Tuesday,
November 12
at 11am

1,090± acres
Offered in 17 Tracts or Combinations

SOILS TESTS

Daviess & Knox Counties, Indiana

- Between Plainville & Edwardsport
- 10 Miles North of Washington
- 16 Miles Northeast of Vincennes
- 926.7 Cropland Acres
- Complete Farm Headquarters
- 1,050,000 Bushels Grain Storage & Handling System
- Large Modern Machine Sheds
- Highly Productive Soils

Land AUCTION

SCHRADER
Real Estate and Auction Company, Inc.

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2% Buyer's Premium

ONLINE BIDDING AVAILABLE

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OWNER: Summers Farms Inc.

SCHRADER
Real Estate and Auction Company, Inc.

SCHRADER REAL ESTATE & AUCTION CO., INC.
950 N. Liberty Dr., Columbia City, IN 46725
260-244-7606 or 800-451-2709
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AUCTION TERMS & CONDITIONS:

PROCEDURE: The property will be offered in 17 individual tracts, any combination of tracts & as a total 1,090± acre unit. There will be open bidding on all tracts & combinations during the auction as determined by the Auctioneer. Bids on tracts, tract combinations & the total property may compete.

BUYER'S PREMIUM: A 2% Buyer's Premium will be added to the final bid price & included in the contract purchase price.

DOWN PAYMENT: 10% down payment on the day of auction for individual tracts or combinations of tracts. The down payment may be made in the form of cashier's check, personal check, or corporate check. YOUR BIDDING IS NOT CONDITIONAL UPON FINANCING, so be sure you have arranged financing, if needed, & are capable of paying cash at closing.

ACCEPTANCE OF BID PRICES: All successful bidders will be required to enter into Purchase Agreements at the auction site immediately following the close of the auction. All final bid prices are subject to the Sellers' acceptance or rejection.

EVIDENCE OF TITLE: Seller shall provide an owner's title insurance policy in the amount of the purchase price.

DEED: Seller shall provide Warranty or Corporate Warranty Deed(s).

CLOSING: The targeted closing date will be approximately 30 days after the auction.

POSSESSION: Possession is at closing on all Tracts, except for Tract 13 (Grain System) where possession will be granted no later than January 1 2025.

REAL ESTATE TAXES: Seller shall pay the 2024 taxes due in 2025. Buyer shall be responsible for all future real estate taxes.

PROPERTY INSPECTION: Each potential Bidder is responsible for conducting, at their own risk, their own independent inspections, investigations, inquiries & due diligence concerning the property. Inspection dates have been scheduled & will be staffed w/ auction personnel. Further, Seller disclaims any & all responsibility for Bidder's safety during any physical inspection of the property. No party shall be deemed an invitee of the property by virtue of the offering of the property for sale.

MINERAL RIGHTS: All Mineral Rights owned by the seller shall be conveyed to the buyer.

ACREAGE: All tract acreages, dimensions, & proposed boundaries are approximate & have been estimated based on current County GIS tax records & or legal descriptions and/or aerial photos.

SURVEY: The Seller shall provide a new survey where there is no existing legal description or where new boundaries are created by the tract divisions in this auction. Any need for a new survey shall be determined solely by the Seller. Seller & successful bidder shall each pay half (50:50) of the cost of the survey. The type of survey performed shall be at the Seller's option & sufficient for providing title insurance. Combination purchases will receive a perimeter survey only.

AGENCY: Schrader Real Estate & Auction Company, Inc. & its representatives are exclusive agents of the Seller.

DISCLAIMER & ABSENCE OF WARRANTIES: All information contained in this brochure & all related materials are subject to the terms & conditions outlined in the Purchase Agreement. The property is being sold on an "AS IS, WHERE IS" basis, & no warranty or representation, either expressed or implied, concerning the property is made by the Seller or the Auction Company. All sketches & dimensions in the brochure are approximate. Each potential bidder is responsible for conducting his or her own independent inspections, investigations, inquiries, & due diligence concerning the property. The information contained in this brochure is subject to verification by all parties relying on it. No liability for its accuracy, errors, or omissions is assumed by the Seller or the Auction Company. Conduct of the auction & increments of bidding are at the direction & discretion of the Auctioneer. The Seller & Selling Agents reserve the right to preclude any person from bidding if there is any question as to the person's credentials, fitness, etc. All decisions of the Auctioneer are final. **ANY ANNOUNCEMENTS MADE THE DAY OF THE SALE TAKE PRECEDENCE OVER PRINTED MATERIAL OR ANY OTHER ORAL STATEMENTS MADE.**

SOIL TESTS

Summers
Soil Test Report
2022

Robert Summers and Sons
#18035 Tool Shed
309.6A sec8 STEELE

SOIL TESTS

Tracts 1-4

FieldAlytics™ empowering decisions

Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 18035 Tool Shed

	Label	Area
	White	309.58

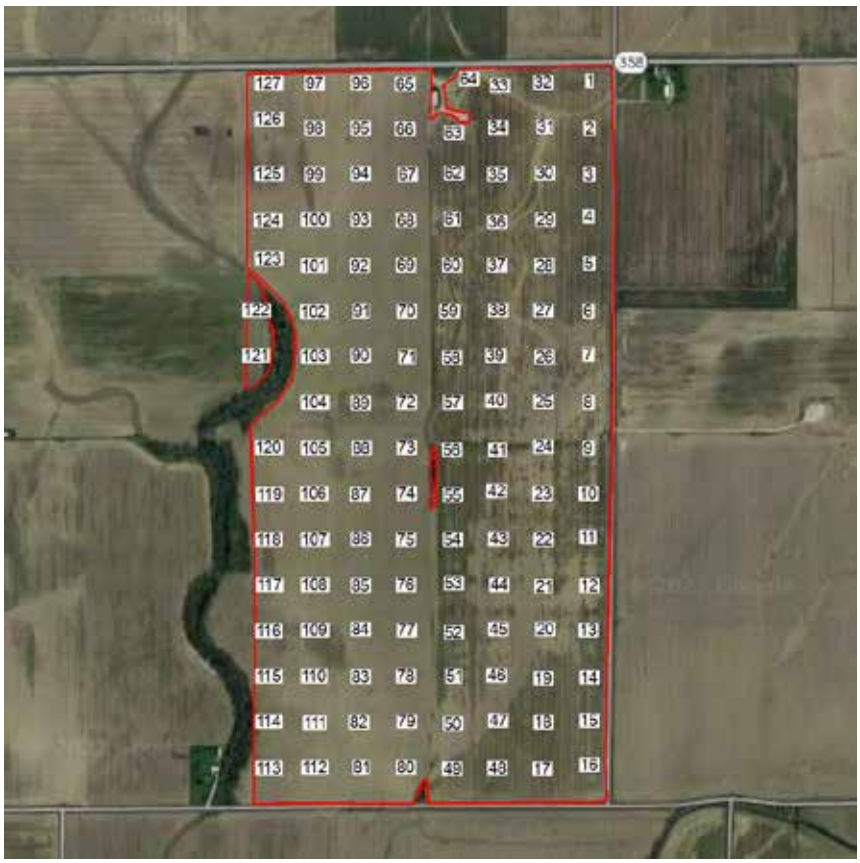
Notes:

SOIL TESTS

Tracts 1-4

FieldAlytics™
empowering decisions

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	18035 Tool Shed	309.58 acres	38.795939, -87.209575



	Min	Max	Avg
P	27.4	418.7	70.4
K	184.2	763.8	288.9
Mg	256.8	877.9	568.9
Ca	4425	7435	6090
S	36.2	67.3	52.0
B	0.0	5.8	2.9
Cu	4.0	8.9	6.0
Fe	203.9	686.9	329.6
Mn	71.6	287.4	167.4
Zn	2.4	19.8	5.7
pH	6.0	7.1	6.4
bpH	6.73	7.00	6.97
OM	2.0	2.5	2.4
CEC	13.5	22.1	18.3

Sample Date	Soil Lab
2022-10-27	Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	47.8	248.1	573.2	6156	42.3	0.8	5.7	252.1	232.9	4.9	6.6	7.00	2.5	18.1
2	52.3	287.6	397.7	5446	51.1	0.0	5.1	224.0	178.6	4.8	6.5	7.00	2.5	15.6
3	60.3	262.1	466.2	6079	47.8	2.7	5.8	247.5	181.9	5.1	6.4	7.00	2.5	17.5
4	52.5	286.2	533.4	6695	55.5	2.6	6.2	269.2	181.7	5.0	6.5	7.00	2.5	19.3
5	50.8	307.4	596.7	6542	52.1	2.1	6.3	290.9	137.7	5.1	6.2	6.91	2.5	20.3
6	55.5	274.9	548.6	6245	51.6	1.8	6.4	355.2	104.6	5.3	6.3	7.00	2.5	18.3
7	68.4	299.7	583.3	6448	53.3	2.1	6.9	426.3	88.2	5.6	6.4	7.00	2.5	18.9
8	65.5	272.2	499.5	5810	48.1	1.0	5.5	391.1	85.2	4.6	6.6	7.00	2.5	17.0
9	61.5	254.9	478.6	5414	43.2	2.5	5.1	417.8	95.3	3.6	6.2	6.92	2.5	16.8
10	66.7	213.4	335.2	4519	40.8	2.7	5.1	357.7	95.2	4.4	6.2	6.93	2.5	13.8
11	70.9	244.3	465.2	5252	49.2	2.8	5.3	469.9	97.9	4.1	6.3	7.00	2.5	15.4

SOIL TESTS

Tracts 1-4

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
12	93.4	315.2	635.6	6394	58.0	0.0	6.0	623.3	86.2	4.6	6.6	7.00	2.5	19.0
13	61.4	264.6	581.6	5763	49.8	2.6	5.8	418.5	112.3	4.0	6.4	7.00	2.5	17.2
14	62.5	286.0	633.9	6383	46.8	0.7	5.7	356.8	103.6	4.8	6.4	7.00	2.5	19.0
15	61.6	275.1	594.1	6229	54.8	1.7	5.4	352.3	90.4	4.5	6.3	7.00	2.5	18.4
16	74.7	267.9	551.5	5542	49.1	2.2	5.1	377.0	100.2	5.0	6.5	7.00	2.5	16.5
17	73.9	286.2	473.4	6118	58.2	0.5	4.6	249.9	179.5	4.8	6.8	7.00	2.5	17.6
18	50.4	261.0	503.5	5603	54.3	3.3	4.8	256.8	135.2	3.8	6.1	6.77	2.5	19.2
19	70.0	272.9	535.1	6071	46.4	1.3	5.6	268.8	108.6	4.5	6.3	6.96	2.5	18.2
20	86.0	269.8	621.6	5956	50.0	0.2	6.4	447.0	90.8	5.1	6.3	6.97	2.5	18.2
21	89.3	328.3	777.6	6548	66.3	3.2	6.8	544.5	71.6	5.6	6.1	6.83	2.5	22.1
22	78.8	286.6	555.7	6488	54.4	2.0	6.4	387.9	100.6	5.0	6.5	7.00	2.5	18.9
23	68.8	244.4	466.6	5642	49.6	2.4	5.8	341.0	91.6	4.6	6.1	6.84	2.5	18.3
24	65.5	275.2	509.8	5799	48.2	2.0	5.7	359.0	107.5	5.0	6.2	6.92	2.5	17.9
25	67.6	268.5	498.2	6069	47.2	0.0	6.0	335.7	96.9	5.8	6.3	6.96	2.5	18.1
26	57.5	269.2	645.5	6799	57.4	1.4	6.9	324.1	108.2	7.4	6.6	7.00	2.5	20.0
27	39.0	260.3	639.3	7112	58.4	2.6	5.6	238.0	133.3	4.8	6.6	7.00	2.5	20.8
28	37.7	234.6	567.3	6081	52.8	2.0	5.0	229.2	162.2	3.7	6.6	7.00	2.5	17.9
29	64.4	269.4	474.6	5629	46.2	1.3	5.0	260.6	192.5	4.8	6.3	7.00	2.5	16.4
30	56.7	276.9	562.4	5889	45.4	2.4	5.7	333.5	271.8	4.8	6.6	7.00	2.5	17.4
31	88.3	301.0	655.5	5679	46.6	1.8	5.6	437.7	272.7	6.2	6.6	7.00	2.0	17.3
32	55.9	269.8	623.5	6050	49.4	2.9	6.4	298.5	197.3	6.0	6.5	7.00	2.5	18.1
33	33.5	215.6	553.6	5351	42.5	2.9	4.3	237.9	274.6	4.2	6.5	7.00	2.5	16.0
34	42.7	255.9	512.2	5747	53.8	5.0	5.6	226.6	226.1	6.0	6.6	7.00	2.0	16.8
35	60.6	323.7	620.5	6824	53.8	3.7	6.9	246.9	194.4	6.2	6.4	7.00	2.5	20.1
36	38.3	233.6	685.9	6036	58.2	4.5	4.6	245.9	237.9	3.7	6.7	7.00	2.5	18.2
37	48.9	249.6	547.8	5852	50.2	1.9	5.8	263.5	153.7	4.6	6.2	6.88	2.5	18.7
38	45.4	251.1	585.8	5976	52.5	1.0	5.5	272.4	167.8	4.8	6.4	7.00	2.5	17.7
39	58.8	309.1	615.2	6427	47.8	2.4	6.2	294.2	151.0	6.3	6.5	7.00	2.5	19.0
40	57.6	293.7	607.6	7156	62.9	1.4	6.6	314.2	135.6	6.3	6.8	7.00	2.5	20.8
41	48.3	281.4	688.9	6719	52.4	1.4	6.8	310.6	128.5	5.7	6.2	6.92	2.5	21.0
42	82.0	305.3	668.4	6048	48.0	3.6	7.0	409.1	137.6	6.5	6.4	7.00	2.0	18.3
43	73.9	298.6	718.2	6477	67.3	3.8	7.1	382.0	110.6	6.9	6.3	7.00	2.5	19.6
44	96.3	311.9	755.7	6789	55.5	1.8	7.0	516.1	111.4	7.1	6.6	7.00	2.0	20.5
45	88.2	304.1	707.5	6563	54.5	2.9	6.8	403.2	115.9	6.2	6.5	7.00	2.5	19.7
46	95.3	308.9	768.5	7031	53.0	4.0	7.1	439.8	97.9	5.9	6.7	7.00	2.5	21.2
47	78.8	273.0	562.2	6333	52.8	3.3	5.5	305.1	126.7	5.1	6.5	7.00	2.5	18.5
48	60.9	299.1	642.0	6978	51.4	2.0	4.9	239.3	219.2	4.9	6.9	7.00	2.5	20.5
49	38.0	271.3	670.6	5959	48.1	2.9	5.3	250.7	190.1	4.2	6.4	7.00	2.0	18.0
50	91.1	339.9	877.9	6682	54.4	4.2	7.3	451.2	140.2	6.9	6.7	7.00	2.5	20.8
51	79.9	297.3	798.3	6462	53.3	3.8	6.5	379.8	173.8	6.8	6.5	7.00	2.5	19.9
52	67.9	303.3	693.2	6003	52.3	3.9	6.3	313.6	192.3	6.2	6.5	7.00	2.5	18.3
53	81.6	378.4	700.6	7071	55.7	3.2	6.6	298.6	194.9	6.9	6.6	7.00	2.5	21.1
54	71.6	359.5	652.7	7435	66.0	3.1	6.5	283.9	160.8	6.5	6.8	7.00	2.0	21.8
55	82.4	296.5	631.8	6315	58.0	3.1	6.6	360.6	186.8	5.8	6.4	7.00	2.5	18.8
56	93.2	298.6	667.6	6338	48.8	4.5	6.0	368.5	193.6	5.4	6.8	7.00	2.0	19.0

SOIL TESTS

Tracts 1-4

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
57	43.3	275.7	623.3	6546	60.5	2.0	5.9	280.1	174.8	4.5	6.3	6.99	2.5	19.4
58	92.6	340.0	766.2	6442	64.3	2.8	6.4	582.6	212.5	6.0	6.8	7.00	2.5	19.7
59	38.0	249.7	577.3	5623	50.6	1.7	4.4	274.8	222.7	3.4	6.0	6.73	2.5	20.0
60	109.4	337.6	696.2	6763	59.2	3.4	6.5	485.3	266.2	6.0	7.1	7.00	2.0	20.2
61	80.3	319.8	646.2	7372	51.1	2.2	8.5	286.7	219.7	7.2	6.7	7.00	2.5	21.5
62	102.4	353.9	612.5	6708	58.3	3.0	8.9	313.4	203.2	8.4	6.5	7.00	2.0	19.8
63	86.2	337.6	644.8	6950	54.7	5.1	8.2	274.1	246.7	9.3	6.5	7.00	2.5	20.5
64	418.7	763.8	385.2	5877	48.1	2.9	6.4	686.9	122.5	19.8	6.6	7.00	2.5	17.3
65	52.9	251.6	366.7	5540	48.8	2.4	5.3	275.6	172.9	5.0	6.3	7.00	2.0	15.7
66	59.4	291.9	532.8	6156	57.4	4.7	6.8	304.9	151.1	7.8	6.3	7.00	2.5	18.0
67	91.1	303.5	549.7	6168	51.1	1.4	8.0	349.3	118.9	7.8	6.3	7.00	2.5	18.1
68	90.1	364.1	641.6	6988	56.0	3.3	7.6	453.9	159.2	6.7	6.6	7.00	2.5	20.6
69	96.6	309.1	596.2	6603	54.0	4.7	8.5	401.2	138.4	7.6	6.3	7.00	2.5	19.4
70	141.4	346.9	532.8	6404	50.6	3.7	8.5	374.2	137.3	8.7	6.4	7.00	2.5	18.7
71	66.7	332.2	604.5	7163	60.8	3.4	6.7	299.7	233.4	6.8	6.4	7.00	2.0	20.9
72	64.6	298.9	612.6	6627	59.7	2.8	6.9	340.0	185.9	6.5	6.4	7.00	2.5	19.5
73	50.3	273.3	688.5	6625	57.8	4.7	7.2	363.7	134.8	6.6	6.2	6.90	2.0	21.0
74	75.2	356.9	612.6	6487	57.4	1.8	7.1	304.6	171.6	6.7	6.4	7.00	2.5	19.2
75	51.0	287.0	588.2	6940	57.4	2.8	6.1	233.7	148.5	5.4	6.2	6.88	2.5	21.6
76	61.8	273.5	540.5	6391	56.1	2.8	6.5	266.0	133.6	6.8	6.6	7.00	2.5	18.6
77	64.2	273.5	604.0	6252	45.5	4.4	6.1	283.7	165.3	6.1	6.2	6.90	2.5	19.7
78	76.5	275.9	588.9	6471	50.8	5.8	6.5	308.4	192.1	6.9	6.6	7.00	2.5	19.0
79	99.8	343.7	737.5	6730	51.9	3.4	6.8	467.6	129.7	7.0	6.5	7.00	2.0	20.3
80	107.3	333.9	692.6	6011	57.9	5.0	6.7	429.2	186.6	6.8	6.7	7.00	2.0	18.3
81	39.5	252.8	590.3	5509	48.3	3.2	4.7	258.2	194.5	4.3	6.2	6.85	2.0	18.4
82	80.9	298.7	531.0	5642	51.4	3.7	5.9	329.8	145.5	5.4	6.4	7.00	2.5	16.7
83	57.5	267.7	445.9	5412	53.0	2.5	5.1	249.7	192.0	6.0	6.2	6.85	2.5	17.5
84	64.2	279.4	455.1	6009	49.5	3.0	5.3	266.9	153.6	4.8	6.5	7.00	2.5	17.3
85	53.3	257.6	421.4	5686	44.4	3.1	5.0	243.1	147.1	4.2	6.3	6.98	2.5	16.5
86	57.5	304.9	563.1	7387	63.3	2.2	5.7	237.9	198.4	4.6	6.7	7.00	2.5	21.2
87	32.5	276.4	581.5	6803	53.0	1.1	5.0	207.4	146.6	3.3	6.5	7.00	2.5	19.8
88	69.5	305.8	712.0	6886	58.2	4.9	6.5	448.7	149.9	5.2	6.5	7.00	2.0	20.6
89	49.3	308.3	684.2	6513	59.1	2.7	6.1	332.3	173.3	4.9	6.2	6.93	2.0	20.4
90	50.9	270.8	527.0	6512	46.8	2.7	6.3	256.2	218.9	4.9	6.6	7.00	2.5	18.8
91	101.3	304.4	517.7	6551	55.5	1.9	7.5	296.5	145.2	7.6	6.4	7.00	2.5	18.9
92	80.3	359.3	524.5	6554	56.6	2.0	7.1	289.2	127.2	6.0	6.5	7.00	2.5	19.0
93	56.6	250.9	522.1	6107	38.0	2.1	7.0	313.0	112.6	6.0	6.2	6.85	2.5	19.6
94	55.1	241.6	483.4	5566	43.3	2.2	6.8	314.7	110.4	4.7	6.3	6.96	2.0	16.7
95	41.9	228.1	441.6	5497	42.1	3.3	5.2	267.0	179.2	5.3	6.2	6.91	2.5	17.0
96	27.4	211.3	400.7	4630	36.2	3.8	4.2	247.3	218.5	2.4	6.3	7.00	2.0	13.5
97	30.3	184.2	382.7	4425	45.8	3.1	4.0	203.9	162.2	2.8	6.1	6.81	2.0	15.2
98	40.0	213.4	529.5	5331	44.4	4.1	4.6	219.9	194.9	5.3	6.6	7.00	2.5	15.8
99	34.1	228.6	590.5	5453	42.5	2.2	5.5	287.2	198.9	4.4	6.2	6.93	2.0	17.2
100	58.6	265.3	528.0	5171	52.7	3.9	5.6	286.3	208.6	5.6	6.4	7.00	2.5	15.5
101	49.3	248.0	523.5	5656	45.7	3.5	5.8	241.0	156.7	4.7	6.2	6.91	2.5	17.7

SOIL TESTS

Tracts 1-4

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
102	165.1	439.0	393.3	5726	53.8	3.4	7.3	343.1	171.3	14.8	6.7	7.00	2.5	16.5
103	50.4	256.5	437.0	5553	42.0	4.3	5.5	249.5	198.1	5.3	6.1	6.81	2.0	18.3
104	42.2	238.8	659.1	6479	59.7	3.9	5.8	331.2	233.7	5.4	6.5	7.00	2.0	19.3
105	43.0	265.3	657.8	5900	54.3	3.7	6.2	335.9	199.2	5.2	6.3	6.97	2.0	18.2
106	31.8	271.1	601.3	6306	48.2	2.8	5.4	219.2	173.6	3.9	6.4	7.00	2.0	18.6
107	66.0	307.0	500.2	6351	51.2	3.3	6.3	275.7	207.1	6.1	6.4	7.00	2.0	18.4
108	66.4	271.2	459.2	5726	48.4	4.8	5.8	289.9	190.5	4.7	6.3	7.00	2.5	16.6
109	122.5	320.6	525.0	5757	48.8	1.7	6.2	628.8	159.3	6.6	6.4	7.00	2.0	17.0
110	49.7	219.7	450.7	5295	45.2	3.3	4.8	244.7	225.9	4.1	6.4	7.00	2.0	15.4
111	69.2	235.4	600.5	5647	54.0	1.9	6.2	345.1	173.5	5.7	6.3	6.97	2.0	17.3
112	65.8	265.8	611.5	6107	56.4	3.4	5.8	360.5	191.3	5.6	6.7	7.00	2.5	18.2
113	49.5	249.1	573.3	5713	60.2	3.7	5.3	254.7	183.4	5.2	6.2	6.95	2.5	17.6
114	45.2	258.2	586.9	5753	53.1	5.7	5.3	298.4	217.1	5.0	6.3	7.00	2.5	17.2
115	41.0	190.0	423.3	4851	37.9	0.9	4.2	249.3	207.0	3.9	6.1	6.83	2.5	16.2
116	83.6	250.3	638.8	5725	54.2	3.2	6.6	503.1	161.1	6.5	6.4	7.00	2.0	17.3
117	66.2	277.5	522.3	5784	48.3	4.3	6.3	474.5	207.2	6.4	6.2	6.86	2.5	18.7
118	89.9	322.0	496.8	5653	52.7	4.5	6.6	508.1	213.8	7.1	6.4	7.00	2.0	16.6
119	40.6	246.3	547.7	5588	48.0	4.3	5.4	258.9	213.2	4.9	6.1	6.81	2.5	18.8
120	44.6	240.4	591.2	5246	50.2	3.5	4.9	279.4	287.4	4.9	6.5	7.00	2.5	15.9
121	121.4	400.8	589.6	5167	49.6	4.1	5.5	293.3	202.2	6.4	6.2	6.88	2.5	17.3
122	99.4	391.9	539.5	5326	59.6	1.9	5.2	247.4	204.0	5.9	6.4	7.00	2.0	16.1
123	196.6	425.3	256.8	5135	46.6	3.4	6.5	395.1	161.7	7.3	6.4	7.00	2.0	14.5
124	103.4	433.2	345.8	6374	61.1	5.4	5.9	265.7	160.6	6.2	6.9	7.00	2.5	17.9
125	69.8	226.2	479.0	6109	53.7	4.4	6.0	337.3	194.3	5.6	6.8	7.00	2.5	17.6
126	40.7	194.7	329.7	4627	50.0	4.9	4.5	237.2	197.4	4.1	6.2	6.95	2.5	13.8
127	54.0	249.5	515.4	5390	47.3	4.9	5.5	248.4	247.1	5.3	6.6	7.00	2.0	15.9

SOIL TESTS

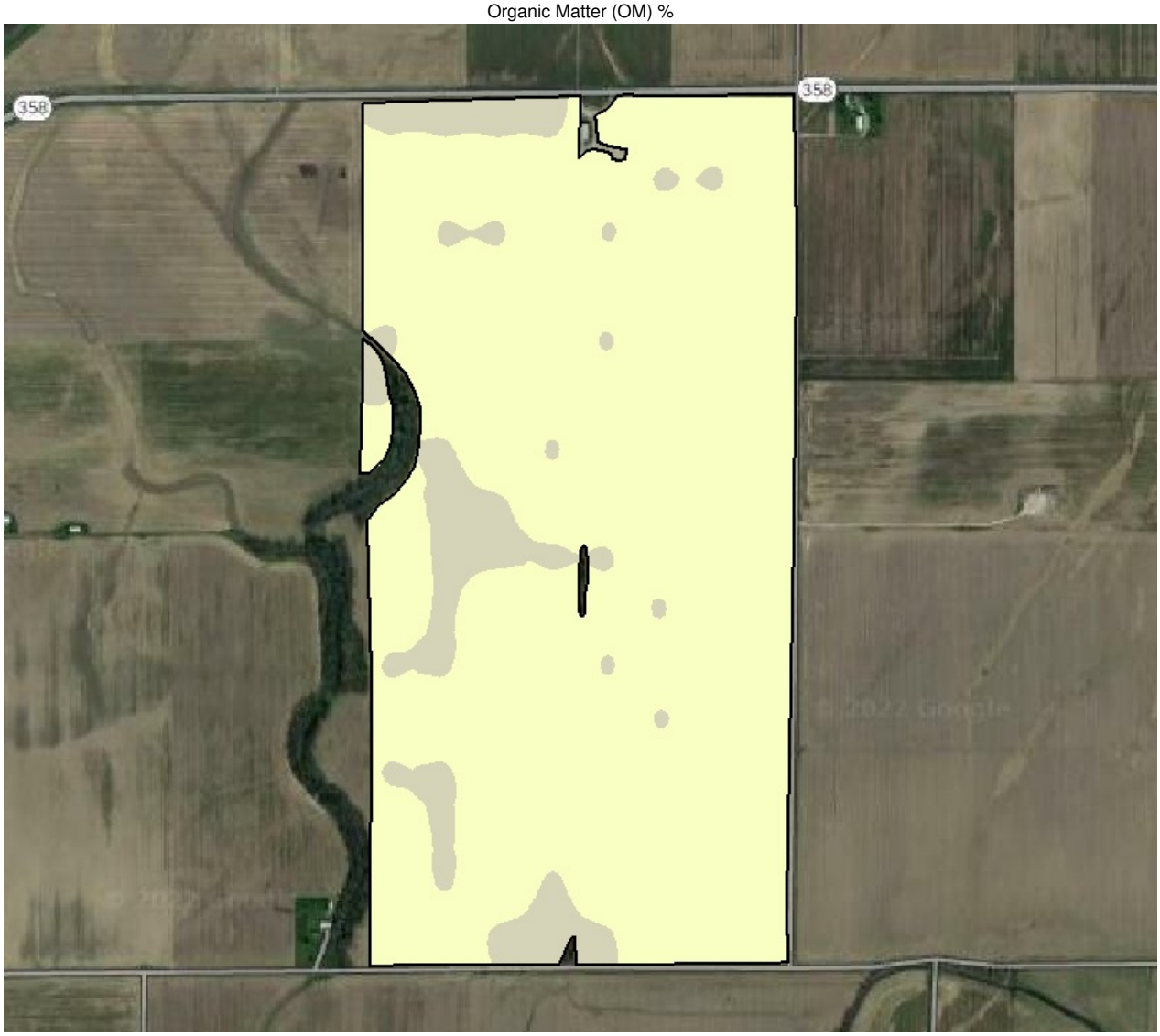
Tracts 1-4

FieldAlytics™
empowering decisions

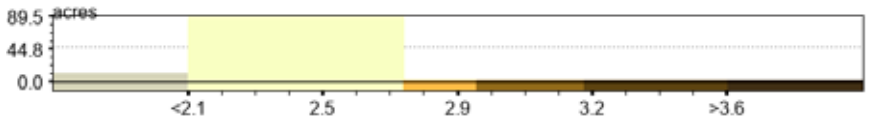
Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18035 Tool Shed | **Zone:** Not Specified | **Area:** 309.6 | **Sample Date:** 2022-10-27

Organic Matter (OM) %



Min: 2.0 **Max:** 2.5 **Avg:** 2.4



SOIL TESTS

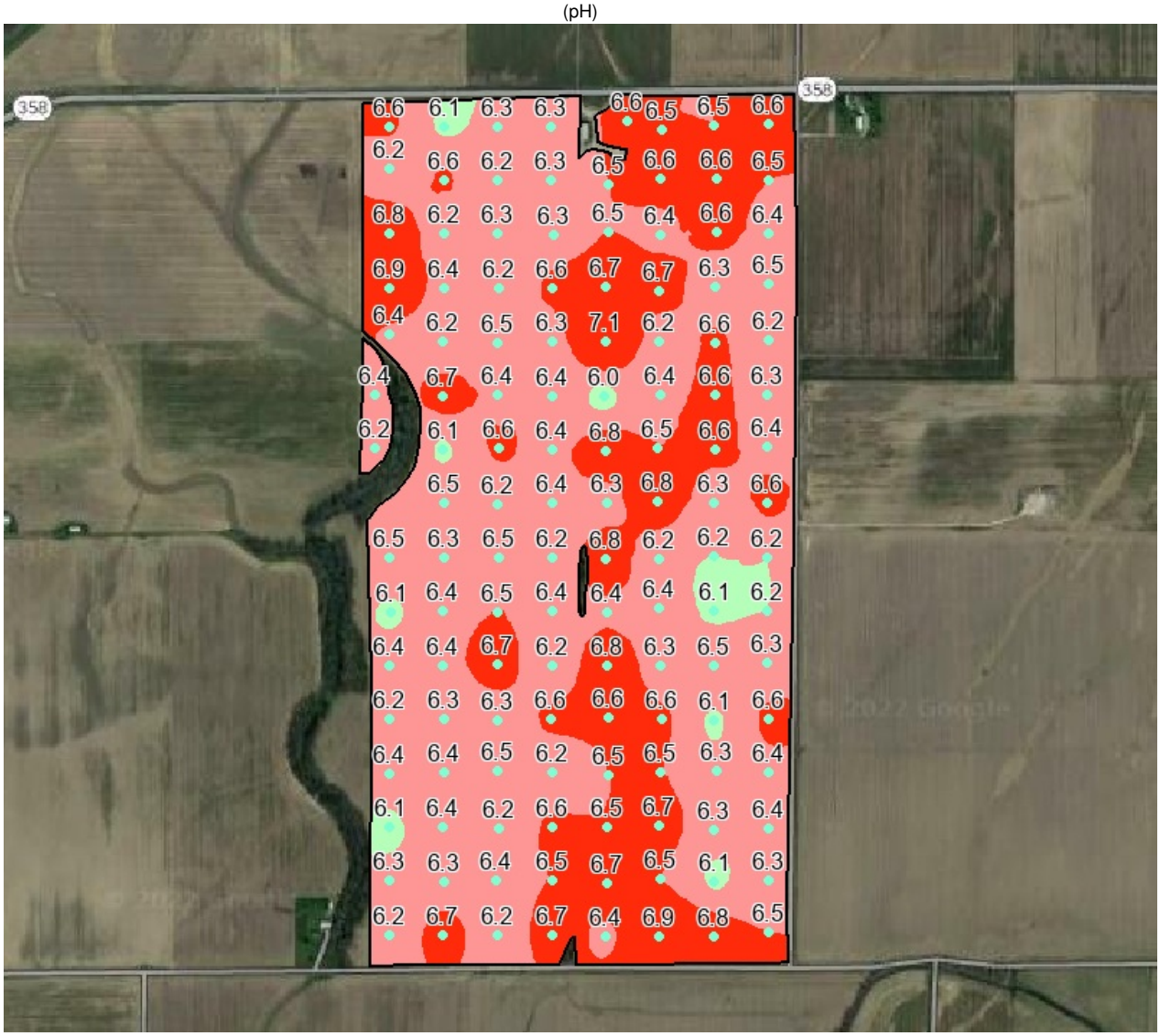
Tracts 1-4

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18035 Tool Shed | **Zone:** Not Specified | **Area:** 309.6 | **Sample Date:** 2022-10-27

(pH)



Min: 6.0 **Max:** 7.1 **Avg:** 6.4

(pH)	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	0.0	0.0
5.6-6.0	Low	0.0	0.0
6.0-6.2	Optimal	7.97	2.57
6.2-6.5	High	208.45	67.33
6.5-0	Very High	93.15	30.09

SOIL TESTS

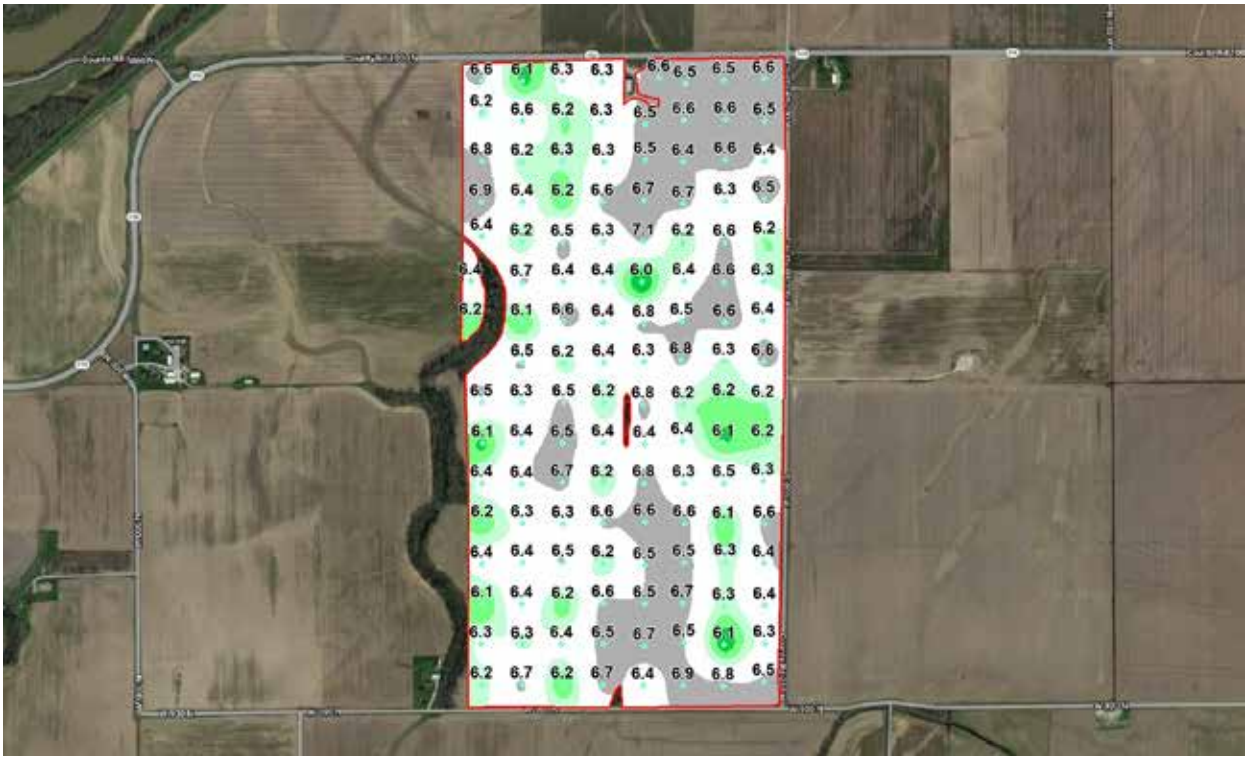
Tracts 1-4

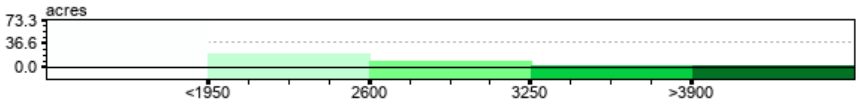
FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18035 Tool Shed**

