



2020 Soil Sample Report

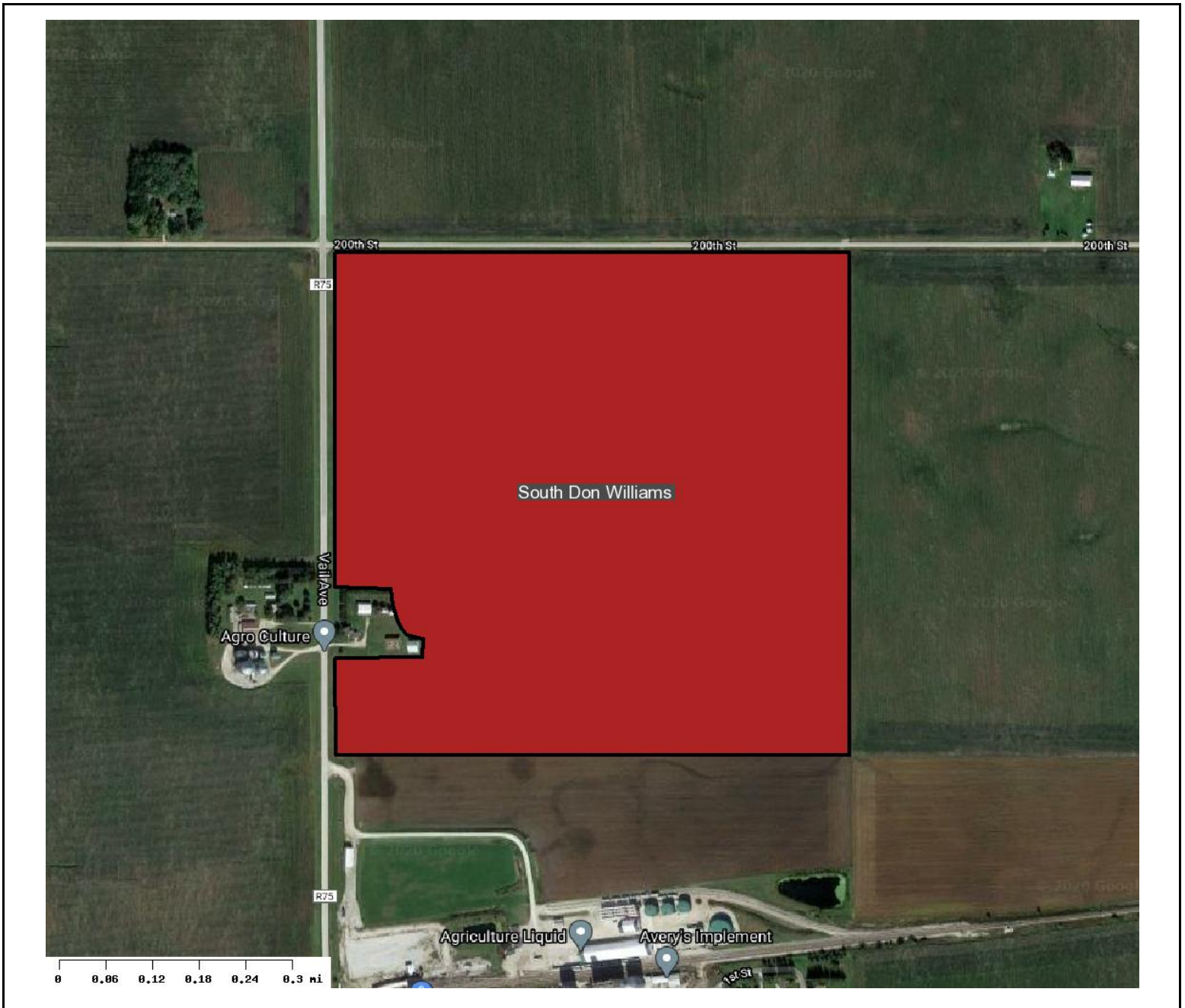


Grower: [REDACTED]

Farm: Winfield Acres

Area: 153.49 acres

Sampling Overview



 2020

Grower: [REDACTED] **Farm:** Winfield Acres **Field(s):** South Don Williams

Farm Sample ID Map



Location	Grower	Farm	Field	Area	Centroid
AgromonyRx		Winfield Acres	South Don Williams	153.49 acres	42.496491, -93.543212



		Min	Max	Avg
Bray P1	2.0	114.0	20.9	
PBicarb	0.0	79.0	7.1	
Bray P2	18.0	142.0	67.0	
K	149.0	348.0	212.5	
Mg	176.0	550.0	350.9	
Ca	2580	6778	4450	
S	4.0	10.0	6.9	
Zn	1.3	9.2	2.3	
pH	5.3	7.9	6.9	
bpH	6.20	7.10	6.90	
OM	2.9	6.5	4.7	
CEC	17.5	37.6	27.1	
%K	1.6	3.5	2.0	
%Mg	6.4	16.7	10.9	
%Ca	54.6	91.8	81.2	
HMeq	0.0	8.5	1.4	

Sample Date	Soil Lab
2020-06-18	Midwest Labs

ID	Bray P1 ppm	PBicarb ppm	Bray P2 ppm	K ppm	Mg ppm	Ca ppm	S ppm	Zn ppm	pH	bpH	OM %	CEC meq	%K %	%Mg %	%Ca %	HMeq meq
1.0	29.0	0.0	130.0	263.0	434.0	5337	5.0	2.8	7.1	7.10	5.5	31.0	2.2	11.7	86.1	0.0
2.0	23.0	16.0	86.0	234.0	356.0	5931	6.0	1.9	7.4	7.10	4.9	33.2	1.8	8.9	89.3	0.0
3.0	3.0	9.0	40.0	204.0	399.0	5598	8.0	1.8	7.6	7.10	4.8	31.8	1.6	10.5	87.9	0.0
4.0	36.0	0.0	45.0	205.0	270.0	3267	9.0	2.9	6.3	6.70	3.6	21.3	2.5	10.6	76.7	2.2
5.0	37.0	0.0	55.0	201.0	459.0	3721	7.0	2.6	5.6	6.40	4.4	29.9	1.7	12.8	62.2	7.0
6.0	2.0	12.0	35.0	212.0	245.0	5675	6.0	2.3	7.6	7.10	5.6	31.0	1.8	6.6	91.6	0.0
7.0	19.0	0.0	58.0	179.0	434.0	4463	7.0	1.7	6.9	7.10	4.5	26.4	1.7	13.7	84.6	0.0
8.0	8.0	11.0	54.0	216.0	242.0	4927	8.0	2.6	7.7	7.10	4.4	27.2	2.0	7.4	90.6	0.0
9.0	25.0	0.0	95.0	198.0	442.0	4429	7.0	2.3	7.0	7.10	5.2	26.3	1.9	14.0	84.1	0.0
10.0	30.0	0.0	46.0	197.0	417.0	3001	9.0	2.2	5.3	6.20	4.8	27.5	1.8	12.6	54.6	8.5

11.0	20.0	11.0	122.0	219.0	365.0	5195	5.0	1.9	7.5	7.10	5.5	29.6	1.9	10.3	87.8	0.0
12.0	12.0	10.0	54.0	226.0	251.0	5709	6.0	1.8	7.8	7.10	5.5	31.2	1.9	6.7	91.4	0.0
13.0	12.0	10.0	56.0	227.0	275.0	5805	8.0	1.5	7.7	7.10	4.7	31.9	1.8	7.2	91.0	0.0
14.0	12.0	17.0	73.0	279.0	362.0	6778	10.0	1.6	7.6	7.10	6.0	37.6	1.9	8.0	90.1	0.0
15.0	13.0	12.0	58.0	239.0	292.0	5627	4.0	1.3	7.7	7.10	5.1	31.2	2.0	7.8	90.2	0.0
16.0	34.0	0.0	86.0	267.0	531.0	4896	6.0	2.6	6.7	7.10	5.7	29.6	2.3	14.9	82.8	0.0
17.0	19.0	13.0	95.0	233.0	268.0	5004	7.0	2.0	7.8	7.10	4.7	27.9	2.1	8.0	89.9	0.0
18.0	36.0	0.0	53.0	238.0	345.0	3534	8.0	2.0	6.1	6.60	4.3	24.6	2.5	11.7	71.8	3.4
19.0	54.0	0.0	94.0	286.0	476.0	4122	6.0	3.0	6.0	6.50	5.7	29.8	2.5	13.3	69.2	4.5
20.0	7.0	10.0	56.0	248.0	299.0	5823	8.0	1.9	7.7	7.10	5.3	32.2	2.0	7.7	90.3	0.0
21.0	7.0	10.0	49.0	215.0	257.0	5261	6.0	1.6	7.8	7.10	4.7	29.0	1.9	7.4	90.7	0.0
22.0	2.0	9.0	42.0	189.0	237.0	4746	8.0	1.6	7.9	7.10	4.1	26.2	1.8	7.5	90.7	0.0
23.0	10.0	17.0	64.0	240.0	258.0	6003	5.0	2.1	7.7	7.10	6.2	32.8	1.9	6.6	91.5	0.0
24.0	42.0	0.0	55.0	246.0	356.0	3616	6.0	2.7	6.4	6.70	5.2	23.8	2.7	12.5	76.0	2.1
25.0	11.0	17.0	62.0	226.0	267.0	5749	7.0	1.9	7.7	7.10	6.1	31.5	1.8	7.1	91.1	0.0
26.0	20.0	18.0	92.0	167.0	401.0	3968	7.0	1.6	7.6	7.10	4.7	23.6	1.8	14.2	84.0	0.0
27.0	2.0	21.0	53.0	211.0	304.0	4841	7.0	1.9	7.8	7.10	6.5	27.3	2.0	9.3	88.7	0.0
28.0	13.0	9.0	66.0	218.0	222.0	4927	7.0	2.0	7.8	7.10	4.5	27.0	2.1	6.9	91.0	0.0
29.0	20.0	13.0	127.0	253.0	300.0	5092	6.0	2.4	7.7	7.10	4.5	28.6	2.3	8.7	89.0	0.0
30.0	24.0	0.0	39.0	208.0	308.0	3446	6.0	2.3	6.3	6.70	4.5	22.7	2.3	11.3	75.9	2.4
31.0	27.0	0.0	49.0	246.0	456.0	3589	8.0	2.6	5.9	6.50	5.3	27.0	2.3	14.1	66.5	4.6
32.0	26.0	0.0	52.0	224.0	550.0	3910	7.0	3.3	5.9	6.50	4.9	29.8	1.9	15.4	65.6	5.1
33.0	17.0	10.0	79.0	203.0	456.0	4680	5.0	2.4	7.6	7.10	4.1	27.7	1.9	13.7	84.4	0.0
34.0	18.0	0.0	30.0	150.0	312.0	3327	6.0	2.1	6.2	6.70	4.2	22.3	1.7	11.7	74.6	2.7
35.0	21.0	14.0	111.0	235.0	375.0	5213	7.0	3.1	7.3	7.10	5.1	29.8	2.0	10.5	87.5	0.0
36.0	18.0	0.0	54.0	246.0	452.0	3958	7.0	2.9	6.9	7.10	4.4	24.2	2.6	15.6	81.8	0.0
37.0	15.0	0.0	26.0	160.0	295.0	2894	6.0	2.3	5.8	6.60	4.4	21.4	1.9	11.5	67.6	4.1
38.0	9.0	7.0	50.0	217.0	231.0	5522	7.0	2.3	7.7	7.10	5.3	30.1	1.8	6.4	91.8	0.0
39.0	10.0	11.0	106.0	227.0	309.0	5514	5.0	2.0	7.5	7.10	5.5	30.7	1.9	8.4	89.7	0.0
40.0	18.0	0.0	25.0	175.0	283.0	2804	8.0	3.1	6.0	6.60	4.1	19.8	2.3	11.9	70.8	3.0
41.0	25.0	18.0	115.0	281.0	399.0	5040	5.0	2.4	7.4	7.10	5.3	29.2	2.5	11.4	86.1	0.0
42.0	14.0	0.0	38.0	171.0	416.0	3609	5.0	2.0	6.3	6.70	4.1	24.6	1.8	14.1	73.4	2.6
43.0	17.0	0.0	82.0	209.0	524.0	4262	6.0	1.8	7.1	7.10	4.2	26.2	2.0	16.7	81.3	0.0
44.0	15.0	0.0	21.0	160.0	278.0	2782	9.0	1.6	5.6	6.50	3.6	21.7	1.9	10.7	64.1	5.1
45.0	18.0	12.0	139.0	256.0	446.0	5658	8.0	1.7	7.3	7.10	5.6	32.7	2.0	11.4	86.6	0.0
46.0	16.0	0.0	35.0	188.0	430.0	3880	5.0	1.3	6.3	6.60	4.2	26.3	1.8	13.6	73.8	2.8
47.0	14.0	0.0	83.0	184.0	339.0	4985	7.0	1.6	7.2	7.10	4.7	28.2	1.7	10.0	88.3	0.0
48.0	20.0	0.0	76.0	192.0	435.0	4330	7.0	1.9	6.8	7.10	4.7	25.8	1.9	14.1	84.0	0.0
49.0	21.0	0.0	36.0	164.0	337.0	3266	7.0	1.9	6.1	6.60	4.3	22.8	1.8	12.3	71.6	3.2
50.0	28.0	0.0	39.0	188.0	339.0	3297	6.0	2.3	5.9	6.60	4.4	23.9	2.0	11.8	69.0	4.1
51.0	18.0	0.0	48.0	163.0	332.0	3794	6.0	1.9	6.8	7.10	4.0	22.2	1.9	12.5	85.6	0.0
52.0	14.0	12.0	99.0	275.0	421.0	6465	8.0	2.2	7.6	7.10	5.9	36.5	1.9	9.6	88.5	0.0

53.0	25.0	0.0	54.0	155.0	395.0	3510	6.0	2.9	6.1	6.60	3.9	24.7	1.6	13.3	71.1	3.5
54.0	58.0	0.0	90.0	187.0	260.0	2618	9.0	2.2	6.3	6.70	3.0	17.5	2.7	12.4	74.8	1.8
55.0	114.0	79.0	142.0	348.0	383.0	4328	8.0	9.2	7.4	7.10	4.3	25.7	3.5	12.4	84.1	0.0
56.0	18.0	12.0	108.0	193.0	311.0	4905	8.0	2.2	7.7	7.10	5.2	27.6	1.8	9.4	88.8	0.0
57.0	25.0	0.0	39.0	183.0	401.0	3861	8.0	2.7	5.8	6.50	4.5	28.5	1.6	11.7	67.7	5.4
58.0	19.0	0.0	57.0	191.0	527.0	3886	8.0	2.8	6.3	6.60	4.7	27.2	1.8	16.1	71.4	2.9
59.0	15.0	11.0	116.0	198.0	344.0	4613	6.0	1.8	7.6	7.10	4.3	26.4	1.9	10.9	87.2	0.0
60.0	21.0	16.0	123.0	212.0	371.0	5104	7.0	2.3	7.3	7.10	5.6	29.2	1.9	10.6	87.5	0.0
61.0	13.0	0.0	18.0	162.0	217.0	2676	8.0	1.6	5.8	6.60	3.3	19.3	2.2	9.4	69.3	3.7
62.0	14.0	0.0	19.0	149.0	176.0	2580	8.0	1.3	5.9	6.60	2.9	17.7	2.2	8.3	72.9	3.0
63.0	16.0	0.0	24.0	152.0	237.0	3019	8.0	1.7	6.2	6.70	3.3	19.9	2.0	9.9	75.9	2.4

Grower: [REDACTED] Farm: Winfield Acres Field: South Don Williams Soil Type Map (SSURGO)

