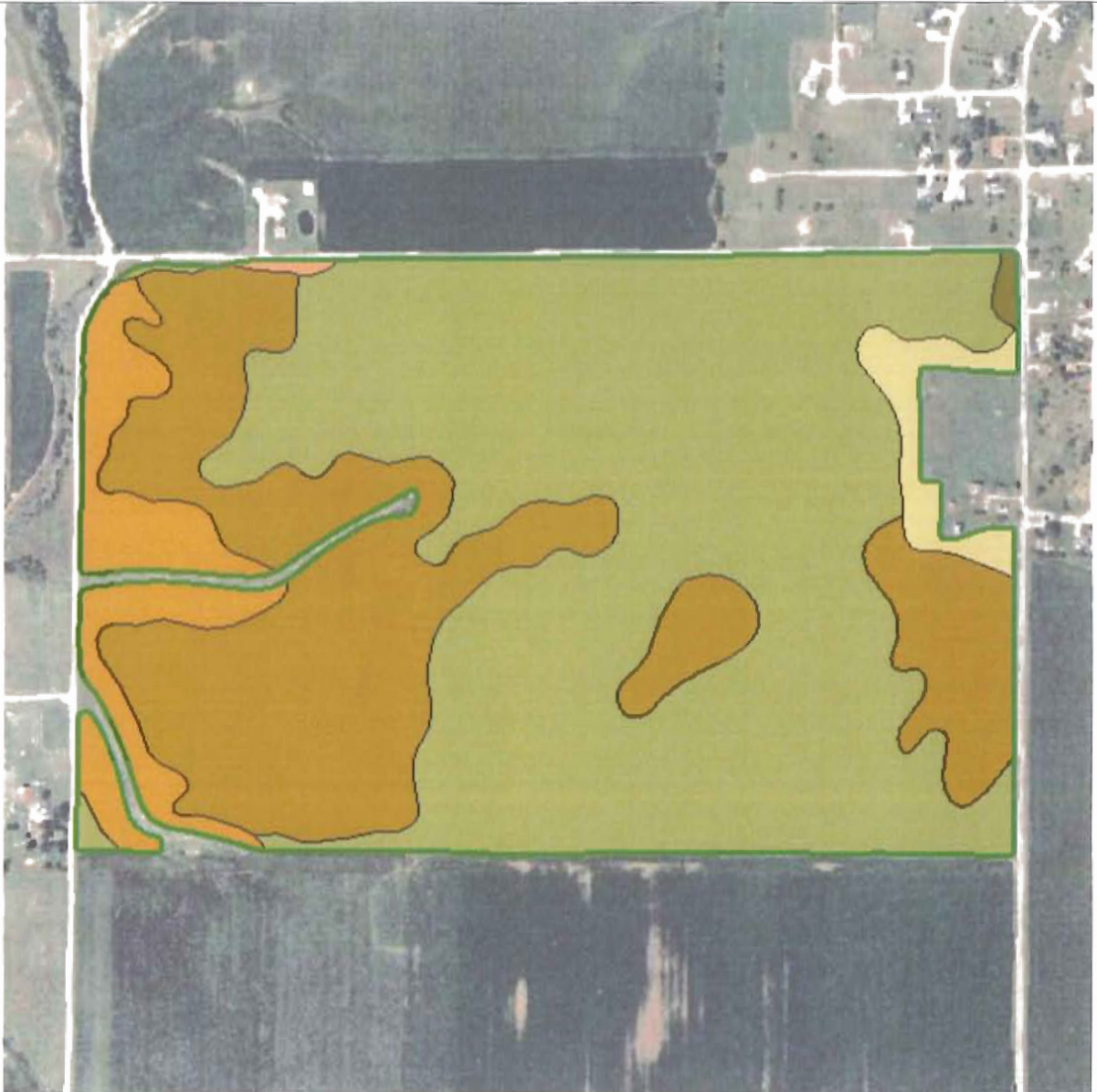
Grower: Varia, Donald  
 Farm: Bachman  
 Field: Bachman  
 Area: 231.29 ac  
 Lat: 40.52807°N  
 Lon: 088.11081°W  
 Event Date(s): 11/27/2012  
 Report Date: 11/27/2012