Lime - Fertilizer Application (lbs/ac)





Equation Variables

Target pH: 6.5

Lab:	Agricultural Soil Management	Switch Rate:	500 lbs/ac	Total Area:	310.18 ac
Custom Eq:	L 5	Rate Multiplier:	N/A	Total Product:	375880.92 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	187.94 ton
Sample Date:	2022-10-27	Min Application Rate:	1000.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	N/A	Max Application Rate:	3874.15 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	1599.43 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	6000 lbs/ac	Application Area:	235.01 ac	Total Application Cost:	$0.0
Min Rate:	1000 lbs/ac	Average Field Rate:	1211.82 lbs/ac	Total Cost:	$0.0

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18035 Tool Shed

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000 lbs/ac	1000 lbs/ac	0.00	500 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	375880.92 (lbs)	187.94 ton	235.01	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18035 Tool Shed	08 04N 07W	--	Daviess	309.58 ac	38.795939, -87.209575

SOIL TESTS

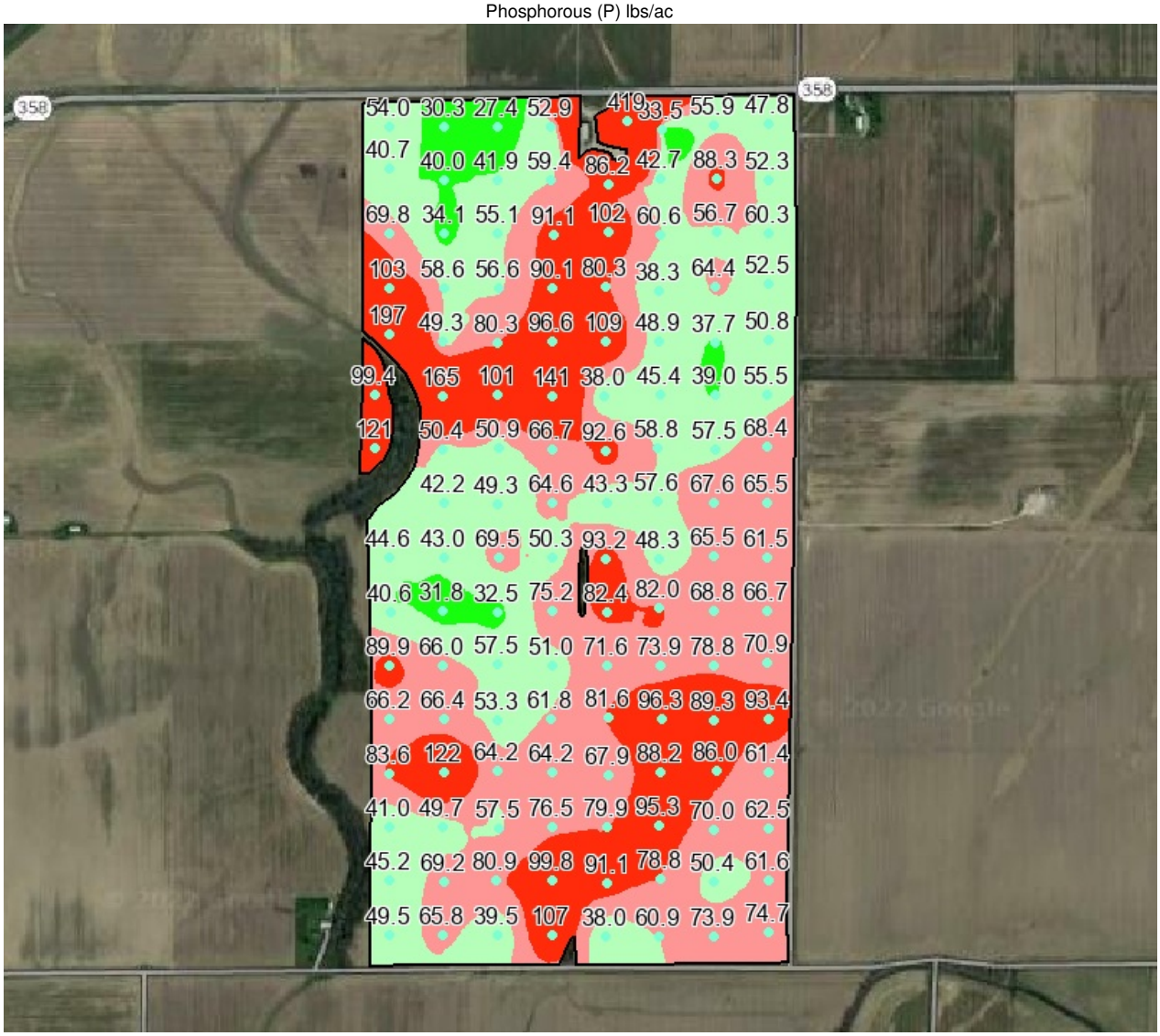
Tracts 1-4

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18035 Tool Shed | **Zone:** Not Specified | **Area:** 309.6 | **Sample Date:** 2022-10-27

Phosphorous (P) lbs/ac



Min: 27.4 **Max:** 418.7 **Avg:** 70.4

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 20	Very Low	0.0	0.0
20 - 40	Low	12.04	3.89
40- 60	Optimal	106.35	34.35
60- 80	High	117.54	38.06
80-1000	Very High	73.33	23.69

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

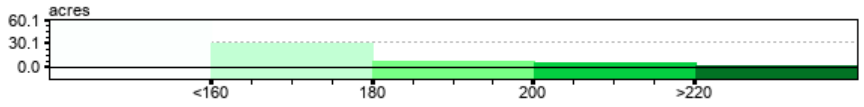
Tracts 1-4

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18035 Tool Shed**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	310.18 ac
Custom Eq:	P 4 Summers	Rate Multiplier:	N/A	Total Product:	19910.48 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	9.96 ton
Sample Date:	2022-10-27	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	156.87 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	126.92 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	64.19 lbs/ac	Total Cost:	$0.0

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18035 Tool Shed

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	19910.48 (lbs)	9.96 ton	126.92	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18035 Tool Shed	08 04N 07W	--	Daviess	309.58 ac	38.795939, -87.209575

SOIL TESTS

Tracts 1-4

FieldAlytics™
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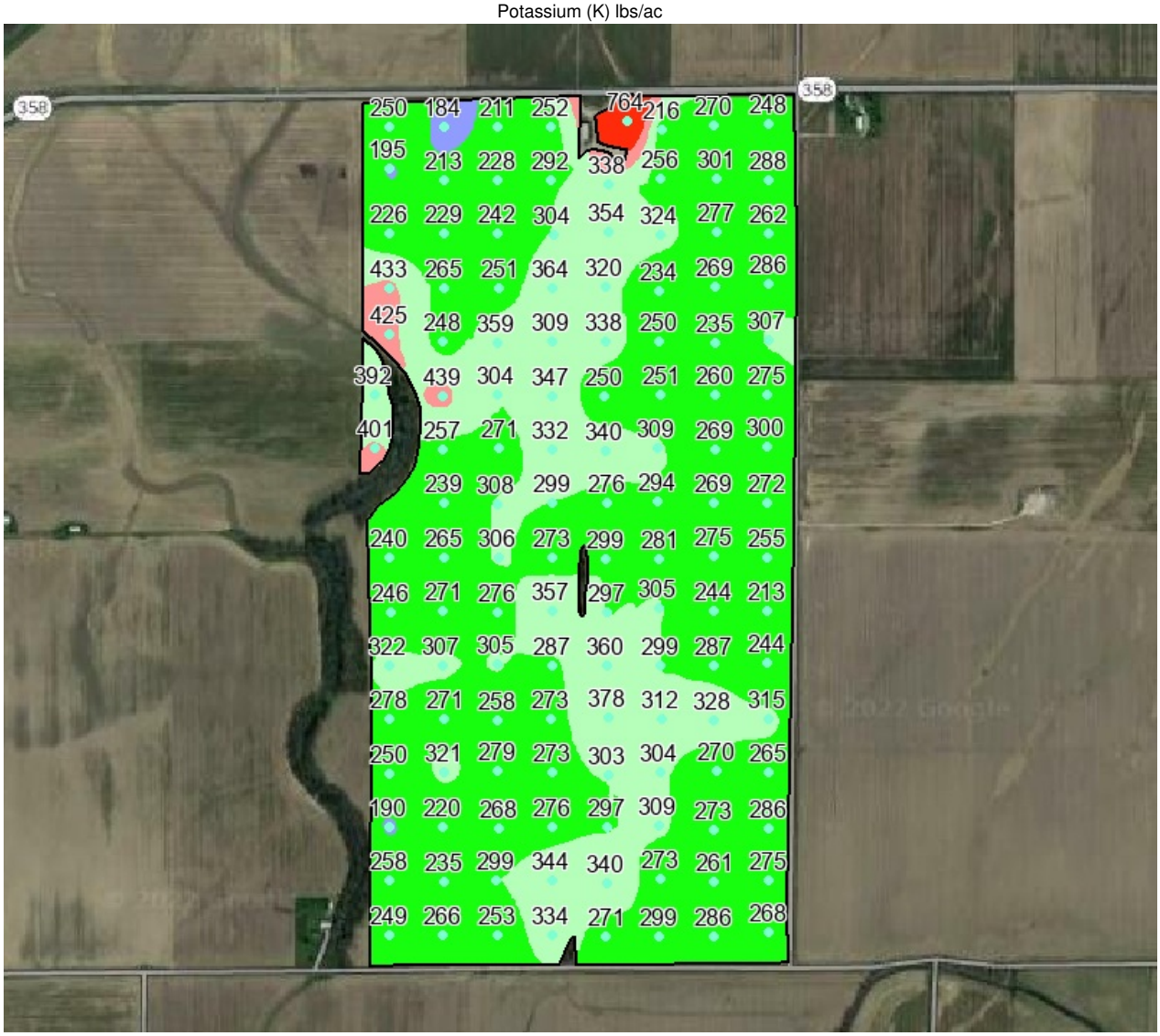
Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18035 Tool Shed | **Zone:** Not Specified | **Area:** 309.6 | **Sample Date:** 2022-10-27

Potassium (K) lbs/ac



Min: 184.2 **Max:** 763.8 **Avg:** 288.9

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 200	Very Low	1.92	0.62
200 - 300	Low	214.01	69.42
300- 400	Optimal	86.64	27.99
400- 500	High	4.26	1.38
500-1200	Very High	1.85	0.6

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

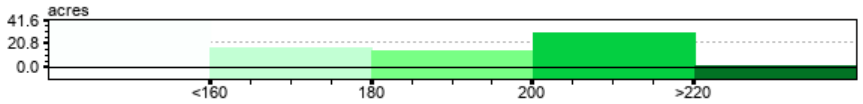
Tracts 1-4

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18035 Tool Shed**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	310.18 ac
Custom Eq:	K 01 Summers	Rate Multiplier:	N/A	Total Product:	52205.09 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	26.10 ton
Sample Date:	2022-10-27	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	173.03 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	301.71 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	168.31 lbs/ac	Total Cost:	$0.0

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18035 Tool Shed

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	52205.09 (lbs)	26.10 ton	301.71	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18035 Tool Shed	08 04N 07W	--	Daviess	309.58 ac	38.795939, -87.209575

SOIL TESTS

Tracts 1-4

FieldAlytics™
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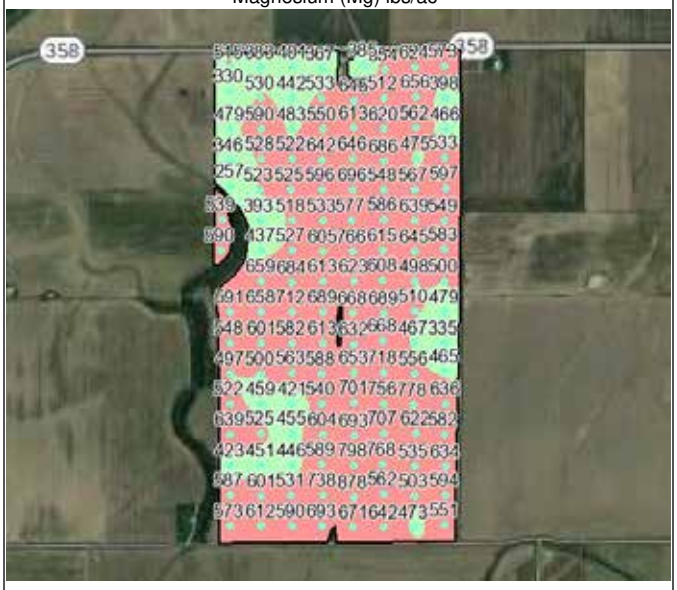
Elemental Field Sample Report

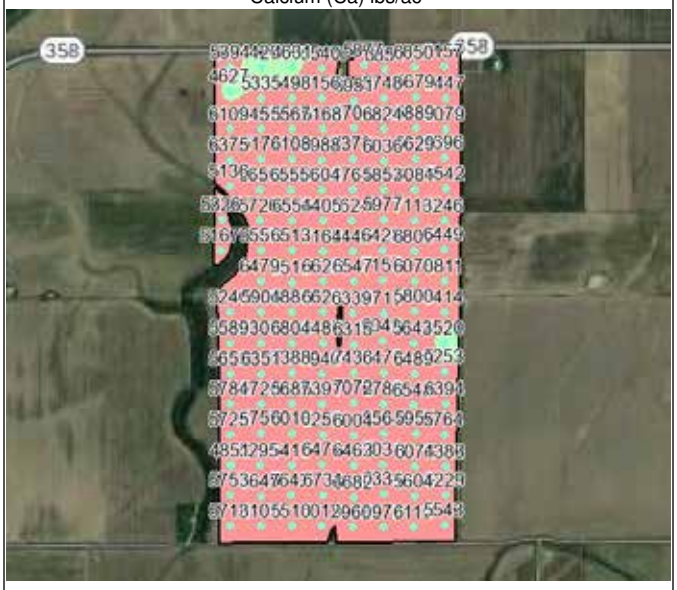
Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18035 Tool Shed | **Zone:** Not Specified | **Area:** 309.6 | **Sample Date:** 2022-10-27

Magnesium (Mg) lbs/ac



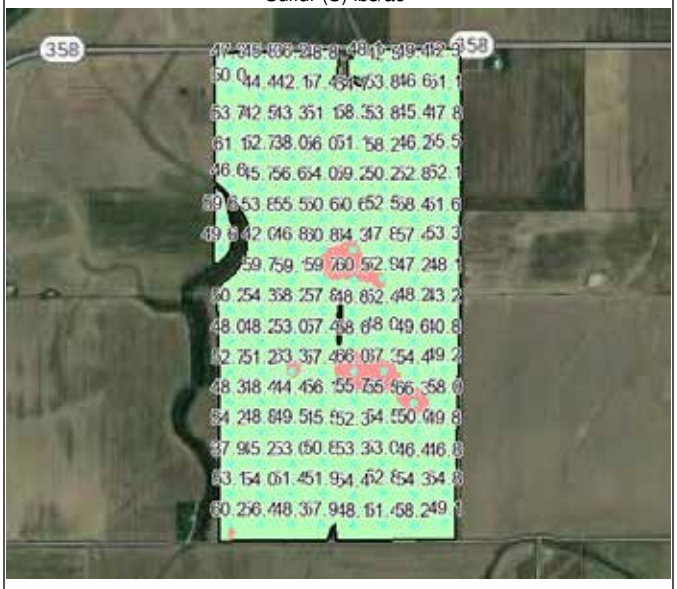
Min: 256.8 **Max:** 877.9 **Avg:** 568.9

Calcium (Ca) lbs/ac

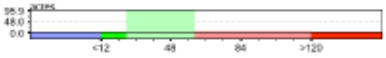


Min: 4425 **Max:** 7435 **Avg:** 6090

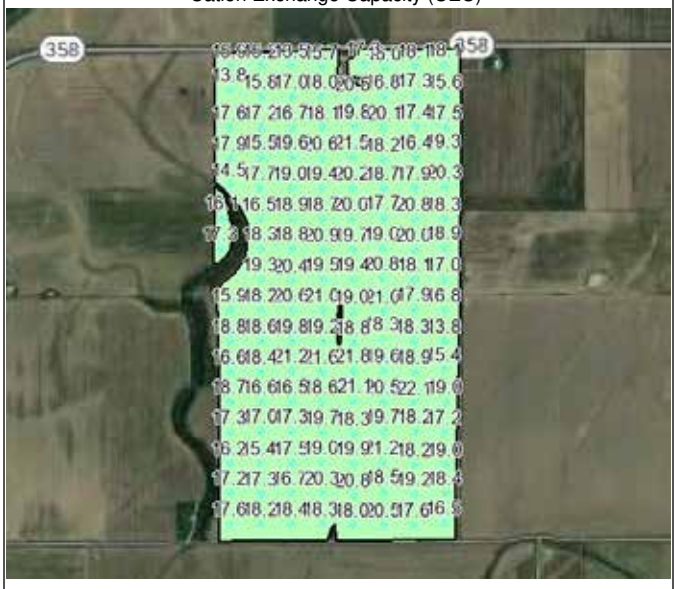
Sulfur (S) lbs/ac



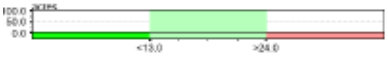
Min: 36.2 **Max:** 67.3 **Avg:** 52.0



Cation Exchange Capacity (CEC)



Min: 13.5 **Max:** 22.1 **Avg:** 18.3



Summers
Soil Test Report
2022

Robert Summers and Sons
#18033 Old House
35.4A sec17 STEELE

SOIL TESTS

Tract 5

FieldAlytics™
empowering decisions

Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 18033 Old House

	Label	Area
	White	35.42

Notes:

SOIL TESTS

Tract 5

FieldAlytics™
empowering decisions

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	18033 Old House	35.42 acres	38.783117, -87.216799

	Min	Max	Avg
P	27.6	176.3	65.7
K	193.9	334.7	269.5
Mg	341.5	893.1	583.5
Ca	2832	5809	4556
S	31.6	53.5	40.9
B	0.0	2.4	1.0
Cu	3.6	8.1	6.1
Fe	262.2	499.3	394.5
Mn	85.2	296.1	180.4
Zn	2.9	19.0	6.9
pH	4.9	5.8	5.6
bpH	5.60	6.55	6.26
OM	2.0	2.5	2.2
CEC	20.4	27.1	23.1

Sample Date	Soil Lab
2022-10-28	Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	35.9	262.2	651.0	5117	53.5	0.0	5.8	399.6	194.9	6.0	5.8	6.55	2.0	21.2
2	90.5	308.6	794.2	5809	46.6	2.4	7.3	434.7	94.4	7.6	5.8	6.55	2.0	23.6
3	71.5	334.7	893.1	5692	51.4	0.3	6.6	435.5	88.4	7.1	5.8	6.53	2.5	24.0
4	92.8	325.9	618.8	4738	41.0	0.1	6.3	499.0	85.2	6.5	5.7	6.42	2.0	21.8
5	176.3	307.4	341.5	3562	35.9	0.2	8.1	482.7	133.2	19.0	5.3	6.01	2.0	22.6
6	89.8	295.5	768.7	5153	47.6	0.5	7.1	499.3	103.0	9.0	5.8	6.47	2.5	22.8
7	77.9	321.0	766.6	5143	45.2	0.4	7.0	404.2	126.5	7.6	5.7	6.41	2.5	23.5
8	27.6	236.9	510.4	4045	34.1	1.0	4.5	262.2	182.7	3.9	5.5	6.19	2.5	22.3
9	29.3	193.9	433.9	4047	34.8	1.6	5.0	332.2	296.1	4.7	5.6	6.31	2.5	20.5
10	41.5	243.1	576.8	4533	35.3	2.2	5.6	379.7	233.9	5.0	5.8	6.47	2.0	20.4
11	46.9	249.6	584.9	4743	41.5	0.1	5.9	364.8	216.5	6.1	5.5	6.25	2.0	23.6

SOIL TESTS

Tract 5

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
12	61.2	271.7	453.2	4637	40.4	2.1	6.9	318.0	217.6	6.2	5.4	6.13	2.5	24.3
13	38.9	218.3	433.2	3729	31.6	1.6	5.7	378.5	291.4	5.4	5.0	5.69	2.0	27.1
14	39.4	203.8	343.1	2832	34.2	1.8	3.6	332.5	261.6	2.9	4.9	5.60	2.0	25.6

SOIL TESTS

Tract 5

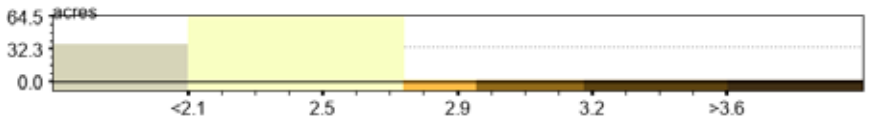
FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18033 Old House | **Zone:** Not Specified | **Area:** 35.4 | **Sample Date:** 2022-10-28

Organic Matter (OM) %

Min: 2.0 **Max:** 2.5 **Avg:** 2.2



SOIL TESTS

Tract 5

FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18033 Old House | **Zone:** Not Specified | **Area:** 35.4 | **Sample Date:** 2022-10-28

(pH)

Min: 4.9 **Max:** 5.8 **Avg:** 5.6

(pH)	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	16.46	46.47
5.6-6.0	Low	18.95	53.5
6.0-6.2	Optimal	0.0	0.0
6.2-6.5	High	0.0	0.0
6.5-0	Very High	0.0	0.0

SOIL TESTS

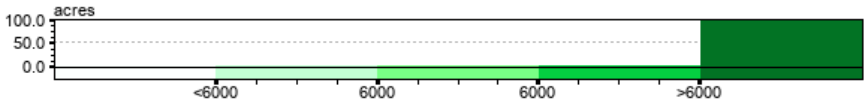
Tract 5

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18033 Old House**

Lime - Fertilizer Application (lbs/ac)



Equation Variables

Target pH:	6.5

Lab:	Agricultural Soil Management	Switch Rate:	500 lbs/ac	Total Area:	35.5 ac
Custom Eq:	L 5	Rate Multiplier:	N/A	Total Product:	212988.33 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	106.49 ton
Sample Date:	2022-10-28	Min Application Rate:	6000.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	N/A	Max Application Rate:	6000.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	6000.0 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	6000 lbs/ac	Application Area:	35.5 ac	Total Application Cost:	$0.0
Min Rate:	1000 lbs/ac	Average Field Rate:	6000.00 lbs/ac	Total Cost:	$0.0

Tract 5

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18033 Old House

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000 lbs/ac	1000 lbs/ac	0.00	500 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	212988.33 (lbs)	106.49 ton	35.50	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18033 Old House	17 04N 07W	--	Daviess	35.42 ac	38.783117, -87.216799

SOIL TESTS

Tract 5

FieldAlytics™
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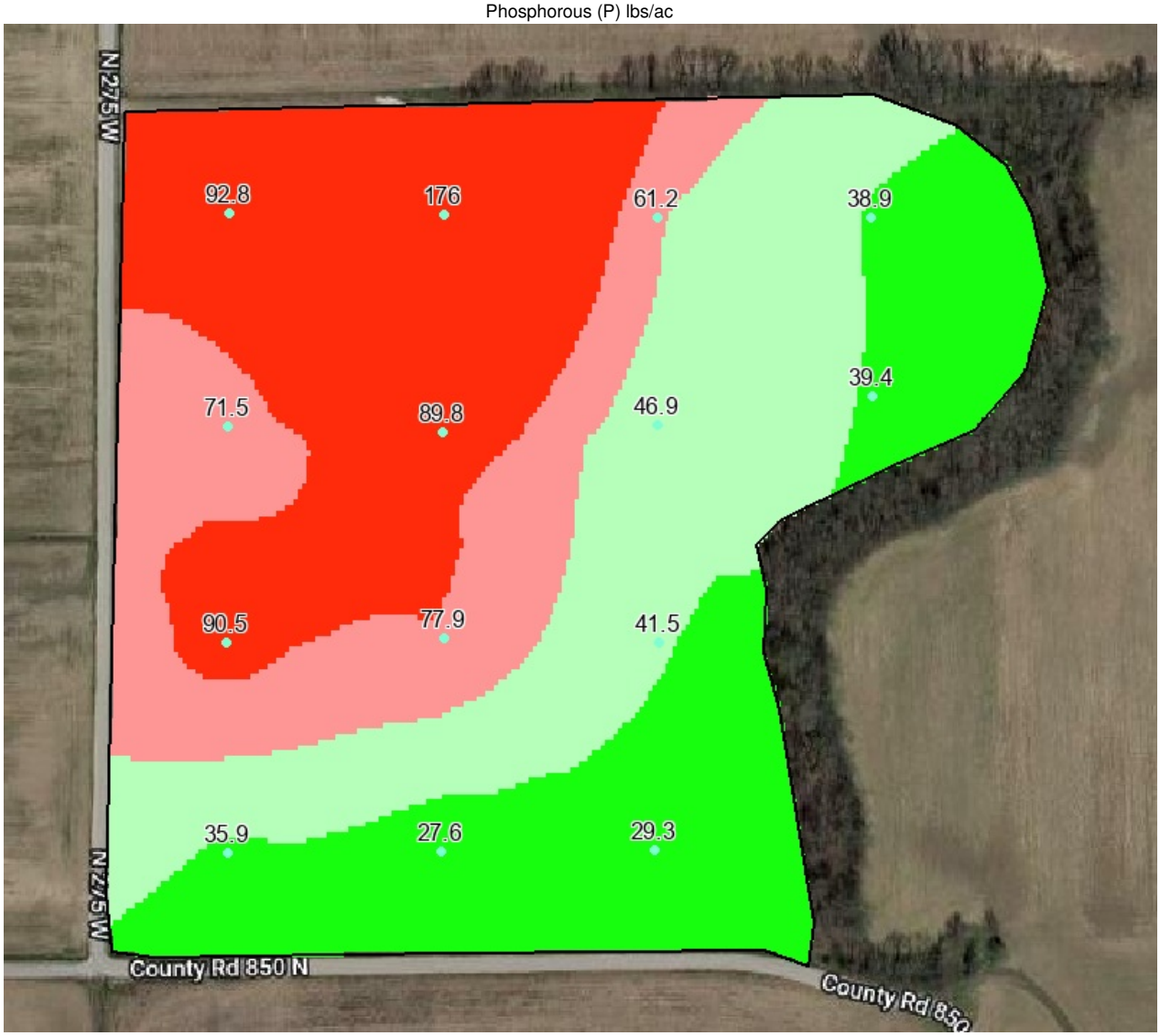
Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18033 Old House | **Zone:** Not Specified | **Area:** 35.4 | **Sample Date:** 2022-10-28

Phosphorous (P) lbs/ac



Min: 27.6 **Max:** 176.3 **Avg:** 65.7

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 20	Very Low	0.0	0.0
20 - 40	Low	9.37	26.45
40- 60	Optimal	9.13	25.78
60- 80	High	6.47	18.27
80-1000	Very High	10.46	29.53

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

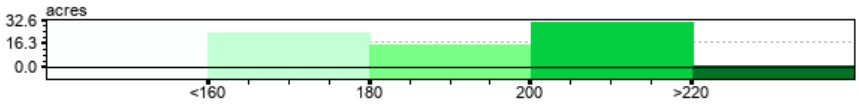
Tract 5

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18033 Old House**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	35.5 ac
Custom Eq:	P 4 Summers	Rate Multiplier:	N/A	Total Product:	3192.1 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	1.60 ton
Sample Date:	2022-10-28	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	176.13 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	18.12 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	89.92 lbs/ac	Total Cost:	$0.0

Tract 5

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18033 Old House

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	3192.10 (lbs)	1.60 ton	18.12	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18033 Old House	17 04N 07W	--	Daviess	35.42 ac	38.783117, -87.216799

SOIL TESTS

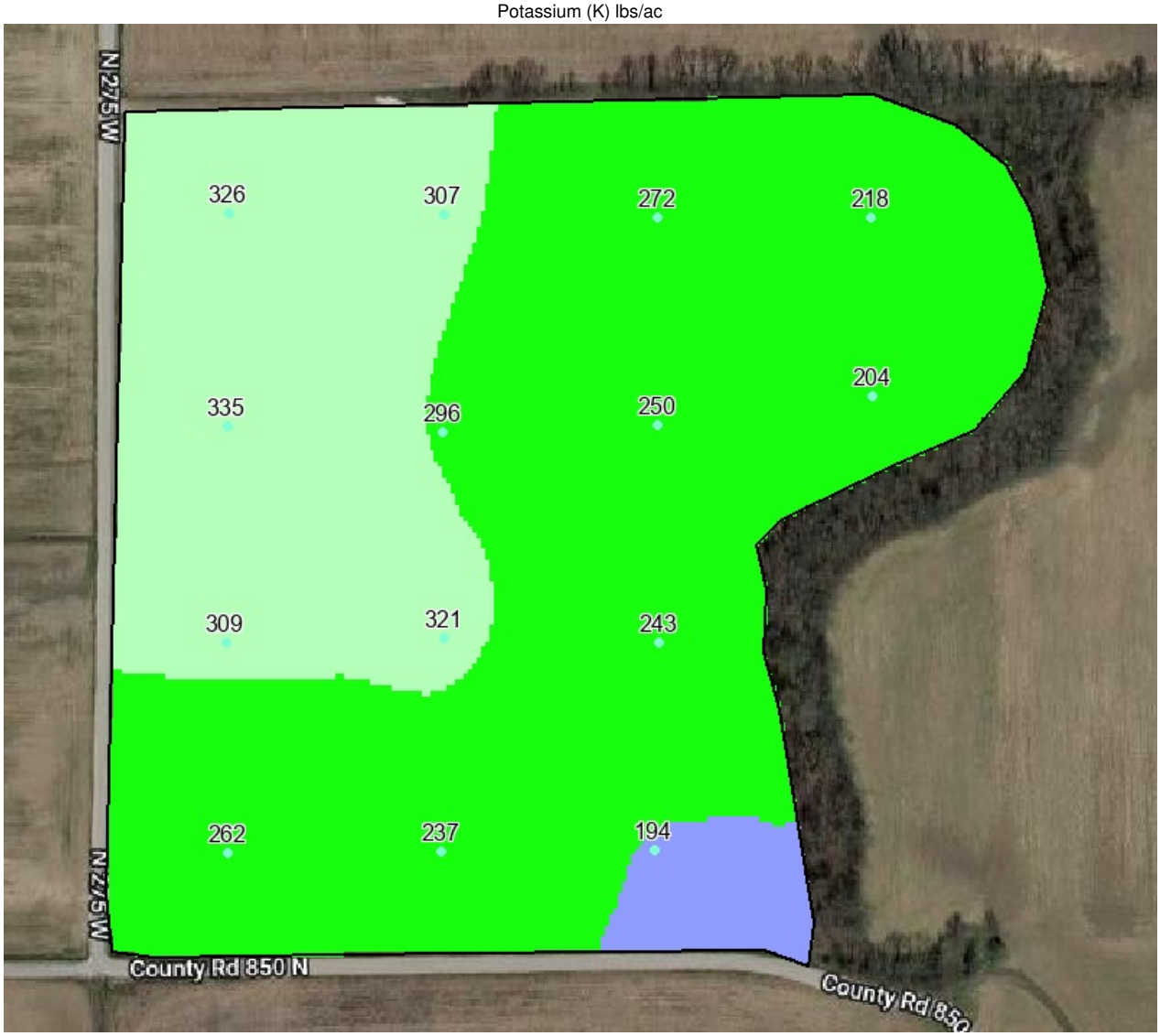
Tract 5

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18033 Old House | **Zone:** Not Specified | **Area:** 35.4 | **Sample Date:** 2022-10-28

Potassium (K) lbs/ac



Min: 193.9 **Max:** 334.7 **Avg:** 269.5

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 200	Very Low	1.33	3.76
200 - 300	Low	23.3	65.78
300- 400	Optimal	10.79	30.46
400- 500	High	0.0	0.0
500-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

Tract 5

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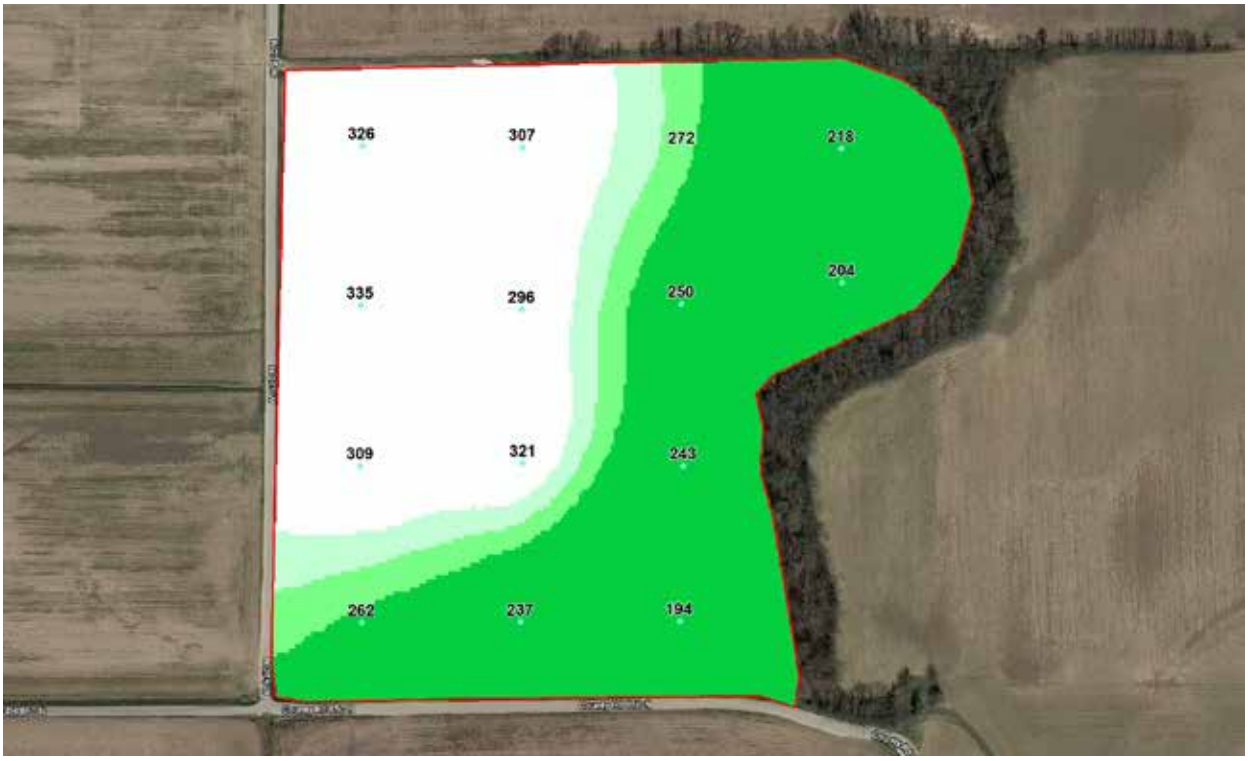
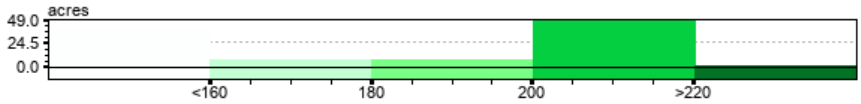
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18033 Old House**