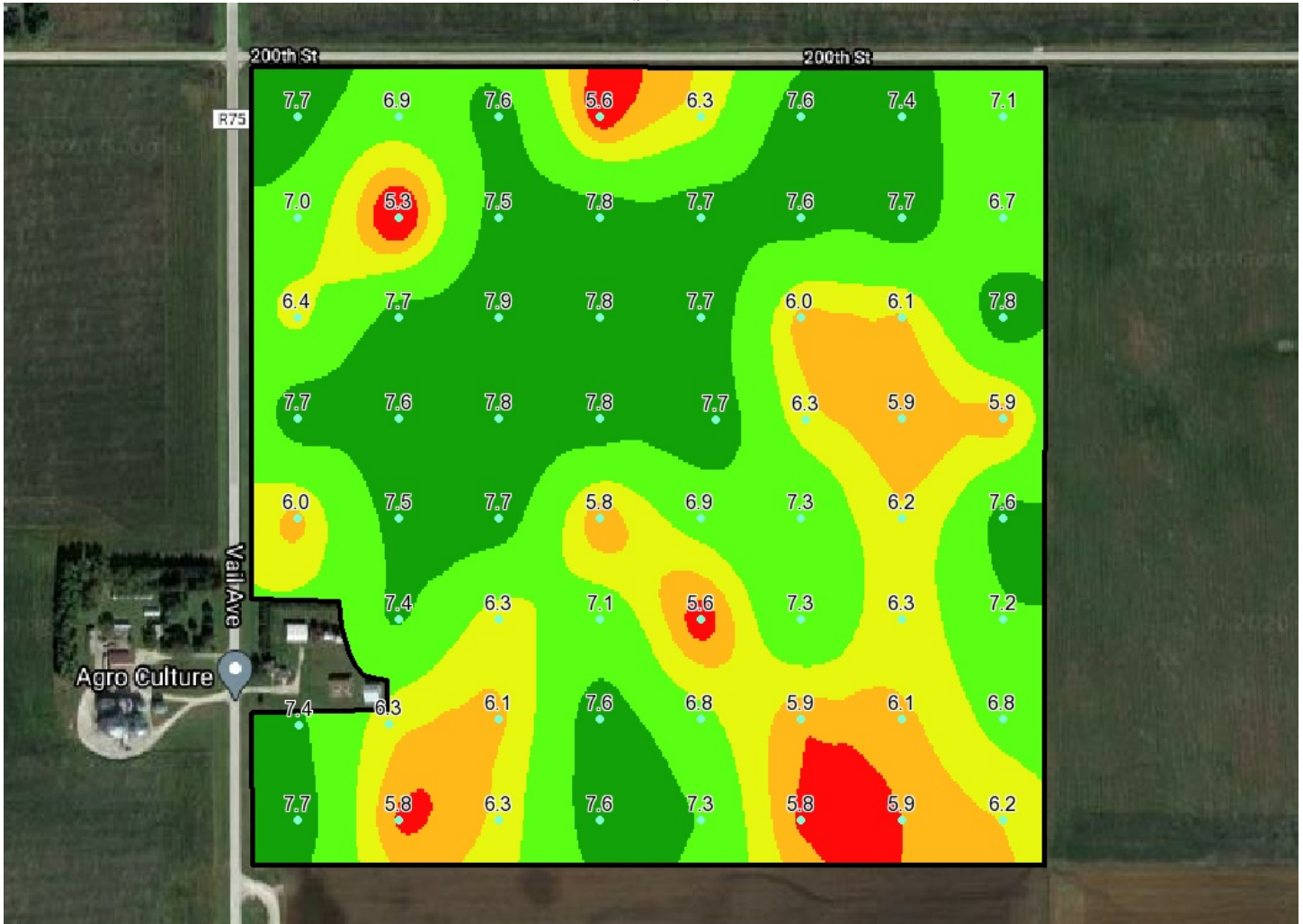


Soil Type	Soil Name	Area (ac)
55	Nicollet clay loam, 1 to 3 percent slopes	24.66
138B	Clarion loam, 2 to 6 percent slopes	6.25
138C	Clarion loam, 6 to 10 percent slopes	0.53
6	Okoboji silty clay loam, 0 to 1 percent slopes	1.61
507	Canisteo clay loam, 0 to 2 percent slopes	104.42
956	Harps-Okoboji complex, 0 to 2 percent slopes	2.27
95	Harps clay loam, 0 to 2 percent slopes	11.67
107	Webster clay loam, 0 to 2 percent slopes	2.21

Grower: [REDACTED]
 Farm: Winfield Acres
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 Interpolation Method: Kriging

Lab: Midwest Labs
 Date: 2020-06-18
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(pH)



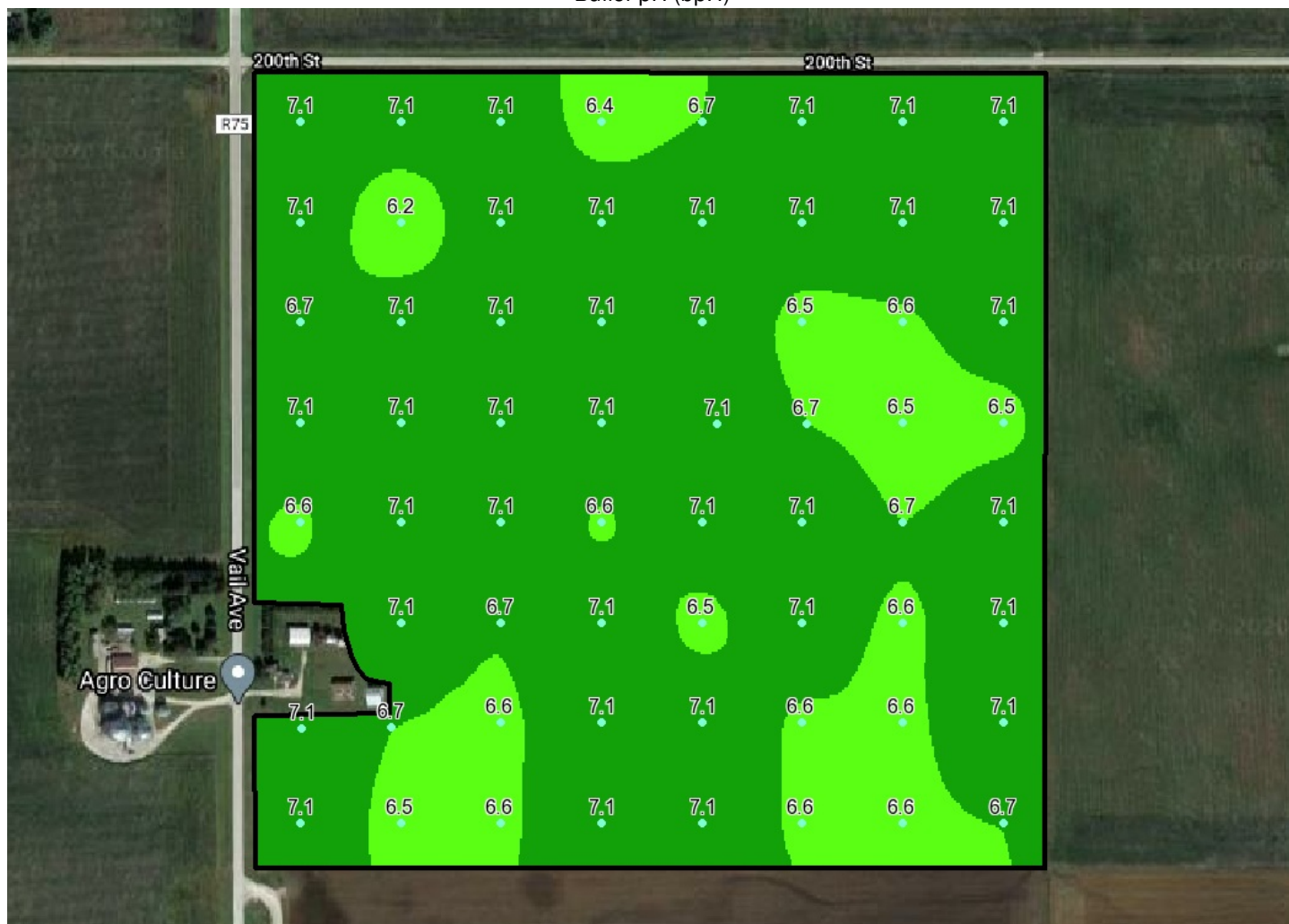
Min: 5.3 Max: 7.9 Avg: 6.9

(pH)	Soil Levels	Area (ac)	Percent Acres
0-5.9	Very Low	4.32	2.81
5.9-6.2	Low	17.65	11.5
6.2-6.6	Optimum	29.08	18.95
6.6-7.3	High	55.52	36.17
7.3-10	Very High	46.92	30.57

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Buffer pH (bpH)



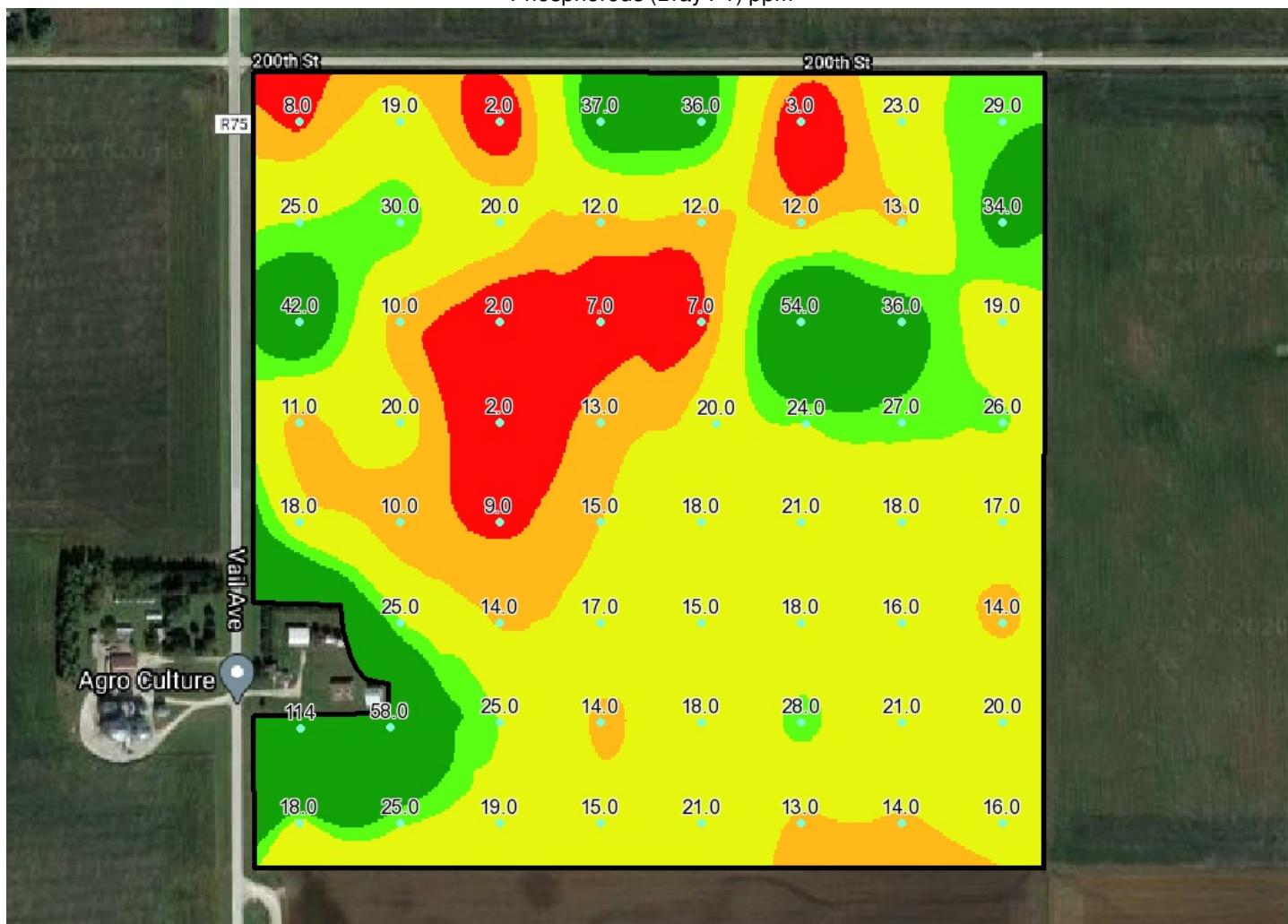
Min: 6.20 Max: 7.10 Avg: 6.90

Buffer pH (bpH)	Soil Levels	Area (ac)	Percent Acres
0-5.0	Very Low	0.0	0.0
5.0-5.5	Low	0.0	0.0
5.5-6.0	Optimum	0.0	0.0
6.0-6.7	High	29.51	19.23
6.7-15.0	Very High	123.98	80.77

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Phosphorous (Bray P1) ppm



Min: 2.0 Max: 114.0 Avg: 20.9

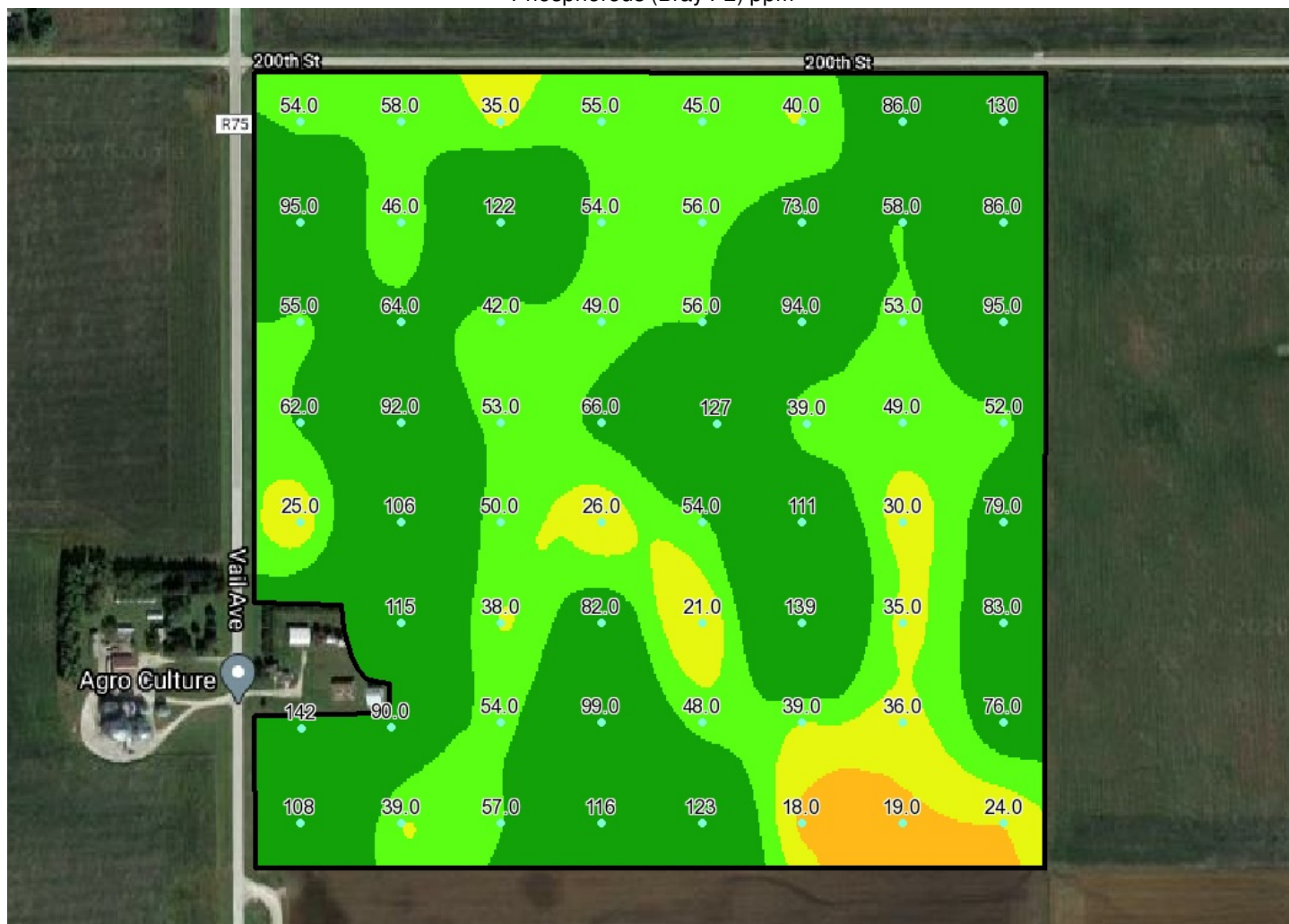
Phosphorous (Bray P1) ppm	Soil Levels	Area (ac)	Percent Acres
0-10	Very Low	14.69	9.57
10-15	Low	23.48	15.3
15-25	Optimum	81.05	52.8
25-30	High	15.31	9.97
30-2000	Very High	18.97	12.36

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 ($H_2PO_4^-$ and HPO_4^{2-}).