Min:	22	248	5.7	2.1
Max:	120	536	7.1	3.0
Avg:	62	391	6.4	2.8

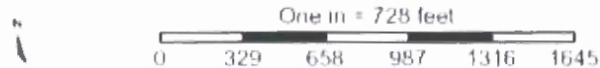
Sample ID	PMehlich III PPA	K PPA	pH	O.M.%
1	38	404	6.7	2.4
2	29	252	6.6	2.9
3	30	248	6.4	2.6
4	27	364	7.0	2.4
5	23	300	6.6	2.4
6	26	360	6.4	2.4
7	43	372	5.7	2.4
8	30	352	6.2	2.6
9	23	408	6.9	2.1
10	22	320	7.0	2.4
11	25	296	6.6	2.9
12	39	348	6.8	2.6
13	60	332	6.2	2.6
14	57	424	6.2	2.6
15	29	352	6.5	2.4
16	22	348	7.1	2.4
17	24	296	6.2	2.6
18	25	268	6.7	2.9
19	57	284	6.1	2.6
20	76	356	6.2	2.6
21	43	324	6.3	2.9
22	60	444	6.4	2.9
23	43	360	6.4	2.9
24	80	444	5.9	2.9
25	96	432	6.3	2.9
26	80	380	6.0	2.6
27	78	456	6.1	2.9
28	74	428	6.1	2.9
29	111	444	6.1	2.9
30	74	480	6.4	2.9
31	103	452	6.1	2.6
32	93	484	6.1	2.9
33	80	456	6.1	2.9

34	53	360	6.0	2.9
35	50	384	6.5	2.9
36	70	424	6.2	2.6
37	74	448	6.4	2.6
38	120	536	6.2	2.6
39	45	344	6.4	2.9
40	82	432	6.3	2.6
41	68	464	6.5	2.6
42	87	480	6.3	2.9
43	96	508	6.3	2.9
44	76	464	6.4	2.6
45	62	380	6.6	2.6
46	53	356	6.5	2.6
47	62	456	6.1	2.9
48	115	536	6.1	2.9
49	72	456	6.1	2.9
50	57	420	6.3	2.9
51	50	360	6.6	2.9
52	40	312	6.0	2.9
53	46	364	6.1	2.9
54	96	476	7.0	2.9
55	85	472	6.5	2.9
56	93	420	6.2	3.0
57	85	448	6.3	3.0
58	49	316	6.4	2.9
59	87	400	6.1	2.9
60	85	436	6.3	2.9
61	68	380	6.5	2.9
62	38	300	6.5	2.9
63	41	312	6.9	2.9
64	80	420	6.5	3.0
65	66	404	6.2	2.9
66	96	408	5.9	2.9
67	85	440	6.2	2.9
68	47	340	6.4	2.9
69	66	288	6.4	2.6
70	47	360	6.4	2.9