Potash 0-0-60 - Fertilizer Application (lbs/ac)





Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	35.5 ac
Custom Eq:	K 01 Summers	Rate Multiplier:	N/A	Total Product:	6395.15 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	3.20 ton
Sample Date:	2022-10-28	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	180.15 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	35.5 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	180.15 lbs/ac	Total Cost:	$0.0

Tract 5

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Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18033 Old House

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	6395.15 (lbs)	3.20 ton	35.50	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18033 Old House	17 04N 07W	--	Daviess	35.42 ac	38.783117, -87.216799

SOIL TESTS

Tract 5

FieldAlytics™
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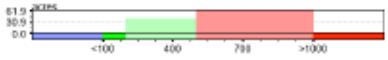
Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18033 Old House | **Zone:** Not Specified | **Area:** 35.4 | **Sample Date:** 2022-10-28

Magnesium (Mg) lbs/ac

Min: 341.5 **Max:** 893.1 **Avg:** 583.5

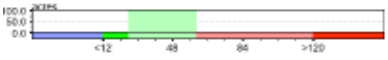


Calcium (Ca) lbs/ac

Min: 2832 **Max:** 5809 **Avg:** 4556

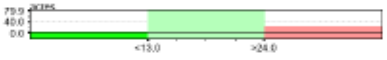
Sulfur (S) lbs/ac

Min: 31.6 **Max:** 53.5 **Avg:** 40.9



Cation Exchange Capacity (CEC)

Min: 20.4 **Max:** 27.1 **Avg:** 23.1



Summers
Soil Test Report
2022

Robert Summers and Sons
#18034 40ac
46.3A sec17 STEELE

SOIL TESTS

Tract 6

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Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 18034 40 Acres

	Label	Area
	White	46.31

Notes:

SOIL TESTS

Tract 6

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Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	18034 40 Acres	46.31 acres	38.782639, -87.212112

	Min	Max	Avg
P	40.7	136.1	75.4
K	211.5	362.3	250.2
Mg	541.5	1014	692.9
Ca	4449	7218	5770
S	30.4	47.5	39.5
B	0.0	5.0	2.1
Cu	4.9	7.9	6.1
Fe	382.7	810.7	553.7
Mn	128.9	347.0	211.1
Zn	3.6	10.5	6.0
pH	5.3	6.4	5.9
bpH	5.98	7.00	6.59
OM	2.0	2.5	2.2
CEC	19.6	26.4	22.6

Sample Date	Soil Lab
2022-10-28	Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	64.6	256.6	559.2	5323	37.0	1.0	5.1	416.8	172.0	4.2	5.8	6.54	2.5	21.5
2	68.8	256.4	687.1	6075	42.3	2.4	6.1	536.5	167.3	5.9	5.8	6.54	2.5	23.9
3	62.0	236.2	628.9	5706	41.6	3.0	5.7	598.7	154.0	5.0	5.9	6.60	2.5	22.0
4	105.7	272.2	748.1	6423	43.4	0.3	6.5	511.9	147.2	7.0	5.9	6.63	2.5	24.0
5	136.1	362.3	976.1	7218	45.1	1.9	7.9	711.7	182.4	9.8	6.4	7.00	2.5	22.6
6	61.5	236.8	694.1	5512	33.0	2.4	5.7	595.0	128.9	4.8	5.8	6.55	2.5	22.4
7	75.2	258.1	685.3	5693	42.4	0.8	5.6	689.4	149.2	4.9	5.9	6.57	2.0	22.6
8	47.5	226.9	612.8	5567	39.3	0.6	5.4	395.9	168.2	4.2	5.8	6.48	2.0	23.0
9	41.7	234.7	541.5	4449	35.2	0.0	4.9	382.7	223.9	3.6	5.3	5.98	2.0	25.9
10	54.6	232.3	688.5	5362	38.7	0.6	6.3	493.9	214.2	5.6	5.5	6.18	2.0	26.4
11	61.4	259.6	622.6	5444	38.7	0.6	5.4	418.3	274.2	5.1	5.7	6.38	2.0	24.0

SOIL TESTS

Tract 6

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ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
12	90.3	253.7	664.7	5468	34.9	1.3	5.8	662.1	176.1	5.3	5.8	6.48	2.0	23.0
13	84.1	239.9	637.4	5464	42.2	1.2	5.6	696.2	160.3	5.1	5.9	6.58	2.0	21.7
14	95.0	269.1	1014	6551	41.8	3.8	7.4	516.6	252.3	10.5	6.2	6.92	2.5	21.9
15	76.8	216.8	637.6	5514	30.4	3.5	5.7	635.7	158.8	5.0	6.0	6.69	2.0	20.4
16	51.2	218.5	615.1	5638	33.6	2.7	5.8	472.8	295.5	5.9	5.9	6.59	2.0	21.9
17	40.7	211.5	552.0	4616	36.0	2.1	5.3	433.0	347.0	4.1	5.6	6.27	2.0	22.9
18	103.9	294.9	849.3	6591	45.5	4.0	7.3	666.1	250.5	8.3	6.1	6.83	2.0	22.4
19	71.1	237.5	585.0	5616	35.1	2.6	6.6	515.5	320.6	7.9	5.9	6.57	2.5	21.9
20	120.3	245.9	764.1	6453	45.5	5.0	7.3	810.7	164.4	7.4	6.3	7.00	2.5	19.6
21	70.9	234.1	786.1	6490	47.5	3.4	6.7	468.9	325.7	6.8	6.2	6.91	2.0	20.9

SOIL TESTS

Tract 6

FieldAlytics™
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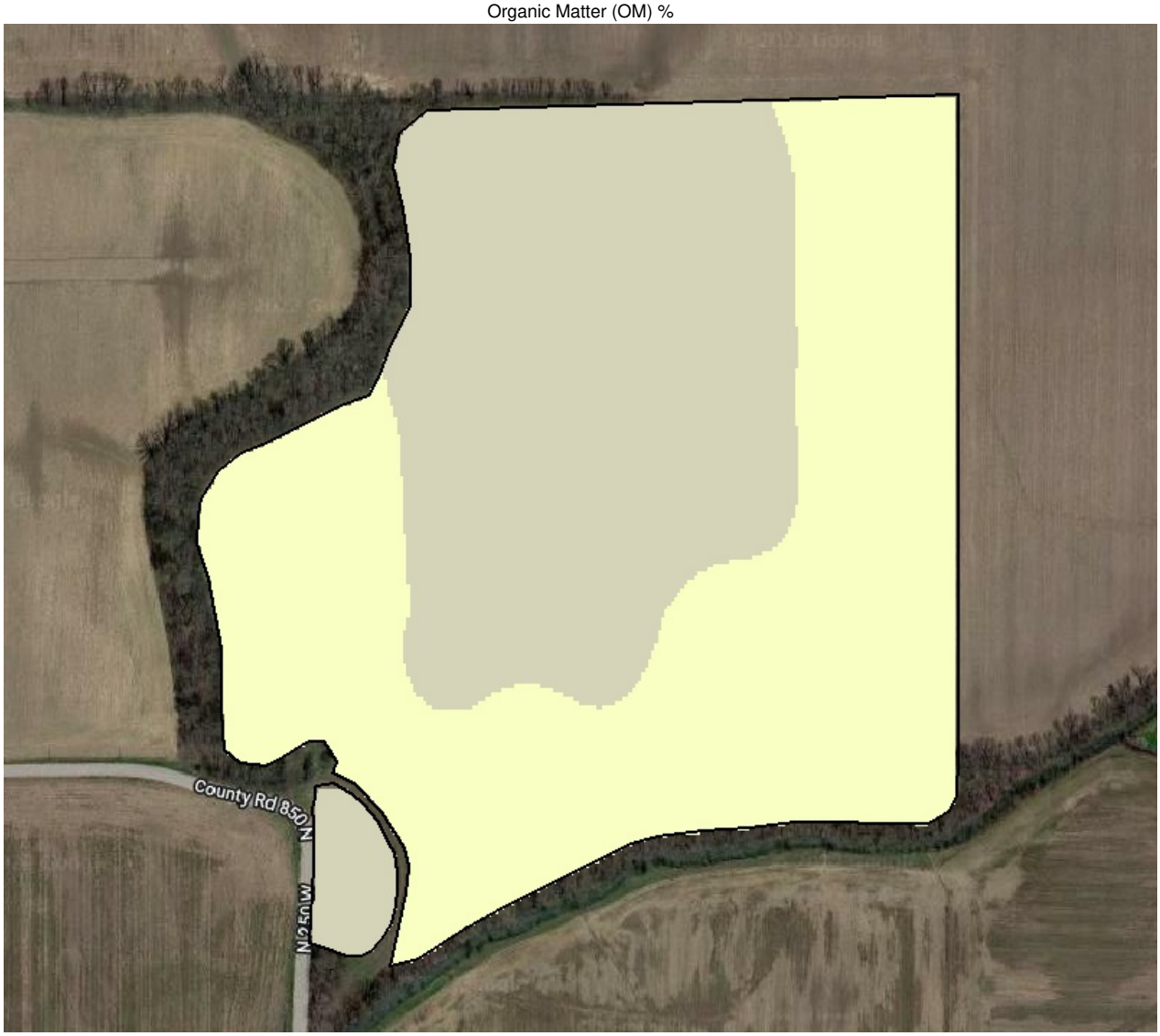
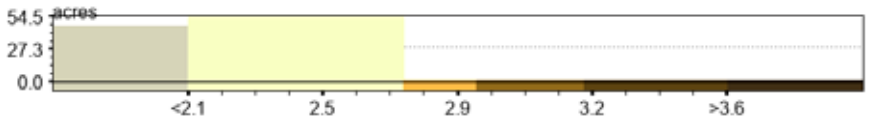
Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18034 40 Acres | **Zone:** Not Specified | **Area:** 46.3 | **Sample Date:** 2022-10-28

Organic Matter (OM) %



Min: 2.0 **Max:** 2.5 **Avg:** 2.2



SOIL TESTS

Tract 6

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18034 40 Acres | **Zone:** Not Specified | **Area:** 46.3 | **Sample Date:** 2022-10-28

(pH)

Min: 5.3 **Max:** 6.4 **Avg:** 5.9

(pH)	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	4.23	9.13
5.6-6.0	Low	28.83	62.25
6.0-6.2	Optimal	9.08	19.61
6.2-6.5	High	4.16	8.98
6.5-8	Very High	0.0	0.0

SOIL TESTS

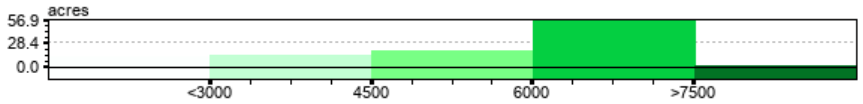
Tract 6

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18034 40 Acres**

Lime - Fertilizer Application (lbs/ac)



Equation Variables

Target pH: 6.5

Lab:	Agricultural Soil Management	Switch Rate:	500 lbs/ac	Total Area:	46.38 ac
Custom Eq:	L 5	Rate Multiplier:	N/A	Total Product:	241906.68 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	120.95 ton
Sample Date:	2022-10-28	Min Application Rate:	1811.03 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	N/A	Max Application Rate:	6000.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	5215.32 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	6000 lbs/ac	Application Area:	46.38 ac	Total Application Cost:	$0.0
Min Rate:	1000 lbs/ac	Average Field Rate:	5215.32 lbs/ac	Total Cost:	$0.0

Tract 6

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18034 40 Acres

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000 lbs/ac	1000 lbs/ac	0.00	500 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	241906.68 (lbs)	120.95 ton	46.38	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18034 40 Acres	17 04N 07W	--	Daviess	46.31 ac	38.782639, -87.212112

SOIL TESTS

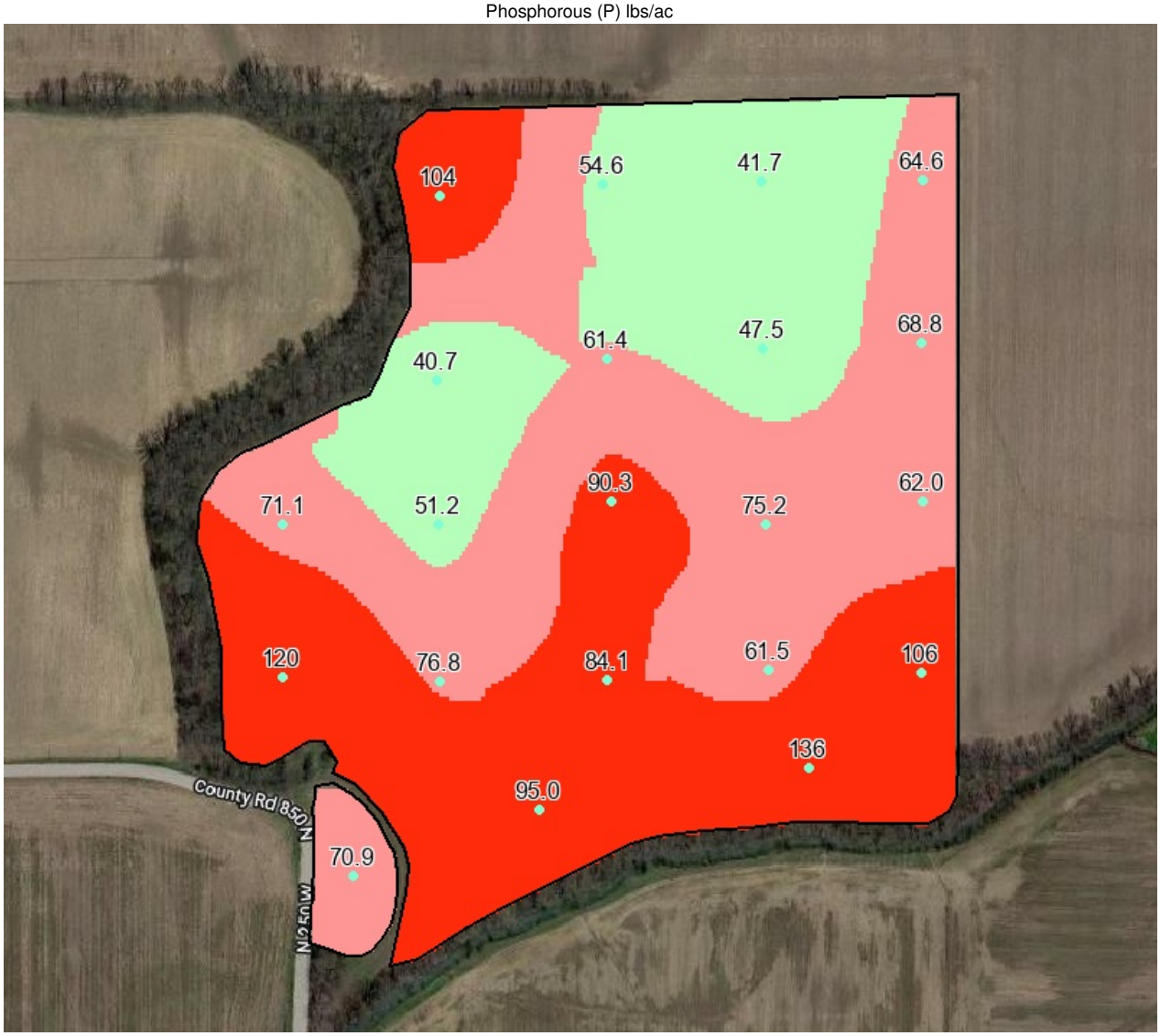
Tract 6

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18034 40 Acres | **Zone:** Not Specified | **Area:** 46.3 | **Sample Date:** 2022-10-28

Phosphorous (P) lbs/ac



Min: 40.7 **Max:** 136.1 **Avg:** 75.4

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 20	Very Low	0.0	0.0
20 - 40	Low	0.0	0.0
40- 60	Optimal	11.02	23.8
60- 80	High	17.91	38.67
80-1000	Very High	17.38	37.53

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

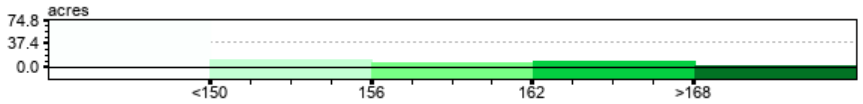
Tract 6

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18034 40 Acres**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	46.38 ac
Custom Eq:	P 4 Summers	Rate Multiplier:	N/A	Total Product:	1432.83 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	0.72 ton
Sample Date:	2022-10-28	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	166.93 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	145.41 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	9.85 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	30.89 lbs/ac	Total Cost:	$0.0

Tract 6

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18034 40 Acres

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	1432.83 (lbs)	0.72 ton	9.85	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18034 40 Acres	17 04N 07W	--	Daviess	46.31 ac	38.782639, -87.212112

SOIL TESTS

Tract 6

FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18034 40 Acres | **Zone:** Not Specified | **Area:** 46.3 | **Sample Date:** 2022-10-28

Potassium (K) lbs/ac

Min: 211.5 **Max:** 362.3 **Avg:** 250.2

	Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
	0- 200	Very Low	0.0	0.0
	200 - 300	Low	44.15	95.34
	300- 400	Optimal	2.16	4.66
	400- 500	High	0.0	0.0
	500-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

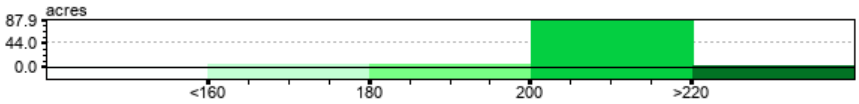
Tract 6

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18034 40 Acres**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	46.38 ac
Custom Eq:	K 01 Summers	Rate Multiplier:	N/A	Total Product:	9509.72 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	4.75 ton
Sample Date:	2022-10-28	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	205.02 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	46.38 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	205.02 lbs/ac	Total Cost:	$0.0

Tract 6

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18034 40 Acres

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	9509.72 (lbs)	4.75 ton	46.38	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18034 40 Acres	17 04N 07W	--	Daviess	46.31 ac	38.782639, -87.212112

SOIL TESTS

Tract 6

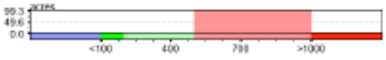
FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18034 40 Acres | **Zone:** Not Specified | **Area:** 46.3 | **Sample Date:** 2022-10-28

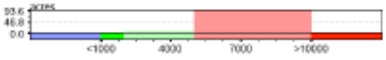
Magnesium (Mg) lbs/ac

Min: 541.5 **Max:** 1014 **Avg:** 692.9



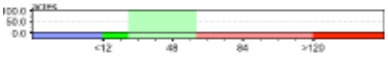
Calcium (Ca) lbs/ac

Min: 4449 **Max:** 7218 **Avg:** 5770



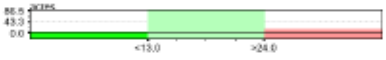
Sulfur (S) lbs/ac

Min: 30.4 **Max:** 47.5 **Avg:** 39.5



Cation Exchange Capacity (CEC)

Min: 19.6 **Max:** 26.4 **Avg:** 22.6



SOIL TESTS

Tract 7

Summers
Soil Test Report
2019

Robert Summers & Sons
#17684 Bowman's
90.8A sec17 STEELE

SOIL TESTS

Tract 7

FieldAlytics™
empowering decisions

Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 17684 Bowman's

	Label	Area
	White	90.78

Notes:

SOIL TESTS

Tract 7

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Field Sample Summary

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	17684 Bowman's	90.78 acres	38.778443,-87.208542

	Min	Max	Avg
P	21.7	144	66.7
K	181	398	283
Mg	30.5	1514	671
Ca	585	10540	4898
Na	8.3	93.9	23.9
S	0.50	91.0	43.3
B	0.00	4.1	1.2
Cu	0.30	11.8	5.7
Fe	320	920	639
Mn	24.6	238	128
Zn	0.70	8.4	4.3
pH	4.7	6.2	5.3
bpH	5.4	6.9	6.0
OM	2.0	2.5	2.2
CEC	16.1	39.3	27.7

Sample Date: 2019-11-04 Soil Lab: Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	67.8	266.0	775.6	6660	25.1	41.6	0.1	6.5	757.4	42.2	4.8	5.5	6.2	2.5	30.2
2	56.8	328.0	68.3	1248	11.2	13.8	0.5	1.4	345.0	166.1	1.6	5.2	5.9	2.0	17.4
3	100.2	251.0	35.0	584.7	9.5	16.3	1.0	1.5	425.3	139.6	1.8	4.7	5.4	2.0	21.1
4	143.9	350.0	44.0	639.1	14.6	4.2	1.0	1.6	495.1	107.4	1.8	4.7	5.4	2.0	21.3
5	106.8	319.1	71.2	1200	8.3	4.0	0.5	2.1	481.8	121.8	2.0	4.8	5.5	2.0	22.2
6	90.2	238.6	30.5	970.3	9.6	18.7	1.1	0.3	320.4	115.1	0.7	5.2	5.9	2.0	16.1
7	70.3	297.4	339.2	3678	14.6	34.5	1.6	3.8	466.8	227.0	2.7	5.2	5.9	2.5	24.7
8	86.7	348.7	620.3	5268	16.6	18.8	1.9	6.0	554.6	168.6	5.6	5.4	6.1	2.5	27.1
9	46.5	279.6	435.2	4548	23.9	36.2	0.4	6.0	469.3	145.9	3.3	5.2	5.9	2.5	27.2
10	53.9	270.0	311.5	3246	69.0	51.6	0.4	3.6	431.6	160.5	2.3	5.0	5.7	2.5	25.6
11	95.3	304.8	175.8	1826	16.0	0.5	0.2	3.5	599.0	132.7	2.4	4.7	5.4	2.0	24.4
12	69.2	264.0	172.7	1855	22.3	38.2	1.6	3.3	513.5	167.7	2.0	4.8	5.5	2.0	24.2
13	52.1	244.0	142.6	1831	21.1	20.1	0.1	2.5	502.2	176.1	1.9	4.9	5.6	2.0	21.8

SOIL TESTS

Tract 7

FieldAlytics™
empowering decisions

Field Sample Summary

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
14	73.8	226.4	761.7	6099	20.3	54.9	0.0	6.6	843.8	41.8	4.3	5.3	6.0	2.5	31.1
15	62.3	269.1	1050	8015	25.6	74.0	0.9	7.0	919.7	24.6	4.8	5.3	6.0	2.5	36.3
16	54.2	226.1	171.1	2227	19.2	17.7	0.7	3.8	640.1	136.2	2.1	5.0	5.7	2.5	21.9
17	59.2	246.9	363.5	3039	31.6	12.9	0.2	4.5	512.1	161.4	3.1	4.9	5.6	2.5	26.0
18	92.1	263.9	377.7	3035	20.8	22.4	1.7	4.6	889.8	92.4	3.6	5.0	5.7	2.5	25.6
19	52.1	249.6	401.2	3338	14.4	51.9	0.7	5.0	729.1	159.1	3.3	5.0	5.7	2.0	26.2
20	85.9	347.1	1205	8763	28.3	84.4	3.6	8.3	864.2	65.6	6.7	5.8	6.5	2.5	32.9
21	41.6	287.6	1241	7701	35.3	91.0	2.2	7.5	612.0	137.1	6.2	5.8	6.5	2.5	31.4
22	71.8	344.6	1187	8077	31.9	79.7	2.0	7.9	723.0	148.7	7.3	5.9	6.6	2.5	30.3
23	59.4	331.0	1123	7965	23.8	71.0	0.6	6.7	601.6	99.1	6.0	5.9	6.6	2.5	29.9
24	35.6	251.7	794.7	5166	19.0	31.3	0.4	5.3	503.5	176.2	3.7	5.2	5.9	2.0	29.4
25	63.6	284.5	567.1	4388	19.2	56.0	1.8	5.5	816.2	127.4	5.1	5.2	5.9	2.0	26.4
26	45.8	200.0	324.1	2502	14.9	38.4	1.9	3.5	542.8	134.6	2.4	4.9	5.6	2.0	24.4
27	28.9	181.1	397.5	3530	14.4	29.0	0.7	4.7	686.2	63.3	2.5	5.3	6.0	2.0	22.8
28	45.3	277.2	1514	10540	32.3	84.4	1.9	11.8	694.1	30.4	4.8	6.2	6.9	2.5	33.7
29	56.7	243.5	1343	9327	26.6	77.0	1.7	8.7	709.7	49.6	5.1	6.0	6.7	2.5	33.4
30	102.5	254.8	718.3	5262	17.5	34.8	0.0	7.7	736.0	58.9	6.2	5.4	6.1	2.5	26.9
31	53.0	249.9	697.0	4817	20.5	51.1	0.1	7.3	772.8	129.5	5.3	5.2	5.9	2.0	28.2
32	21.7	242.0	741.7	5180	24.2	67.2	1.3	6.2	535.2	221.7	5.1	5.2	5.9	2.0	29.2
33	104.2	384.2	1229	7376	24.9	53.5	2.3	8.6	798.6	93.1	7.4	5.7	6.4	2.5	30.9
34	86.6	397.6	1409	7785	93.9	59.1	0.3	9.2	786.7	114.1	8.4	6.1	6.8	2.0	28.1
35	42.3	283.6	946.0	5238	25.4	45.6	1.3	5.5	827.1	205.7	4.4	5.2	5.9	2.0	30.4
36	67.2	294.0	950.6	5949	25.6	21.4	2.8	7.9	838.1	85.2	5.9	5.0	5.8	2.0	34.2
37	75.1	301.5	969.8	6106	19.4	53.0	0.2	8.0	788.1	90.9	6.5	5.5	6.2	2.0	29.9
38	22.3	285.4	872.6	6325	22.3	30.2	4.1	7.0	488.4	237.7	6.4	5.2	6.0	2.0	32.4
39	101.9	369.8	1306	7985	23.3	78.9	2.2	9.3	856.8	117.3	8.0	5.2	5.9	2.5	39.3
40	22.9	261.2	946.2	6628	18.6	61.7	0.5	7.0	469.3	234.5	5.8	5.2	5.9	2.5	33.9

SOIL TESTS

Tract 7

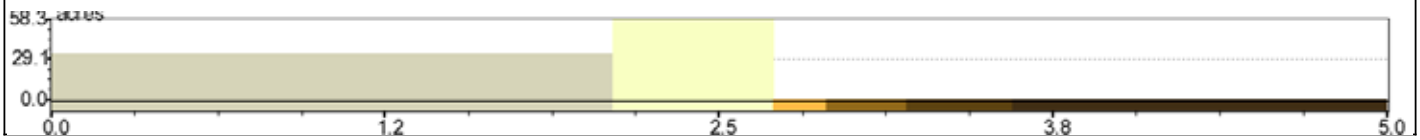
FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17684 Bowman's **Area:** 90.8 **Sample Date:** 2019-11-04

Organic Matter (OM) %

Min: 2.0 **Max:** 2.5 **Avg:** 2.2



SOIL TESTS

Tract 7

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17684 Bowman's **Area:** 90.8 **Sample Date:** 2019-11-04

(pH) none

Min: 4.7 **Max:** 6.2 **Avg:** 5.3

(pH) none	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	76.66	84.45
5.6-6.0	Low	12.62	13.9
6.0-6.2	Optimal	1.44	1.59
6.2-6.5	High	0.07	0.08
6.5-8	Very High	0.0	0.0

SOIL TESTS

Tract 7

FieldAlytics™
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Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17684 Bowman's**

Lime - Fertilizer Application (lbs/ac)

Lab: Agricultural Soil Management | Custom Eq: L 5 | Commodity: Corn-Soybeans | Sample Date: 2019-11-04

Constraints:

Target pH: 6.5

Max Rate: 6000.0 lbs/ac Multiplier: N/A
Min Rate: 1000.0 lbs/ac Subtract: N/A
Switch Rate: 500.0 lbs/ac

Minimum Application Rate:	2752.5 lbs/ac	Total Product:	542600.37 lbs
Maximum Application Rate:	6000.0 lbs/ac	Total Product Bulk:	271.30 ton
Average Application Rate:	5963.03 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	90.99 ac	Total Product Price:	$0.0
Average Field Rate:	5963.03 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	90.99 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 7

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17684 Bowman's

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000.0 lbs/ac	1000.0 lbs/ac	0.00	500.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	542600.37 (lbs)	271.30 ton	90.99	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17684 Bowman's	17 04N 07W	--	Daviess	90.78 ac	38.778443, -87.208542

SOIL TESTS

Tract 7

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17684 Bowman's **Area:** 90.8 **Sample Date:** 2019-11-04

Phosphorous (P) lbs/ac

Min: 21.7 **Max:** 143.9 **Avg:** 66.7

	Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
	0-25	Very Low	0.09	0.1
	25-35	Low	3.41	3.75
	35-50	Optimal	13.93	15.34
	50-60	High	18.01	19.84
	60-500	Very High	55.34	60.96

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

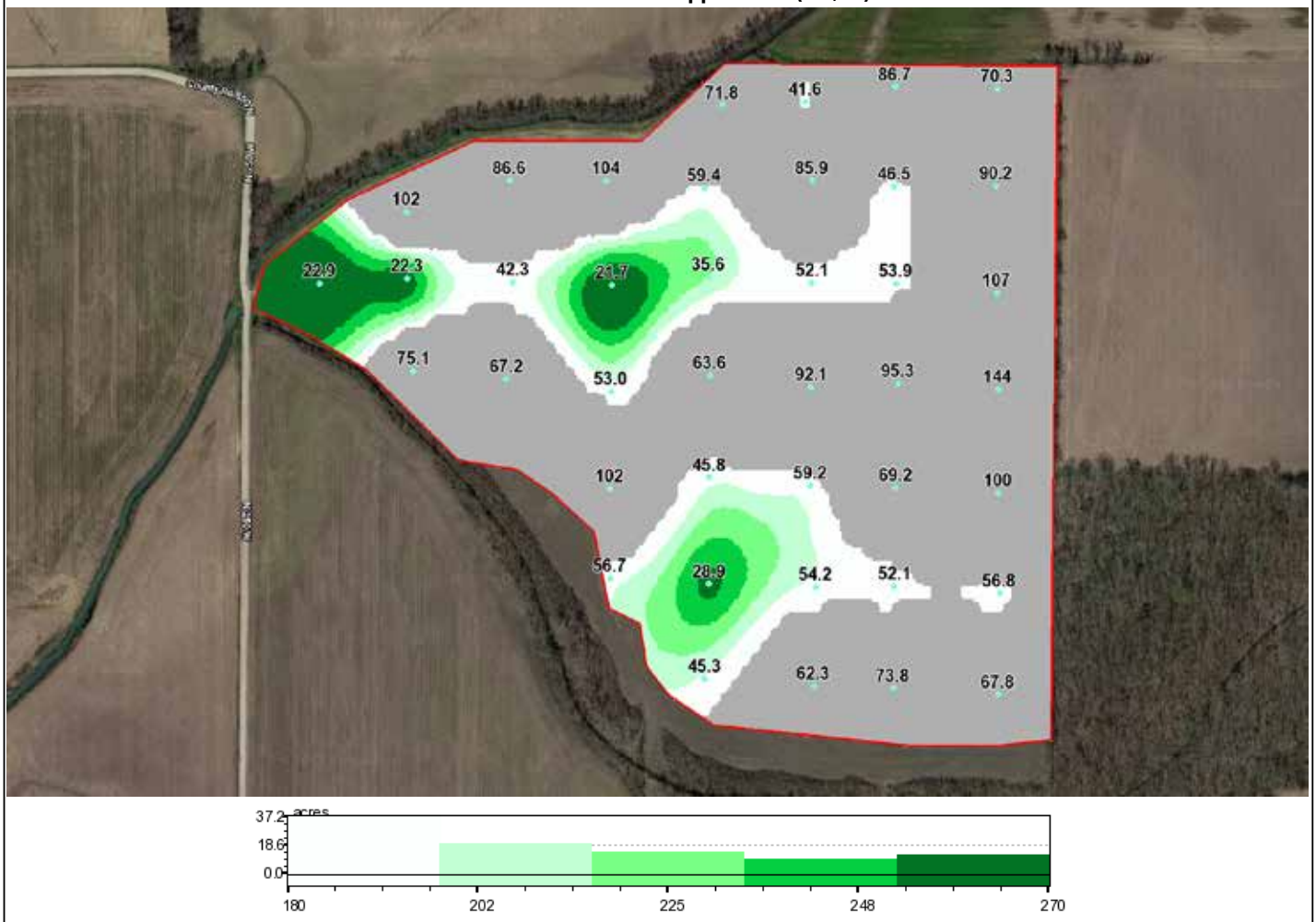
Tract 7

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17684 Bowman's**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management Custom Eq: P 4 Summers 2019 Commodity: Corn-Soybeans Sample Date: 2019-11-04

Constraints:

Max Rate: 270.0 lbs/ac Multiplier: 0.9
Min Rate: 180.0 lbs/ac Subtract: N/A
Switch Rate: 150.0 lbs/ac

Minimum Application Rate:	180.0 lbs/ac	Total Product:	5278.8 lbs
Maximum Application Rate:	270.0 lbs/ac	Total Product Bulk:	2.64 ton
Average Application Rate:	210.36 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	25.09 ac	Total Product Price:	$0.0
Average Field Rate:	58.01 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	90.99 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 7

FieldAlytics™
empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17684 Bowman's

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	5278.80 (lbs)	2.64 ton	25.09	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17684 Bowman's	17 04N 07W	--	Daviess	90.78 ac	38.778443, -87.208542

SOIL TESTS

Tract 7

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17684 Bowman's **Area:** 90.8 **Sample Date:** 2019-11-04

Potassium (K) lbs/ac

Min: 181.1 **Max:** 397.6 **Avg:** 282.9

	Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
	0-200	Very Low	1.1	1.21
	200-300	Low	64.96	71.56
	300-400	Optimal	24.37	26.85
	400-450	High	0.35	0.39
	450-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

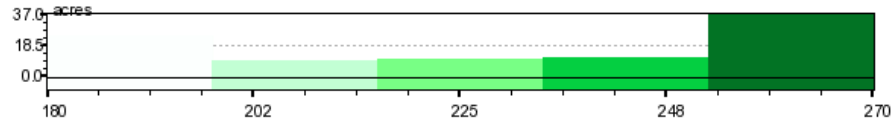
Tract 7

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17684 Bowman's**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management | Custom Eq: K 01 Summers | Commodity: Corn-Soybeans | Sample Date: 2019-11-04

Constraints:

Max Rate:	270.0 lbs/ac	Multiplier:	0.9
Min Rate:	180.0 lbs/ac	Subtract:	N/A
Switch Rate:	150.0 lbs/ac		

Minimum Application Rate:	180.0 lbs/ac	Total Product:	20807.55 lbs
Maximum Application Rate:	270.0 lbs/ac	Total Product Bulk:	10.40 ton
Average Application Rate:	232.29 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	89.58 ac	Total Product Price:	$0.0
Average Field Rate:	228.67 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	90.99 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 7

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17684 Bowman's

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	20807.55 (lbs)	10.40 ton	89.58	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17684 Bowman's	17 04N 07W	--	Daviess	90.78 ac	38.778443, -87.208542