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Phosphorous (Bray P2) ppm



Min: 18.0 Max: 142.0 Avg: 67.0

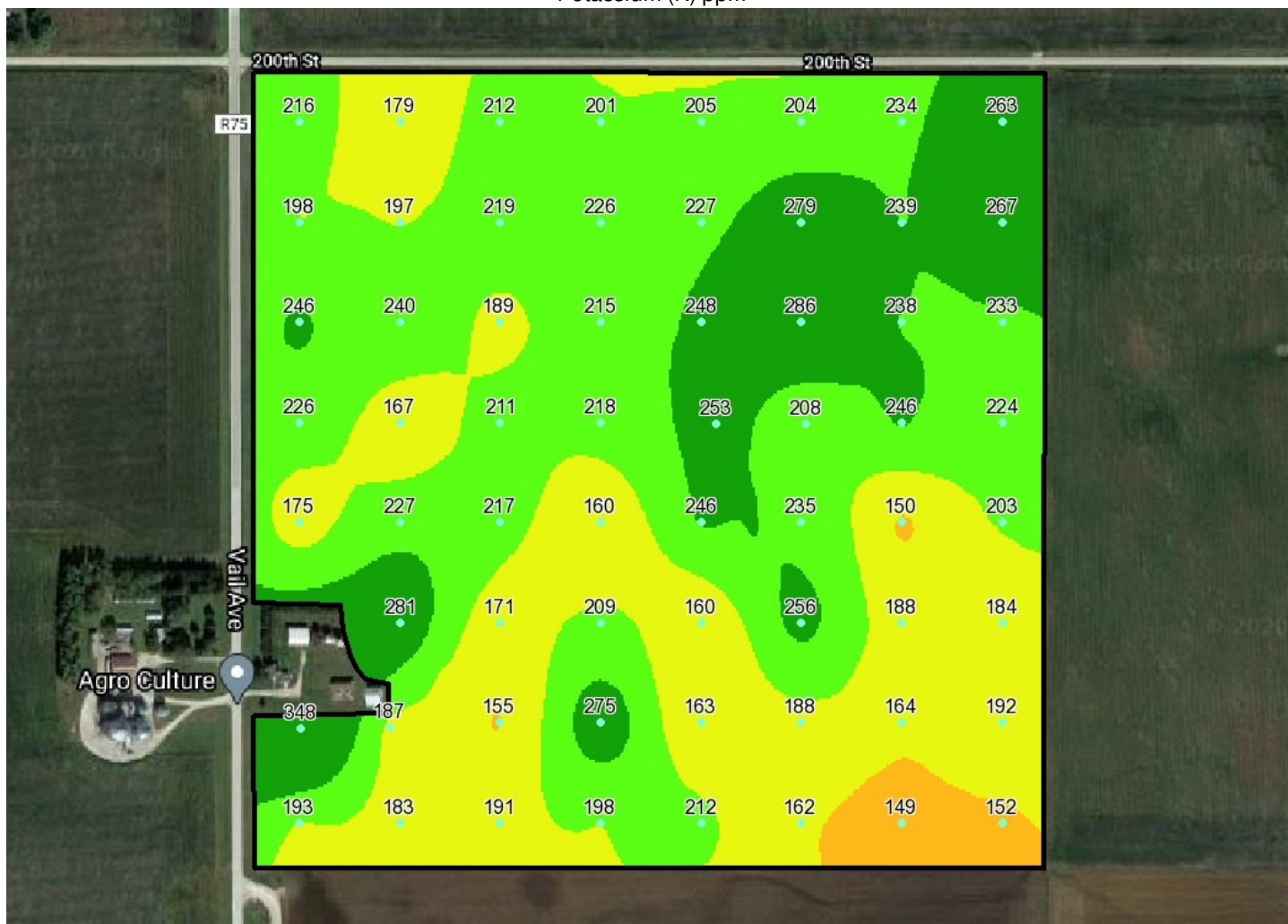
Phosphorous (Bray P2) ppm	Soil Levels	Area (ac)	Percent Acres
0-11	Very Low	0.0	0.0
11-25	Low	3.71	2.42
25-42	Optimum	11.18	7.28
42-59	High	52.94	34.49
59-2000	Very High	85.66	55.81

Phosphorus (P)

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Potassium (K) ppm



Min: 149.0 Max: 348.0 Avg: 212.5

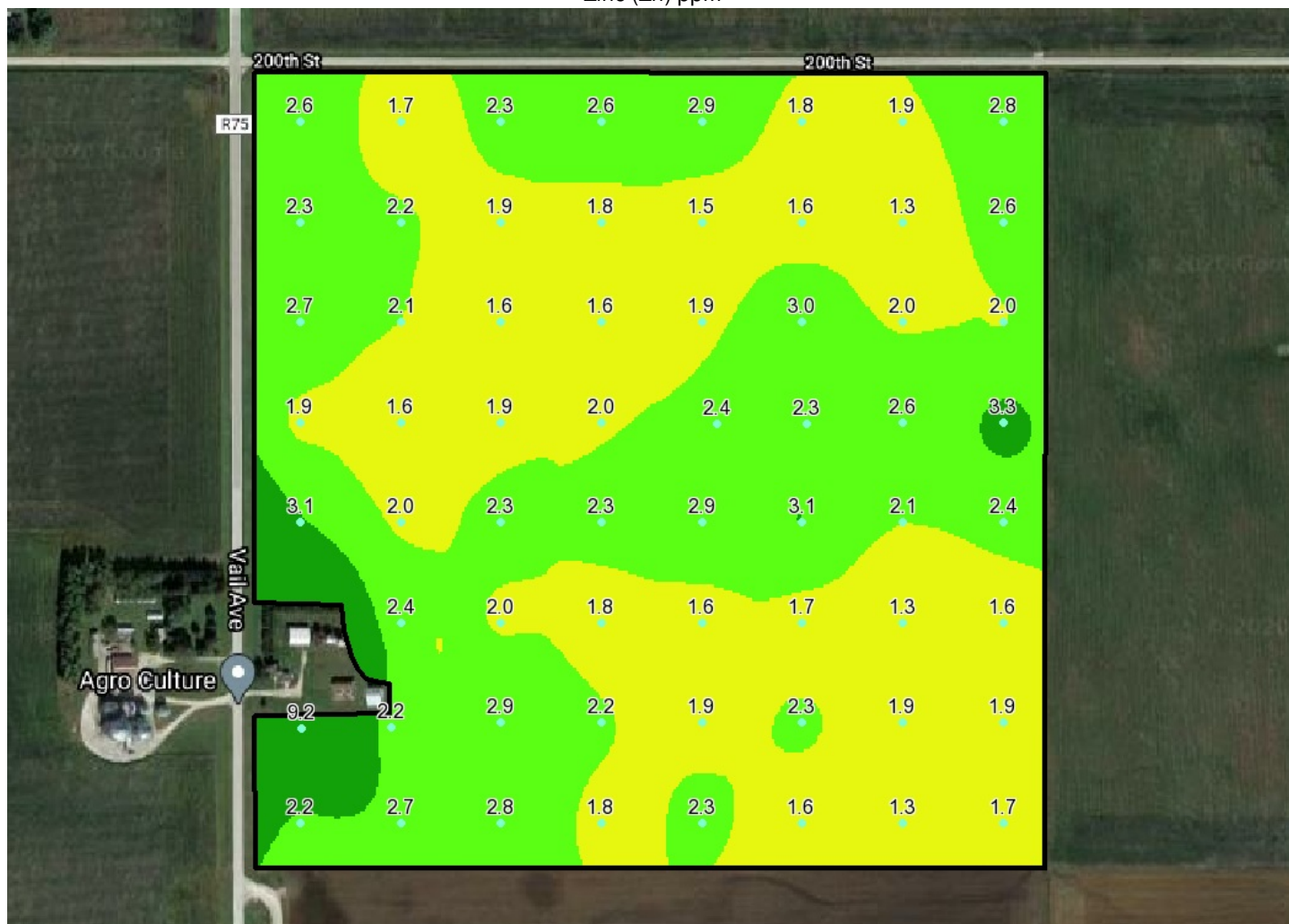
Potassium (K) ppm	Soil Levels	Area (ac)	Percent Acres
0-120	Very Low	0.0	0.0
120-160	Low	4.42	2.88
160-200	Optimum	48.22	31.42
200-240	High	73.96	48.18
240-2000	Very high	26.9	17.53

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⁺).

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Zinc (Zn) ppm



Min: 1.3 Max: 9.2 Avg: 2.3

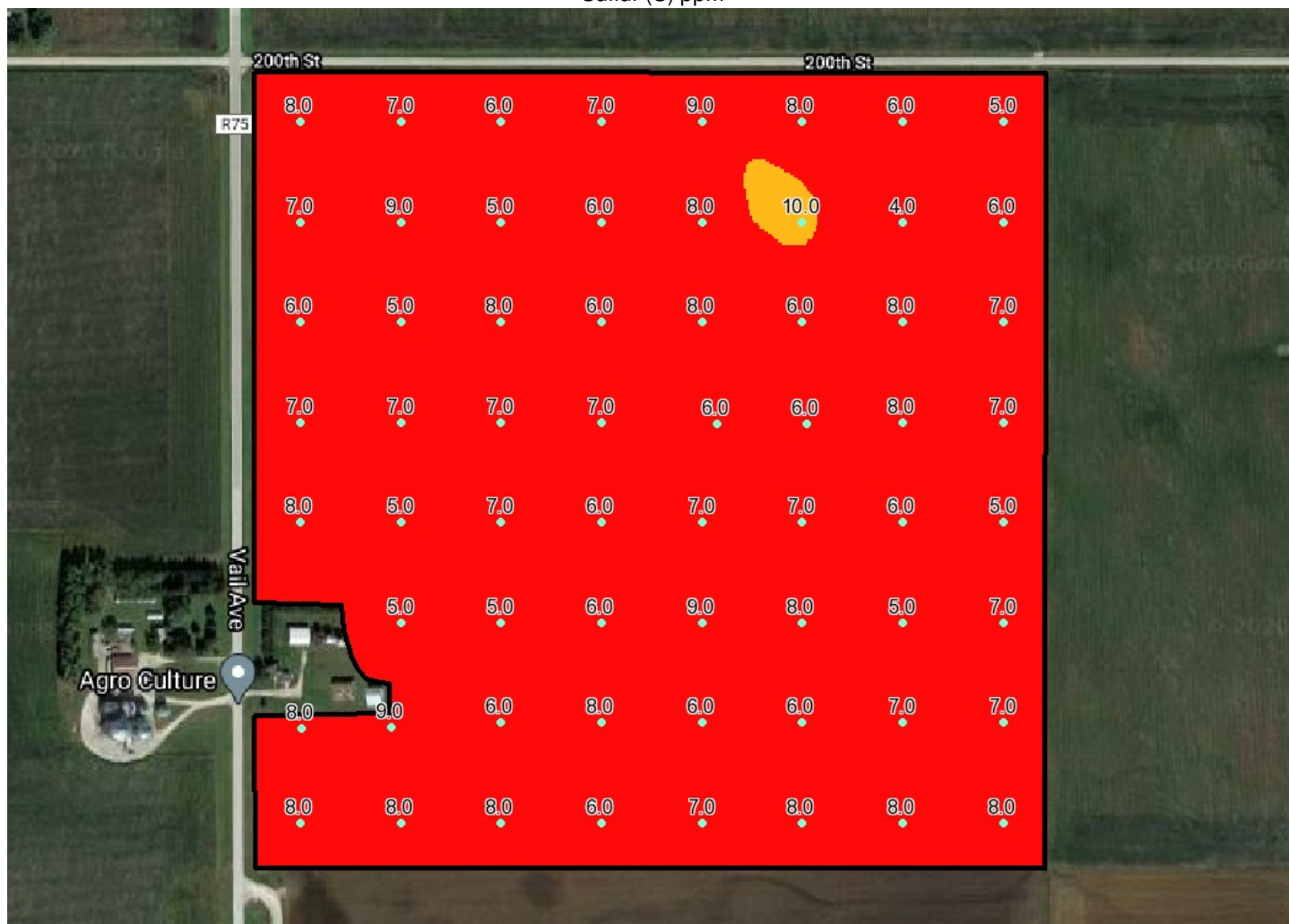
Zinc (Zn) ppm	Soil Levels	Area (ac)	Percent Acres
0-0.7	Very Low	0.0	0.0
0.7-1.1	Low	0.0	0.0
1.1-2.1	Optimum	73.63	47.97
2.1-3.0	High	73.01	47.57
3.0-50	Very High	6.85	4.46

Zinc (Zn) is taken up by plants as the divalent Zn^{2+} cation. It was one of the first micro-nutrients recognized as essential for plants and the one most commonly limiting yields. Although Zn is required in small amounts, high yields are impossible without it.