## Soil Type



Grower: Varia, Donald  
Farm: Bachman  
Field: Bachman  
Area: 231.29 ac



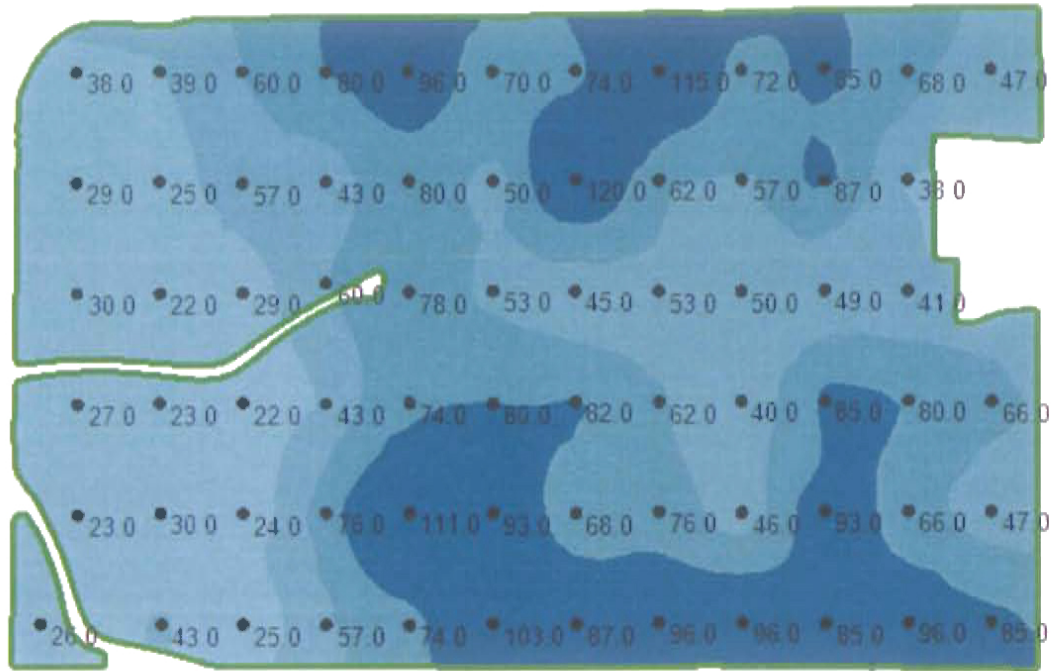
 **Heritage**  
FS Inc.

	Field Boundary
<b>Soil Type</b>	
	Clarence silty clay loam, 0 to 3 percent slopes (0.5 ac ) (0.2 %)
	Clarence silty clay loam, 2 to 6 percent slopes, eroded (17.7 ac ) (7.6 %)
	Nappanee silt loam, 1 to 6 percent slopes (5.6 ac ) (2.4 %)
	Rowe silty clay loam (136.8 ac ) (59.1 %)
	Rutland silty clay loam, 1 to 5 percent slopes (70.1 ac ) (30.3 %)
	Swygert silty clay loam, 0 to 2 percent slopes (0.7 ac ) (0.3 %)

 **GREEN PLAN**  
SOLUTIONS



## Phosphorus Lbs/Ac Soil Test



Grower: Varia, Donald  
 Farm: Bachman  
 Field: Bachman  
 Area: 231.29 ac  
 Event Date(s): 11/27/2012