SOIL TESTS

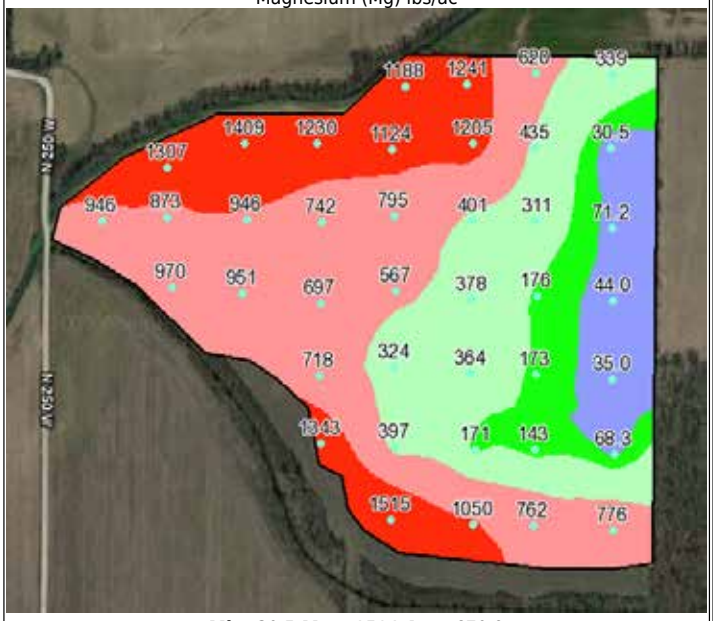
Tract 7

FieldAlytics™
empowering decisions

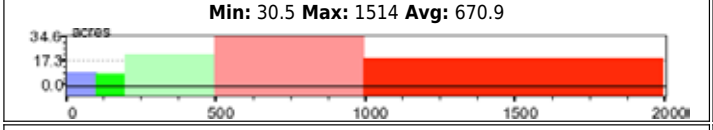
4-Panel Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17684 Bowman's **Area:** 90.8 **Sample Date:** 2019-11-04

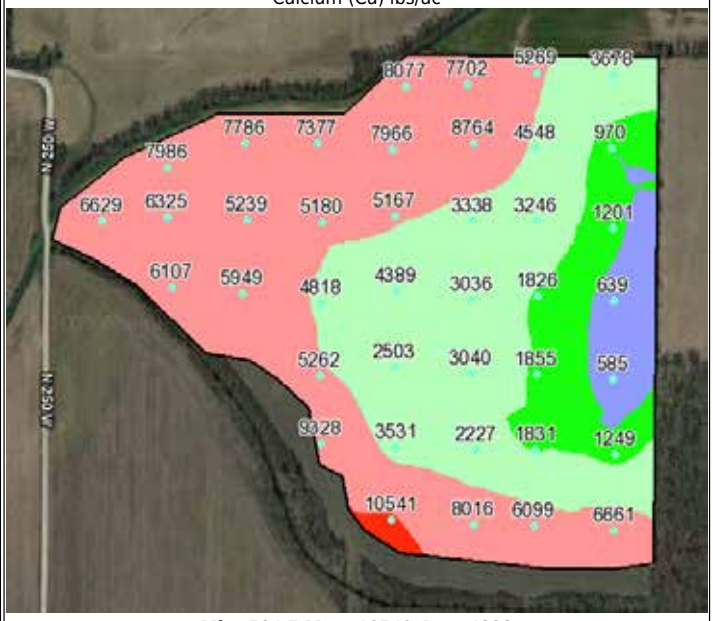
Magnesium (Mg) lbs/ac



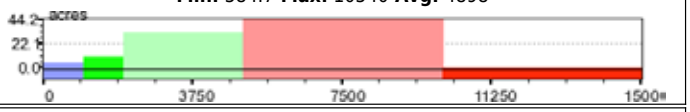
Min: 30.5 **Max:** 1514 **Avg:** 670.9



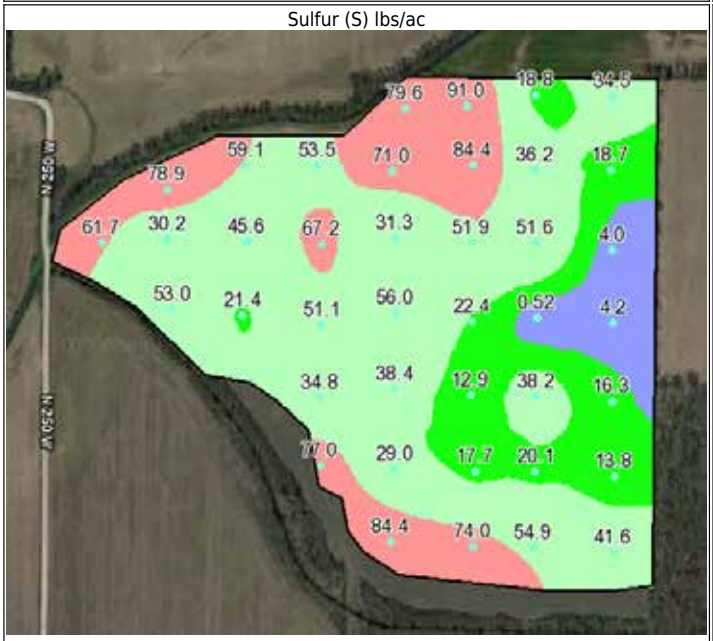
Calcium (Ca) lbs/ac



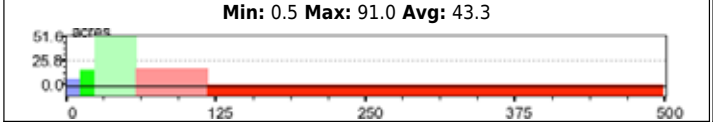
Min: 584.7 **Max:** 10540 **Avg:** 4898



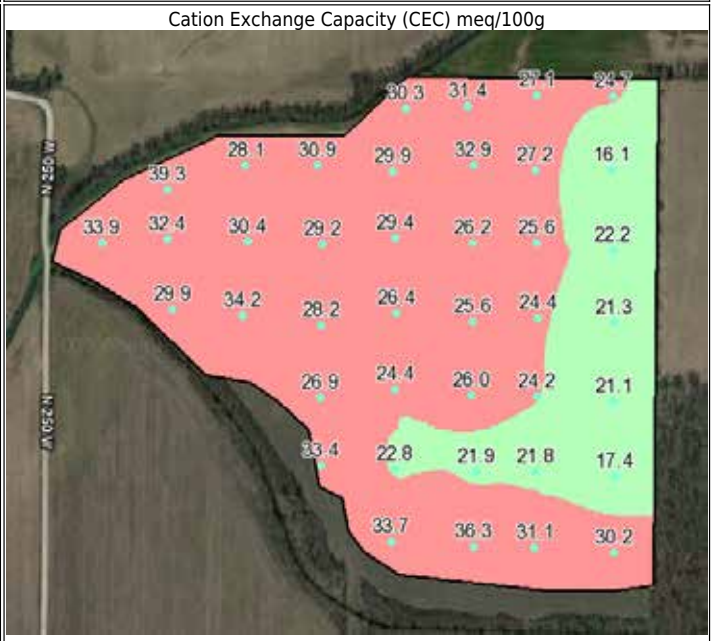
Sulfur (S) lbs/ac



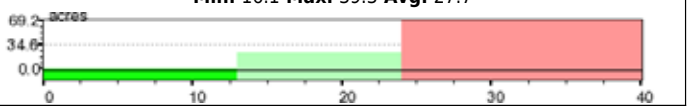
Min: 0.5 **Max:** 91.0 **Avg:** 43.3



Cation Exchange Capacity (CEC) meq/100g



Min: 16.1 **Max:** 39.3 **Avg:** 27.7



Summers
Soil Test Report
2022

Robert Summers and Sons
#18049 Dowden 37
37.1A sec17 STEELE

SOIL TESTS

Tract 8

FieldAlytics™ empowering decisions

Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 18049 Dowden 37

	Label	Area
	White	37.08

Notes:

SOIL TESTS

Tract 8

FieldAlytics™ empowering decisions

Quick Map

Location

ASM

Grower

Jason Summers

Farm

Robert Summers and Sons

Field	PLSS ID	FSA ID	County	Area	Centroid
18049 Dowden 37	17 04N 07W		Daviess	37.08 ac	38.775747 -87.212407

Farm: Robert Summers and Sons **Area: 37.08 ac**

Grower: Jason Summers **Area: 37.08 ac**

SOIL TESTS

Tract 8

FieldAlytics™
empowering decisions

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	18049 Dowden 37	37.08 acres	38.775747, -87.212407

	Min	Max	Avg
P	22.4	288.0	84.5
K	148.1	334.6	232.2
Mg	100.7	1143	601.2
Ca	1138	8669	5339
S	19.2	75.2	46.2
B	1.5	4.5	2.7
Cu	1.8	12.3	5.7
Fe	239.7	628.5	427.6
Mn	39.0	186.0	102.9
Zn	1.9	19.9	5.5
pH	5.4	6.5	6.0
bpH	6.12	7.00	6.66
OM	2.0	3.0	2.6
CEC	7.4	28.8	20.2

Sample Date	Soil Lab
2022-10-28	Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	127.7	252.6	812.8	6948	60.8	4.5	7.6	593.8	63.1	10.3	6.3	7.00	3.0	21.1
2	187.3	334.6	175.8	2485	26.9	3.0	6.9	432.2	94.0	19.9	6.2	6.88	2.5	8.8
3	114.4	157.5	100.7	1138	19.2	3.3	1.8	239.7	86.1	1.9	5.5	6.18	2.0	13.3
4	35.9	168.6	593.4	4800	45.1	3.3	4.3	410.3	83.2	2.7	5.9	6.56	2.5	20.0
5	59.2	230.0	744.0	6241	50.6	3.2	5.4	530.0	91.1	4.0	5.9	6.61	2.5	23.7
6	22.4	148.1	451.4	3441	34.2	2.3	3.6	312.2	186.0	2.1	5.6	6.31	2.5	19.0
7	51.8	210.1	774.3	6107	51.6	2.0	5.0	568.3	39.0	3.5	5.7	6.39	2.5	26.1
8	101.1	324.7	1143	8271	68.3	4.4	6.3	628.5	47.3	5.1	6.3	7.00	2.5	25.9
9	46.3	201.9	576.2	4689	45.0	2.5	5.3	388.9	116.2	3.8	5.6	6.31	2.5	22.7
10	35.3	214.2	719.2	5810	54.5	2.1	5.7	384.7	109.3	4.0	5.9	6.61	2.5	22.5
11	35.4	181.7	577.1	4638	41.4	2.2	4.8	422.3	121.4	3.1	5.4	6.12	2.5	24.8

SOIL TESTS

Tract 8

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
12	35.9	193.8	626.5	5192	48.5	3.3	5.2	384.9	141.1	3.1	5.7	6.37	3.0	23.4
13	66.8	289.8	908.2	7825	53.7	1.6	6.5	551.3	78.0	5.7	5.9	6.58	3.0	28.8
14	85.2	321.3	912.7	8669	75.2	2.2	6.9	533.0	72.9	6.0	6.5	7.00	3.0	25.9
15	44.7	252.1	755.4	6836	43.0	3.1	6.0	393.8	108.4	4.9	6.3	7.00	3.0	20.6
16	58.0	245.5	595.7	6443	53.4	1.5	5.7	346.7	158.2	4.7	6.5	7.00	3.0	18.9
17	288.0	278.7	190.0	4008	35.6	2.3	12.3	316.5	140.2	11.4	6.4	7.00	2.5	11.2
18	125.7	174.0	165.5	2551	24.0	2.0	3.5	259.4	115.9	2.3	6.3	6.99	2.5	7.4

SOIL TESTS

Tract 8

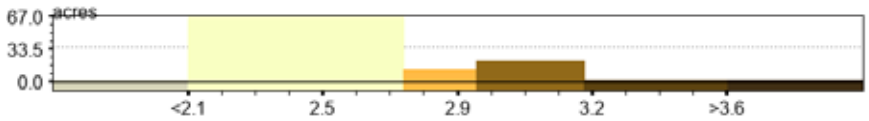
FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18049 Dowden 37 | **Zone:** Not Specified | **Area:** 37.1 | **Sample Date:** 2022-10-28

Organic Matter (OM) %

Min: 2.0 **Max:** 3.0 **Avg:** 2.6



SOIL TESTS

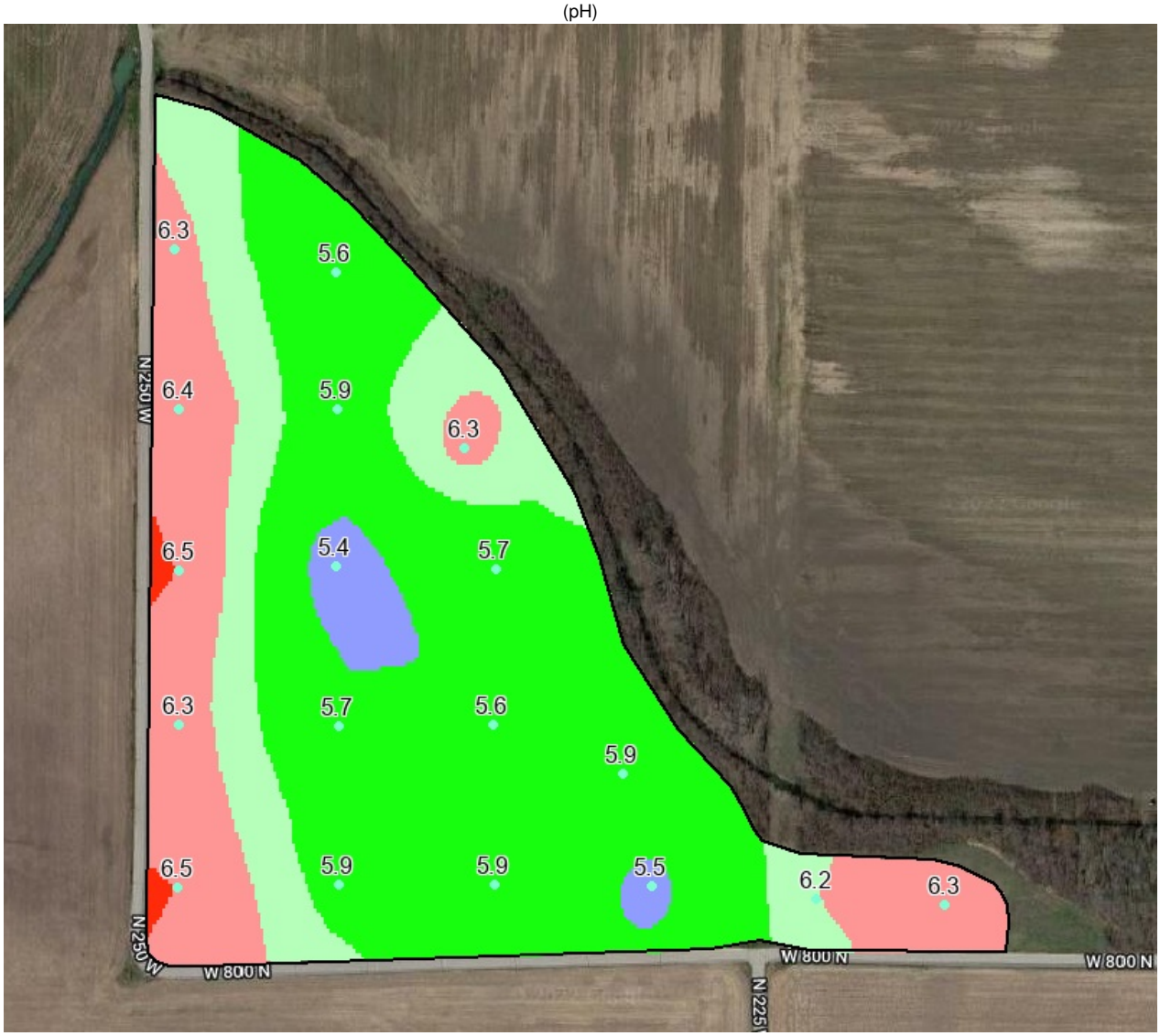
Tract 8

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18049 Dowden 37 | **Zone:** Not Specified | **Area:** 37.1 | **Sample Date:** 2022-10-28

(pH)



Min: 5.4 **Max:** 6.5 **Avg:** 6.0

	(pH)	Soil Levels	Area (ac)	Percent Acres
	4.5-5.6	Very Low	1.38	3.72
	5.6-6.0	Low	21.26	57.34
	6.0-6.2	Optimal	6.85	18.47
	6.2-6.5	High	7.35	19.82
	6.5-8	Very High	0.24	0.65

SOIL TESTS

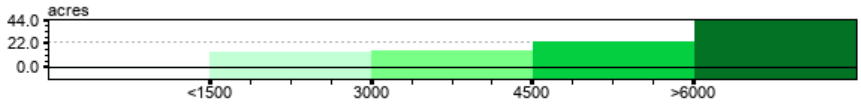
Tract 8

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18049 Dowden 37**

Lime - Fertilizer Application (lbs/ac)



Equation Variables

Target pH:	6.5

Lab:	Agricultural Soil Management	Switch Rate:	500 lbs/ac	Total Area:	37.17 ac
Custom Eq:	L 5	Rate Multiplier:	N/A	Total Product:	177071.84 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	88.54 ton
Sample Date:	2022-10-28	Min Application Rate:	1000.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	N/A	Max Application Rate:	6000.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	4815.11 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	6000 lbs/ac	Application Area:	36.77 ac	Total Application Cost:	$0.0
Min Rate:	1000 lbs/ac	Average Field Rate:	4763.86 lbs/ac	Total Cost:	$0.0

Tract 8

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18049 Dowden 37

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000 lbs/ac	1000 lbs/ac	0.00	500 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	177071.84 (lbs)	88.54 ton	36.77	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18049 Dowden 37	17 04N 07W	--	Daviess	37.08 ac	38.775747, -87.212407

SOIL TESTS

Tract 8

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18049 Dowden 37 | **Zone:** Not Specified | **Area:** 37.1 | **Sample Date:** 2022-10-28

Phosphorous (P) lbs/ac

Min: 22.4 **Max:** 288.0 **Avg:** 84.5

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 20	Very Low	0.0	0.0
20 - 40	Low	5.52	14.89
40- 60	Optimal	11.02	29.68
60- 80	High	8.13	21.93
80-1000	Very High	12.35	33.31

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

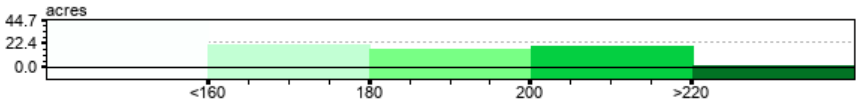
Tract 8

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18049 Dowden 37**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	37.17 ac
Custom Eq:	P 4 Summers	Rate Multiplier:	N/A	Total Product:	3791.63 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	1.90 ton
Sample Date:	2022-10-28	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	168.9 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	22.45 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	102.01 lbs/ac	Total Cost:	$0.0

Tract 8

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18049 Dowden 37

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	3791.63 (lbs)	1.90 ton	22.45	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18049 Dowden 37	17 04N 07W	--	Daviess	37.08 ac	38.775747, -87.212407

SOIL TESTS

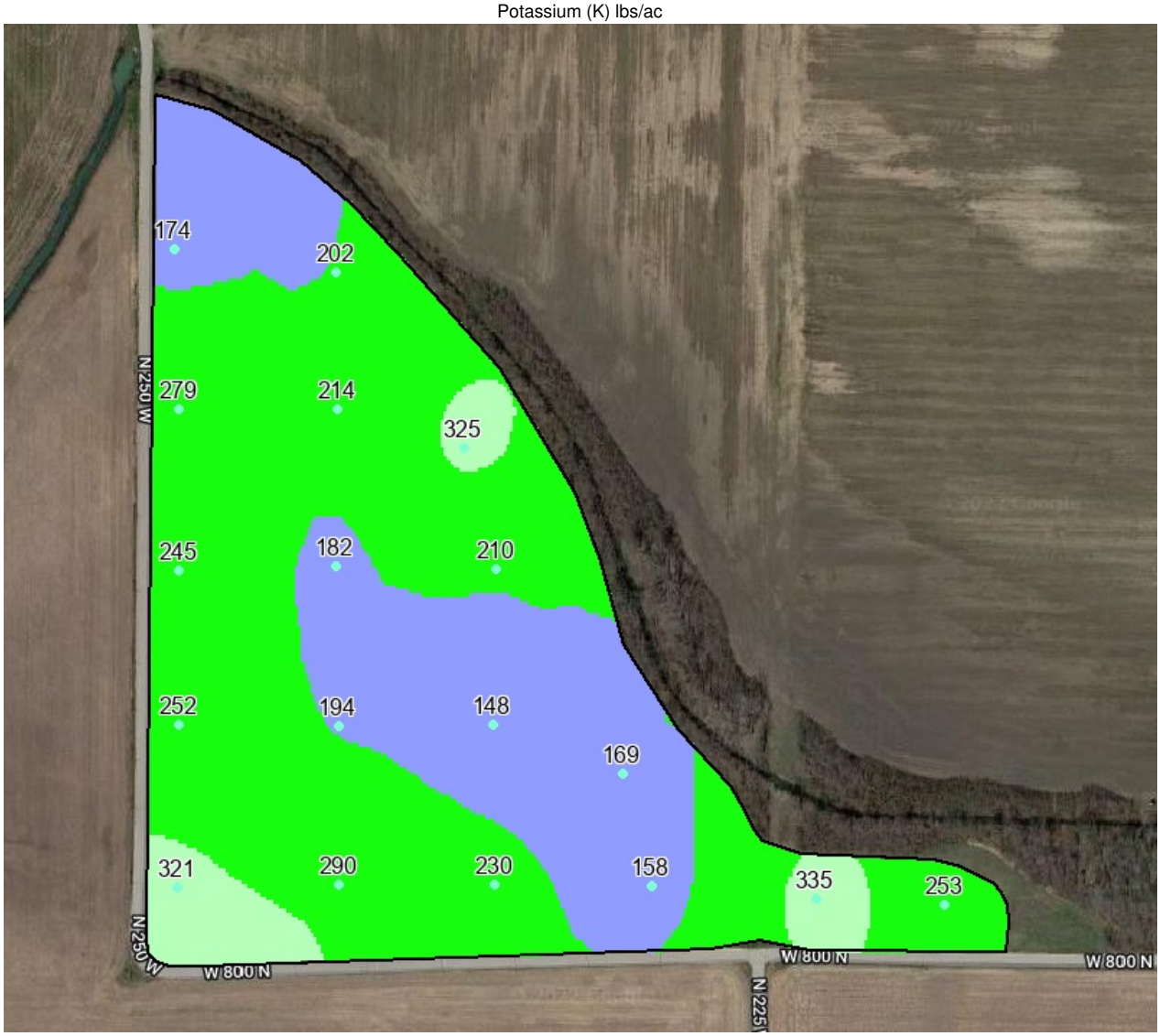
Tract 8

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18049 Dowden 37 | **Zone:** Not Specified | **Area:** 37.1 | **Sample Date:** 2022-10-28

Potassium (K) lbs/ac



Min: 148.1 **Max:** 334.6 **Avg:** 232.2

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 200	Very Low	11.8	31.82
200 - 300	Low	22.54	60.79
300- 400	Optimal	2.74	7.39
400- 500	High	0.0	0.0
500-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

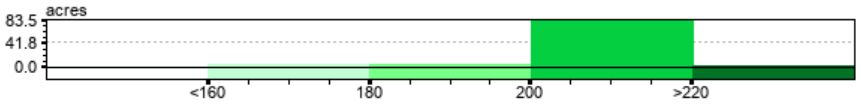
Tract 8

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18049 Dowden 37**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	37.17 ac
Custom Eq:	K 01 Summers	Rate Multiplier:	N/A	Total Product:	7523.5 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	3.76 ton
Sample Date:	2022-10-28	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	202.41 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	37.17 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	202.41 lbs/ac	Total Cost:	$0.0

Tract 8

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18049 Dowden 37

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	7523.50 (lbs)	3.76 ton	37.17	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18049 Dowden 37	17 04N 07W	--	Daviess	37.08 ac	38.775747, -87.212407

SOIL TESTS

Tract 8

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 18049 Dowden 37 | **Zone:** Not Specified | **Area:** 37.1 | **Sample Date:** 2022-10-28

Magnesium (Mg) lbs/ac

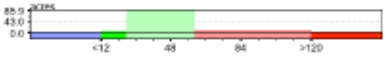
Min: 100.7 **Max:** 1143 **Avg:** 601.2

Calcium (Ca) lbs/ac

Min: 1138 **Max:** 8669 **Avg:** 5339

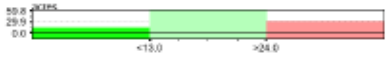
Sulfur (S) lbs/ac

Min: 19.2 **Max:** 75.2 **Avg:** 46.2



Cation Exchange Capacity (CEC)

Min: 7.4 **Max:** 28.8 **Avg:** 20.2



Tract 9

Summers
Soil Test Report
2019

Robert Summers & Sons
#17683 Old Shed
75.6A sec18 STEELE

SOIL TESTS

Tract 9

FieldAlytics™
empowering decisions

Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 17683 Old Shed Daviess County

	Label	Area
	White	75.6

Notes:

SOIL TESTS

Tract 9

FieldAlytics™
empowering decisions

Field Sample Summary

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	17683 Old Shed Daviess County	75.6 acres	38.779206,-87.227938

	Min	Max	Avg
P	6.5	74.3	25.4
K	187	330	257
Mg	371	1091	630
Ca	3956	7687	5905
Na	11.4	46.6	19.2
S	31.2	88.3	61.4
B	0.00	4.0	1.7
Cu	4.8	8.3	6.6
Fe	345	888	504
Mn	81.8	358	198
Zn	1.5	7.9	4.4
pH	5.6	6.2	5.9
bpH	6.3	6.9	6.6
OM	2.0	2.5	2.3
CEC	18.0	26.6	22.2

Sample Date: 2019-11-04 Soil Lab: Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	12.2	203.5	650.9	5256	22.8	67.7	1.9	5.8	579.7	232.8	5.3	6.1	6.8	2.0	18.0
2	39.5	245.1	783.7	6000	16.1	78.8	1.0	7.4	788.1	126.7	5.9	6.2	6.9	2.0	19.8
3	14.6	231.6	866.8	6232	15.8	39.4	0.4	7.5	623.4	174.0	5.5	6.0	6.7	2.0	22.6
4	74.3	329.7	1091	7687	20.2	65.6	3.1	8.3	887.7	81.8	7.9	6.1	6.8	2.0	26.6
5	33.1	281.4	676.5	6627	12.6	39.0	3.1	7.2	494.5	186.1	6.5	6.0	6.7	2.5	23.7
6	25.7	245.2	664.1	5938	15.0	65.4	0.4	7.1	510.8	175.3	6.1	6.0	6.7	2.0	22.0
7	58.8	271.1	775.4	6103	46.6	52.1	1.6	7.8	671.1	108.3	6.6	6.1	6.8	2.0	21.0
8	38.6	221.2	781.1	5963	19.7	59.7	2.4	7.5	632.2	145.2	7.2	6.2	6.8	2.0	20.2
9	7.0	187.3	517.9	4792	37.0	59.5	1.1	5.1	596.7	254.0	1.5	5.9	6.6	2.0	19.2
10	19.5	251.9	513.0	5268	16.3	68.2	4.0	5.7	442.3	166.5	2.2	5.8	6.5	2.5	21.3
11	19.2	304.3	628.6	5916	14.9	46.0	1.9	6.1	412.4	152.8	2.7	5.8	6.5	2.5	24.4
12	8.2	282.5	845.2	7500	21.2	79.2	2.5	7.0	490.4	205.9	3.2	6.2	6.8	2.5	24.4
13	31.7	287.5	689.9	6864	19.1	72.9	0.2	7.5	575.4	182.1	4.0	6.0	6.7	2.5	24.4

SOIL TESTS

Tract 9

FieldAlytics™
empowering decisions

Field Sample Summary

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
14	12.4	252.1	633.4	6058	17.9	84.9	0.0	6.8	503.4	218.4	3.3	6.0	6.7	2.0	22.3
15	6.5	278.2	514.7	5288	20.6	63.6	2.5	5.5	369.9	154.9	2.1	5.7	6.4	2.5	22.4
16	9.6	273.3	502.1	5987	15.8	78.8	2.7	5.5	344.8	197.6	3.0	6.1	6.8	2.0	20.1
17	8.5	282.1	594.3	6972	20.3	64.8	2.6	6.9	388.7	235.8	3.9	6.1	6.8	2.5	22.8
18	12.3	255.3	580.0	5922	17.8	63.1	0.2	6.3	456.1	166.1	3.1	5.8	6.5	2.5	24.1
19	20.9	249.6	568.2	6419	12.8	85.0	2.7	6.7	501.4	196.7	4.0	5.8	6.5	2.5	24.1
20	47.9	284.0	604.4	5662	16.2	72.1	2.0	7.9	709.8	152.7	6.0	5.6	6.3	2.5	25.6
21	19.9	234.8	594.0	5990	20.9	88.3	2.2	6.8	511.7	285.2	4.8	5.9	6.6	2.5	22.8
22	39.4	285.9	594.2	6599	22.2	68.2	2.2	7.1	494.0	202.2	5.3	5.8	6.5	2.5	25.2
23	25.0	283.0	567.1	5982	14.3	43.5	0.7	6.7	408.6	230.7	4.0	5.8	6.5	2.5	23.4
24	17.0	229.1	424.0	5072	14.3	48.4	1.8	6.2	376.1	237.3	4.2	5.9	6.6	2.5	19.1
25	36.4	196.4	593.8	3956	15.7	55.6	2.7	5.1	414.0	357.5	4.4	5.8	6.5	2.0	18.3
26	8.8	233.0	613.4	5932	19.0	68.2	2.2	5.5	382.9	294.4	3.8	6.1	6.8	2.0	19.8
27	25.5	281.9	534.3	5820	28.3	37.3	1.0	6.5	372.7	229.3	4.6	5.9	6.6	2.5	22.4
28	7.8	244.1	632.9	5525	14.4	31.2	0.3	6.2	361.1	209.7	3.7	5.8	6.5	2.0	23.1
29	52.8	255.5	370.7	4762	11.4	64.0	2.0	4.8	388.4	201.0	3.8	5.6	6.3	2.0	21.7
30	28.1	262.7	494.9	5053	15.1	32.2	0.5	6.0	427.6	192.5	4.2	5.8	6.5	2.5	21.5

SOIL TESTS

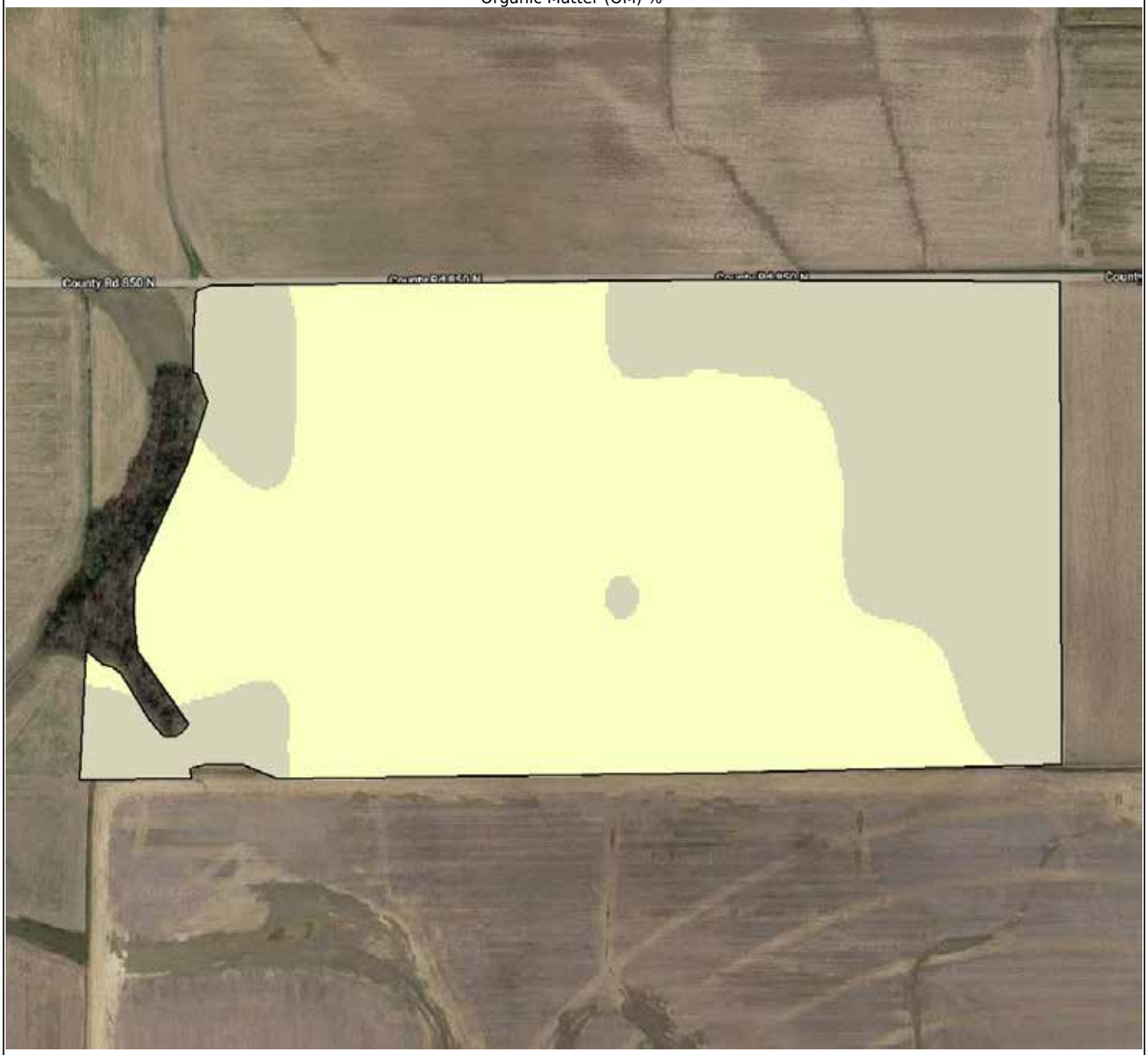
Tract 9

FieldAlytics™
empowering decisions

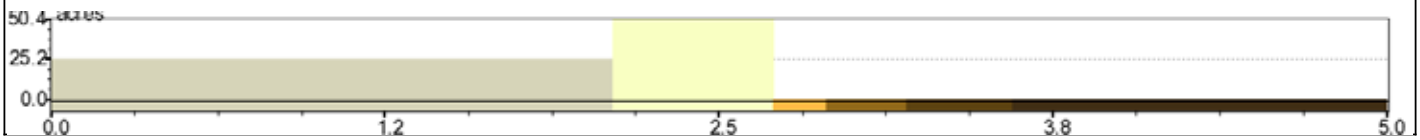
Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17683 Old Shed Daviess County **Area:** 75.6 **Sample Date:** 2019-11-04

Organic Matter (OM) %



Min: 2.0 **Max:** 2.5 **Avg:** 2.3



SOIL TESTS

Tract 9

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17683 Old Shed Daviess County **Area:** 75.6 **Sample Date:** 2019-11-04

(pH) none

Min: 5.6 **Max:** 6.2 **Avg:** 5.9

(pH) none	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	0.0	0.0
5.6-6.0	Low	47.13	62.34
6.0-6.2	Optimal	28.47	37.66
6.2-6.5	High	0.0	0.0
6.5-8	Very High	0.0	0.0