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Sulfur (S) ppm



Min: 4.0 Max: 10.0 Avg: 6.9

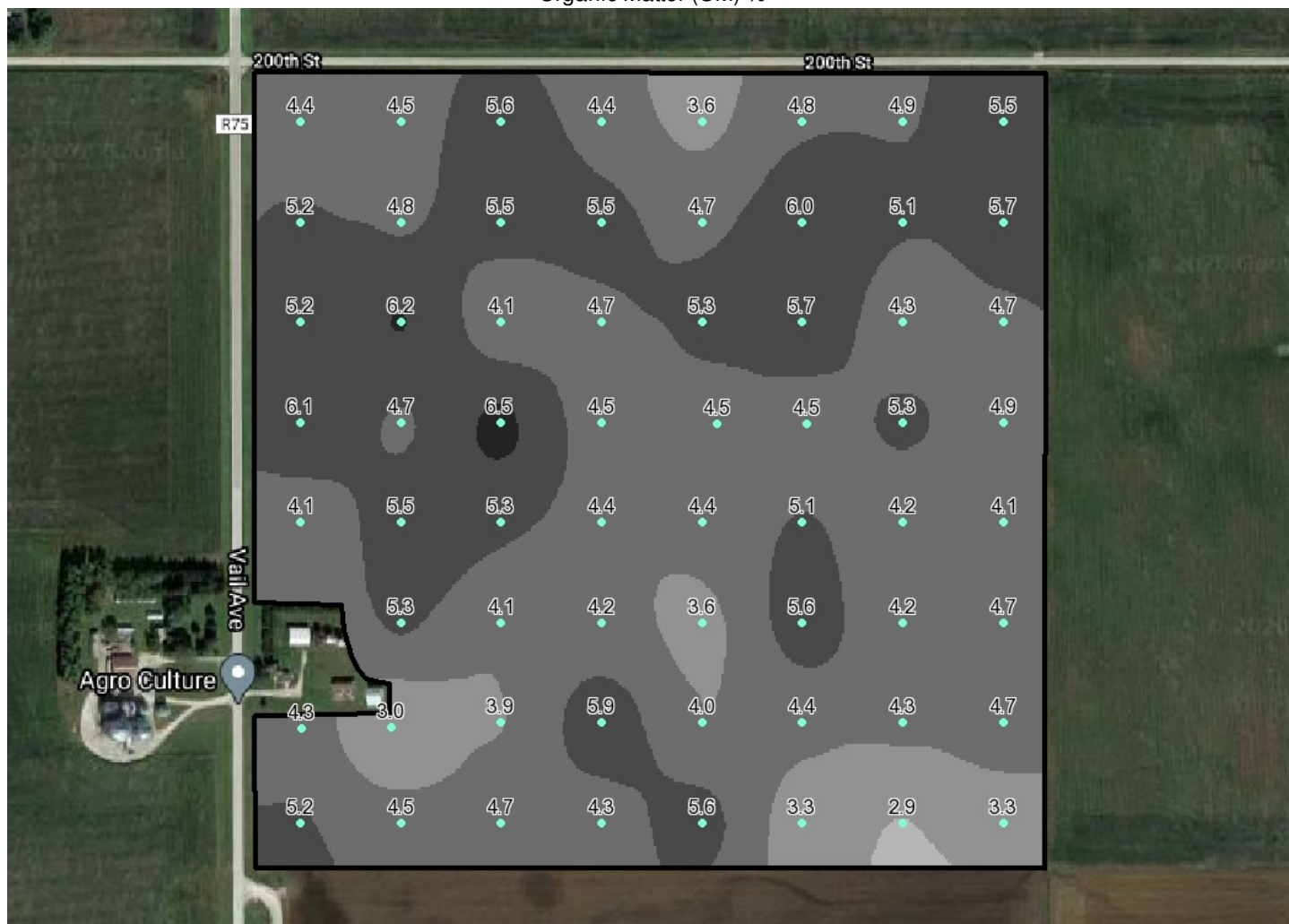
Sulfur (S) ppm	Soil Levels	Area (ac)	Percent Acres
0-9	Very Low	152.37	99.27
9-13	Low	1.12	0.73
13-18	Optimum	0.0	0.0
18-24	High	0.0	0.0
24-1000	Very High	0.0	0.0

Sulfur (S) is a part of every living cell and is important to the formation of proteins. Unlike the other secondary nutrients like calcium and magnesium (which plants take up as cations), S is absorbed primarily as the SO_4^{2-} anion. It can also enter plant leaves from the air as dioxide (SO_2) gas.

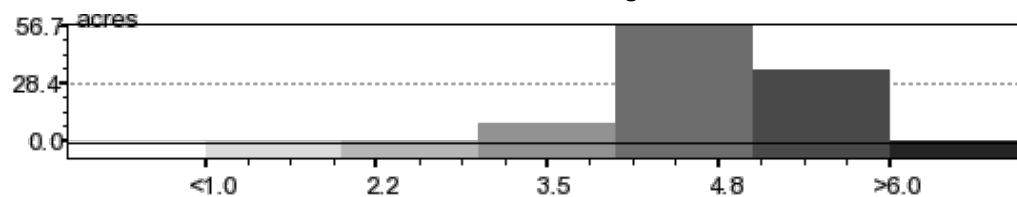
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Organic Matter (OM) %



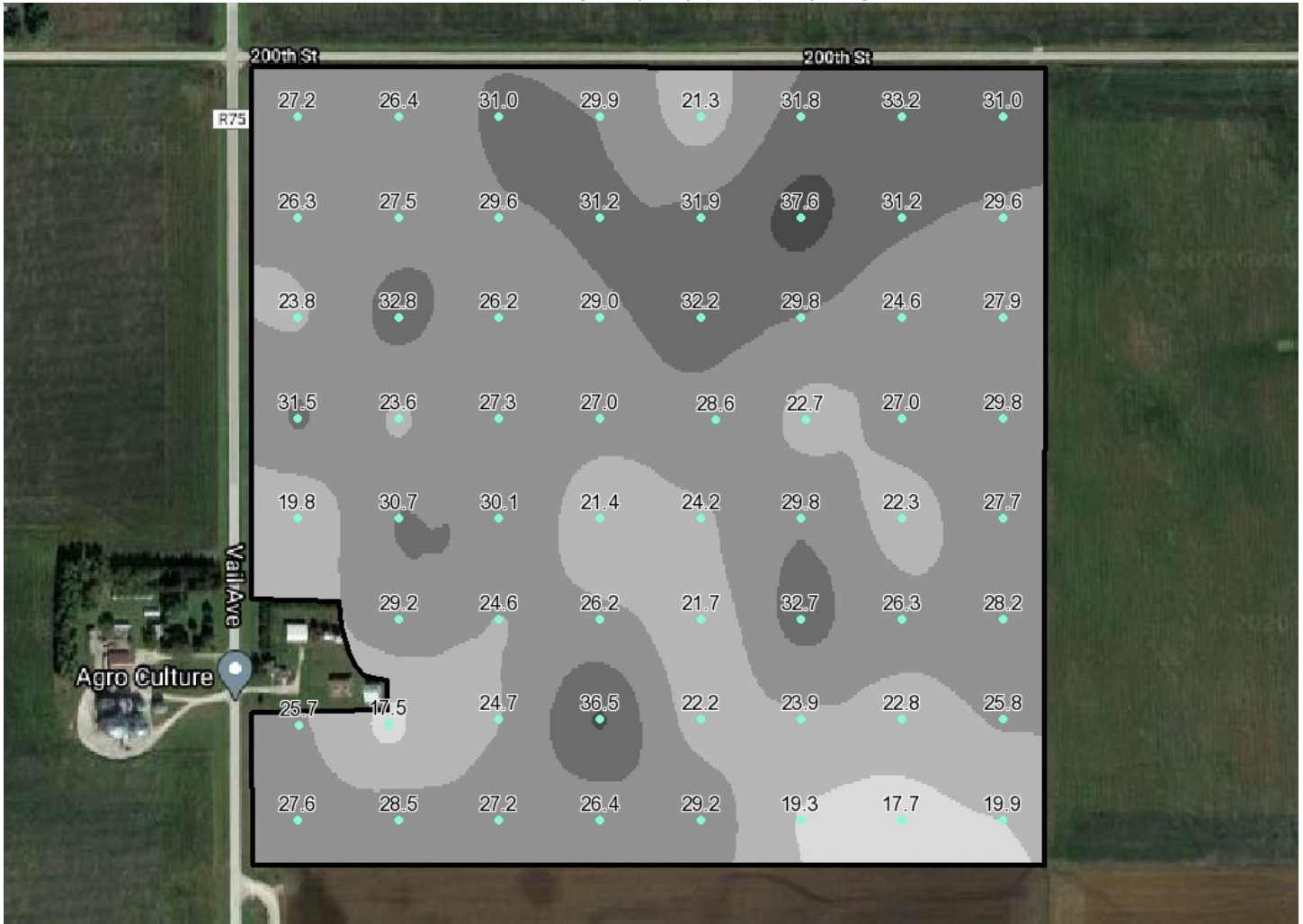
Min: 2.9 Max: 6.5 Avg: 4.7



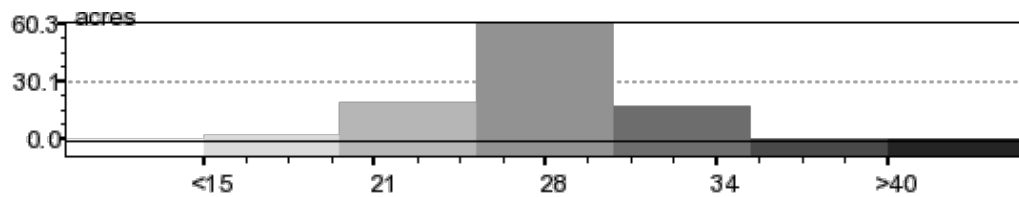
Grower: XXXXXXXXXX
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Cation Exchange Capacity (CEC) meq/100g



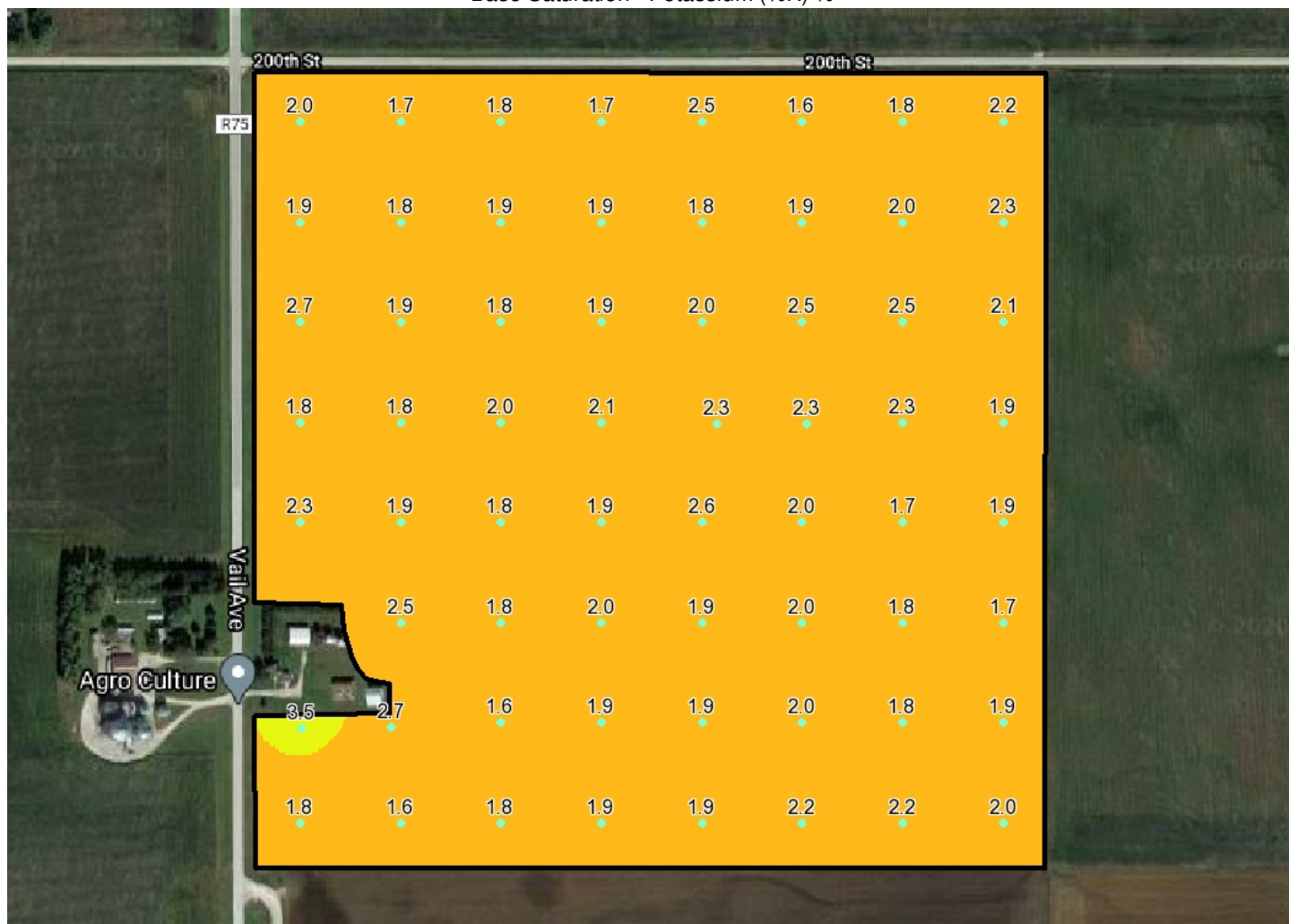
Min: 17.5 Max: 37.6 Avg: 27.1



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Base Saturation - Potassium (%K) %



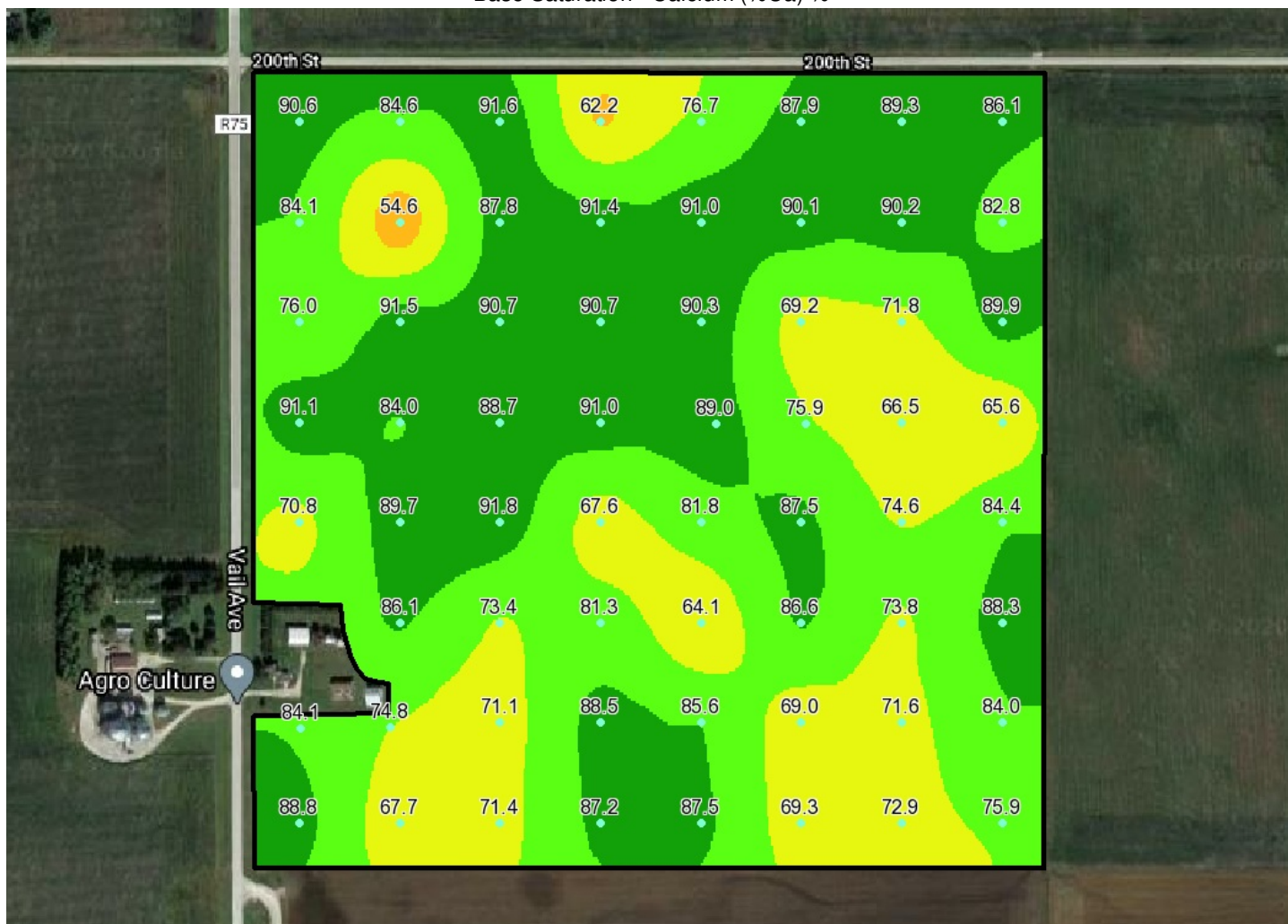
Min: 1.6 Max: 3.5 Avg: 2.0

	Base Saturation - Potassium (%K) %	Soil Levels	Area (ac)	Percent Acres
	0-1	Very Low	0.0	0.0
	1-3	Low	152.81	99.56
	3-6	Optimum	0.68	0.44
	6-9	High	0.0	0.0
	9-25	Very high	0.0	0.0

Grower: XXXXXXXXXX
 Farm: Winfield Acres
 Field: South Don Williams
 Area: 153.49 ac
 Interpolation Method: Kriging