Season: 2013  
 Min: 21.29 lb/ac  
 Avg: 61.26 lb/ac  
 Max: 113.45 lb/ac

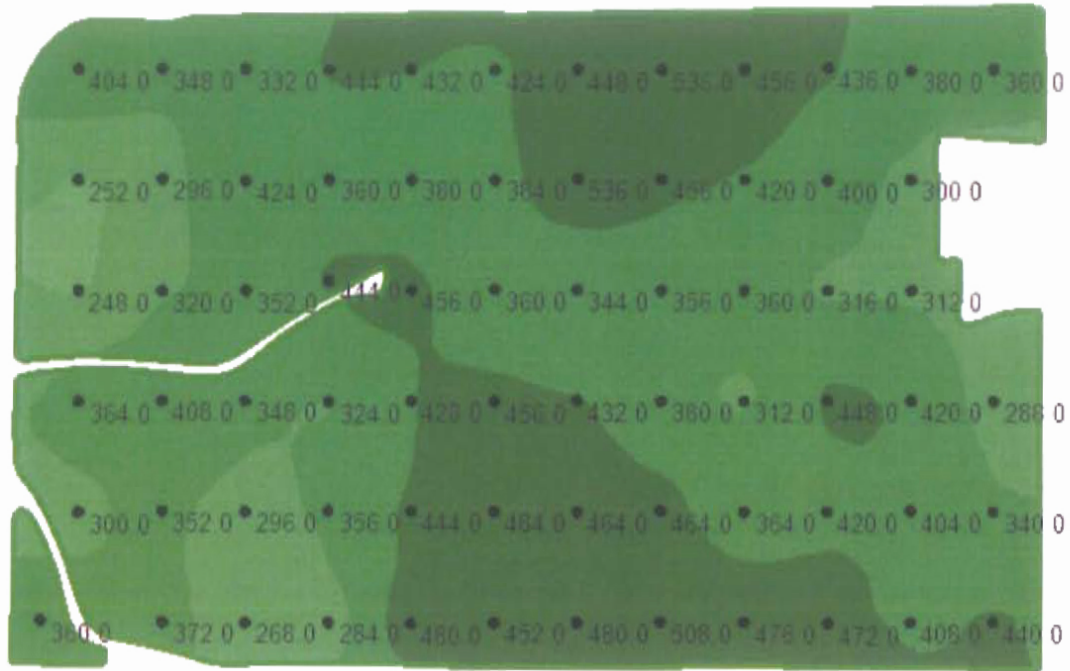


—	Field Boundary
	Phosphorus Lbs/Ac Soil Test lb/ac
■	< 20 (0.0 ac ) (0.0 %)
■	20 - 40 (50.9 ac ) (22.0 %)
■	40 - 60 (56.8 ac ) (24.6 %)
■	60 - 80 (68.1 ac ) (29.4 %)
■	> 80 (55.5 ac ) (24.0 %)

 **Heritage**  
**FS Inc.**

 **GREEN PLAN**  
 SOLUTIONS

## Potassium Lbs/Ac Soil Test



Grower: Varia, Donald  
 Farm: Bachman  
 Field: Bachman  
 Area: 231.29 ac  
 Event Date(s): 11/27/2012

Season: 2013  
 Min: 248.14 lb/ac  
 Avg: 389.18 lb/ac  
 Max: 532.54 lb/ac



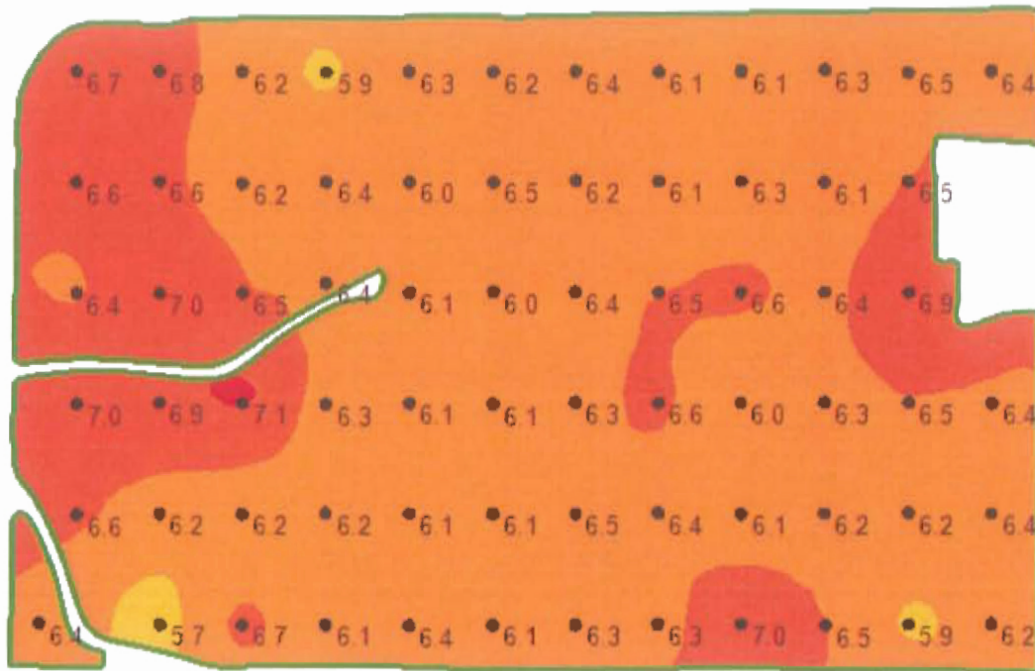
One in = 728 feet  
 0 329 658 987 1316 1644

Heritage FS Inc.