SOIL TESTS

Tract 9

FieldAlytics™
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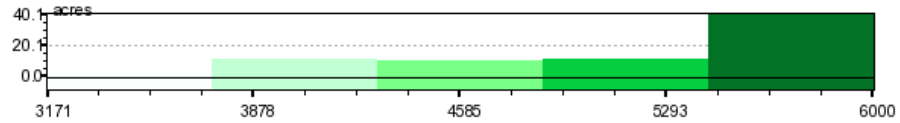
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17683 Old Shed Daviess County**

Lime - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management | Custom Eq: L 5 | Commodity: Corn-Soybeans | Sample Date: 2019-11-04

Constraints:

Target pH: 6.5

Max Rate: 6000.0 lbs/ac Multiplier: N/A
Min Rate: 1000.0 lbs/ac Subtract: N/A
Switch Rate: 500.0 lbs/ac

Minimum Application Rate:	3170.6 lbs/ac	Total Product:	398997.51 lbs
Maximum Application Rate:	6000.0 lbs/ac	Total Product Bulk:	199.50 ton
Average Application Rate:	5264.4 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	75.79 ac	Total Product Price:	$0.0
Average Field Rate:	5264.40 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	75.79 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 9

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17683 Old Shed Daviess County

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000.0 lbs/ac	1000.0 lbs/ac	0.00	500.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	398997.51 (lbs)	199.50 ton	75.79	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17683 Old Shed Daviess County	18 04N 07W	--	Daviess	75.60 ac	38.779206, -87.227938

SOIL TESTS

Tract 9

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17683 Old Shed Daviess County **Area:** 75.6 **Sample Date:** 2019-11-04

Phosphorous (P) lbs/ac

Min: 6.5 **Max:** 74.3 **Avg:** 25.4

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0-25	Very Low	41.69	55.15
25-35	Low	20.16	26.67
35-50	Optimal	10.32	13.65
50-60	High	1.93	2.55
60-500	Very High	1.5	1.98

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

Tract 9

FieldAlytics™
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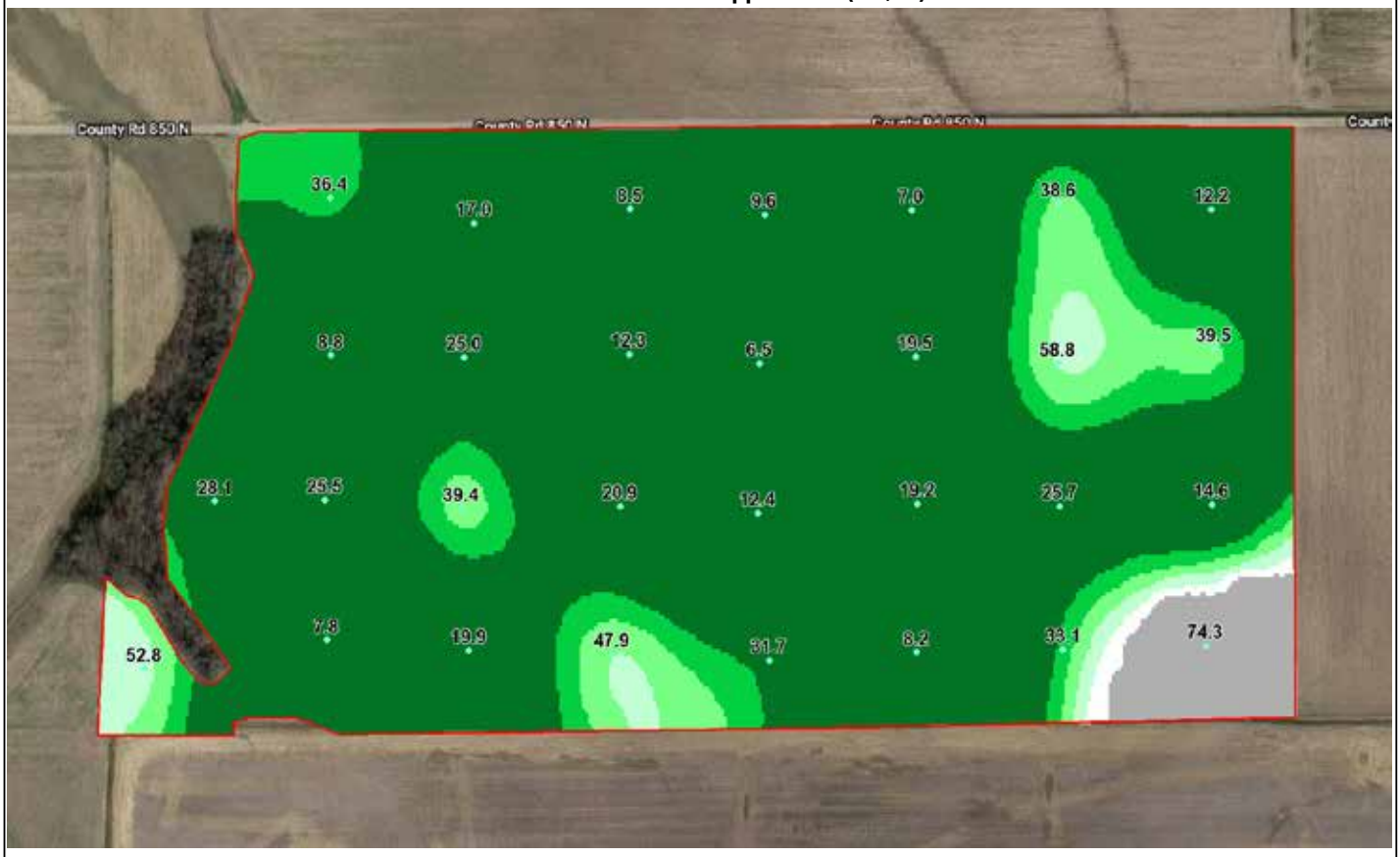
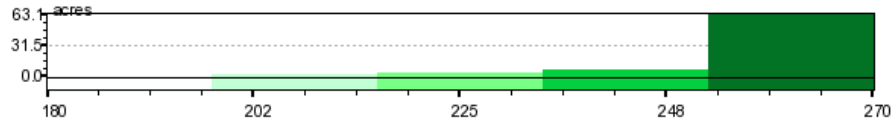
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17683 Old Shed Daviess County**

TSP 0-45-0 - Fertilizer Application (lbs/ac)





Lab: Agricultural Soil Management Custom Eq: P 4 Summers 2019 Commodity: Corn-Soybeans Sample Date: 2019-11-04

Constraints:

Max Rate: 270.0 lbs/ac Multiplier: 0.9
Min Rate: 180.0 lbs/ac Subtract: N/A
Switch Rate: 150.0 lbs/ac

Minimum Application Rate:	180.0 lbs/ac	Total Product:	19286.83 lbs
Maximum Application Rate:	270.0 lbs/ac	Total Product Bulk:	9.64 ton
Average Application Rate:	263.31 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	73.25 ac	Total Product Price:	$0.0
Average Field Rate:	254.47 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	75.79 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 9

FieldAlytics™
empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17683 Old Shed Daviess County

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	19286.83 (lbs)	9.64 ton	73.25	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17683 Old Shed Daviess County	18 04N 07W	--	Daviess	75.60 ac	38.779206, -87.227938

SOIL TESTS

Tract 9

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17683 Old Shed Daviess County **Area:** 75.6 **Sample Date:** 2019-11-04

Potassium (K) lbs/ac

Min: 187.3 **Max:** 329.7 **Avg:** 257.4

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0-200	Very Low	1.60	2.10
200-300	Low	71.78	94.95
300-400	Optimal	2.19	2.9
400-450	High	0.0	0.0
450-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

Tract 9

FieldAlytics™
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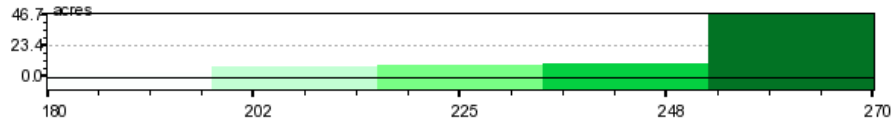
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17683 Old Shed Daviess County**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management | Custom Eq: K 01 Summers | Commodity: Corn-Soybeans | Sample Date: 2019-11-04

Constraints:

Max Rate: 270.0 lbs/ac Multiplier: 0.9
Min Rate: 180.0 lbs/ac Subtract: N/A
Switch Rate: 150.0 lbs/ac

Minimum Application Rate:	180.0 lbs/ac	Total Product:	19071.51 lbs
Maximum Application Rate:	270.0 lbs/ac	Total Product Bulk:	9.54 ton
Average Application Rate:	251.63 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	75.79 ac	Total Product Price:	$0.0
Average Field Rate:	251.63 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	75.79 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 9

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17683 Old Shed Daviess County

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	19071.51 (lbs)	9.54 ton	75.79	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17683 Old Shed Daviess County	18 04N 07W	--	Daviess	75.60 ac	38.779206, -87.227938

SOIL TESTS

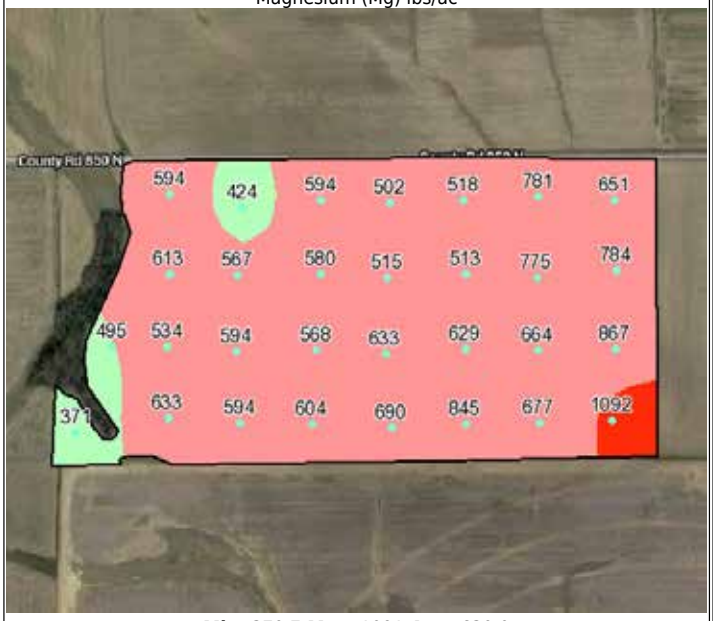
Tract 9

FieldAlytics™
empowering decisions

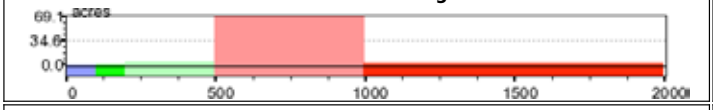
4-Panel Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17683 Old Shed Daviess County **Area:** 75.6 **Sample Date:** 2019-11-04

Magnesium (Mg) lbs/ac

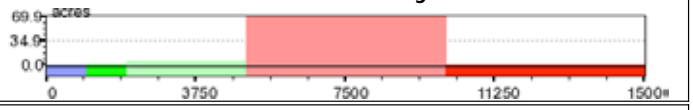


Min: 370.7 **Max:** 1091 **Avg:** 630.0



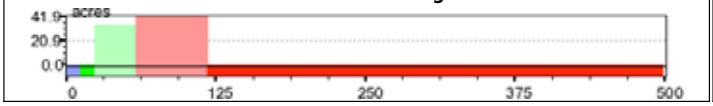
Calcium (Ca) lbs/ac

Min: 3956 **Max:** 7687 **Avg:** 5905



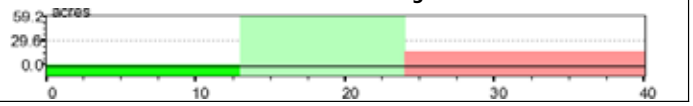
Sulfur (S) lbs/ac

Min: 31.2 **Max:** 88.3 **Avg:** 61.4



Cation Exchange Capacity (CEC) meq/100g

Min: 18.0 **Max:** 26.6 **Avg:** 22.2



Summers
Soil Test Report
2019

Robert Summers & Sons
#17685 Levee Field
39.4A sec18 STEELE

SOIL TESTS

Tract 10

FieldAlytics™
empowering decisions

Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 17685 Levee Field

	Label	Area
	White	39.4

Notes:

SOIL TESTS

Tract 10

FieldAlytics™
empowering decisions

Field Sample Summary

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	17685 Levee Field	39.4 acres	38.78299,-87.236145

	Min	Max	Avg
P	28.1	130	65.7
K	140	436	246
Mg	286	1203	803
Ca	2954	5915	4448
Na	13.1	24.5	17.7
S	24.2	62.5	43.2
B	0.40	4.3	2.1
Cu	3.1	7.8	5.7
Fe	394	639	481
Mn	264	653	523
Zn	2.9	7.7	5.4
pH	5.1	5.8	5.4
bpH	5.8	6.5	6.1
OM	2.0	2.5	2.3
CEC	19.8	30.2	25.5

Sample Date: 2019-11-04 Soil Lab: Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	113.9	250.2	1114	5915	18.9	58.7	3.8	7.8	570.9	609.6	7.0	5.4	6.1	2.5	30.2
2	95.6	178.6	938.0	5525	16.1	35.0	1.1	6.6	516.1	627.0	6.3	5.3	6.0	2.5	30.1
3	84.8	203.4	968.1	5240	19.9	42.5	2.8	7.0	526.7	561.9	6.9	5.3	6.0	2.5	29.3
4	105.8	224.8	528.4	3616	18.4	28.6	3.0	5.3	639.2	409.6	5.2	5.5	6.2	2.5	21.7
5	45.5	163.6	821.7	4239	21.2	57.0	4.3	5.8	411.8	600.2	5.2	5.8	6.5	2.0	19.8
6	46.0	260.8	947.3	4696	16.2	62.5	2.3	6.7	468.9	603.9	5.8	5.5	6.2	2.5	25.1
7	61.3	289.6	1203	4599	20.0	47.1	2.4	7.0	476.3	653.3	7.7	5.5	6.2	2.5	26.7
8	47.7	246.3	1024	3582	14.2	24.2	3.1	4.6	460.0	586.2	5.2	5.6	6.3	2.0	22.4
9	47.9	308.5	1054	4335	24.5	45.2	3.5	5.7	429.4	631.5	5.7	5.4	6.1	2.0	26.2
10	28.1	209.0	831.6	2954	15.4	43.4	2.6	3.1	447.5	508.5	3.2	5.3	6.0	2.0	22.5
11	130.0	232.8	1056	5563	22.2	36.5	2.3	7.2	503.2	640.4	7.4	5.4	6.1	2.5	29.3
12	29.7	175.4	531.6	4121	15.6	29.6	1.4	4.7	458.3	477.6	4.6	5.4	6.1	2.0	23.8
13	53.7	200.0	730.9	4606	17.6	40.7	0.7	5.6	435.2	577.1	6.0	5.4	6.1	2.5	25.4

SOIL TESTS

Tract 10

FieldAlytics™
empowering decisions

Field Sample Summary

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
14	61.8	139.7	719.0	4407	13.1	34.9	1.2	4.5	471.9	572.1	4.7	5.4	6.1	2.5	25.5
15	34.0	289.9	521.8	4978	16.9	56.9	0.4	4.7	393.7	268.4	3.7	5.4	6.1	2.5	26.0
16	67.8	435.6	377.2	3892	14.0	47.0	0.9	6.0	499.2	263.9	4.3	5.1	5.8	2.5	26.3
17	63.2	381.3	285.5	3349	16.4	45.4	0.4	4.1	463.7	298.1	2.9	5.2	5.9	2.0	23.5

SOIL TESTS

Tract 10

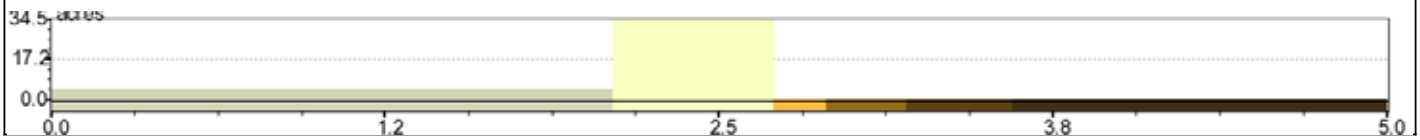
FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17685 Levee Field **Area:** 39.4 **Sample Date:** 2019-11-04

Organic Matter (OM) %

Min: 2.0 **Max:** 2.5 **Avg:** 2.3



SOIL TESTS

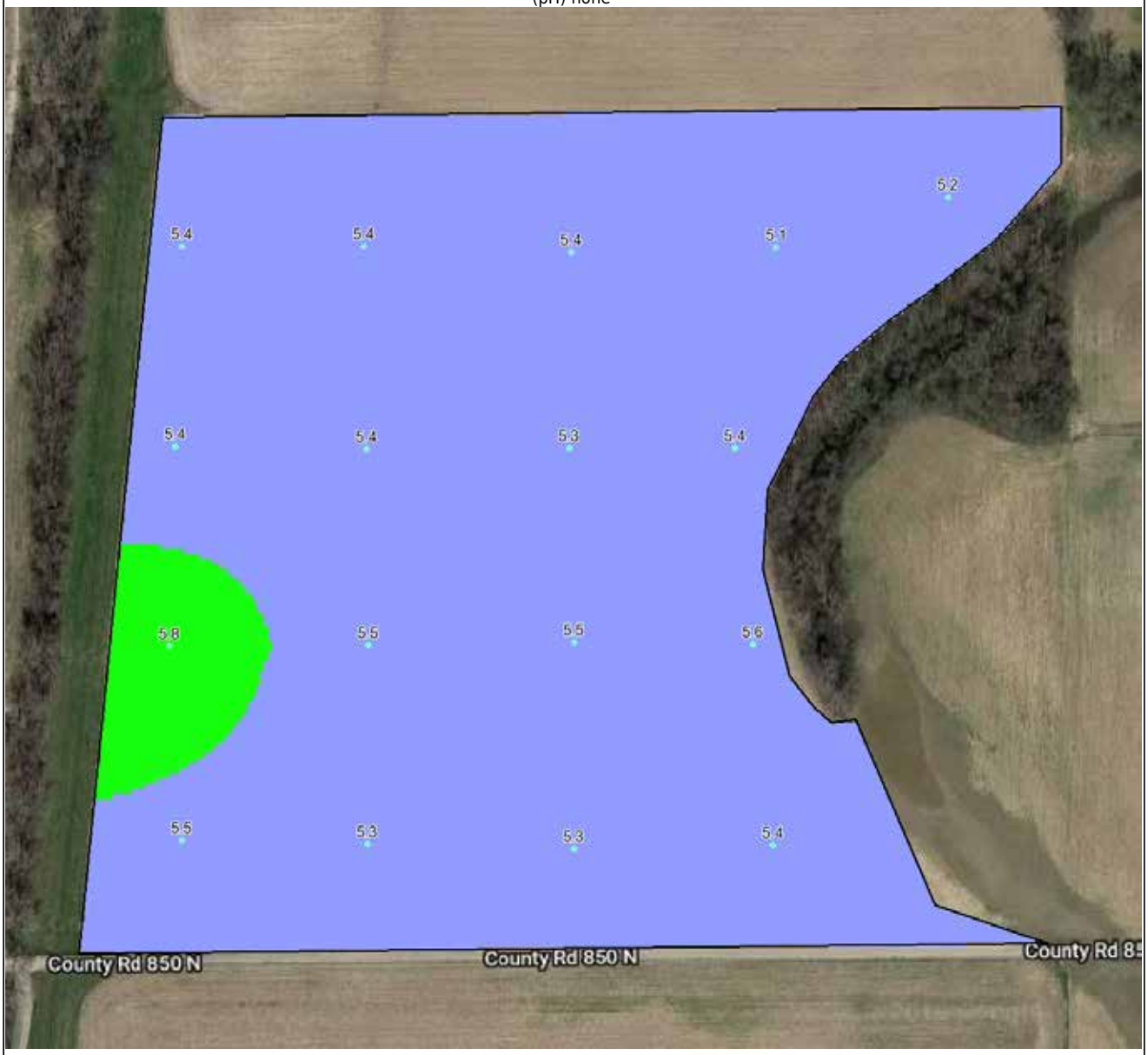
Tract 10

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17685 Levee Field **Area:** 39.4 **Sample Date:** 2019-11-04

(pH) none



Min: 5.1 **Max:** 5.8 **Avg:** 5.4

(pH) none	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	37.46	95.08
5.6-6.0	Low	1.94	4.92
6.0-6.2	Optimal	0.0	0.0
6.2-6.5	High	0.0	0.0
6.5-8	Very High	0.0	0.0

SOIL TESTS

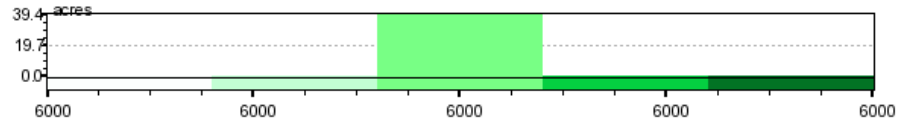
Tract 10

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17685 Levee Field**

Lime - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management | Custom Eq: L 5 | Commodity: Corn-Soybeans | Sample Date: 2019-11-04

Constraints:

Target pH: 6.5

Max Rate: 6000.0 lbs/ac Multiplier: N/A
Min Rate: 1000.0 lbs/ac Subtract: N/A
Switch Rate: 500.0 lbs/ac

Minimum Application Rate:	6000.0 lbs/ac	Total Product:	236832.37 lbs
Maximum Application Rate:	6000.0 lbs/ac	Total Product Bulk:	118.42 ton
Average Application Rate:	6000.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	39.47 ac	Total Product Price:	$0.0
Average Field Rate:	6000.00 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	39.47 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 10

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Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17685 Levee Field

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000.0 lbs/ac	1000.0 lbs/ac	0.00	500.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	236832.37 (lbs)	118.42 ton	39.47	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17685 Levee Field	18 04N 07W	--	Daviess	39.40 ac	38.782990, -87.236145

SOIL TESTS

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Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17685 Levee Field **Area:** 39.4 **Sample Date:** 2019-11-04

Phosphorous (P) lbs/ac

Min: 28.1 **Max:** 130.0 **Avg:** 65.7

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0-25	Very Low	0.0	0.0
25-35	Low	0.99	2.51
35-50	Optimal	8.25	20.94
50-60	High	7.72	19.6
60-500	Very High	22.44	56.95

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

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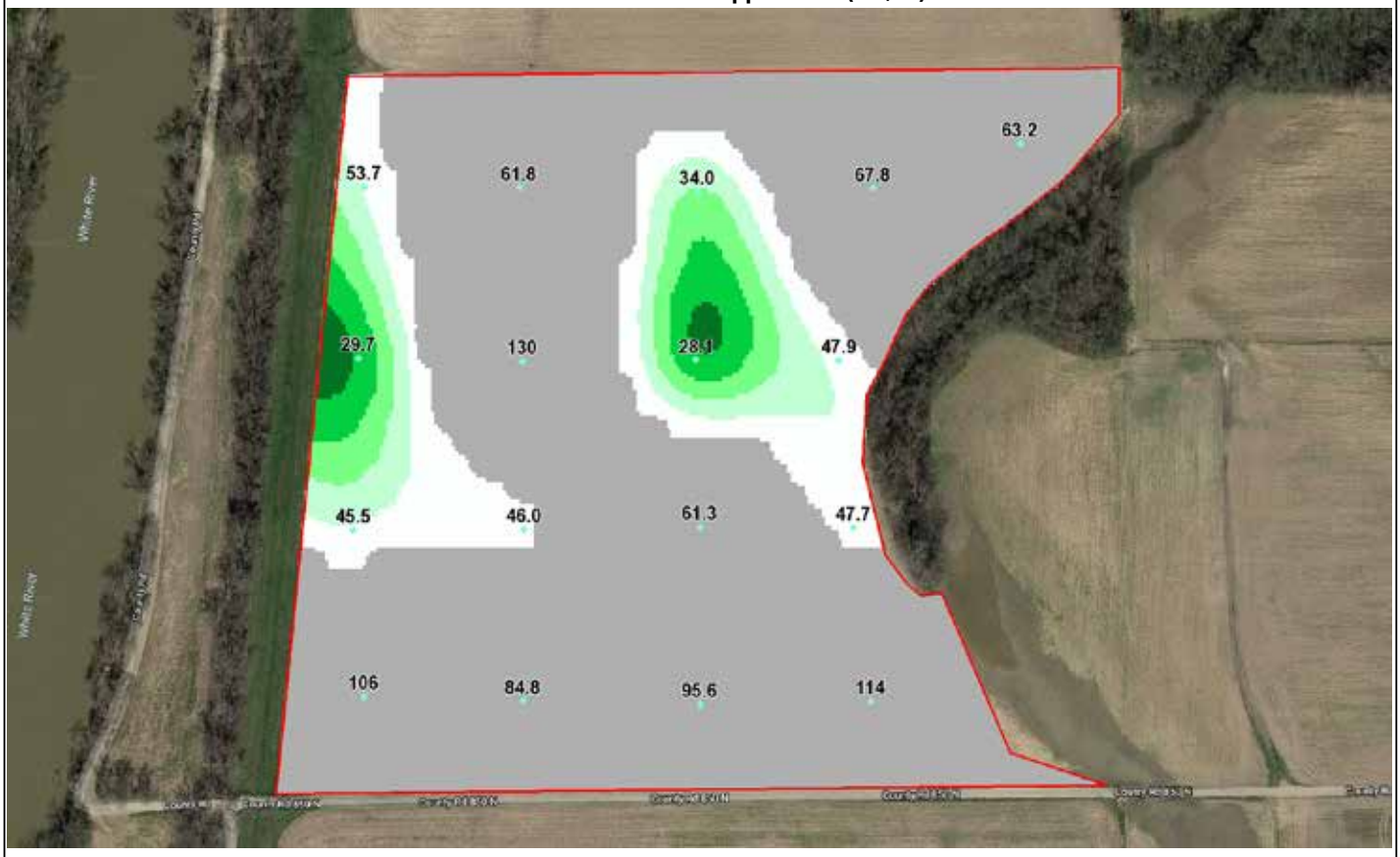
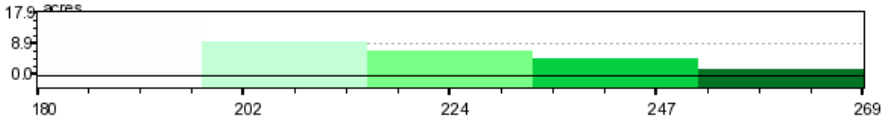
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17685 Levee Field**

TSP 0-45-0 - Fertilizer Application (lbs/ac)





Lab: Agricultural Soil Management Custom Eq: P 4 Summers 2019 Commodity: Corn-Soybeans Sample Date: 2019-11-04

Constraints:

Max Rate:	270.0 lbs/ac	Multiplier:	0.9
Min Rate:	180.0 lbs/ac	Subtract:	N/A
Switch Rate:	150.0 lbs/ac		

Minimum Application Rate:	180.0 lbs/ac	Total Product:	1932.6 lbs
Maximum Application Rate:	268.8 lbs/ac	Total Product Bulk:	0.97 ton
Average Application Rate:	203.81 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	9.48 ac	Total Product Price:	$0.0
Average Field Rate:	48.96 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	39.47 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

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Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17685 Levee Field

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	1932.60 (lbs)	0.97 ton	9.48	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17685 Levee Field	18 04N 07W	--	Daviess	39.40 ac	38.782990, -87.236145

SOIL TESTS

Tract 10

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Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17685 Levee Field **Area:** 39.4 **Sample Date:** 2019-11-04

Potassium (K) lbs/ac

Min: 139.7 **Max:** 435.6 **Avg:** 246.4

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0-200	Very Low	9.73	24.7
200-300	Low	22.87	58.05
300-400	Optimal	5.11	12.97
400-450	High	1.68	4.26
450-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

Tract 10

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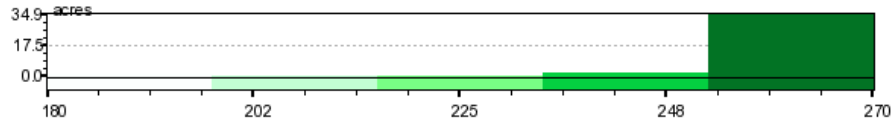
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 17685 Levee Field**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management Custom Eq: K 01 Summers Commodity: Corn-Soybeans Sample Date: 2019-11-04

Constraints:

Max Rate:	270.0 lbs/ac	Multiplier:	0.9
Min Rate:	180.0 lbs/ac	Subtract:	N/A
Switch Rate:	150.0 lbs/ac		

Minimum Application Rate:	180.0 lbs/ac	Total Product:	8955.82 lbs
Maximum Application Rate:	270.0 lbs/ac	Total Product Bulk:	4.48 ton
Average Application Rate:	263.91 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	33.93 ac	Total Product Price:	$0.0
Average Field Rate:	226.89 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	39.47 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

Tract 10

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Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 17685 Levee Field

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	8955.82 (lbs)	4.48 ton	33.93	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17685 Levee Field	18 04N 07W	--	Daviess	39.40 ac	38.782990, -87.236145

SOIL TESTS

Tract 10

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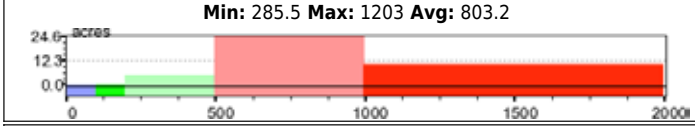
4-Panel Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17685 Levee Field **Area:** 39.4 **Sample Date:** 2019-11-04

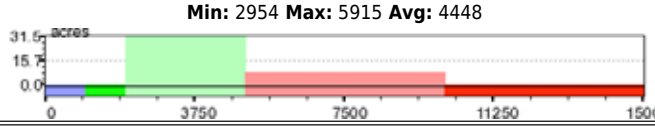
Magnesium (Mg) lbs/ac

Min: 285.5 **Max:** 1203 **Avg:** 803.2

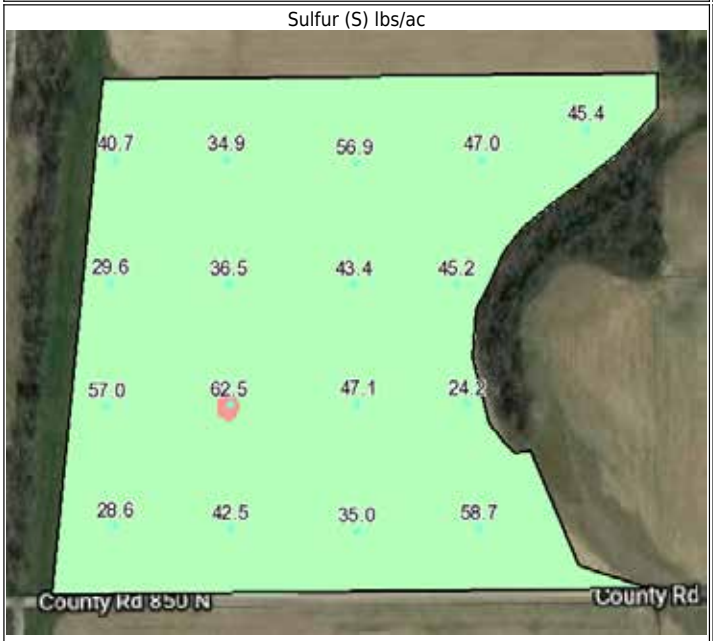


Calcium (Ca) lbs/ac

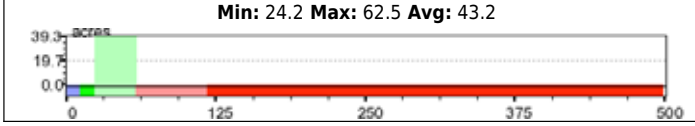
Min: 2954 **Max:** 5915 **Avg:** 4448



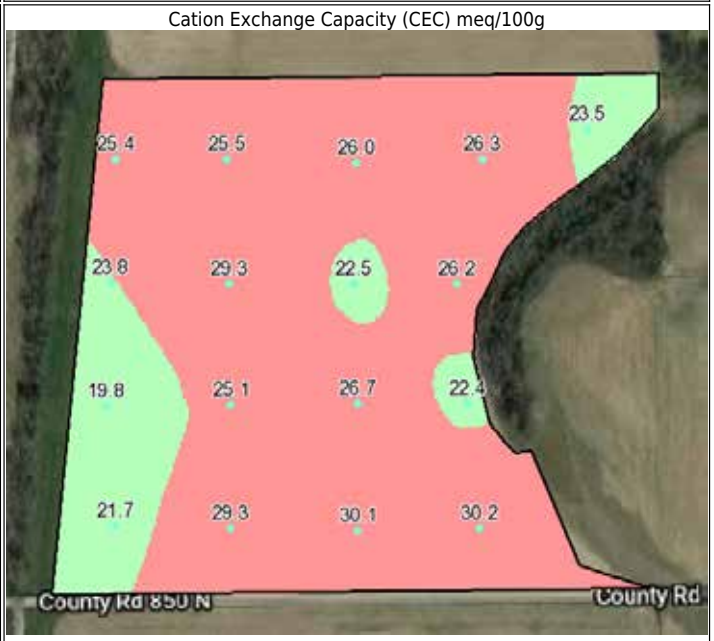
Sulfur (S) lbs/ac



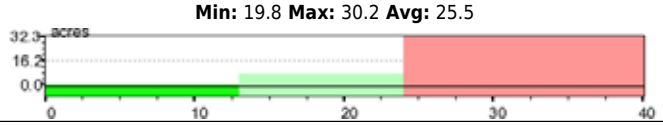
Min: 24.2 **Max:** 62.5 **Avg:** 43.2



Cation Exchange Capacity (CEC) meq/100g



Min: 19.8 **Max:** 30.2 **Avg:** 25.5



Tract 10

Summers
Soil Test Report
2019

Robert Summers & Sons
#18050 Bayou's
8.9A sec18 STEELE

SOIL TESTS

Tract 10

FieldAlytics™
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Quick Map

Grower: Jason Summers | Farm: Robert Summers and Sons | Field: 18050 Bayous

	Label	Area
	White	8.9

Notes:

SOIL TESTS

Tract 10

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Field Sample Summary

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	18050 Bayous	8.9 acres	38.781813,-87.2332

	Min	Max	Avg
P	31.4	102	63.6
K	152	330	243
Mg	543	1041	793
Ca	3353	12792	6284
Na	16.6	41.2	26.6
S	25.3	86.9	51.8
B	0.20	4.2	2.7
Cu	4.7	6.5	5.6
Fe	328	599	486
Mn	409	561	459
Zn	3.5	6.1	4.8
pH	5.2	7.9	6.8
bpH	5.9	7.0	6.8
OM	2.0	2.0	2.0
CEC	12.3	36.0	22.0

Sample Date: 2019-11-04 Soil Lab: Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	31.4	207.2	794.5	3487	41.2	40.4	3.5	5.0	328.3	409.5	4.1	6.5	7.0	2.0	12.3
2	66.2	151.6	697.8	6697	25.5	76.1	0.2	5.5	598.7	465.9	4.4	7.7	7.0	2.0	19.8
3	102.5	281.1	886.1	12792	29.2	86.9	4.2	6.5	555.5	447.9	5.9	7.9	7.0	2.0	36.0
4	35.2	245.6	1041	5088	16.6	25.3	4.2	6.5	417.5	560.6	6.1	7.0	7.0	2.0	17.4
5	82.5	329.7	542.7	3353	20.5	30.1	1.2	4.7	530.0	409.1	3.5	5.2	5.9	2.0	24.5

SOIL TESTS

Tract 10

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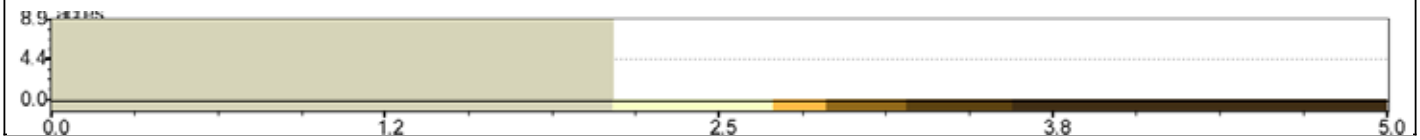
Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 18050 Bayous **Area:** 8.9 **Sample Date:** 2019-11-04