Lab: Midwest Labs
 Date: 2020-06-18
 Layer ID: 3008626

Base Saturation - Calcium (%Ca) %



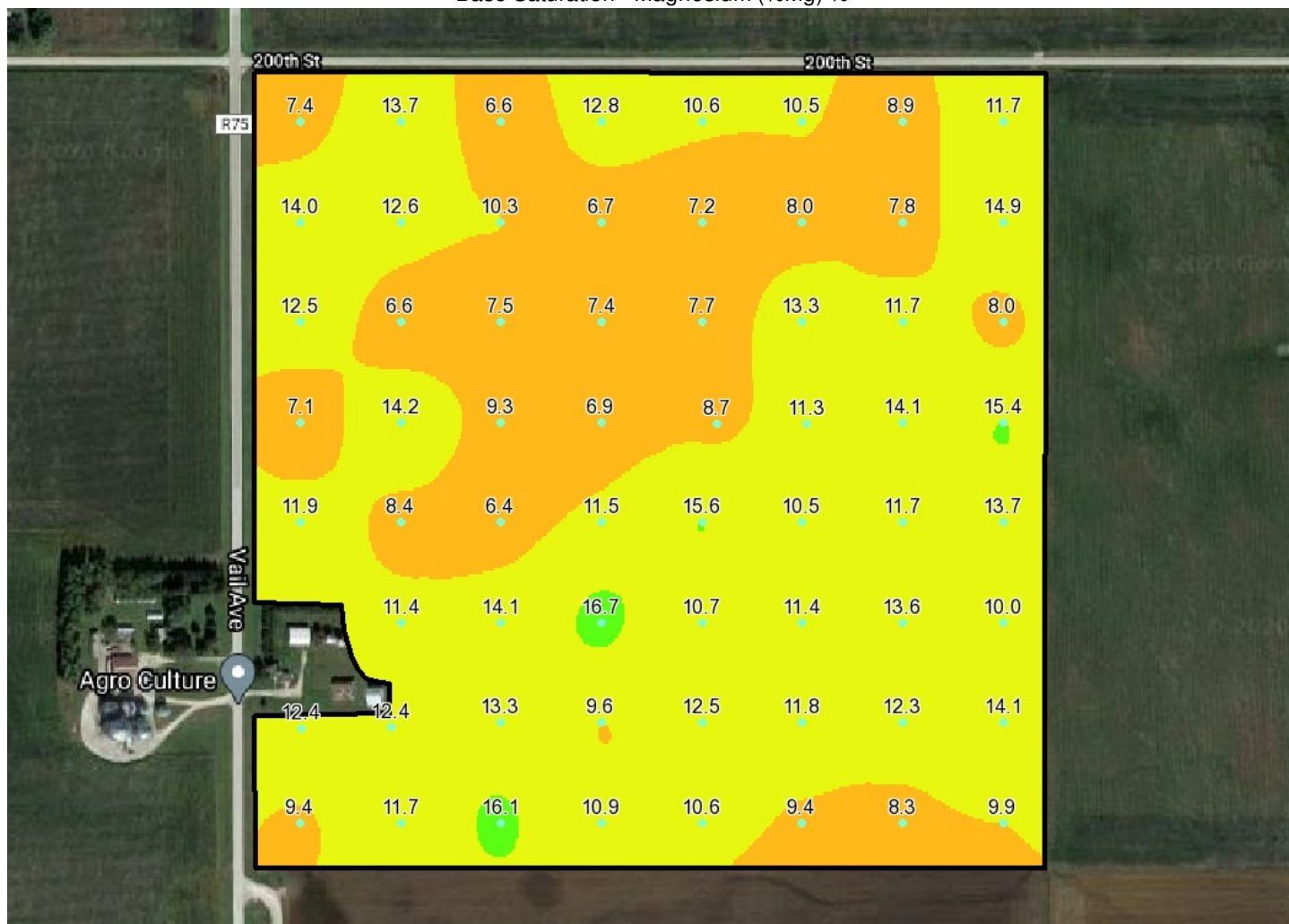
Min: 54.6 Max: 91.8 Avg: 81.2

	Base Saturation - Calcium (%Ca) %	Soil Levels	Area (ac)	Percent Acres
	0-50	Very Low	0.0	0.0
	50-65	Low	0.66	0.43
	65-75	Optimum	34.49	22.47
	75-85	High	60.38	39.34
	85-100	Very High	57.95	37.75

Grower: [REDACTED]
Farm: Winfield Acres
Field: South Don Williams
Area: 153.49 ac
Interpolation Method: Kriging

Lab: Midwest Labs
Date: 2020-06-18
Layer ID: 3008626

Base Saturation - Magnesium (%Mg) %



Min: 6.4 Max: 16.7 Avg: 10.9

	Base Saturation - Magnesium (%Mg) %	Soil Levels	Area (ac)	Percent Acres
 	0-5	Very Low	0.0	0.0
 	5-10	Low	49.52	32.26
 	10-15	Optimum	102.84	67.0
 	15-20	High	1.14	0.74
 	20-100	Very High	0.0	0.0



Managing Basic Agronomics with Technology

[AgronomyRx@facebook.com](https://www.facebook.com/AgronomyRx)

AgronomyRx

1961 James St.

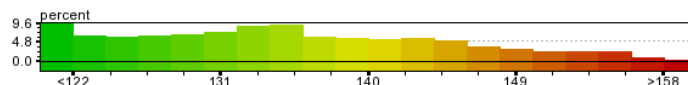
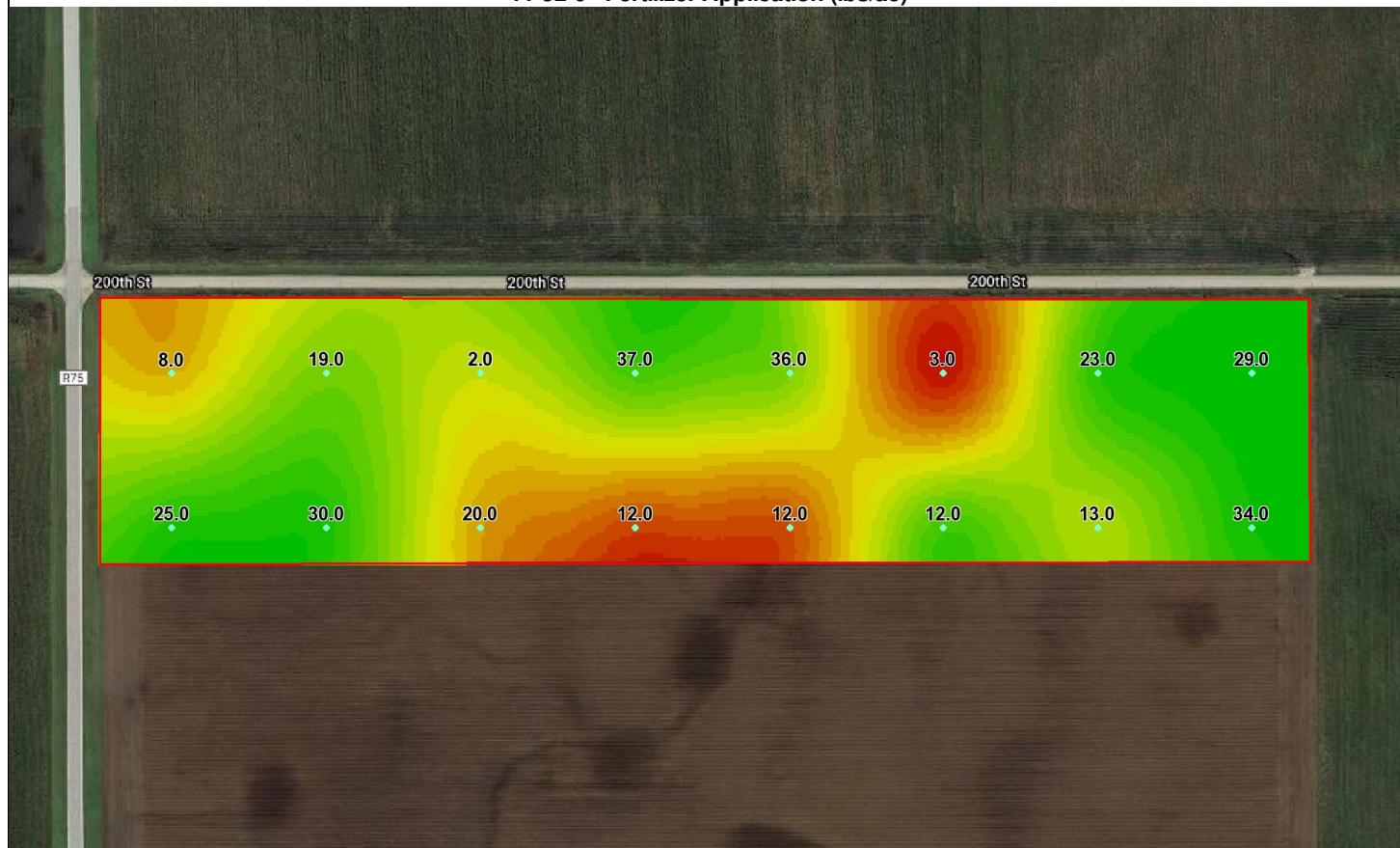
Webster City, IA 50595

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm N35

11-52-0 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 90

Removal Type: CSR2 Yield Goal: 220

Max Rate: 200.0 lbs/ac Multiplier: N/A

Min Rate: 100.0 lbs/ac Subtract: N/A

Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 120.0 lbs/ac

Maximum Application Rate: 160.0 lbs/ac

Average Application Rate: 134.79 lbs/ac

Application Area: 32.98 ac

Average Field Rate: 134.79 lbs/ac

Total Area: 32.98 ac

Total Product: 4445.21 lbs

Total Product Bulk: 2.22 ton

Product Cost / Bulk: \$765.0/ton

Total Product Price: \$1700.29

Application Cost / Area: \$0.0/ac

Total Application Cost: \$0.0

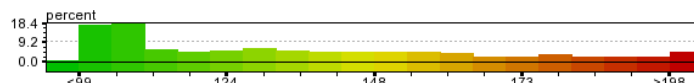
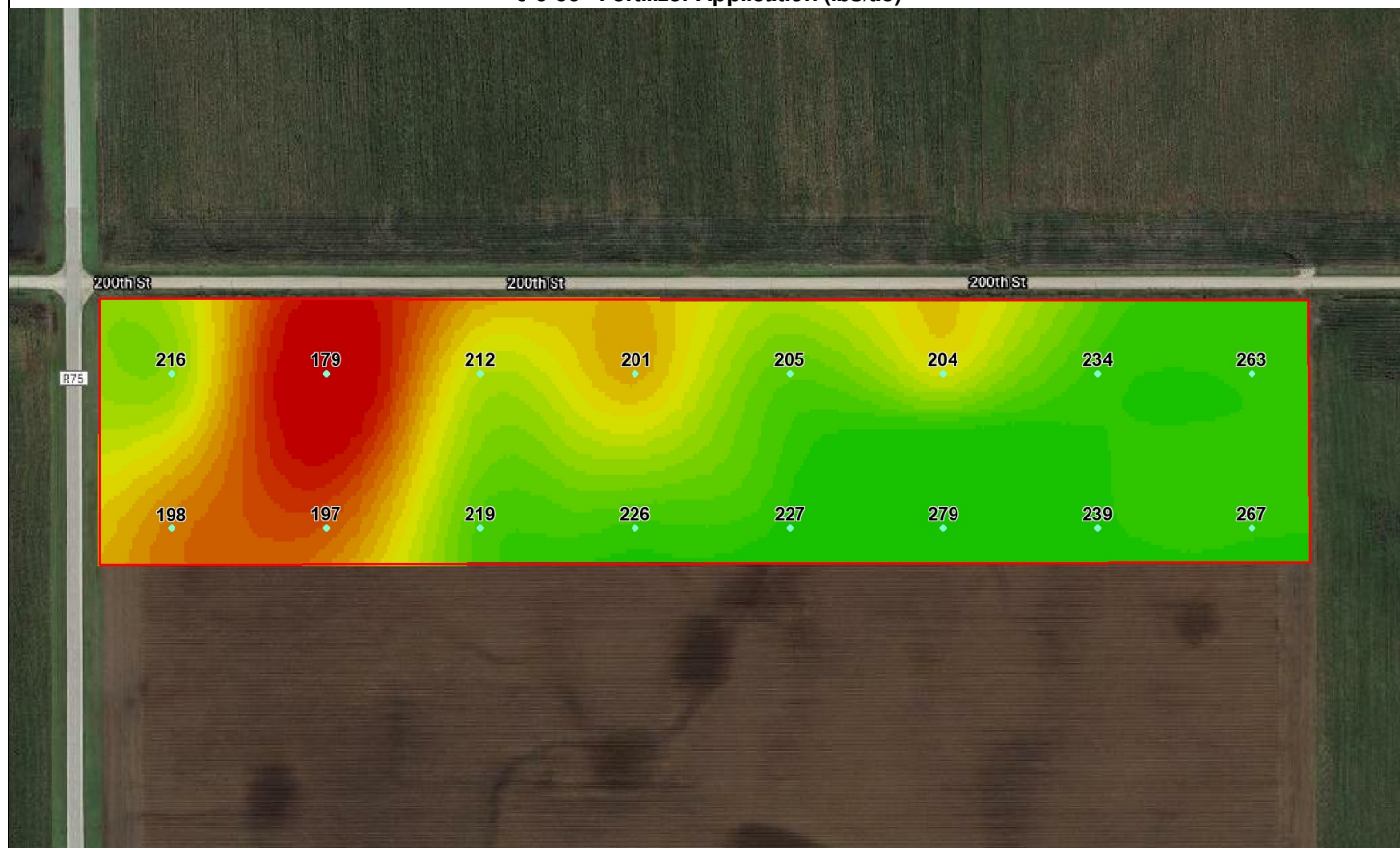
Total Cost: \$1700.29

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm N35

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



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 90
Removal Type: CSR2 Yield Goal: 220

Max Rate: 200.0 lbs/ac Multiplier: N/A
Min Rate: 100.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 100.0 lbs/ac
Maximum Application Rate: 200.0 lbs/ac
Average Application Rate: 133.86 lbs/ac
Application Area: 32.98 ac
Average Field Rate: 133.86 lbs/ac
Total Area: 32.98 ac