—	Field Boundary
	Potassium Lbs/Ac Soil Test lb/ac
■	< 200 (0.0 ac) (0.0 %)
■	200 - 260 (3.0 ac) (1.3 %)
■	260 - 330 (35.3 ac) (15.3 %)
■	330 - 430 (129.8 ac) (56.1 %)
■	> 430 (63.2 ac) (27.3 %)

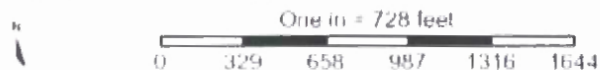
GREEN PLAN

# Soil pH



Grower: Varia, Donald  
 Farm: Bachman  
 Field: Bachman  
 Area: 231.29 ac  
 Event Date(s): 11/27/2012

Season: 2013  
 Min: 5.74 PH SCALE  
 Avg: 6.36 PH SCALE  
 Max: 7.08 PH SCALE



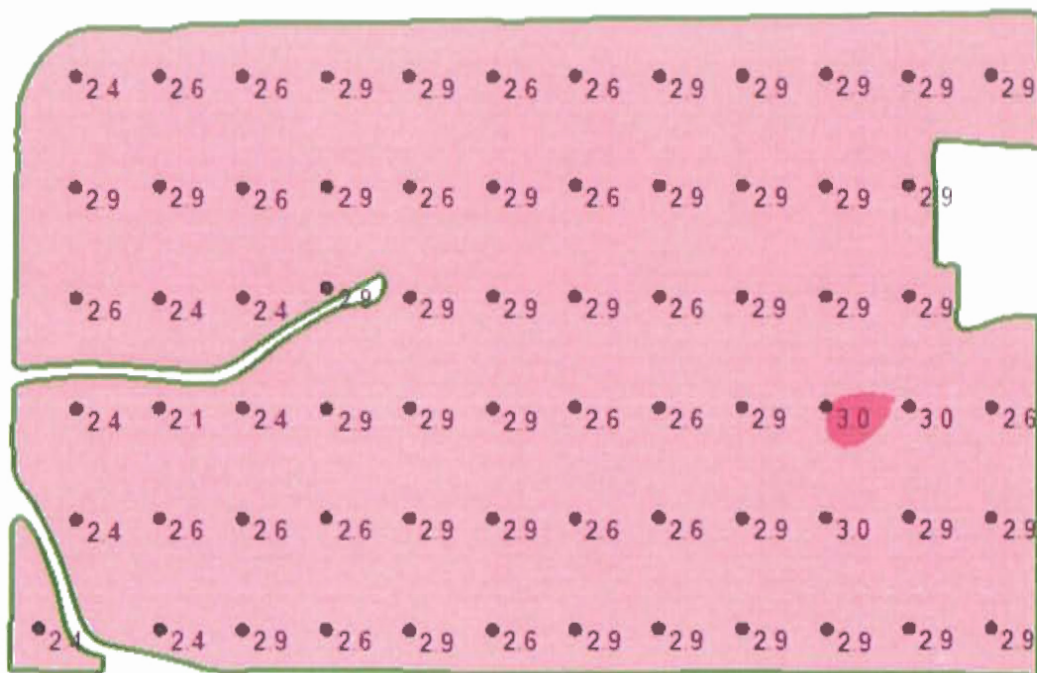
**Heritage**  
 FS Inc.

	Field Boundary
Soil pH PH SCALE	
	0 - 5.5 (0.0 ac ) (0.0 %)
	5.5 - 6.0 (2.8 ac ) (1.2 %)
	6.0 - 6.5 (175.1 ac ) (75.7 %)
	6.5 - 7.0 (53.1 ac ) (22.9 %)
	> 7.0 (0.4 ac ) (0.2 %)

**GREEN PLAN**  
 SOLUTIONS

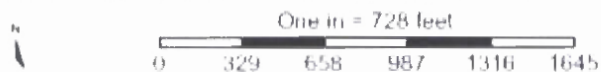


## Soil Organic Matter









Grower: Varia, Donald  
 Farm: Bachman  
 Field: Bachman  
 Area: 231.29 ac  
 Event Date(s): 11/27/2012