Organic Matter (OM) %

Min: 2.0 **Max:** 2.0 **Avg:** 2.0



SOIL TESTS

Tract 10

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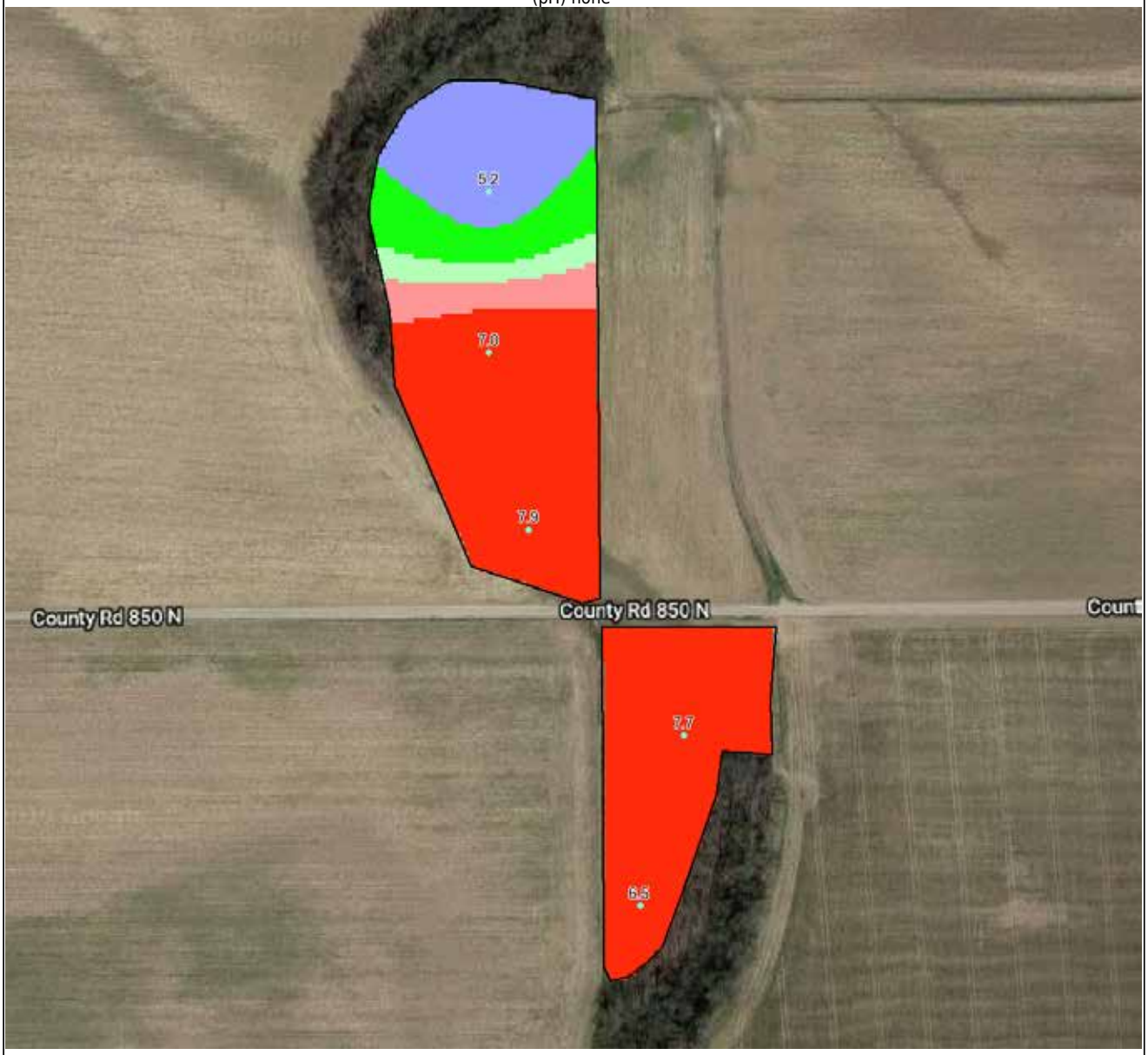
Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 18050 Bayous **Area:** 8.9 **Sample Date:** 2019-11-04

(pH) none



Min: 5.2 **Max:** 7.9 **Avg:** 6.8

(pH) none	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	1.51	16.97
5.6-6.0	Low	0.81	9.1
6.0-6.2	Optimal	0.34	3.82
6.2-6.5	High	0.46	5.17
6.5-8	Very High	5.78	64.96

SOIL TESTS

Tract 10

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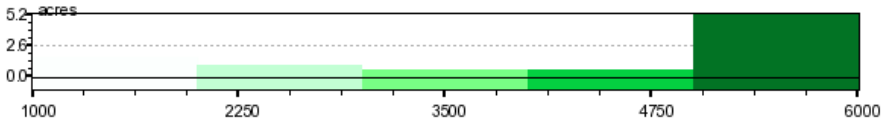
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18050 Bayous**

Lime - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management | Custom Eq: L 5 | Commodity: Corn-Soybeans | Sample Date: 2019-11-04

Constraints:

Target pH: 6.5

Max Rate: 6000.0 lbs/ac Multiplier: N/A
Min Rate: 1000.0 lbs/ac Subtract: N/A
Switch Rate: 500.0 lbs/ac

Minimum Application Rate:	1000.0 lbs/ac	Total Product:	21888.37 lbs
Maximum Application Rate:	6000.0 lbs/ac	Total Product Bulk:	10.94 ton
Average Application Rate:	4489.53 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	4.88 ac	Total Product Price:	$0.0
Average Field Rate:	2461.46 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	8.89 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 10

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Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18050 Bayous

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000.0 lbs/ac	1000.0 lbs/ac	0.00	500.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	21888.37 (lbs)	10.94 ton	4.88	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18050 Bayous	18 04N 07W	--	Daviess	8.90 ac	38.781813, -87.233200

SOIL TESTS

Tract 10

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empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 18050 Bayous **Area:** 8.9 **Sample Date:** 2019-11-04

Phosphorous (P) lbs/ac

Min: 31.4 **Max:** 102.5 **Avg:** 63.6

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0-25	Very Low	0.0	0.0
25-35	Low	0.32	3.6
35-50	Optimal	0.92	10.34
50-60	High	1.48	16.63
60-500	Very High	6.18	69.45

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

Tract 10

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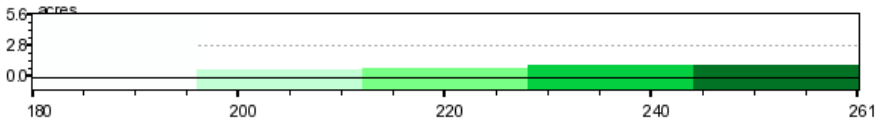
Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18050 Bayous**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management Custom Eq: P 4 Summers 2019 Commodity: Corn-Soybeans Sample Date: 2019-11-04

Constraints:

Max Rate: 270.0 lbs/ac Multiplier: 0.9
Min Rate: 180.0 lbs/ac Subtract: N/A
Switch Rate: 150.0 lbs/ac

Minimum Application Rate:	180.0 lbs/ac	Total Product:	268.95 lbs
Maximum Application Rate:	260.6 lbs/ac	Total Product Bulk:	0.13 ton
Average Application Rate:	200.67 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	1.34 ac	Total Product Price:	$0.0
Average Field Rate:	30.25 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	8.89 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

Tract 10

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18050 Bayous

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	268.95 (lbs)	0.13 ton	1.34	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18050 Bayous	18 04N 07W	--	Daviess	8.90 ac	38.781813, -87.233200

SOIL TESTS

Tract 10

FieldAlytics™
empowering decisions

Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 18050 Bayous **Area:** 8.9 **Sample Date:** 2019-11-04

Potassium (K) lbs/ac

Min: 151.6 **Max:** 329.7 **Avg:** 243.0

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0-200	Very Low	2.31	25.96
200-300	Low	4.42	49.57
300-400	Optimal	2.17	24.39
400-450	High	0.0	0.0
450-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

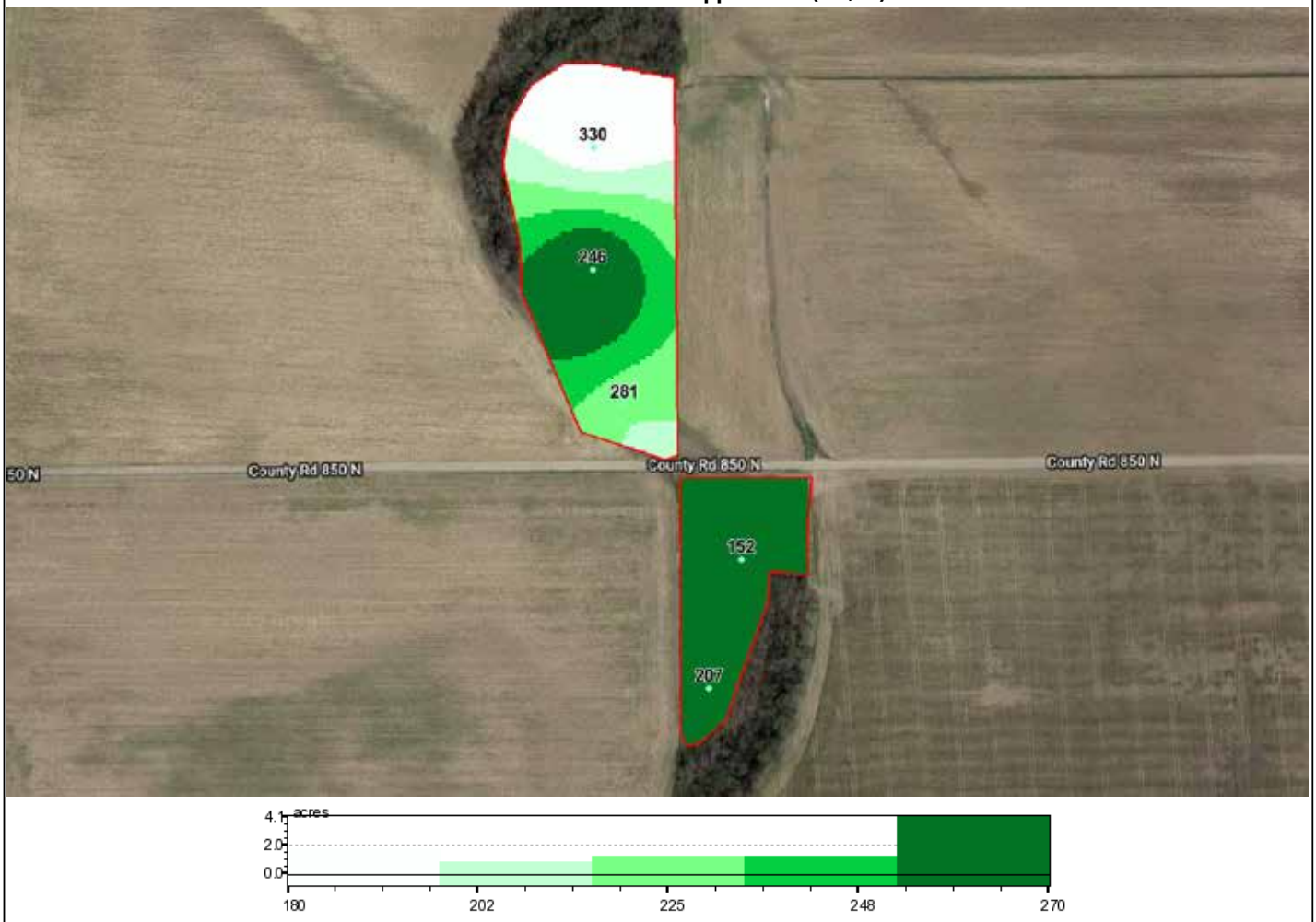
Tract 10

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Robert Summers and Sons** **Field(s): 18050 Bayous**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Lab: Agricultural Soil Management Custom Eq: K 01 Summers Commodity: Corn-Soybeans Sample Date: 2019-11-04

Constraints:

Max Rate: 270.0 lbs/ac Multiplier: 0.9
Min Rate: 180.0 lbs/ac Subtract: N/A
Switch Rate: 150.0 lbs/ac

Minimum Application Rate:	180.0 lbs/ac	Total Product:	2116.62 lbs
Maximum Application Rate:	270.0 lbs/ac	Total Product Bulk:	1.06 ton
Average Application Rate:	238.03 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	8.89 ac	Total Product Price:	$0.0
Average Field Rate:	238.03 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	8.89 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

SOIL TESTS

Tract 10

FieldAlytics™
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Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Robert Summers and Sons
Field(s): 18050 Bayous

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	90.0	270.0 lbs/ac	180.0 lbs/ac	0.00	150.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	2116.62 (lbs)	1.06 ton	8.89	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
18050 Bayous	18 04N 07W	--	Daviess	8.90 ac	38.781813, -87.233200

SOIL TESTS

Tract 10

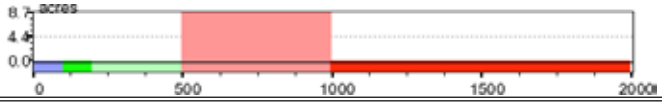
FieldAlytics™
empowering decisions

4-Panel Elemental Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 18050 Bayous **Area:** 8.9 **Sample Date:** 2019-11-04

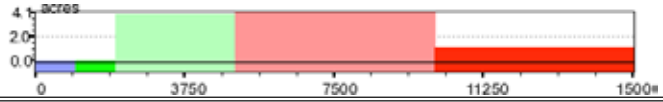
Magnesium (Mg) lbs/ac

Min: 542.7 **Max:** 1041 **Avg:** 792.6



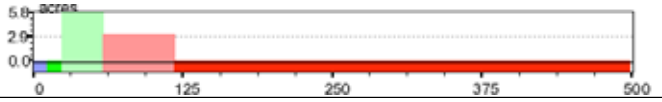
Calcium (Ca) lbs/ac

Min: 3353 **Max:** 12792 **Avg:** 6284



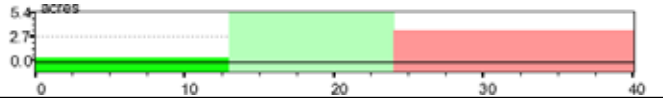
Sulfur (S) lbs/ac

Min: 25.3 **Max:** 86.9 **Avg:** 51.8



Cation Exchange Capacity (CEC) meq/100g

Min: 12.3 **Max:** 36.0 **Avg:** 22.0



Summers
Soil Test Report
2023

Summers Farms
#17656 Home Place
64.2A sec11,12 VIGO

SOIL TESTS

Tracts 11-14

FieldAlytics™
empowering decisions

Quick Map Report

Grower: Jason Summers **Farm:** Robert Summers and Sons **Field:** 17656 Home Place

LEGEND

Label	Area
No Selection	64.2 ac

SOIL TESTS

Tracts 11-14

FieldAlytics™
empowering decisions

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Robert Summers and Sons	17656 Home Place	64.22 acres	38.793511, -87.262481

	Min	Max	Avg
P	22.0	648.0	113.1
K	86.0	328.0	176.8
Mg	32.0	494.0	211.9
Ca	1042	4410	2158
Na	14.0	24.0	18.1
S	10.0	24.0	15.1
B	0.4	1.6	0.7
Cu	0.4	6.0	2.5
Fe	238.0	834.0	419.9
Mn	22.0	222.0	117.1
Zn	1.8	18.8	5.0
pH	5.7	7.2	6.3
bpH	6.70	6.93	6.85
OM	1.0	3.5	1.8
CEC	3.1	15.6	7.4

Sample Date	Soil Lab
2023-11-30	Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	160.0	268.0	422.0	2906	22.0	22.0	1.6	3.2	656.0	130.0	4.6	7.0	6.93	2.0	9.4
2	38.0	166.0	190.0	1294	20.0	10.0	0.6	1.6	394.0	222.0	2.4	6.2	6.87	1.5	4.9
3	68.0	328.0	148.0	1670	18.0	16.0	0.6	1.2	270.0	194.0	2.8	6.8	6.91	1.5	5.5
4	42.0	188.0	134.0	1406	18.0	12.0	0.6	1.4	238.0	208.0	2.6	6.4	6.89	1.5	4.8
5	92.0	248.0	430.0	3062	20.0	16.0	1.0	3.2	550.0	118.0	3.2	6.4	6.83	2.0	10.8
6	26.0	170.0	260.0	1698	18.0	12.0	0.6	1.4	284.0	128.0	1.8	6.5	6.88	1.5	6.1
7	48.0	166.0	252.0	2146	20.0	14.0	0.6	2.4	436.0	60.0	2.8	5.7	6.75	2.5	8.5
8	48.0	238.0	494.0	3802	18.0	24.0	1.0	3.6	354.0	46.0	6.4	6.0	6.72	3.0	14.0
9	24.0	194.0	264.0	2302	18.0	18.0	0.8	2.0	316.0	182.0	2.6	6.2	6.83	2.0	8.1
10	22.0	150.0	186.0	1826	20.0	10.0	0.6	1.8	388.0	152.0	2.4	6.3	6.86	1.5	6.3
11	30.0	216.0	212.0	2124	24.0	12.0	0.8	2.0	372.0	110.0	2.8	6.0	6.81	2.0	7.7

SOIL TESTS

Tracts 11-14

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
12	24.0	140.0	258.0	2508	18.0	16.0	0.8	2.0	390.0	78.0	2.4	6.3	6.84	2.0	8.5
13	36.0	256.0	188.0	1942	18.0	16.0	0.6	1.8	282.0	114.0	2.8	6.0	6.82	2.0	7.1
14	36.0	184.0	470.0	3962	16.0	20.0	0.8	3.2	306.0	24.0	4.0	6.0	6.72	3.0	14.2
15	30.0	166.0	186.0	2092	16.0	16.0	0.4	2.0	346.0	100.0	2.4	5.8	6.78	1.5	7.8
16	34.0	158.0	268.0	3588	16.0	16.0	0.6	2.4	316.0	36.0	2.6	6.2	6.79	3.5	11.7
17	94.0	86.0	32.0	1042	14.0	12.0	0.4	0.4	386.0	22.0	3.4	6.5	6.91	1.0	3.1
18	46.0	92.0	88.0	1650	16.0	14.0	0.6	1.0	492.0	26.0	3.8	6.0	6.85	1.5	5.4
19	108.0	132.0	102.0	2566	16.0	12.0	0.6	3.2	450.0	170.0	10.2	7.2	6.93	1.5	7.0
20	62.0	158.0	58.0	1200	18.0	12.0	0.4	0.8	282.0	92.0	3.0	6.6	6.91	1.0	3.7
21	542.0	218.0	96.0	2150	18.0	18.0	0.8	3.4	732.0	172.0	12.2	6.8	6.91	1.5	6.3
22	120.0	104.0	56.0	1506	18.0	16.0	0.6	1.2	512.0	104.0	3.4	6.7	6.91	1.0	4.4
23	90.0	198.0	472.0	4410	22.0	20.0	1.2	4.2	544.0	36.0	3.6	6.0	6.70	3.0	15.6
24	42.0	172.0	94.0	1314	16.0	12.0	0.6	1.0	308.0	168.0	3.0	6.7	6.91	1.5	4.1
25	32.0	164.0	218.0	1968	18.0	16.0	0.6	2.2	350.0	160.0	2.8	5.9	6.81	2.0	7.3
26	648.0	160.0	204.0	1692	18.0	10.0	0.6	5.4	834.0	136.0	18.8	6.8	6.91	1.0	5.5
27	160.0	96.0	72.0	1308	16.0	16.0	0.6	5.6	434.0	172.0	10.6	6.4	6.89	1.5	4.1
28	466.0	134.0	78.0	1308	16.0	14.0	0.6	6.0	536.0	118.0	16.6	6.2	6.88	1.5	4.3

SOIL TESTS

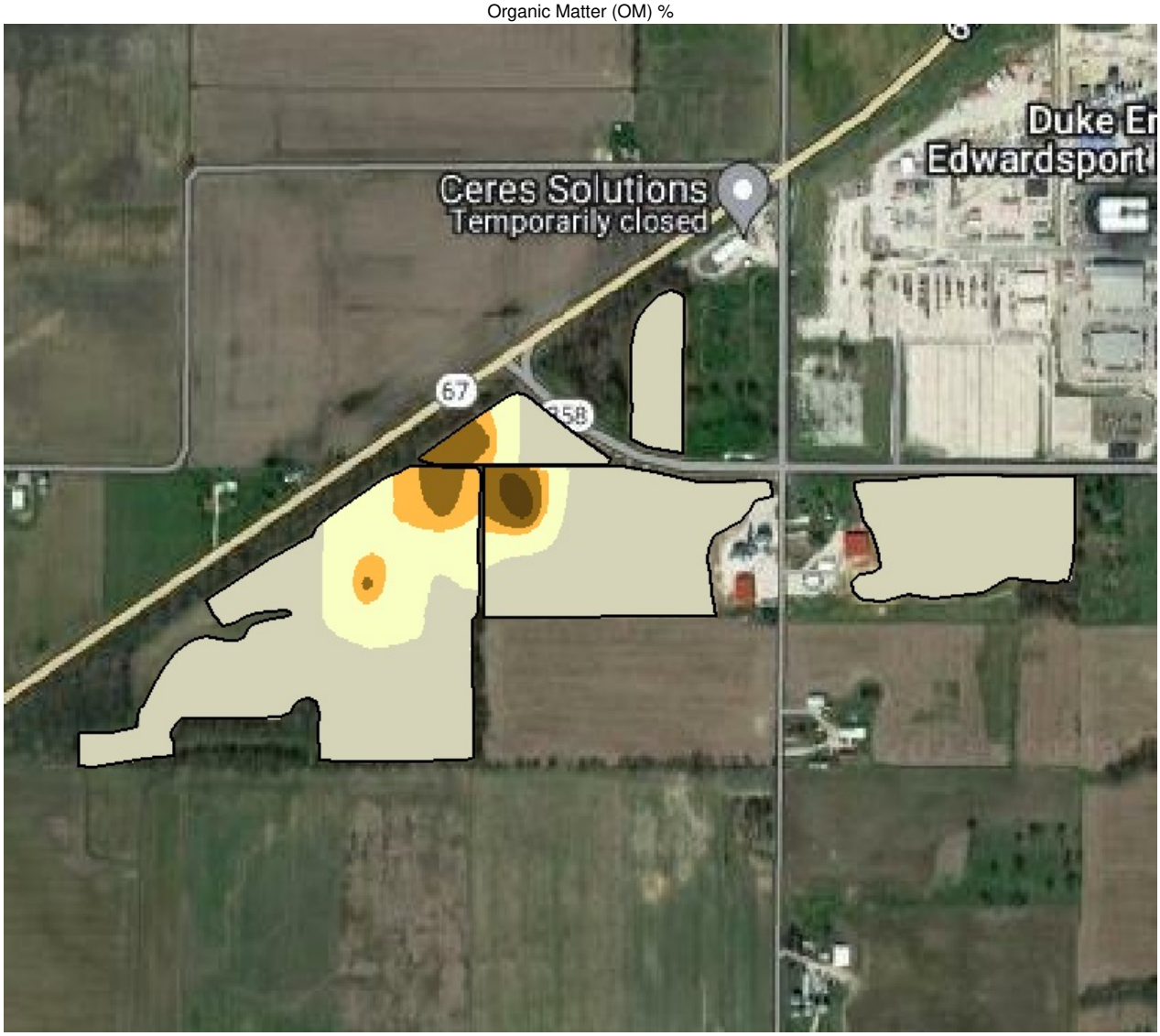
Tracts 11-14

FieldAlytics™
empowering decisions

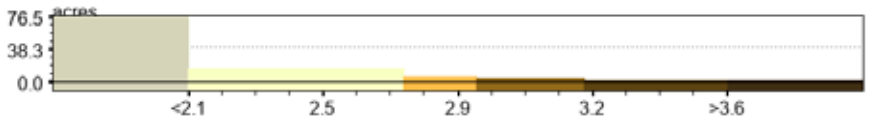
Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 17656 Home Place | **Zone:** Not Specified | **Area:** 64.2 | **Sample Date:** 2023-11-30

Organic Matter (OM) %



Min: 1.0 **Max:** 3.5 **Avg:** 1.8



SOIL TESTS

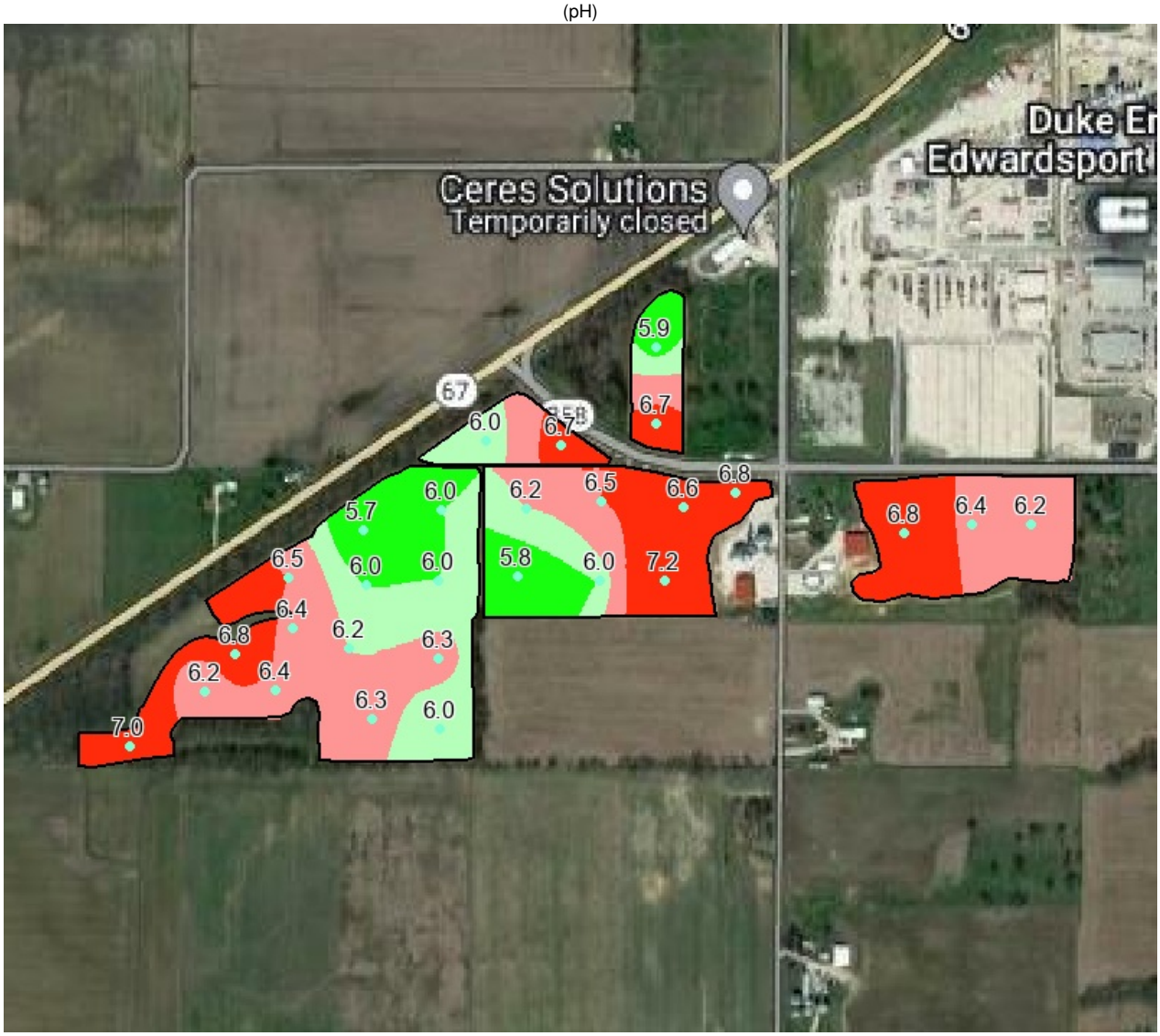
Tracts 11-14

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 17656 Home Place | **Zone:** Not Specified | **Area:** 64.2 | **Sample Date:** 2023-11-30

(pH)



Min: 5.7 **Max:** 7.2 **Avg:** 6.3

(pH)	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	0.0	0.0
5.6-6.0	Low	9.6	14.95
6.0-6.2	Optimal	13.56	21.12
6.2-6.5	High	22.07	34.37
6.5-8	Very High	18.99	29.57

SOIL TESTS

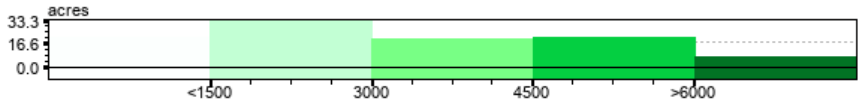
Tracts 11-14

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm(s): Robert Summers and Sons** **Field(s): 17656 Home Place**

Lime - Fertilizer Application (lbs/ac)



Equation Variables

Target pH: 6.5

Lab:	Agricultural Soil Management	Switch Rate:	500 lbs/ac	Total Area:	64.35 ac
Custom Eq:	L 5	Rate Multiplier:	N/A	Total Product:	164250.79 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	82.13 ton
Sample Date:	2023-11-30	Min Application Rate:	1000.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	N/A	Max Application Rate:	6000.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	3200.58 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	6000 lbs/ac	Application Area:	51.32 ac	Total Application Cost:	$0.0
Min Rate:	1000 lbs/ac	Average Field Rate:	2552.65 lbs/ac	Total Cost:	$0.0

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm(s): Robert Summers and Sons
Field(s): 17656 Home Place

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000 lbs/ac	1000 lbs/ac	0.00	500 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	164250.79 (lbs)	82.13 ton	51.32	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17656 Home Place	11 04N 08W	--	Knox	64.22 ac	38.793511, -87.262481

SOIL TESTS

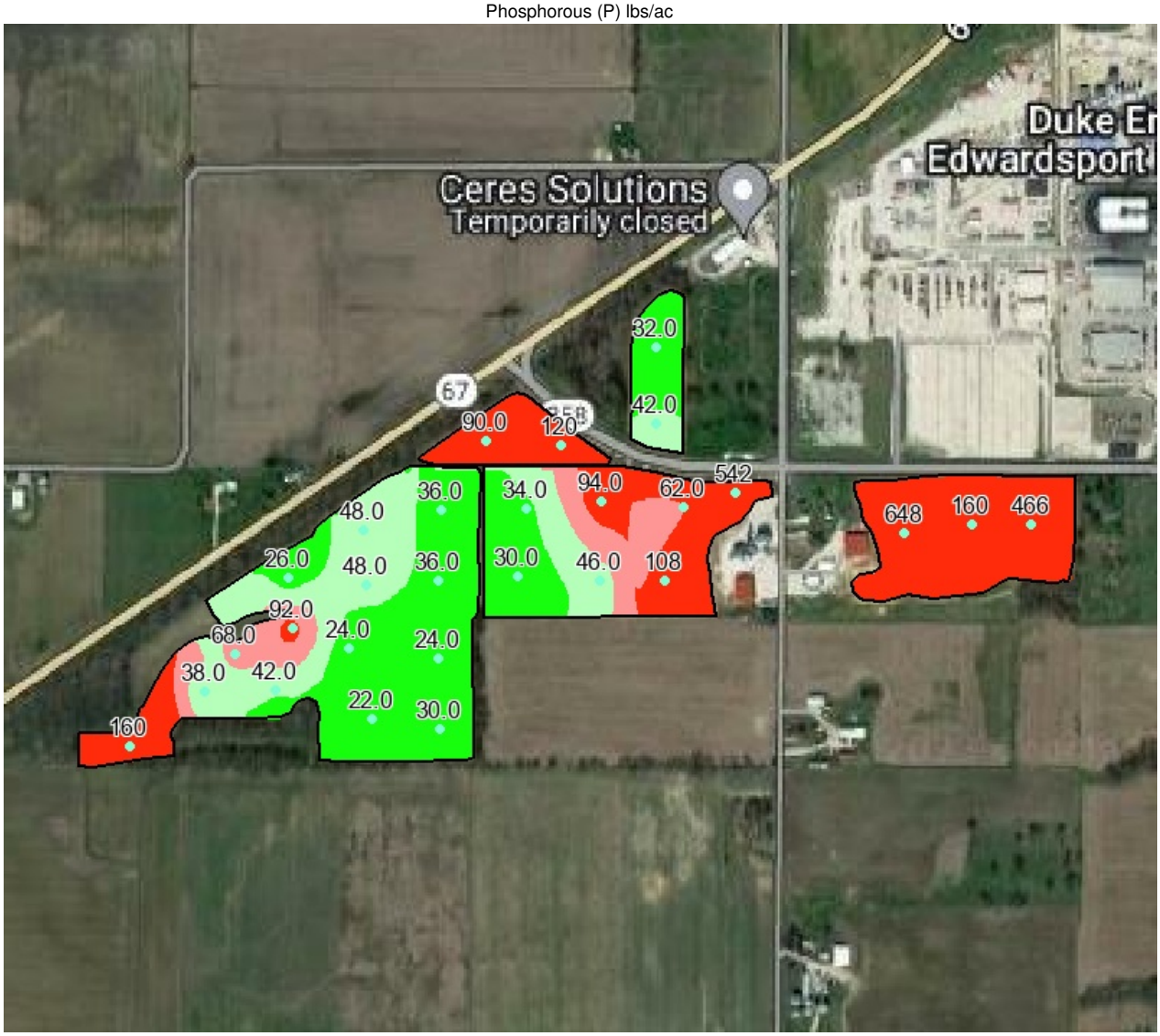
Tracts 11-14

FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 17656 Home Place | **Zone:** Not Specified | **Area:** 64.2 | **Sample Date:** 2023-11-30

Phosphorous (P) lbs/ac



Min: 22.0 **Max:** 648.0 **Avg:** 113.1

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 20	Very Low	0.0	0.0
20 - 40	Low	22.93	35.8
40- 60	Optimal	13.09	20.38
60- 80	High	5.72	8.91
80-1000	Very High	22.42	34.91

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

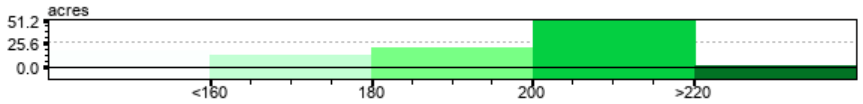
Tracts 11-14

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm(s): Robert Summers and Sons** **Field(s): 17656 Home Place**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	64.35 ac
Custom Eq:	P 4 Summers	Rate Multiplier:	N/A	Total Product:	7106.53 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	3.55 ton
Sample Date:	2023-11-30	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	189.94 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	37.41 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	110.44 lbs/ac	Total Cost:	$0.0

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm(s): Robert Summers and Sons
Field(s): 17656 Home Place

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	7106.53 (lbs)	3.55 ton	37.41	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17656 Home Place	11 04N 08W	--	Knox	64.22 ac	38.793511, -87.262481