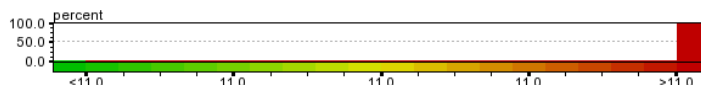
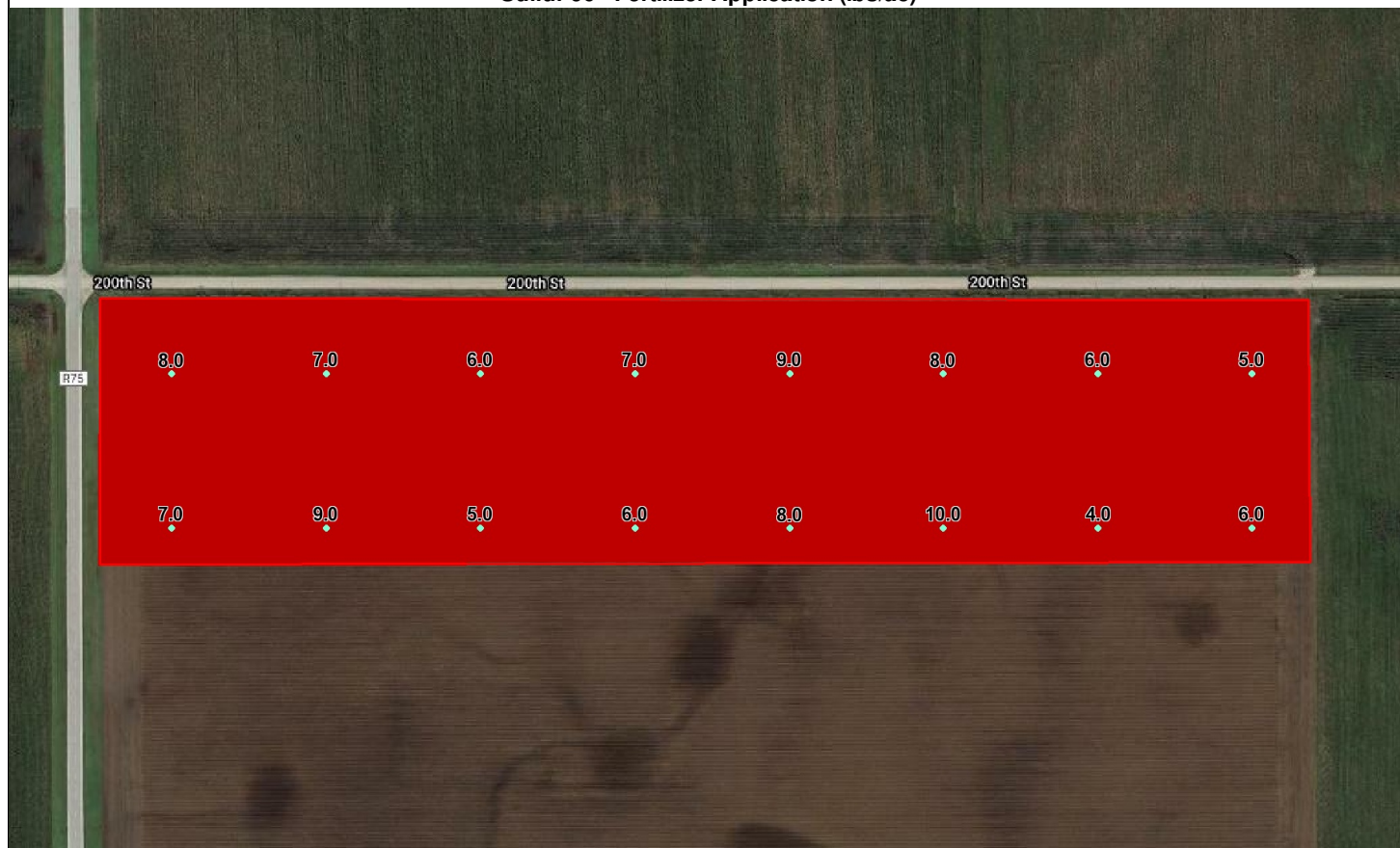
Total Product: 4414.55 lbs
Total Product Bulk: 2.21 ton
Product Cost / Bulk: \$530.0/ton
Total Product Price: \$1169.85
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$1169.85

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm N35

Sulfur 90 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 90
Removal Type: CSR2 Yield Goal: 220

Max Rate: 11.0 lbs/ac Multiplier: N/A
Min Rate: 11.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 11.0 lbs/ac
Maximum Application Rate: 11.0 lbs/ac
Average Application Rate: 11.0 lbs/ac
Application Area: 32.98 ac
Average Field Rate: 11.00 lbs/ac
Total Area: 32.98 ac

Total Product: 362.78 lbs
Total Product Bulk: 0.18 ton
Product Cost / Bulk: \$600.0/ton
Total Product Price: \$108.83
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$108.83

Fertilizer Application Summary

Grower: XXXXXXXXXX
 Farm: Winfield Acres
 Field(s): South Farm N35

Commodity: Corn
 Labs: Midwest Labs

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
11-52-0	100	200.0 lbs/ac	100.0 lbs/ac	0.00	0.0 lbs/ac
0-0-60	100	200.0 lbs/ac	100.0 lbs/ac	0.00	0.0 lbs/ac
Sulfur 90	100	11.0 lbs/ac	11.0 lbs/ac	0.00	0.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
11-52-0	4445.21 (lbs)	2.22 ton	32.98	\$765.0/ton	\$1700.29	\$51.56/ac
0-0-60	4414.55 (lbs)	2.21 ton	32.98	\$530.0/ton	\$1169.85	\$35.47/ac
Sulfur 90	362.78 (lbs)	0.18 ton	32.98	\$600.0/ton	\$108.83	\$3.3/ac
Application				\$0.0 /ac	\$0.0	\$0.0/ac
Totals					\$2978.97	\$90.33/ac

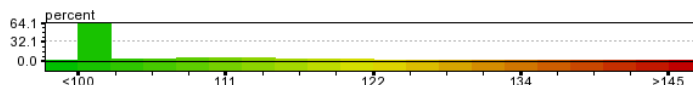
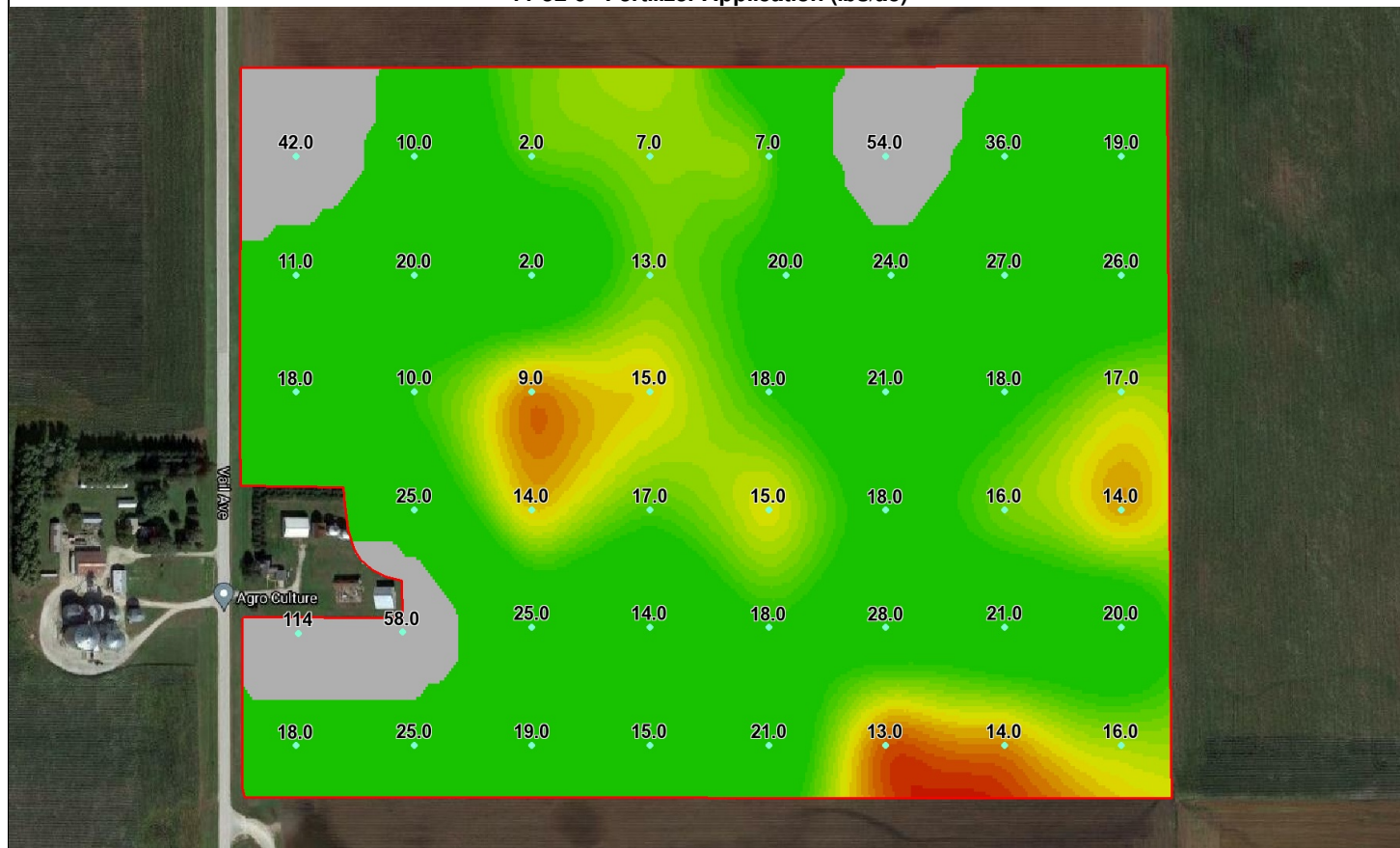
Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
South Farm N35	27 NWNENE 89N 23W	--	Hamilton	33.75 ac	42.499270, -93.543346

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

11-52-0 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Soybeans

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 75
Removal Type: CSR2 Yield Goal: 70 bu/ac

Max Rate: 200.0 lbs/ac Multiplier: N/A
Min Rate: 100.0 lbs/ac Subtract: N/A
Switch Rate: 50.0 lbs/ac

Minimum Application Rate: 100.0 lbs/ac
Maximum Application Rate: 145.0 lbs/ac
Average Application Rate: 105.57 lbs/ac
Application Area: 111.1 ac
Average Field Rate: 96.67 lbs/ac
Total Area: 121.33 ac

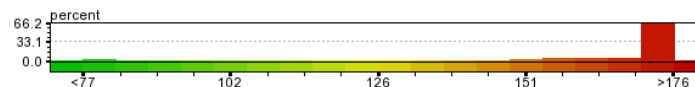
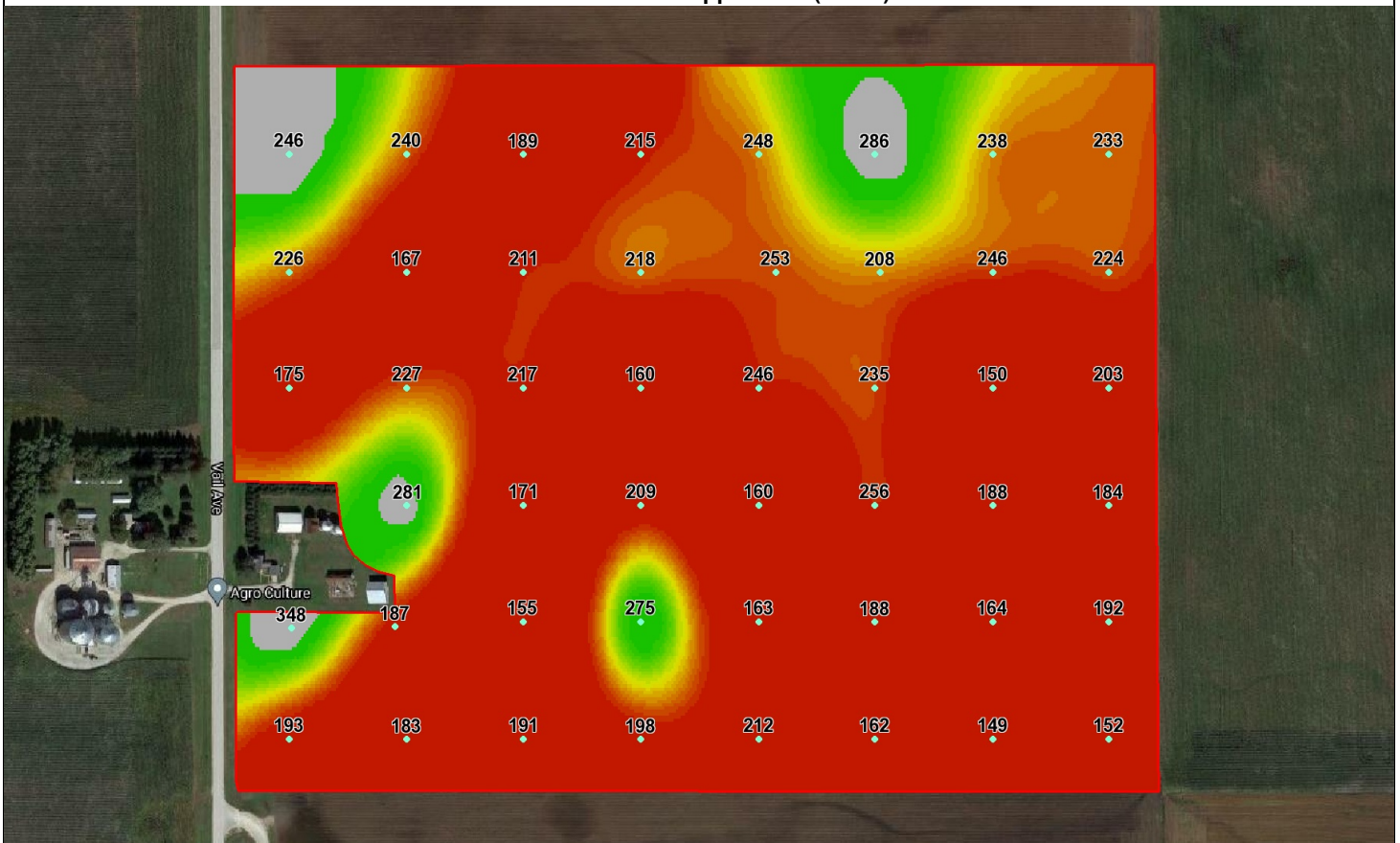
Total Product: 11728.58 lbs
Total Product Bulk: 5.86 ton
Product Cost / Bulk: \$765.0/ton
Total Product Price: \$4486.18
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$4486.18

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

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



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Soybeans

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 75
Removal Type: CSR2 Yield Goal: 70 bu/ac

Max Rate: 175.0 lbs/ac Multiplier: N/A
Min Rate: 80.0 lbs/ac Subtract: N/A
Switch Rate: 50.0 lbs/ac

Minimum Application Rate: 80.0 lbs/ac
Maximum Application Rate: 175.0 lbs/ac
Average Application Rate: 162.22 lbs/ac
Application Area: 117.37 ac
Average Field Rate: 156.93 lbs/ac
Total Area: 121.33 ac

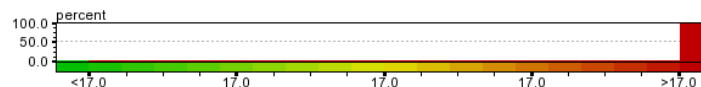
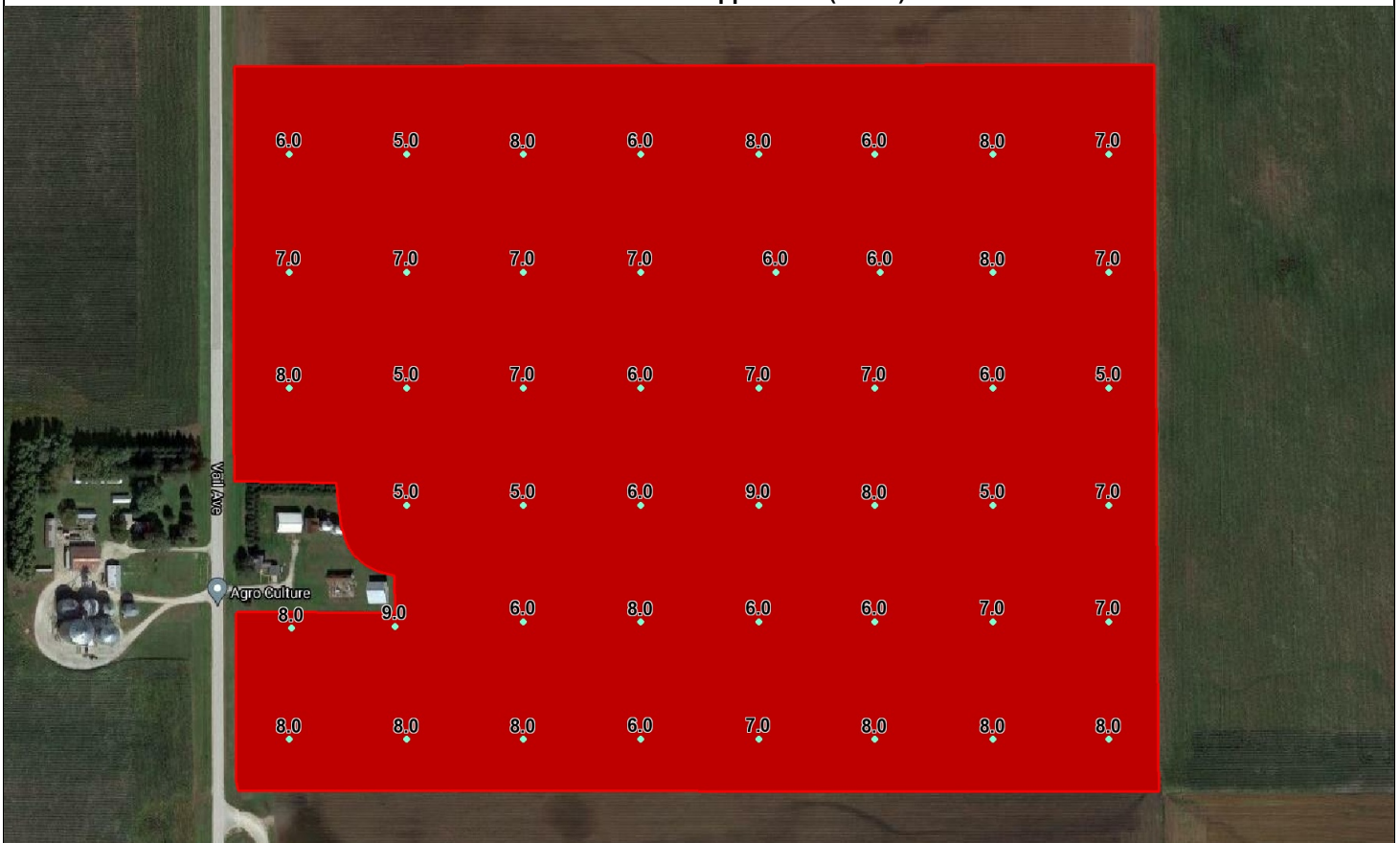
Total Product: 19039.99 lbs
Total Product Bulk: 9.52 ton
Product Cost / Bulk: \$530.0/ton
Total Product Price: \$5045.6
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$5045.6