Season: 2013  
 Min: 2.12 Percent  
 Avg: 2.76 Percent  
 Max: 3.01 Percent

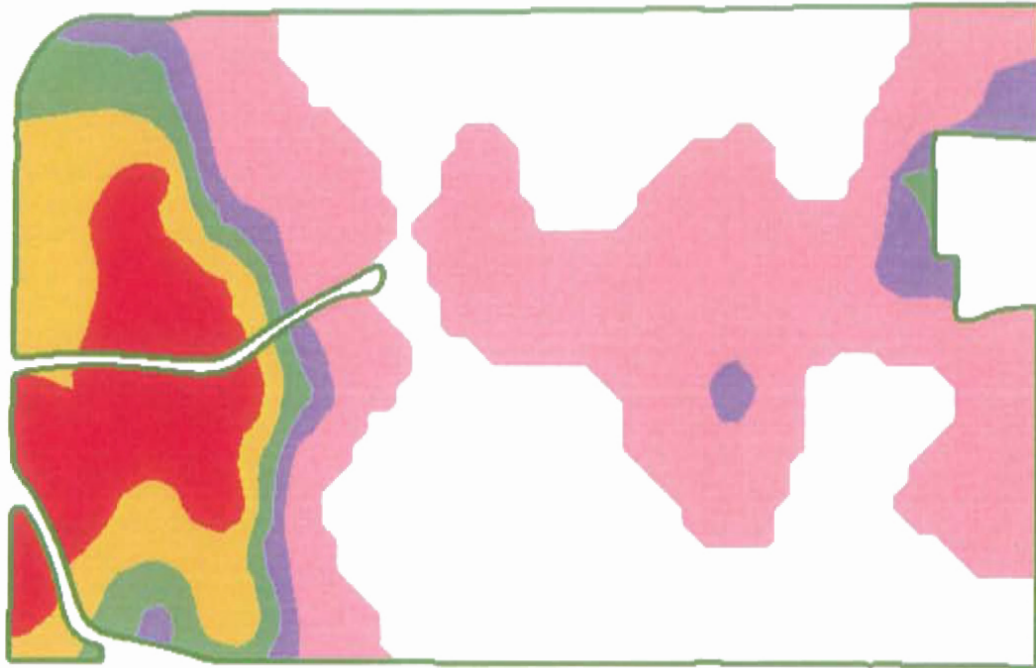



**Heritage**  
 FS Inc.

	Field Boundary
	Soil Organic Matter Percent
	< 2.0 (0.0 ac ) (0.0 %)
	2.0 - 3.0 (230.1 ac ) (99.5 %)
	3.0 - 4.0 (1.2 ac ) (0.5 %)
	4.0 - 5.0 (0.0 ac ) (0.0 %)
	> 5.0 (0.0 ac ) (0.0 %)


**GREEN PLAN**  
 A HERITAGE FS INC. PROGRAM

# DAP App Fall12



Grower: Varia, Donald  
Farm: Bachman  
Field: Bachman  
Area: 231.29 ac



One in = 728 feet  
0 329 658 987 1316 1645

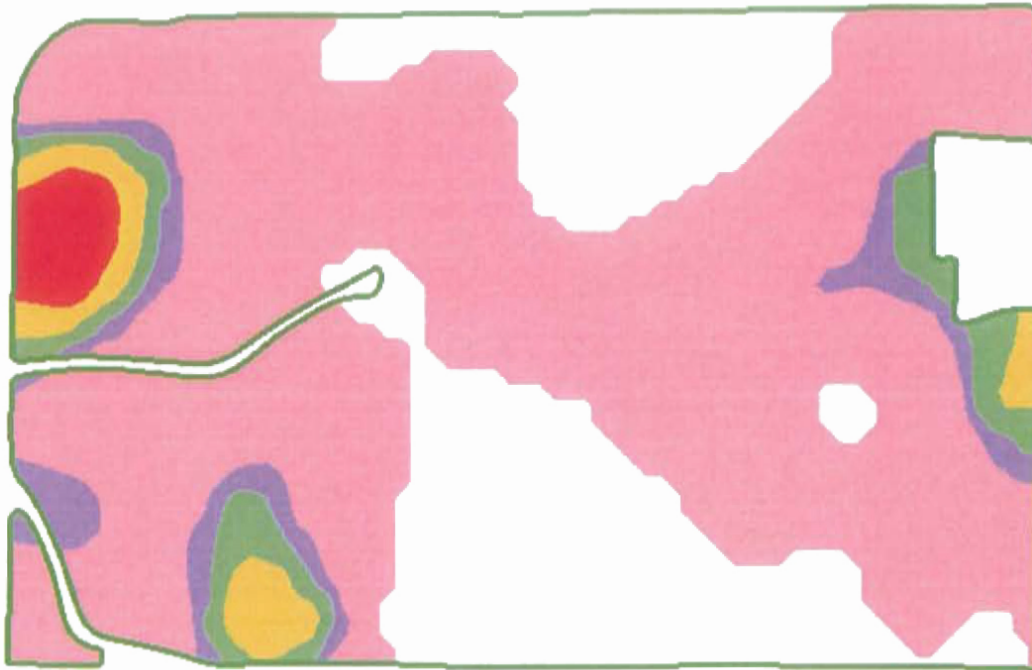
**Heritage**  
FS Inc.