SOIL TESTS

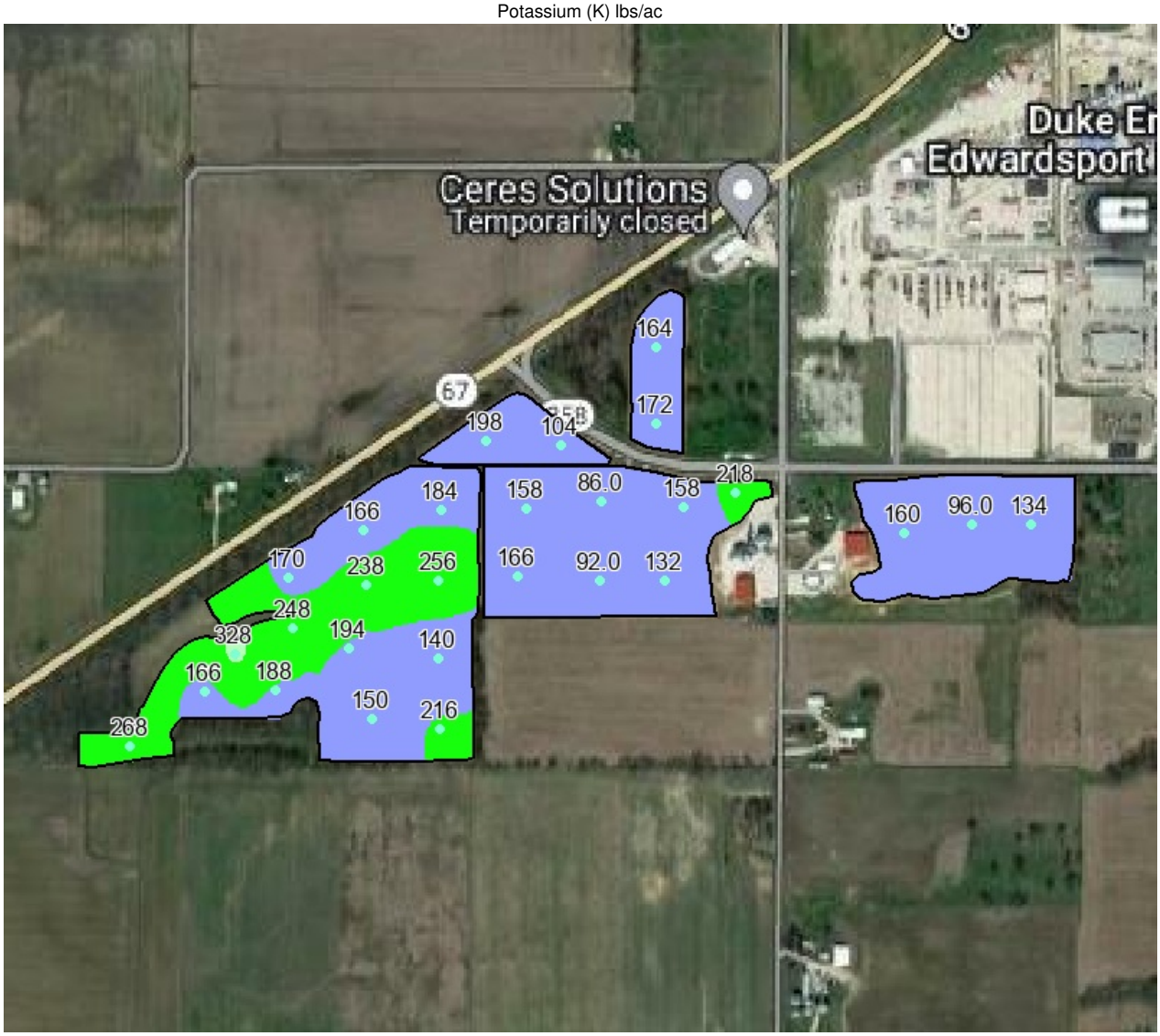
Tracts 11-14

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 17656 Home Place | **Zone:** Not Specified | **Area:** 64.2 | **Sample Date:** 2023-11-30

Potassium (K) lbs/ac



Min: 86.0 **Max:** 328.0 **Avg:** 176.8

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 200	Very Low	48.68	75.8
200 - 300	Low	15.35	23.92
300- 400	Optimal	0.19	0.29
400- 500	High	0.0	0.0
500-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

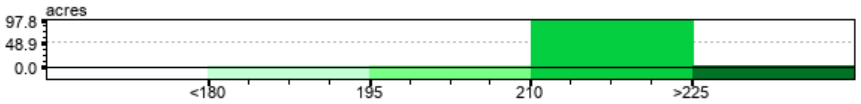
Tracts 11-14

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm(s): Robert Summers and Sons** **Field(s): 17656 Home Place**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	64.35 ac
Custom Eq:	K 01 Summers	Rate Multiplier:	N/A	Total Product:	13492.02 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	6.75 ton
Sample Date:	2023-11-30	Min Application Rate:	169.28 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	209.68 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	64.35 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	209.68 lbs/ac	Total Cost:	$0.0

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm(s): Robert Summers and Sons
Field(s): 17656 Home Place

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	13492.02 (lbs)	6.75 ton	64.35	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17656 Home Place	11 04N 08W	--	Knox	64.22 ac	38.793511, -87.262481

SOIL TESTS

Tracts 11-14

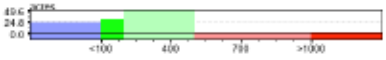
FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers | **Farm:** Robert Summers and Sons | **Field:** 17656 Home Place | **Zone:** Not Specified | **Area:** 64.2 | **Sample Date:** 2023-11-30

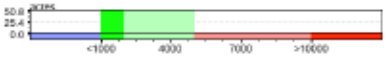
Magnesium (Mg) lbs/ac

Min: 32.0 **Max:** 494.0 **Avg:** 211.9



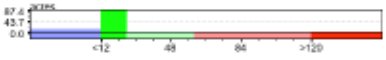
Calcium (Ca) lbs/ac

Min: 1042 **Max:** 4410 **Avg:** 2158



Sulfur (S) lbs/ac

Min: 10.0 **Max:** 24.0 **Avg:** 15.1



Cation Exchange Capacity (CEC)

Min: 3.1 **Max:** 15.6 **Avg:** 7.4

Summers

Soil Test Report

2021

Robert Summers & Sons

#17955 Knox County Akitson's

98.5A sec26 VIGO

SOIL TESTS

Tract 16

FieldAlytics™
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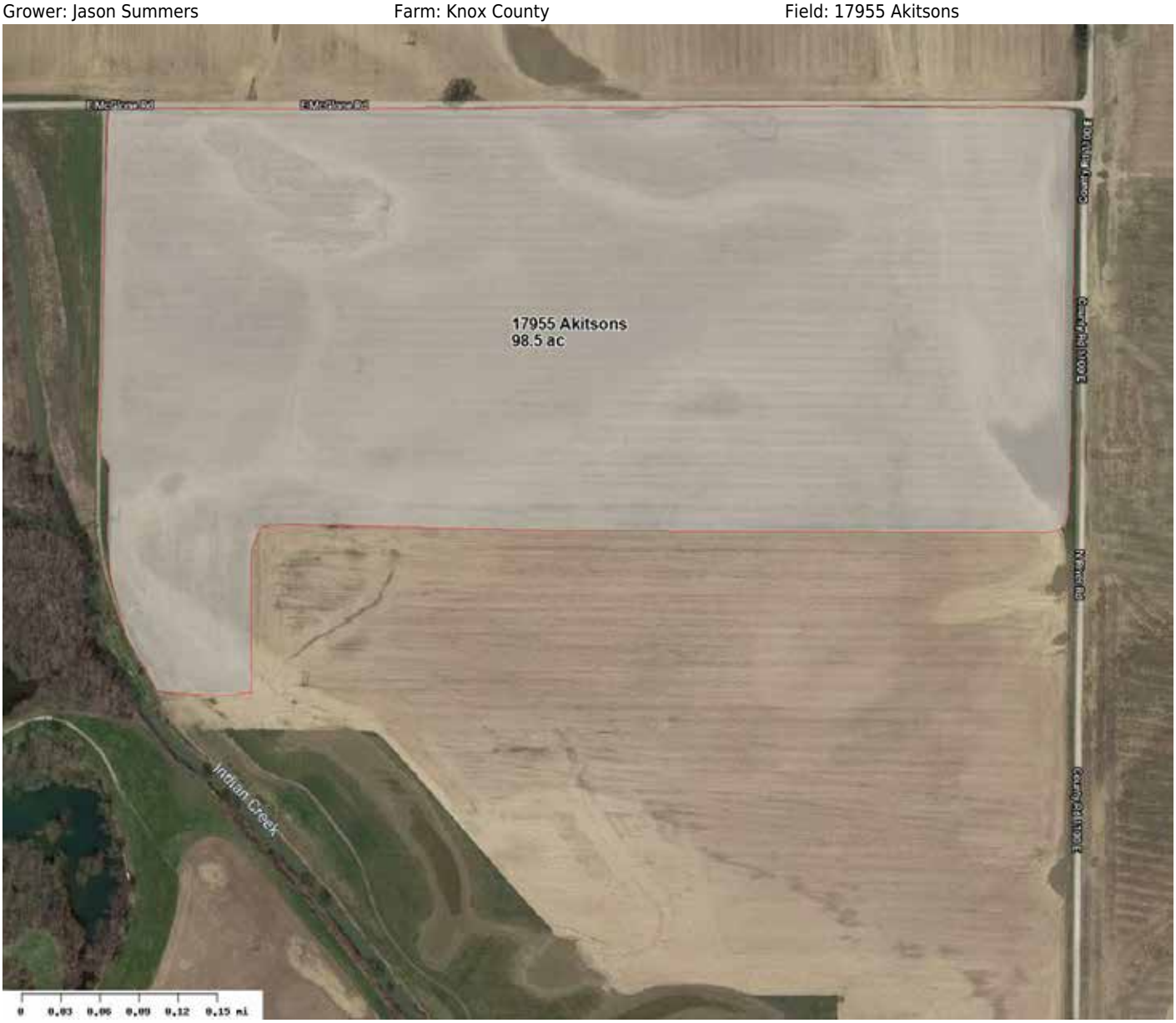
Quick Map

Grower: Jason Summers | Farm: Knox County | Field: 17955 Akitsons



	Label	Area
	White	98.46

Notes:

SOIL TESTS

Tract 16

FieldAlytics™
empowering decisions

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Knox County	17955 Akitsons	98.46 acres	38.756083, -87.264648

	Min	Max	Avg
P	18.7	219.0	60.9
K	250.7	365.8	320.6
Mg	639.0	1360	933.7
Ca	4116	6694	5479
S	31.9	50.5	40.6
B	0.3	49.7	17.8
Cu	4.2	18.5	7.6
Fe	540.5	1162	696.3
Mn	289.5	720.4	492.7
Zn	4.0	38.1	8.4
pH	5.6	7.2	6.1
bpH	6.32	7.00	6.70
OM	2.5	2.5	2.5
CEC	15.9	26.8	21.6

Sample Date	Soil Lab
2021-12-09	Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	46.3	300.9	908.0	4750	36.6	19.5	6.0	710.4	640.4	5.9	6.3	6.99	2.5	16.2
2	37.1	331.9	792.9	4685	36.3	21.4	5.6	552.4	531.3	5.5	6.0	6.70	2.5	19.0
3	46.9	318.2	717.1	4547	37.7	27.6	5.5	601.9	413.0	5.1	5.8	6.45	2.5	21.4
4	32.6	287.3	639.0	4290	34.7	0.3	5.5	602.8	361.8	4.5	5.7	6.37	2.5	21.3
5	26.7	287.0	644.3	4141	38.9	2.2	4.7	540.5	401.4	4.0	5.6	6.32	2.5	21.6
6	41.5	294.4	698.7	4116	39.3	4.6	4.8	660.3	559.2	5.2	5.7	6.42	2.5	20.5
7	69.7	342.9	950.5	5473	39.7	32.0	6.8	678.6	466.8	7.9	5.9	6.61	2.5	22.8
8	33.8	290.0	971.0	5443	44.3	2.3	5.3	590.5	512.4	6.0	6.0	6.68	2.5	21.9
9	51.0	269.4	857.0	4681	35.3	24.6	6.0	848.0	289.5	9.5	6.3	6.98	2.5	15.9
10	32.3	253.8	714.2	4379	41.5	14.9	5.0	597.9	441.7	5.2	5.8	6.52	2.5	20.0
11	49.3	314.7	906.2	5051	38.9	26.6	6.0	721.3	526.4	6.8	5.9	6.60	2.5	21.6

SOIL TESTS

Tract 16

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
12	66.5	349.2	943.3	5671	38.9	27.2	7.3	769.9	441.1	8.1	6.0	6.73	2.5	21.8
13	51.1	348.9	1092	6694	46.5	36.4	8.6	681.4	499.6	9.1	6.0	6.69	2.5	25.5
14	83.8	352.6	1012	6257	42.6	25.6	8.4	741.7	444.5	9.1	6.1	6.79	2.5	22.8
15	62.9	337.2	981.2	5986	38.0	17.7	7.9	734.7	461.7	9.0	6.0	6.65	2.5	23.7
16	56.3	356.6	1018	6332	49.7	25.2	8.2	687.0	510.1	9.4	6.2	6.86	2.5	22.2
17	18.7	250.7	725.0	4243	40.6	11.7	4.2	554.0	460.4	4.1	5.7	6.41	2.5	21.0
18	46.2	272.9	841.6	5362	33.0	18.2	7.0	665.0	455.1	7.1	6.1	6.79	2.5	19.8
19	35.1	281.3	911.8	5169	36.8	7.5	6.0	545.2	600.6	6.6	6.1	6.80	2.5	19.5
20	98.8	316.6	1360	6419	38.8	49.7	9.3	771.5	691.8	9.7	7.0	7.00	2.5	22.1
21	73.3	320.6	1348	6222	41.6	14.1	8.3	662.8	720.4	8.9	7.2	7.00	2.5	21.6
22	52.6	279.5	826.1	4608	31.9	12.5	5.3	603.3	573.8	5.9	6.2	6.88	2.5	16.8
23	50.1	365.8	1111	6411	46.8	11.2	7.8	626.0	574.6	8.2	6.3	6.97	2.5	21.5
24	39.7	325.9	1013	6098	42.9	21.5	8.1	633.4	528.4	8.0	6.0	6.72	2.5	23.2
25	39.3	330.3	1057	6646	45.1	3.5	8.4	634.3	482.4	7.9	5.8	6.55	2.5	26.8
26	80.8	365.5	976.7	5932	44.6	12.5	7.8	849.5	379.0	8.5	6.0	6.75	2.5	22.4
27	45.0	329.4	979.9	6125	43.1	20.6	18.5	719.8	511.0	8.4	6.0	6.68	2.5	23.7
28	54.2	354.8	924.2	5605	33.3	17.5	8.1	806.4	452.7	8.2	6.0	6.73	2.5	21.6
29	52.2	336.6	925.1	5670	50.5	29.8	7.3	709.4	407.5	7.0	5.8	6.50	2.5	24.5
30	50.4	312.2	795.2	4908	39.4	2.7	6.5	671.9	423.9	6.6	5.8	6.47	2.5	22.3
31	71.2	355.4	788.6	4563	39.0	2.8	6.8	1162	338.8	6.8	5.8	6.53	2.5	20.8
32	77.1	345.2	1010	6304	45.1	9.7	8.2	773.2	401.1	11.0	6.1	6.80	2.5	22.8
33	63.5	316.9	968.1	5632	47.3	8.0	7.7	650.9	479.8	8.8	6.0	6.71	2.5	22.0
34	57.3	336.6	985.2	6176	42.1	24.4	8.0	684.0	532.8	8.4	6.0	6.67	2.5	23.9
35	73.7	348.6	986.4	6203	42.9	29.3	8.1	672.1	510.4	8.7	5.9	6.59	2.5	25.0
36	65.0	324.4	992.5	6446	43.5	0.7	8.4	663.1	521.4	8.8	6.0	6.72	2.5	24.0
37	219.0	327.3	820.1	5321	36.8	33.9	17.9	820.1	464.8	38.1	6.3	6.99	2.5	17.3
38	162.7	352.0	1283	5648	37.4	27.8	8.7	862.3	711.6	11.4	7.1	7.00	2.5	19.9

SOIL TESTS

Tract 16

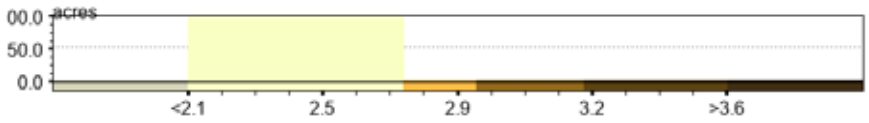
FieldAlytics™
empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Knox County **Field:** 17955 Akitsons **Zone:** Not Specified **Area:** 98.5 **Sample Date:** 2021-12-09

Organic Matter (OM) %

Min: 2.5 **Max:** 2.5 **Avg:** 2.5



SOIL TESTS

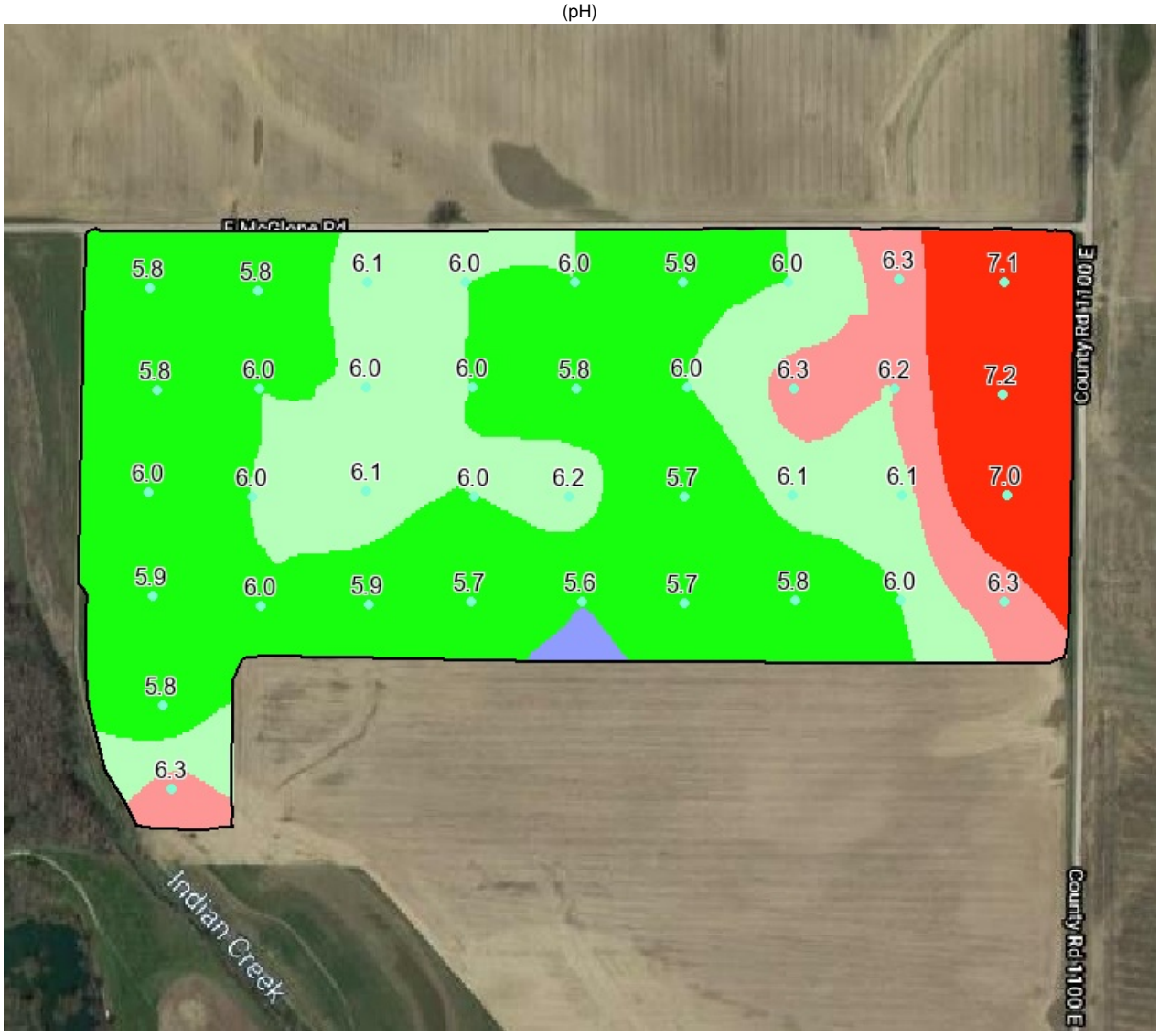
Tract 16

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Knox County **Field:** 17955 Akitsons **Zone:** Not Specified **Area:** 98.5 **Sample Date:** 2021-12-09

(pH)



Min: 5.6 **Max:** 7.2 **Avg:** 6.1

(pH)	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	0.66	0.67
5.6-6.0	Low	53.35	54.10
6.0-6.2	Optimal	25.7	26.1
6.2-6.5	High	8.45	8.58
6.5-8	Very High	10.31	10.47

SOIL TESTS

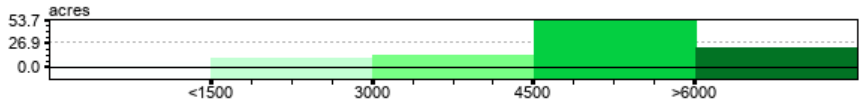
Tract 16

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Knox County** **Field(s): 17955 Akitsons**

Lime - Fertilizer Application (lbs/ac)



Equation Variables

Target pH: 6.5

Lab:	Agricultural Soil Management	Multiplier:	N/A	Total Area:	98.61 ac
Custom Eq:	L 5	Subtract:	N/A	Total Product:	452971.9 lbs
Commodity:	Corn-Soybeans	Min Application Rate:	1000.0 lbs/ac	Total Product Bulk:	226.49 ton
Sample Date:	2021-12-09	Max Application Rate:	6000.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Max Rate:	6000.0 lbs/ac	Avg Application Rate:	4870.37 lbs/ac	Total Product Price:	$0.0
Min Rate:	1000.0 lbs/ac	Application Area:	93.01 ac	Application Cost / Area:	$0.0/ac
Switch Rate:	500.0 lbs/ac	Average Field Rate:	4593.36 lbs/ac	Total Application Cost:	$0.0
				Total Cost:	$0.0

Tract 16

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Knox County
Field(s): 17955 Akitsons

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000.0 lbs/ac	1000.0 lbs/ac	0.00	500.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	452971.90 (lbs)	226.49 ton	93.01	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17955 Akitsons	26 04N 08W	--	Knox	98.46 ac	38.756083, -87.264648

SOIL TESTS

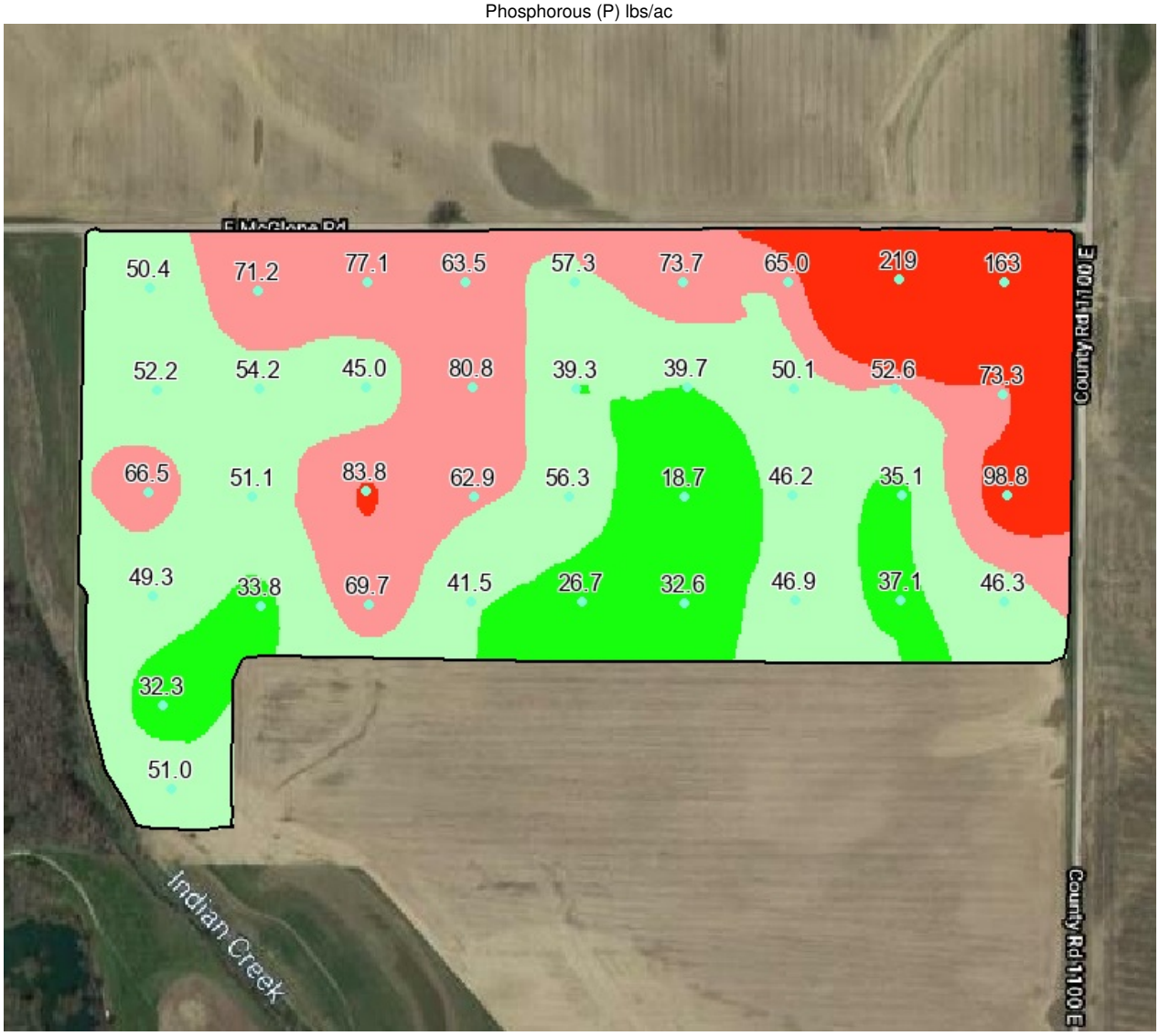
Tract 16

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Knox County **Field:** 17955 Akitsons **Zone:** Not Specified **Area:** 98.5 **Sample Date:** 2021-12-09

Phosphorous (P) lbs/ac



Min: 18.7 **Max:** 219.0 **Avg:** 60.9

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 20	Very Low	0.01	0.01
20 - 40	Low	15.8	16.05
40- 60	Optimal	45.59	46.3
60- 80	High	25.64	26.04
80-1000	Very High	11.44	11.62

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

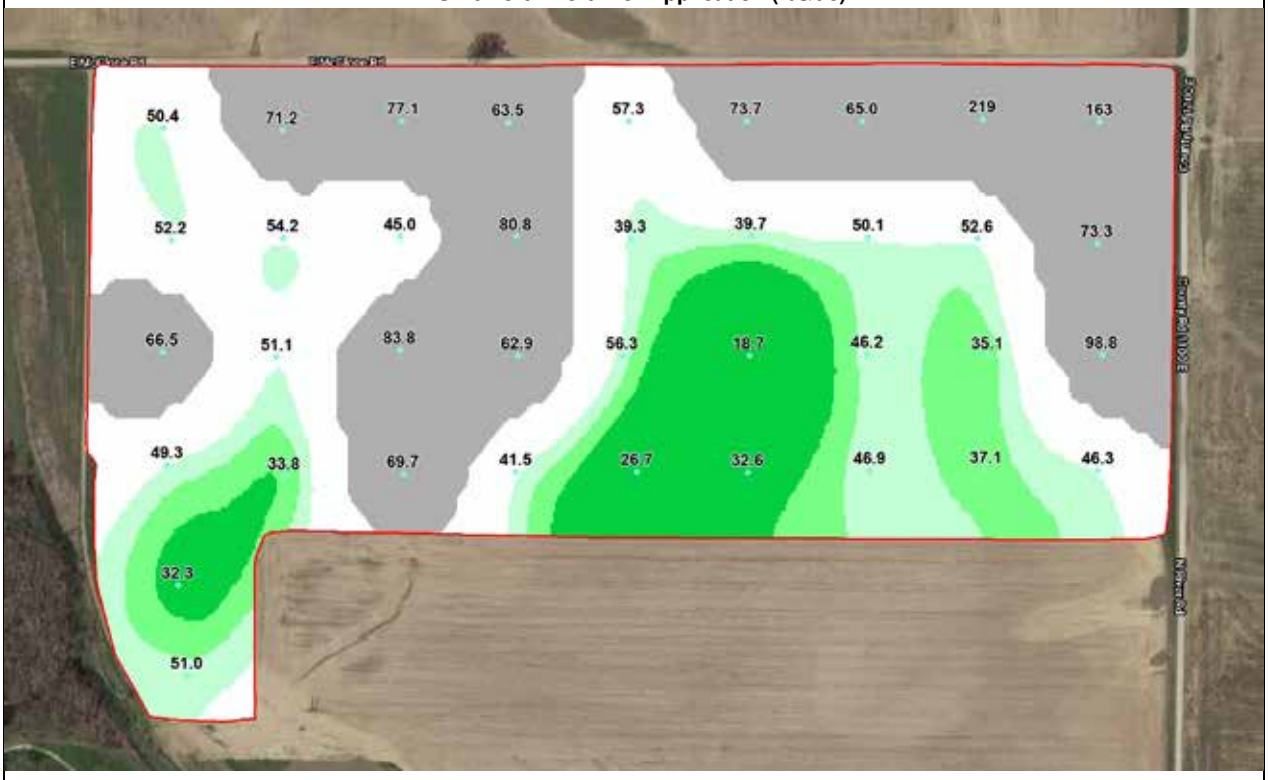
Tract 16

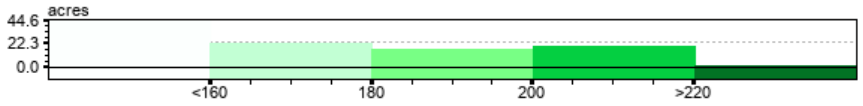
FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Knox County** **Field(s): 17955 Akitsons**

TSP 0-45-0 - Fertilizer Application (lbs/ac)





Equation Variables

Lab:	Agricultural Soil Management	Multiplier:	0.7	Total Area:	98.61 ac
Custom Eq:	P 4 Summers	Subtract:	N/A	Total Product:	10415.99 lbs
Commodity:	Corn-Soybeans	Min Application Rate:	140.0 lbs/ac	Total Product Bulk:	5.21 ton
Sample Date:	2021-12-09	Max Application Rate:	210.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Max Rate:	210.0 lbs/ac	Avg Application Rate:	169.0 lbs/ac	Total Product Price:	$0.0
Min Rate:	140.0 lbs/ac	Application Area:	61.63 ac	Application Cost / Area:	$0.0/ac
Switch Rate:	90.0 lbs/ac	Average Field Rate:	105.62 lbs/ac	Total Application Cost:	$0.0
				Total Cost:	$0.0

Tract 16

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Knox County
Field(s): 17955 Akitsons

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	70.0	210.0 lbs/ac	140.0 lbs/ac	0.00	90.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	10415.99 (lbs)	5.21 ton	61.63	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17955 Akitsons	26 04N 08W	--	Knox	98.46 ac	38.756083, -87.264648

SOIL TESTS

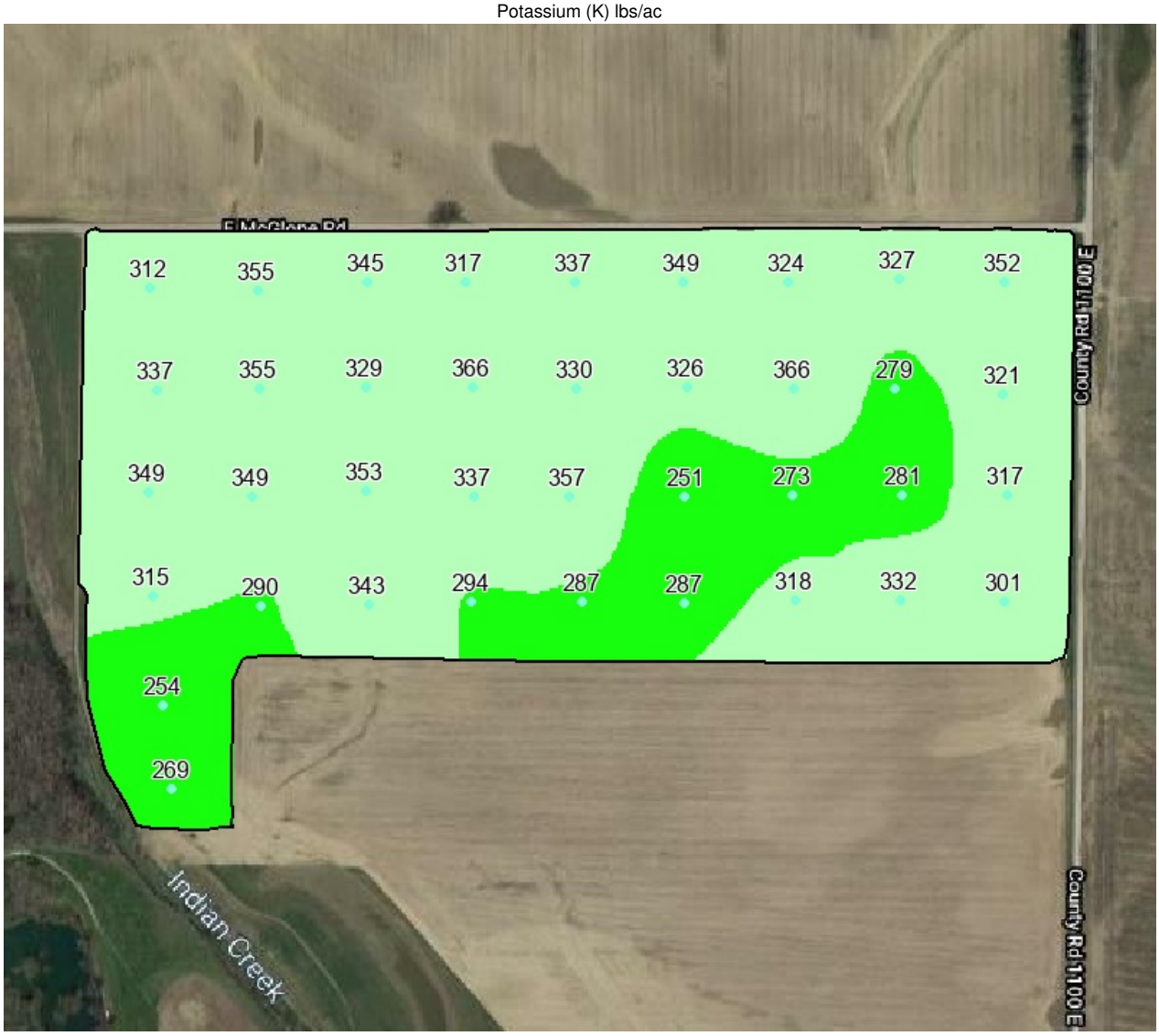
Tract 16

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Knox County **Field:** 17955 Akitsons **Zone:** Not Specified **Area:** 98.5 **Sample Date:** 2021-12-09

Potassium (K) lbs/ac



Min: 250.7 **Max:** 365.8 **Avg:** 320.6

	Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
	0- 200	Very Low	0.0	0.0
	200 - 300	Low	21.25	21.58
	300- 400	Optimal	77.21	78.42
	400- 500	High	0.0	0.0
	500-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