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

Sulfur 90 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Soybeans

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 75
Removal Type: CSR2 Yield Goal: 70 bu/ac

Max Rate: 17.0 lbs/ac Multiplier: N/A
Min Rate: 17.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 17.0 lbs/ac
Maximum Application Rate: 17.0 lbs/ac
Average Application Rate: 17.0 lbs/ac
Application Area: 121.33 ac
Average Field Rate: 17.00 lbs/ac
Total Area: 121.33 ac

Total Product: 2062.61 lbs
Total Product Bulk: 1.03 ton
Product Cost / Bulk: \$650.0/ton
Total Product Price: \$670.35
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$670.35

Fertilizer Application Summary

Grower: XXXXXXXXXX
Farm: Winfield Acres
Field(s): South Farm S125

Commodity: Soybeans
Labs: Midwest Labs

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
11-52-0	100	200.0 lbs/ac	100.0 lbs/ac	0.00	50.0 lbs/ac
0-0-60	100	175.0 lbs/ac	80.0 lbs/ac	0.00	50.0 lbs/ac
Sulfur 90	100	17.0 lbs/ac	17.0 lbs/ac	0.00	0.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
11-52-0	11728.58 (lbs)	5.86 ton	111.10	\$765.0/ton	\$4486.18	\$36.97/ac
0-0-60	19039.99 (lbs)	9.52 ton	117.37	\$530.0/ton	\$5045.6	\$41.59/ac
Sulfur 90	2062.61 (lbs)	1.03 ton	121.33	\$650.0/ton	\$670.35	\$5.53/ac
Application				\$0.0 /ac	\$0.0	\$0.0/ac
Totals					\$10202.13	\$84.09/ac

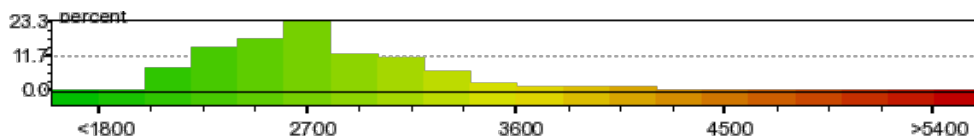
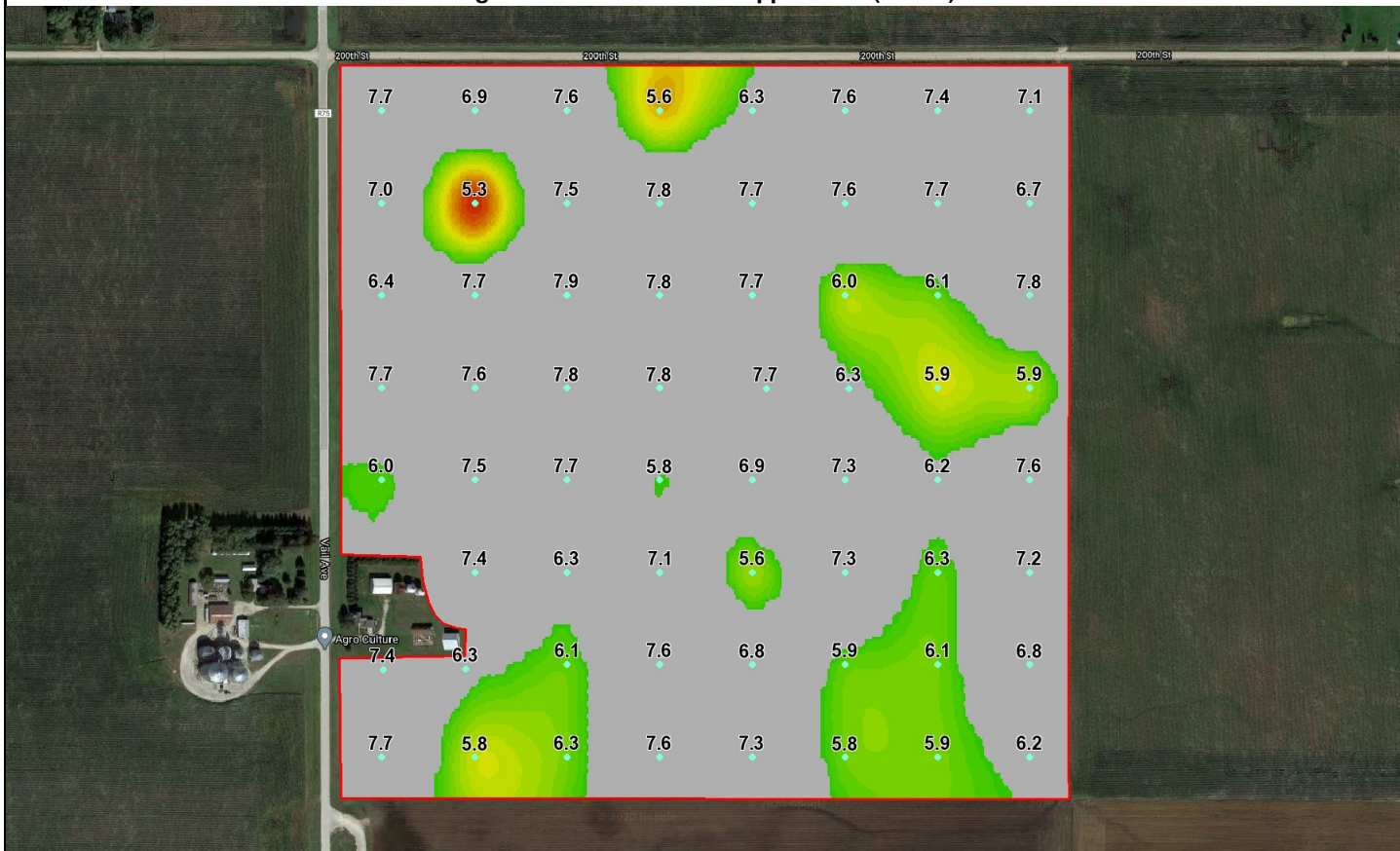
Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
South Farm S125	27 NWSENE 89N 23W	--	Hamilton	119.45 ac	42.495700, -93.543212

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Don Williams

Ag Lime 1500 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints:

Build Years: 1	CSR2: 90	Max Rate: 7000.0 lbs/ac	Multiplier: N/A
Removal Type: CSR2	Yield Goal: 220	Min Rate: 2000.0 lbs/ac	Subtract: N/A
		Switch Rate: 2000.0 lbs/ac	

Removal Commodity: Corn

Removal Yield 200

Minimum Application Rate:	2000.0 lbs/ac	Total Product:	82720.62 lbs
Maximum Application Rate:	5150.0 lbs/ac	Total Product Bulk:	41.36 ton
Average Application Rate:	2778.39 lbs/ac	Product Cost / Bulk:	\$40.0/ton
Application Area:	29.77 ac	Total Product Price:	\$1654.41
Average Field Rate:	543.46 lbs/ac	Application Cost / Area:	\$0.0/ac
Total Area:	152.21 ac	Total Application Cost:	\$0.0
		Total Cost:	\$1654.41

Fertilizer Application Summary

Grower: XXXXXXXXXX
 Farm: Winfield Acres
 Field(s): South Don Williams

Commodity: Corn
 Labs: Midwest Labs

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Ag Lime 1500	100	7000.0 lbs/ac	2000.0 lbs/ac	0.00	2000.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Ag Lime 1500	82720.62 (lbs)	41.36 ton	29.77	\$40.0/ton	\$1654.41	\$10.87/ac
Application				\$0.0 /ac	\$0.0	\$0.0/ac
Totals					\$1654.41	\$10.87/ac

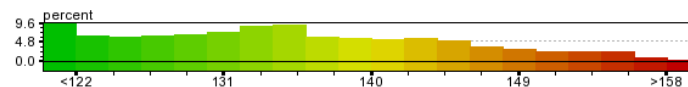
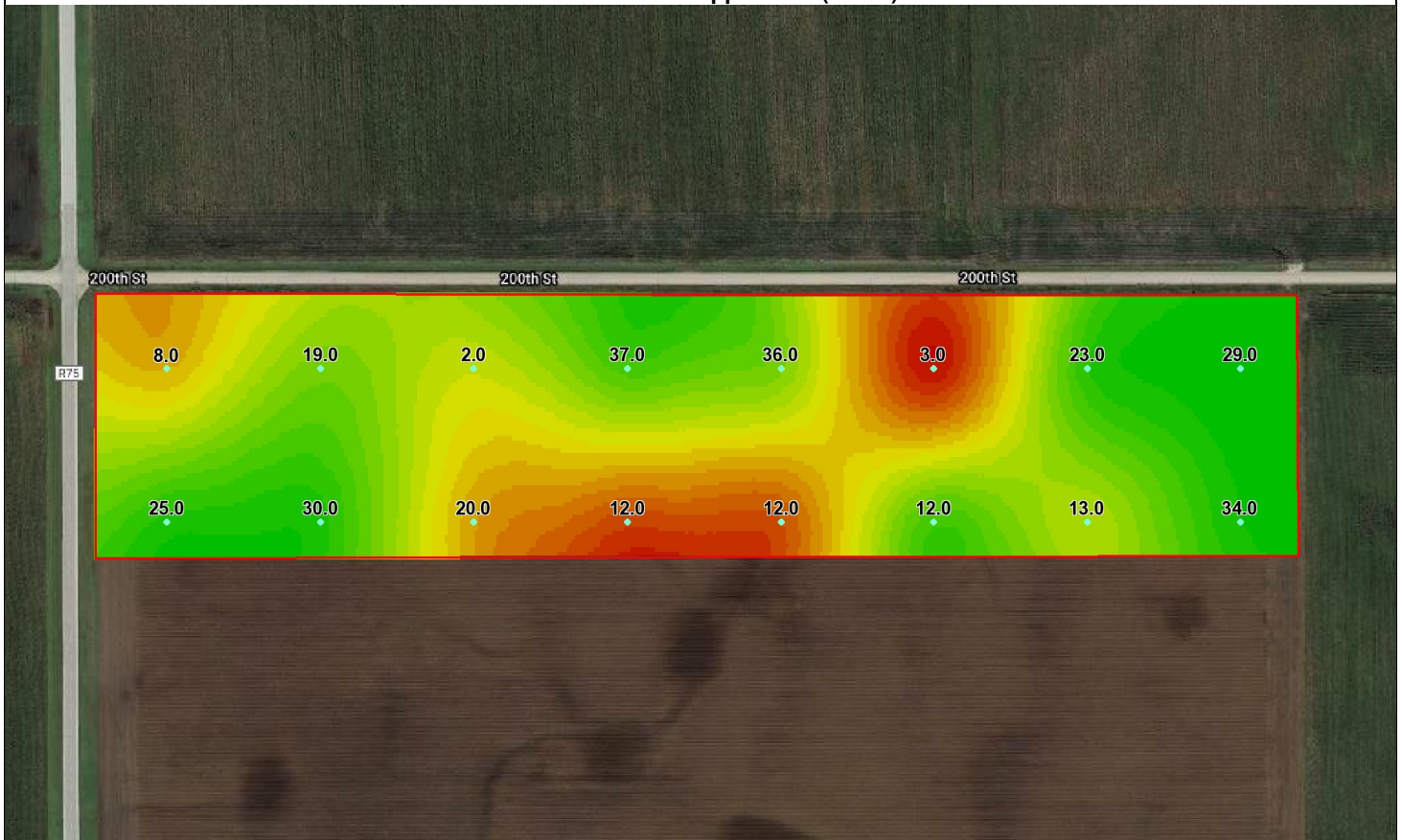
Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
South Don Williams	27 SWNENE 89N 23W	--	Hamilton	153.49 ac	42.496491, -93.543212

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm N35

11-52-0 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 90
Removal Type: CSR2 Yield Goal: 220

Max Rate: 200.0 lbs/ac Multiplier: N/A
Min Rate: 100.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 120.0 lbs/ac
Maximum Application Rate: 160.0 lbs/ac
Average Application Rate: 134.79 lbs/ac
Application Area: 32.98 ac
Average Field Rate: 134.79 lbs/ac
Total Area: 32.98 ac