Season: 2013  
Min Rate: 229.00 lb/ac  
Avg Rate: 186.30 lb/ac  
Max Rate: 510.00 lb/ac  
Total Product: 43,091.10 lb  
Applied Area: 138.62 ac  
Product: 18-46-0 DAP  
Order Id: 258501  
Order Task Id: 6160352  
Crop - Year 1: CORN  
Purpose - Year 1: Dry Grain  
Yield Goal - Year 1: 175  
Crop - Year 2: SOYBEANS  
Purpose - Year 2: Dry Grain  
Yield Goal - Year 2: 50  
Apps to Build: 2  
P Supplying Zone: Low  
Task: GreenPLAN (lbs/ac) - P Rec

—	Field Boundary
Phosphorus Recommendation lb/ac	
■	229 - 265 (77.2 ac ) (33.4 %)
■	266 - 334 (11.8 ac ) (5.1 %)
■	336 - 399 (10.8 ac ) (4.7 %)
■	400 - 455 (17.9 ac ) (7.7 %)
■	456 - 510 (21.0 ac ) (9.1 %)

**GREEN PLAN**

# Potash App Fall12










Grower: Varia, Donald  
Farm: Bachman  
Field: Bachman  
Area: 231.29 ac

Season: 2013  
Min Rate: 218.00 lb/ac  
Avg Rate: 174.28 lb/ac  
Max Rate: 491.00 lb/ac  
Total Product: 40,309.36 lb  
Applied Area: 168.14 ac  
Product: 0-0-60  
Order Id: 258501  
Order Task Id: 6160353  
Crop - Year 1: CORN  
Purpose - Year 1: Dry Grain  
Yield Goal - Year 1: 175  
Crop - Year 2: SOYBEANS  
Purpose - Year 2: Dry Grain  
Yield Goal - Year 2: 50  
Apps to Build: 2  
K Build - CEC Level: High  
Task: GreenPLAN (lbs/ac) - K Rec



One in = 728 feet  
0 329 658 987 1316 1644

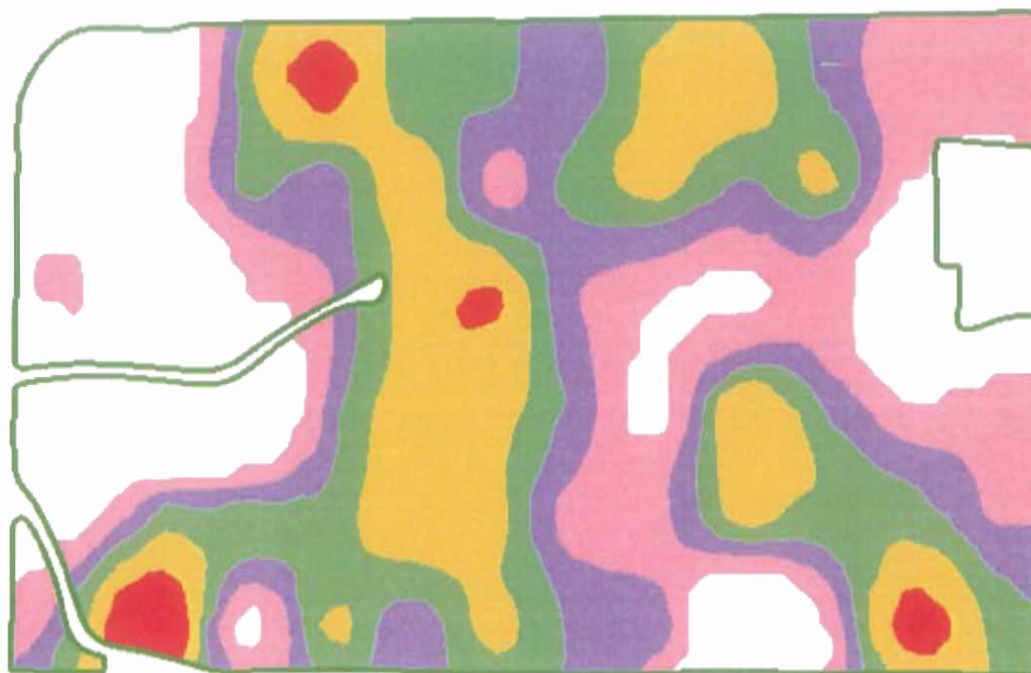
 **Heritage**  
FS Inc.