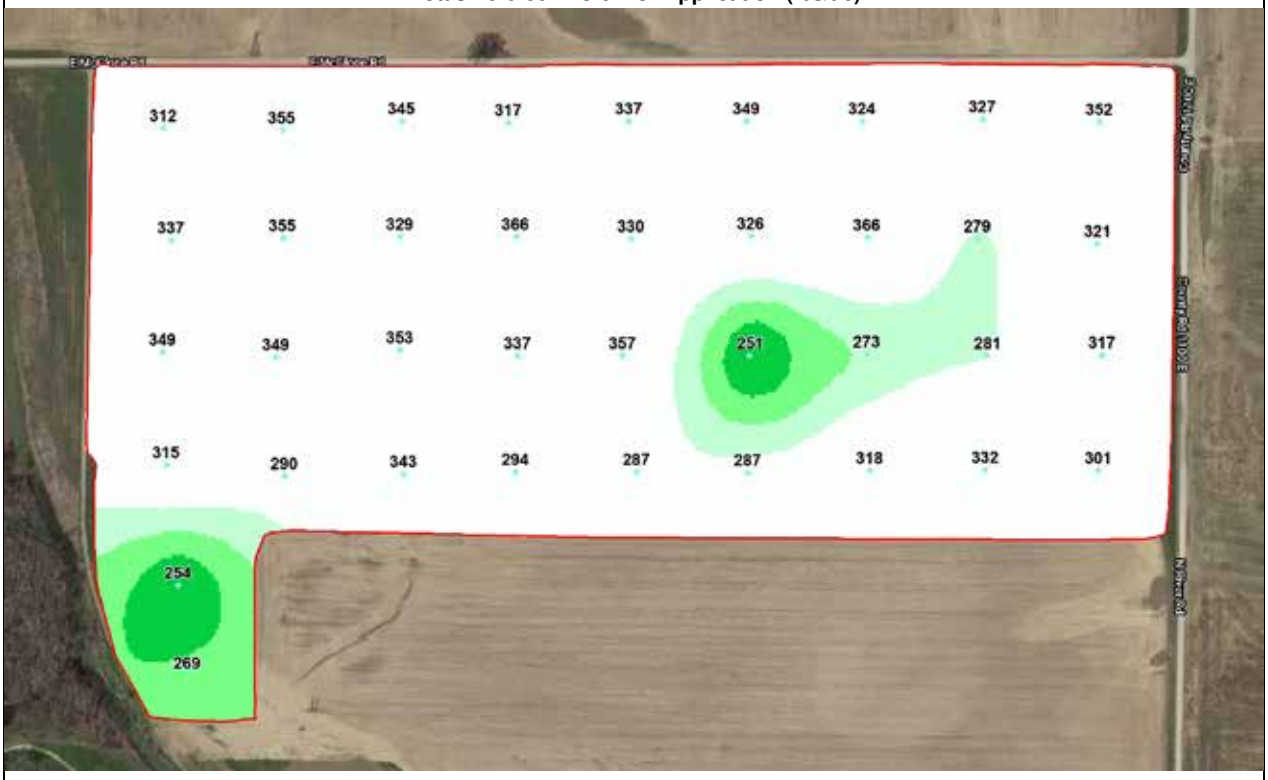
Tract 16

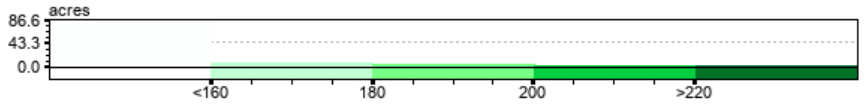
FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm: Knox County** **Field(s): 17955 Akitsons**

Potash 0-0-60 - Fertilizer Application (lbs/ac)





Equation Variables

Lab:	Agricultural Soil Management	Multiplier:	0.7	Total Area:	98.61 ac
Custom Eq:	K 01 Summers	Subtract:	N/A	Total Product:	14480.03 lbs
Commodity:	Corn-Soybeans	Min Application Rate:	140.0 lbs/ac	Total Product Bulk:	7.24 ton
Sample Date:	2021-12-09	Max Application Rate:	210.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Max Rate:	210.0 lbs/ac	Avg Application Rate:	146.83 lbs/ac	Total Product Price:	$0.0
Min Rate:	140.0 lbs/ac	Application Area:	98.61 ac	Application Cost / Area:	$0.0/ac
Switch Rate:	90.0 lbs/ac	Average Field Rate:	146.83 lbs/ac	Total Application Cost:	$0.0
				Total Cost:	$0.0

Tract 16

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm: Knox County
Field(s): 17955 Akitsons

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	70.0	210.0 lbs/ac	140.0 lbs/ac	0.00	90.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	14480.03 (lbs)	7.24 ton	98.61	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
17955 Akitsons	26 04N 08W	--	Knox	98.46 ac	38.756083, -87.264648

SOIL TESTS

Tract 16

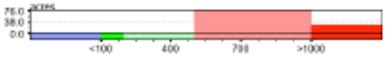
FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Knox County **Field:** 17955 Akitsons **Zone:** Not Specified **Area:** 98.5 **Sample Date:** 2021-12-09

Magnesium (Mg) lbs/ac

Min: 639.0 **Max:** 1360 **Avg:** 933.7



Calcium (Ca) lbs/ac

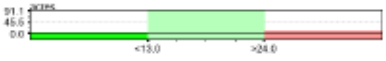
Min: 4116 **Max:** 6694 **Avg:** 5479

Sulfur (S) lbs/ac

Min: 31.9 **Max:** 50.5 **Avg:** 40.6

Cation Exchange Capacity (CEC)

Min: 15.9 **Max:** 26.8 **Avg:** 21.6



Summers
Soil Test Report
2023

Summers Farms
#19040 Grover's
80.1A sec36 VIGO

SOIL TESTS

Tract 17

FieldAlytics™
empowering decisions

Quick Map Report

Grower: Jason Summers **Farm:** Summers **Field:** 19040 Grovers

LEGEND

Label	Area
No Selection	80.1 ac

SOIL TESTS

Tract 17

FieldAlytics™
empowering decisions

Location	Grower	Farm	Field	Area	Centroid
ASM	Jason Summers	Summers	19040 Grovers	80.11 acres	38.73886, -87.256789

	Min	Max	Avg
P	22.0	128.0	62.7
K	134.0	266.0	199.6
Mg	442.0	1042	746.7
Ca	3862	7976	5642
Na	22.0	44.0	30.9
S	10.0	22.0	13.5
B	1.6	2.6	2.1
Cu	5.8	9.4	7.6
Fe	348.0	626.0	446.1
Mn	354.0	600.0	507.6
Zn	5.6	11.2	8.1
pH	7.4	7.8	7.6
bpH	6.93	6.93	6.93
OM	2.0	4.0	2.8
CEC	12.4	23.2	17.5

Sample Date	Soil Lab
2023-11-30	Agricultural Soil Management

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
1	50.0	200.0	884.0	5114	32.0	14.0	2.2	7.6	418.0	574.0	8.0	7.7	6.93	3.0	16.8
2	74.0	206.0	868.0	5080	32.0	12.0	2.4	8.2	488.0	530.0	8.6	7.6	6.93	2.5	16.7
3	40.0	236.0	1042	6152	42.0	12.0	2.4	8.2	410.0	578.0	10.4	7.8	6.93	2.5	20.1
4	64.0	212.0	886.0	5600	32.0	14.0	2.4	8.6	440.0	550.0	8.8	7.7	6.93	2.5	18.0
5	30.0	154.0	770.0	3942	24.0	10.0	1.8	6.0	380.0	504.0	5.8	7.8	6.93	2.0	13.3
6	22.0	142.0	698.0	4040	22.0	10.0	1.8	6.2	384.0	482.0	5.6	7.6	6.93	2.0	13.2
7	32.0	158.0	776.0	4360	24.0	10.0	2.0	6.4	360.0	540.0	6.2	7.7	6.93	2.5	14.4
8	56.0	180.0	758.0	4988	36.0	12.0	2.2	7.0	404.0	512.0	7.2	7.7	6.93	3.0	15.9
9	40.0	188.0	854.0	5548	36.0	12.0	2.0	7.2	358.0	582.0	7.0	7.7	6.93	3.0	17.7
10	64.0	188.0	742.0	5520	36.0	14.0	2.0	7.8	494.0	546.0	8.2	7.6	6.93	2.0	17.2
11	38.0	158.0	680.0	4428	28.0	12.0	1.8	6.8	440.0	544.0	6.8	7.5	6.93	2.0	14.2

SOIL TESTS

Tract 17

FieldAlytics™
empowering decisions

ID	P lbs/ac	K lbs/ac	Mg lbs/ac	Ca lbs/ac	Na lbs/ac	S lbs/ac	B lbs/ac	Cu lbs/ac	Fe lbs/ac	Mn lbs/ac	Zn lbs/ac	pH	bpH	OM %	CEC meq
12	46.0	162.0	666.0	4552	28.0	12.0	1.8	7.0	428.0	498.0	7.6	7.7	6.93	2.0	14.4
13	36.0	134.0	598.0	3862	24.0	12.0	1.6	5.8	426.0	454.0	6.0	7.6	6.93	2.0	12.4
14	38.0	146.0	554.0	5512	24.0	14.0	2.0	7.0	456.0	486.0	7.4	7.8	6.93	2.5	16.3
15	100.0	176.0	442.0	6076	22.0	14.0	1.8	6.6	626.0	354.0	7.6	7.7	6.93	2.0	17.3
16	92.0	206.0	600.0	5422	22.0	12.0	1.8	7.2	532.0	414.0	8.0	7.6	6.93	3.0	16.4
17	58.0	230.0	778.0	6104	38.0	12.0	2.2	8.2	436.0	554.0	8.2	7.5	6.93	2.5	18.9
18	96.0	252.0	808.0	5886	32.0	12.0	2.4	8.4	466.0	562.0	8.8	7.7	6.93	3.0	18.5
19	66.0	210.0	816.0	5790	40.0	14.0	2.4	7.6	416.0	568.0	7.8	7.4	6.93	4.0	18.2
20	62.0	218.0	776.0	6028	40.0	12.0	2.4	8.2	450.0	558.0	8.6	7.8	6.93	3.0	18.7
21	64.0	220.0	820.0	5856	36.0	14.0	2.4	8.0	416.0	536.0	8.4	7.6	6.93	3.5	18.4
22	56.0	200.0	650.0	6028	30.0	14.0	2.2	7.4	458.0	510.0	8.8	7.7	6.93	3.0	18.1
23	64.0	150.0	448.0	5420	22.0	14.0	1.6	6.2	504.0	412.0	7.0	7.8	6.93	2.0	15.7
24	30.0	184.0	696.0	4904	38.0	12.0	2.2	7.2	368.0	526.0	6.6	7.6	6.93	3.0	15.5
25	22.0	196.0	908.0	5692	44.0	12.0	2.2	8.0	348.0	600.0	6.4	7.7	6.93	3.0	18.4
26	114.0	232.0	756.0	7872	36.0	18.0	2.4	9.0	618.0	374.0	10.0	7.7	6.93	3.0	23.2
27	128.0	252.0	632.0	7976	30.0	22.0	2.2	8.6	546.0	412.0	11.2	7.7	6.93	3.0	23.0
28	86.0	196.0	526.0	7730	30.0	18.0	2.0	7.6	510.0	432.0	9.6	7.5	6.93	3.0	21.8
29	80.0	230.0	682.0	6848	30.0	18.0	2.2	8.6	492.0	506.0	9.4	7.7	6.93	3.0	20.3
30	82.0	266.0	1032	6194	30.0	16.0	2.6	9.4	434.0	530.0	10.0	7.5	6.93	3.0	20.2
31	82.0	242.0	920.0	5882	24.0	12.0	2.2	8.2	396.0	520.0	9.0	7.5	6.93	3.5	18.9
32	70.0	238.0	868.0	5814	28.0	14.0	2.2	8.0	392.0	516.0	9.0	7.6	6.93	3.5	18.5
33	88.0	226.0	708.0	5988	28.0	14.0	2.0	7.6	428.0	488.0	9.2	7.5	6.93	3.5	18.3

SOIL TESTS

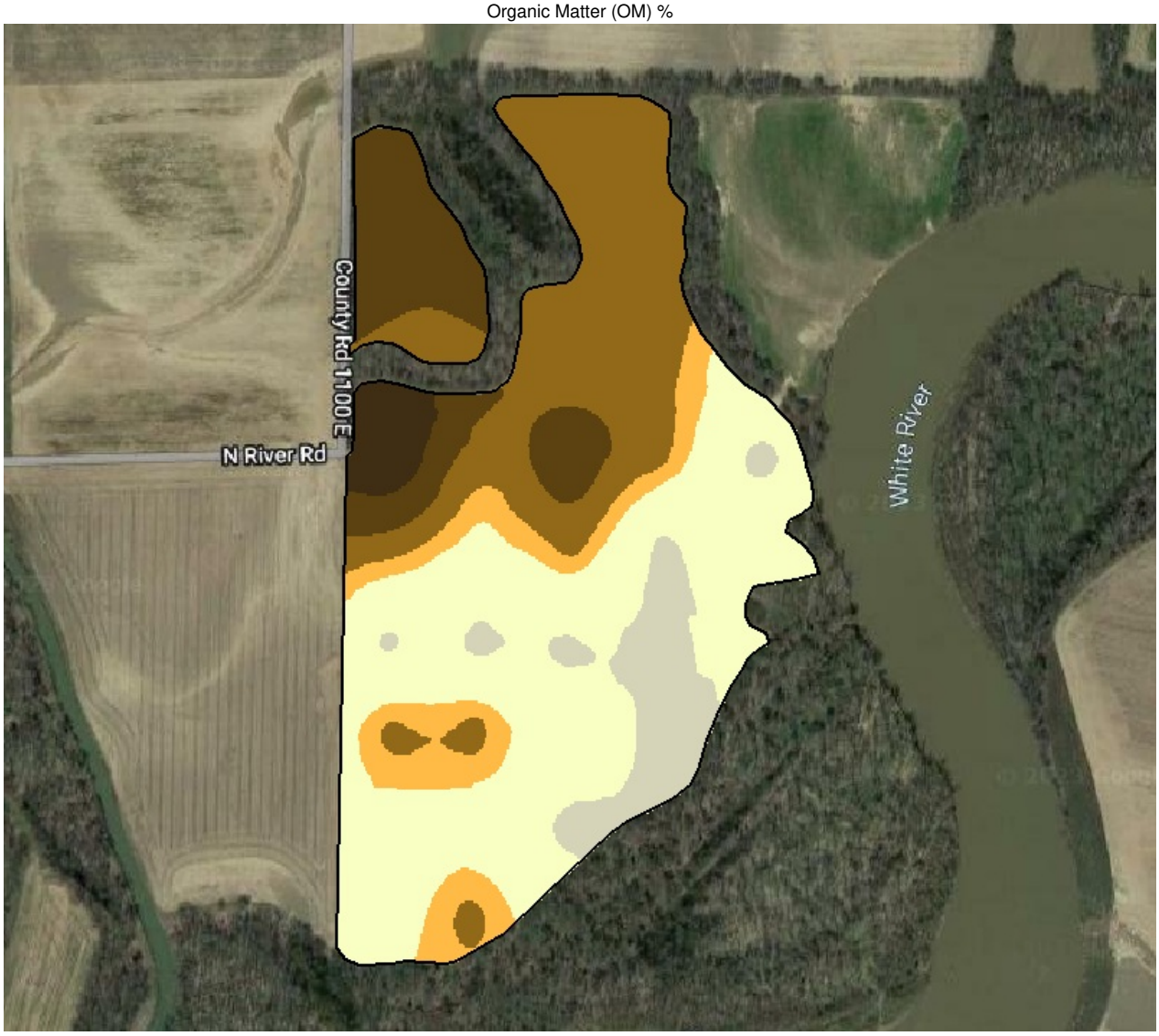
Tract 17

FieldAlytics™ empowering decisions

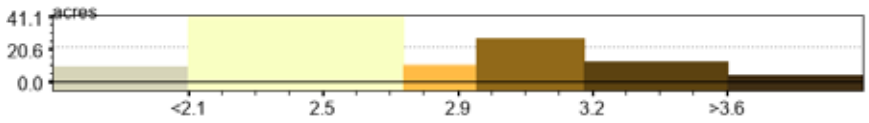
Elemental Field Sample Report

Grower: Jason Summers **Farm:** Summers **Field:** 19040 Grovers **Zone:** Not Specified **Area:** 80.1 **Sample Date:** 2023-11-30

Organic Matter (OM) %



Min: 2.0 **Max:** 4.0 **Avg:** 2.8



SOIL TESTS

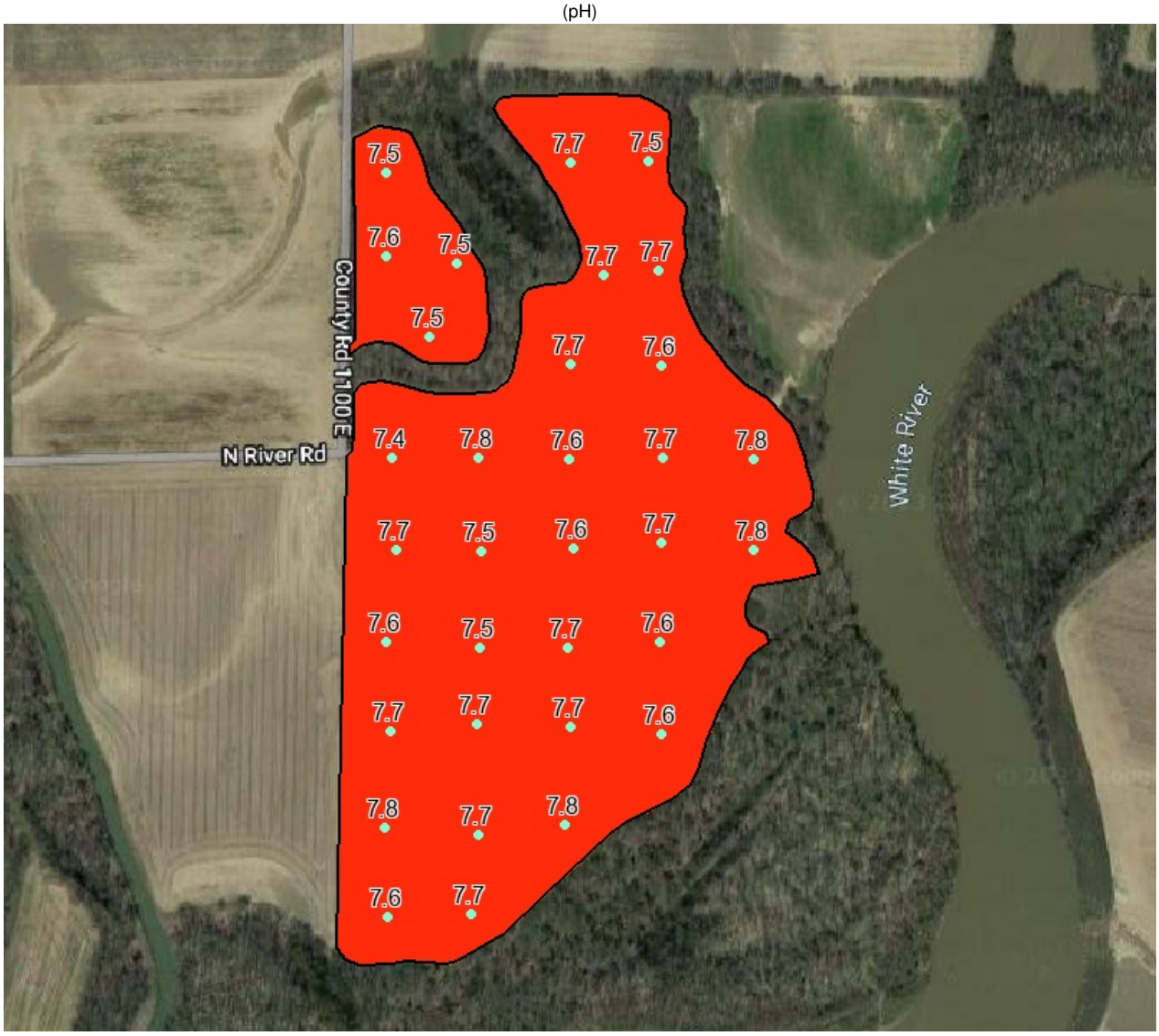
Tract 17

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Summers **Field:** 19040 Grovers **Zone:** Not Specified **Area:** 80.1 **Sample Date:** 2023-11-30

(pH)



Min: 7.4 **Max:** 7.8 **Avg:** 7.6

(pH)	Soil Levels	Area (ac)	Percent Acres
4.5-5.6	Very Low	0.0	0.0
5.6-6.0	Low	0.0	0.0
6.0-6.2	Optimal	0.0	0.0
6.2-6.5	High	0.0	0.0
6.5-8	Very High	80.11	100.0

SOIL TESTS

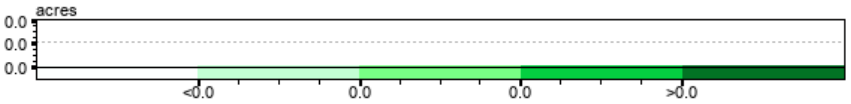
Tract 17

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm(s): Summers** **Field(s): 19040 Grovers**

Lime - Fertilizer Application (lbs/ac)



Equation Variables

Target pH: 6.5

Lab:	Agricultural Soil Management	Switch Rate:	500 lbs/ac	Total Area:	80.29 ac
Custom Eq:	L 5	Rate Multiplier:	N/A	Total Product:	0.0 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	0.00 ton
Sample Date:	2023-11-30	Min Application Rate:	0.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	N/A	Max Application Rate:	0.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	0.0 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	6000 lbs/ac	Application Area:	0.0 ac	Total Application Cost:	$0.0
Min Rate:	1000 lbs/ac	Average Field Rate:	0.00 lbs/ac	Total Cost:	$0.0

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm(s): Summers
Field(s): 19040 Grovers

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime	100	6000 lbs/ac	1000 lbs/ac	0.00	500 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime	0.00 (lbs)	0.00 ton	0.00	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
19040 Grovers	36 04N 08W	--	Knox	80.11 ac	38.738860, -87.256789

SOIL TESTS

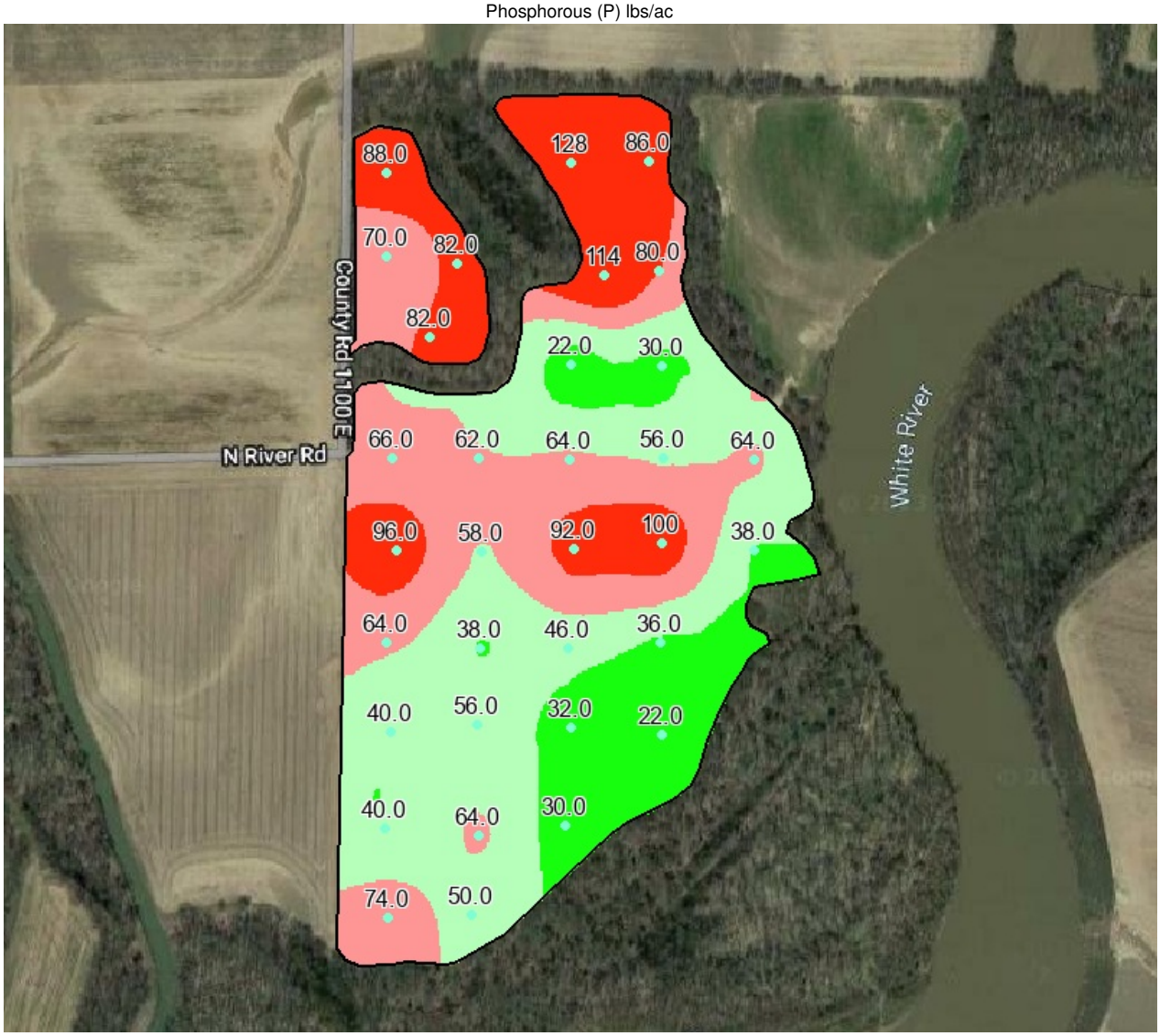
Tract 17

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Summers **Field:** 19040 Grovers **Zone:** Not Specified **Area:** 80.1 **Sample Date:** 2023-11-30

Phosphorous (P) lbs/ac



Min: 22.0 **Max:** 128.0 **Avg:** 62.7

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 20	Very Low	0.0	0.0
20 - 40	Low	12.54	15.65
40- 60	Optimal	30.58	38.17
60- 80	High	21.57	26.92
80-1000	Very High	15.42	19.25

Phosphorus (P) One of three primary nutrients, phosphorus is essential for plant growth, and a plant must access it to complete its normal production cycle. Plants absorb P from the soil as primary and secondary ortho-phosphates (H2PO4- and HPO42-).

SOIL TESTS

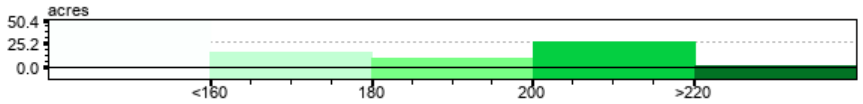
Tract 17

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm(s): Summers** **Field(s): 19040 Grovers**

TSP 0-45-0 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	80.29 ac
Custom Eq:	P 4 Summers	Rate Multiplier:	N/A	Total Product:	6814.31 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	3.41 ton
Sample Date:	2023-11-30	Min Application Rate:	140.0 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	168.54 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	40.43 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	84.87 lbs/ac	Total Cost:	$0.0

Tract 17

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm(s): Summers
Field(s): 19040 Grovers

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
TSP 0-45-0	6814.31 (lbs)	3.41 ton	40.43	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
19040 Grovers	36 04N 08W	--	Knox	80.11 ac	38.738860, -87.256789

SOIL TESTS

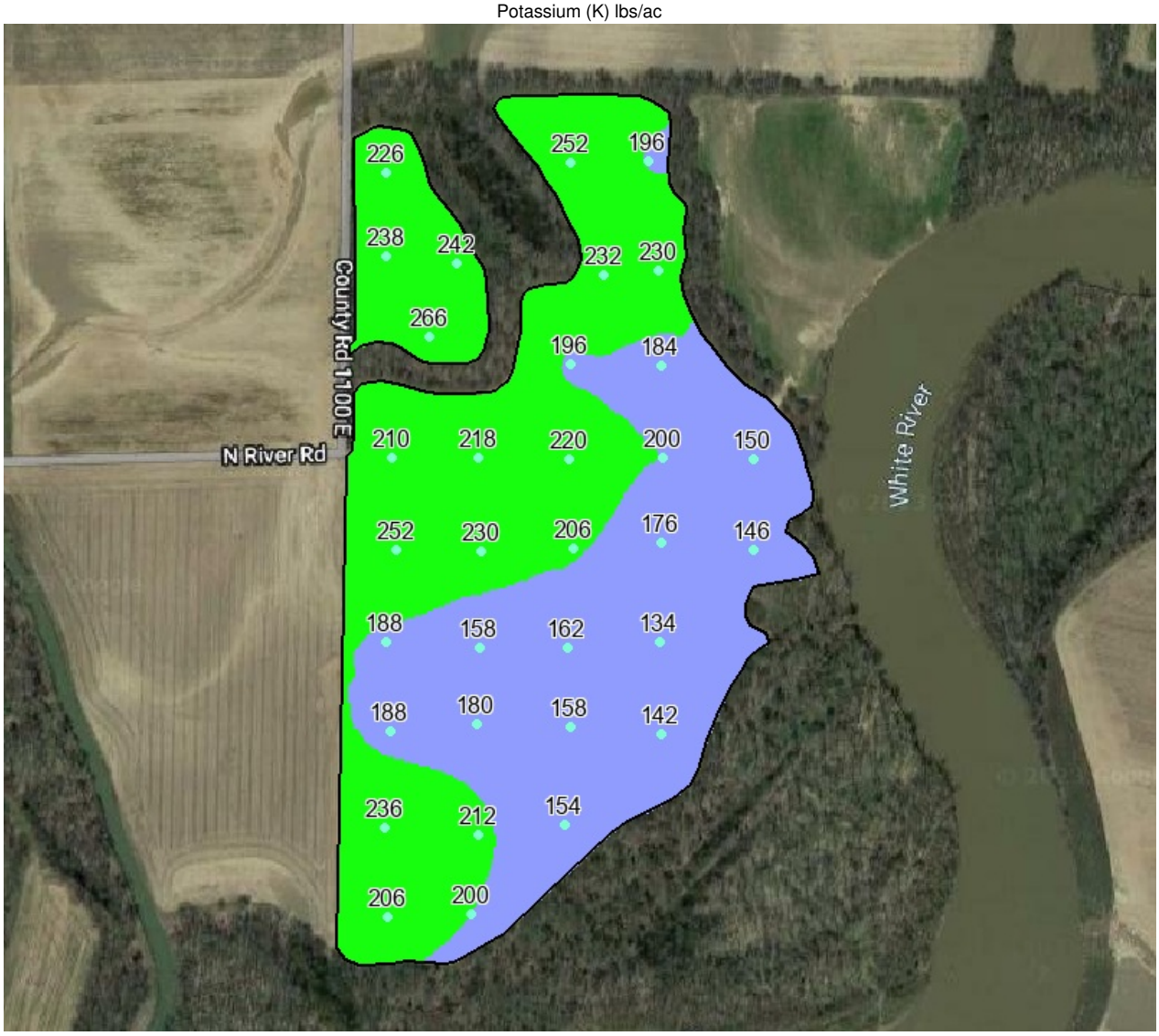
Tract 17

FieldAlytics™ empowering decisions

Elemental Field Sample Report

Grower: Jason Summers **Farm:** Summers **Field:** 19040 Grovers **Zone:** Not Specified **Area:** 80.1 **Sample Date:** 2023-11-30

Potassium (K) lbs/ac



Min: 134.0 **Max:** 266.0 **Avg:** 199.6

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 200	Very Low	38.18	47.68
200 - 300	Low	41.94	52.35
300- 400	Optimal	0.0	0.0
400- 500	High	0.0	0.0
500-1200	Very High	0.0	0.0

Potassium (K) is one of the essential nutrients and is taken up in significant amounts by crops. Potassium is vital to photosynthesis, protein synthesis and many other functions in plants. It is classified as a macro-nutrient, as are nitrogen (N) and phosphorus (P). Plants take up K in its ionic form (K+).

SOIL TESTS

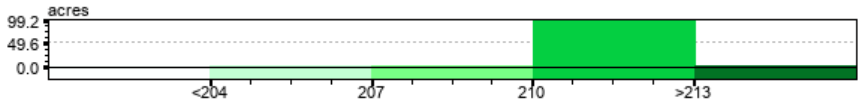
Tract 17

FieldAlytics™ empowering decisions

Soil Fertility

Grower: Jason Summers **Farm(s): Summers** **Field(s): 19040 Grovers**

Potash 0-0-60 - Fertilizer Application (lbs/ac)



Equation Variables

Lab:	Agricultural Soil Management	Switch Rate:	90 lbs/ac	Total Area:	80.29 ac
Custom Eq:	K 01 Summers	Rate Multiplier:	N/A	Total Product:	16858.99 lbs
Commodity:	Corn-Soybeans	Rate Subtract:	N/A	Total Product Bulk:	8.43 ton
Sample Date:	2023-11-30	Min Application Rate:	201.43 lbs/ac	Product Cost / Bulk:	$0.0/ton
Rec Multiplier:	0.7	Max Application Rate:	210.0 lbs/ac	Total Product Price:	$0.0
Rec Subtract:	N/A	Avg Application Rate:	209.97 lbs/ac	Application Cost / Area:	$0.0/ac
Max Rate:	210 lbs/ac	Application Area:	80.29 ac	Total Application Cost:	$0.0
Min Rate:	140 lbs/ac	Average Field Rate:	209.97 lbs/ac	Total Cost:	$0.0

Tract 17

FieldAlytics™ empowering decisions

Soil Fertility

Fertilizer Application Summary

Grower: Jason Summers
Farm(s): Summers
Field(s): 19040 Grovers

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	70.0	210 lbs/ac	140 lbs/ac	0.00	90 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Potash 0-0-60	16858.99 (lbs)	8.43 ton	80.29	$0.0/ton	$0.0	$0.0/ac
Application				$0.0 /ac	$0.0	$0.0/ac
Totals					$0.00	$0.0/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
19040 Grovers	36 04N 08W	--	Knox	80.11 ac	38.738860, -87.256789

SOIL TESTS

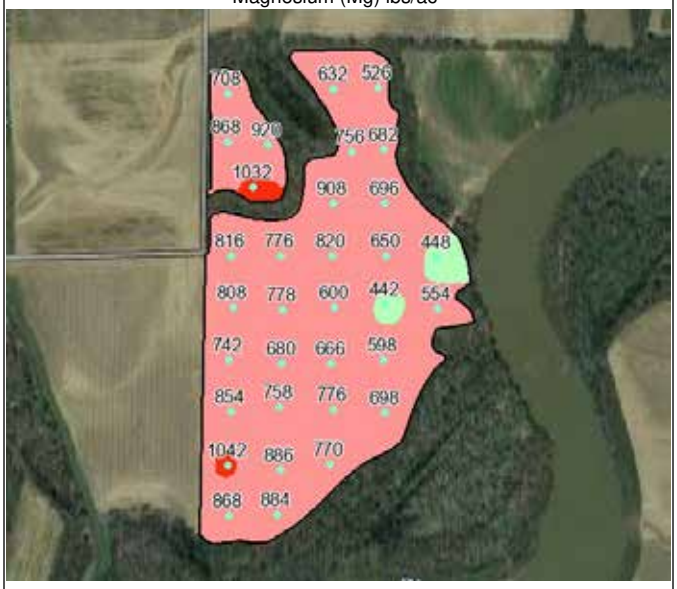
Tract 17

FieldAlytics™
empowering decisions

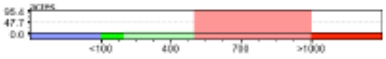
Elemental Field Sample Report

Grower: Jason Summers **Farm:** Summers **Field:** 19040 Grovers **Zone:** Not Specified **Area:** 80.1 **Sample Date:** 2023-11-30

Magnesium (Mg) lbs/ac

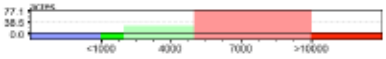


Min: 442.0 **Max:** 1042 **Avg:** 746.7



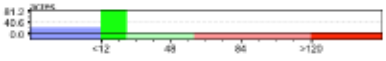
Calcium (Ca) lbs/ac

Min: 3862 **Max:** 7976 **Avg:** 5642



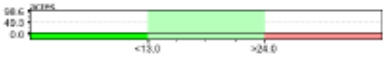
Sulfur (S) lbs/ac

Min: 10.0 **Max:** 22.0 **Avg:** 13.5



Cation Exchange Capacity (CEC)

Min: 12.4 **Max:** 23.2 **Avg:** 17.5



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