	Field Boundary
	Potassium Recommendation lb/ac
	218 - 239 (136.5 ac ) (59.0 %)
	241 - 291 (11.2 ac ) (4.8 %)
	292 - 350 (9.5 ac ) (4.1 %)
	351 - 419 (6.4 ac ) (2.8 %)
	421 - 491 (4.5 ac ) (2.0 %)

 **GREEN PLAN**  
Heritage FS Inc.

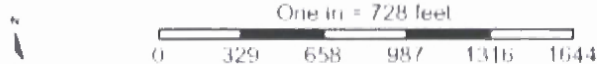


# Lime App Fall12



Grower: Varia, Donald  
Farm: Bachman  
Field: Bachman  
Area: 231.29 ac

Season: 2013  
Min Rate: 1,330.00 lb/ac  
Avg Rate: 2,389.28 lb/ac  
Max Rate: 7,010.00 lb/ac  
Total Product: 552,625.85 lb  
Applied Area: 177.85 ac  
Product: Lime, Ag  
Order Id: 258501  
Order Task Id: 6160354  
Crop - Year 1: CORN  
Purpose - Year 1: Dry Grain  
State/Province: Illinois  
Incorporation Depth: 6  
Lime Rec Option: No Maintenance  
Liming Class: B (CEC <= 21) AND (CEC >= 15)  
Crop Type: Legume  
Use Custom pH Build: Yes  
Target pH: 6.5  
Task: GreenPLAN (lbs/ac) - Lime Rec



**Heritage**  
FS Inc.

—	Field Boundary
	Limestone Recommendation lb/ac
■	1330 - 2260 (43.2 ac ) (18.7 %)
■	2270 - 3070 (41.4 ac ) (17.9 %)
■	3080 - 3840 (48.1 ac ) (20.8 %)
■	3850 - 4780 (40.3 ac ) (17.4 %)
■	4800 - 7010 (4.9 ac ) (2.1 %)

**GREEN PLAN**  
SOLUTIONS

## Product Summary

Season: 2013  
 Grower: Varla, Donald  
 Farm: Bachman  
 Field: Bachman  
 Area: 231.29 ac

### K2O

Recommendation	Rec Acres	Avg Rec Rate	App Acres	Avg App Rate	Total Product
0-0-60 258501 6160353 11/27/2012 2:55:40 PM CORN Dry Grain 175 SOYBEANS Dry Grain 50 2 High	231.3	174.3 lb/ac	168.1	239.7 lb/ac	40,309.4 lb

### Lime

Recommendation	Rec Acres	Avg Rec Rate	App Acres	Avg App Rate	Total Product
Lime, Ag 258501 6160354 11/27/2012 2:55:40 PM CORN Dry Grain Illinois 6 No Maintenance B (CEC <= 21) AND (CEC >= 15) Legume Yes 6.5	231.3	2,389.3 lb/ac	177.8	3,107.3 lb/ac	552,625.9 lb

277.4 lbs

### P205

Recommendation	Rec Acres	Avg Rec Rate	App Acres	Avg App Rate	Total Product
18-46-0 DAP 258501 6160352 11/27/2012 2:55:40 PM CORN Dry Grain 175 SOYBEANS Dry Grain 50 2 Low	231.3	186.3 lb/ac	138.6	310.9 lb/ac	43,091.1 lb