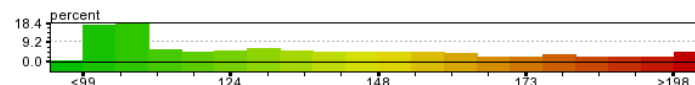
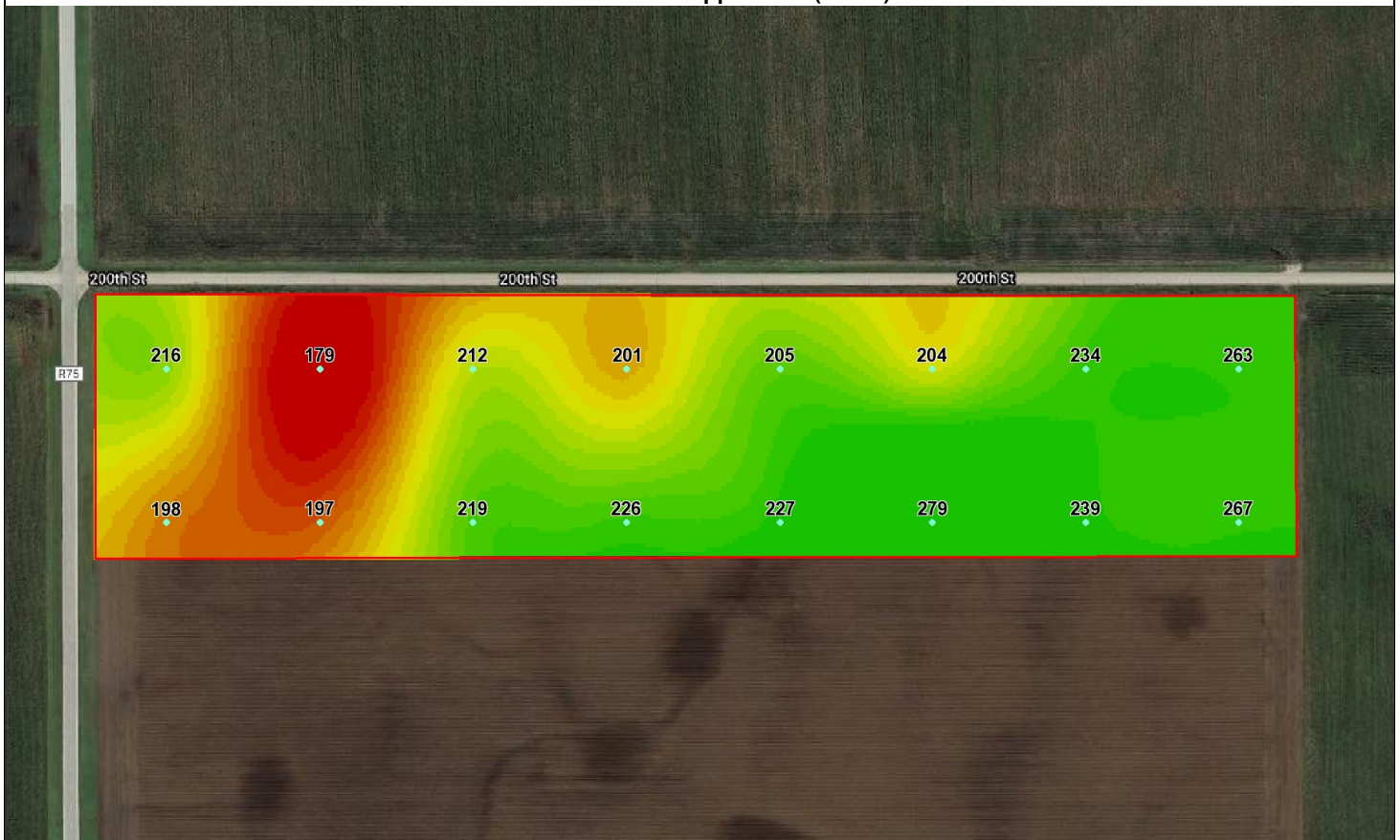
Total Product: 4445.21 lbs
Total Product Bulk: 2.22 ton
Product Cost / Bulk: \$765.0/ton
Total Product Price: \$1700.29
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$1700.29

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm N35

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



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 90
Removal Type: CSR2 Yield Goal: 220

Max Rate: 200.0 lbs/ac Multiplier: N/A
Min Rate: 100.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 100.0 lbs/ac
Maximum Application Rate: 200.0 lbs/ac
Average Application Rate: 133.86 lbs/ac
Application Area: 32.98 ac
Average Field Rate: 133.86 lbs/ac
Total Area: 32.98 ac

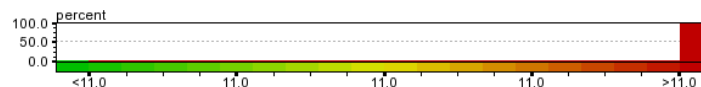
Total Product: 4414.55 lbs
Total Product Bulk: 2.21 ton
Product Cost / Bulk: \$530.0/ton
Total Product Price: \$1169.85
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$1169.85

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm N35

Sulfur 90 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 90
Removal Type: CSR2 Yield Goal: 220

Max Rate: 11.0 lbs/ac Multiplier: N/A
Min Rate: 11.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 11.0 lbs/ac
Maximum Application Rate: 11.0 lbs/ac
Average Application Rate: 11.0 lbs/ac
Application Area: 32.98 ac
Average Field Rate: 11.00 lbs/ac
Total Area: 32.98 ac

Total Product: 362.78 lbs
Total Product Bulk: 0.18 ton
Product Cost / Bulk: \$600.0/ton
Total Product Price: \$108.83
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$108.83

Fertilizer Application Summary

Grower: XXXXXXXXXX
Farm: Winfield Acres
Field(s): South Farm N35

Commodity: Corn
Labs: Midwest Labs

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
11-52-0	100	200.0 lbs/ac	100.0 lbs/ac	0.00	0.0 lbs/ac
0-0-60	100	200.0 lbs/ac	100.0 lbs/ac	0.00	0.0 lbs/ac
Sulfur 90	100	11.0 lbs/ac	11.0 lbs/ac	0.00	0.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
11-52-0	4445.21 (lbs)	2.22 ton	32.98	\$765.0/ton	\$1700.29	\$51.56/ac
0-0-60	4414.55 (lbs)	2.21 ton	32.98	\$530.0/ton	\$1169.85	\$35.47/ac
Sulfur 90	362.78 (lbs)	0.18 ton	32.98	\$600.0/ton	\$108.83	\$3.3/ac
Application				\$0.0 /ac	\$0.0	\$0.0/ac
Totals					\$2978.97	\$90.33/ac

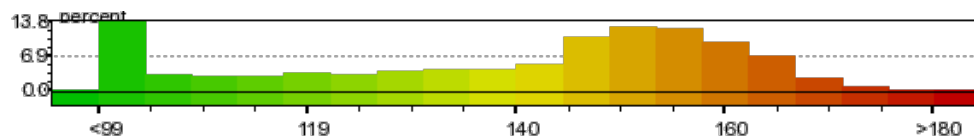
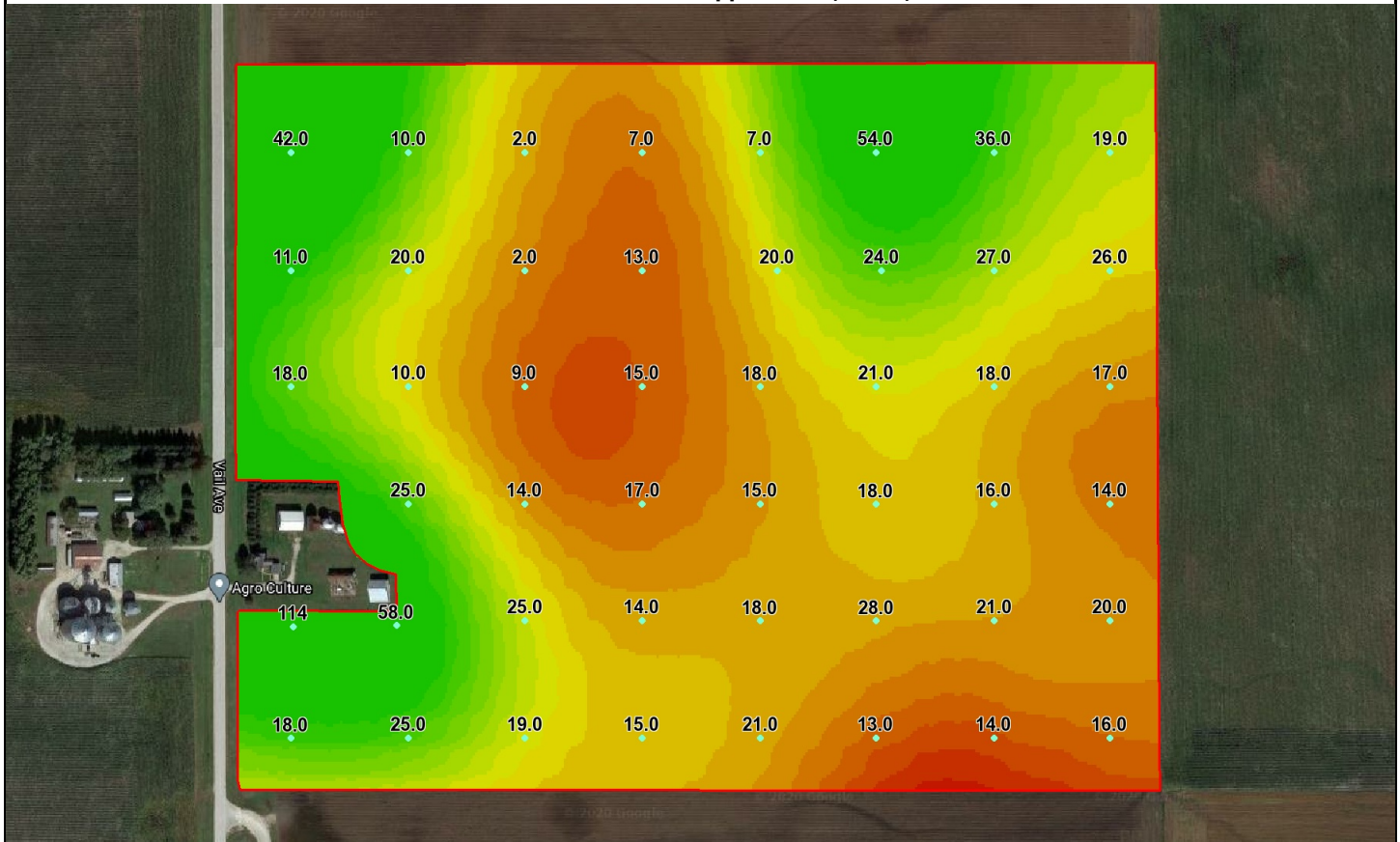
Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
South Farm N35	27 NWNENE 89N 23W	--	Hamilton	33.75 ac	42.499270, -93.543346

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

11-52-0 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints:

Build Years: 4	CSR2: 90	Max Rate: 200.0 lbs/ac	Multiplier: N/A
Removal Type: CSR2	Yield Goal: 220	Min Rate: 100.0 lbs/ac	Subtract: N/A
		Switch Rate: 0.0 lbs/ac	

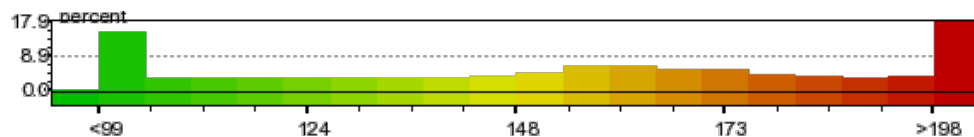
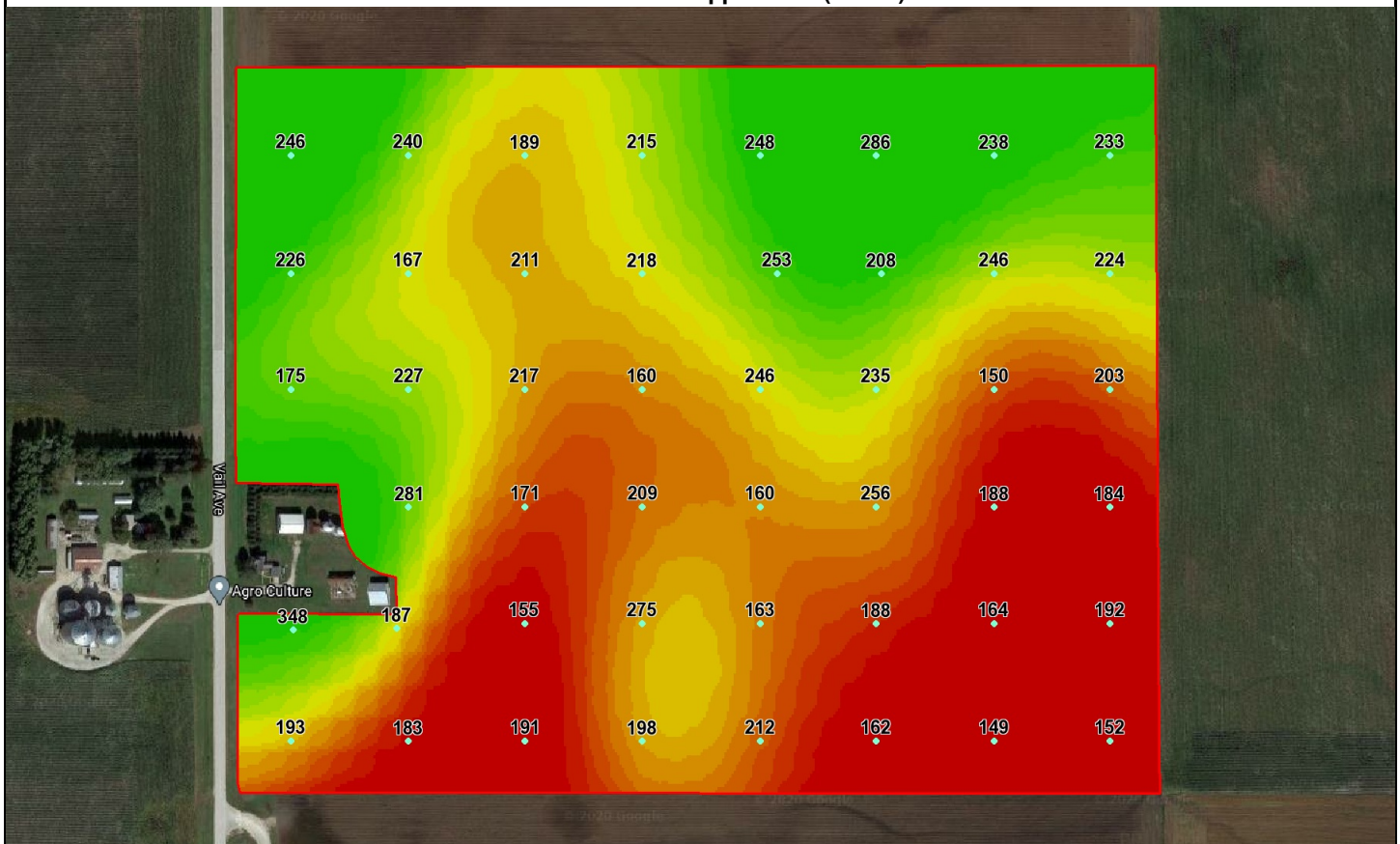
Minimum Application Rate:	100.0 lbs/ac	Total Product:	16653.45 lbs
Maximum Application Rate:	175.0 lbs/ac	Total Product Bulk:	8.33 ton
Average Application Rate:	138.19 lbs/ac	Product Cost / Bulk:	\$390.0/ton
Application Area:	120.51 ac	Total Product Price:	\$3247.42
Average Field Rate:	138.19 lbs/ac	Application Cost / Area:	\$0.0/ac
Total Area:	120.51 ac	Total Application Cost:	\$0.0
		Total Cost:	\$3247.42

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

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



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Corn

Sample Date: 2020-06-09

Constraints:

Build Years: 4 CSR2: 90
Removal Type: CSR2 Yield Goal: 220

Max Rate: 200.0 lbs/ac Multiplier: N/A
Min Rate: 100.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate:	100.0 lbs/ac	Total Product:	18591.88 lbs
Maximum Application Rate:	200.0 lbs/ac	Total Product Bulk:	9.30 ton
Average Application Rate:	154.28 lbs/ac	Product Cost / Bulk:	\$310.0/ton
Application Area:	120.51 ac	Total Product Price:	\$2881.74
Average Field Rate:	154.28 lbs/ac	Application Cost / Area:	\$0.0/ac
Total Area:	120.51 ac	Total Application Cost:	\$0.0
		Total Cost:	\$2881.74

Fertilizer Application Summary

Grower: XXXXXXXXXX
Farm: Winfield Acres
Field(s): South Farm S125

Commodity: Corn
Labs: Midwest Labs

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
11-52-0	100	200.0 lbs/ac	100.0 lbs/ac	0.00	0.0 lbs/ac
0-0-60	100	200.0 lbs/ac	100.0 lbs/ac	0.00	0.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
11-52-0	16653.45 (lbs)	8.33 ton	120.51	\$390.0/ton	\$3247.42	\$26.95/ac
0-0-60	18591.88 (lbs)	9.30 ton	120.51	\$310.0/ton	\$2881.74	\$23.91/ac
Application				\$0.0 /ac	\$0.0	\$0.0/ac
Totals					\$6129.16	\$50.86/ac

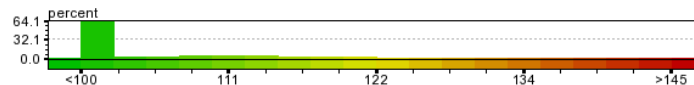
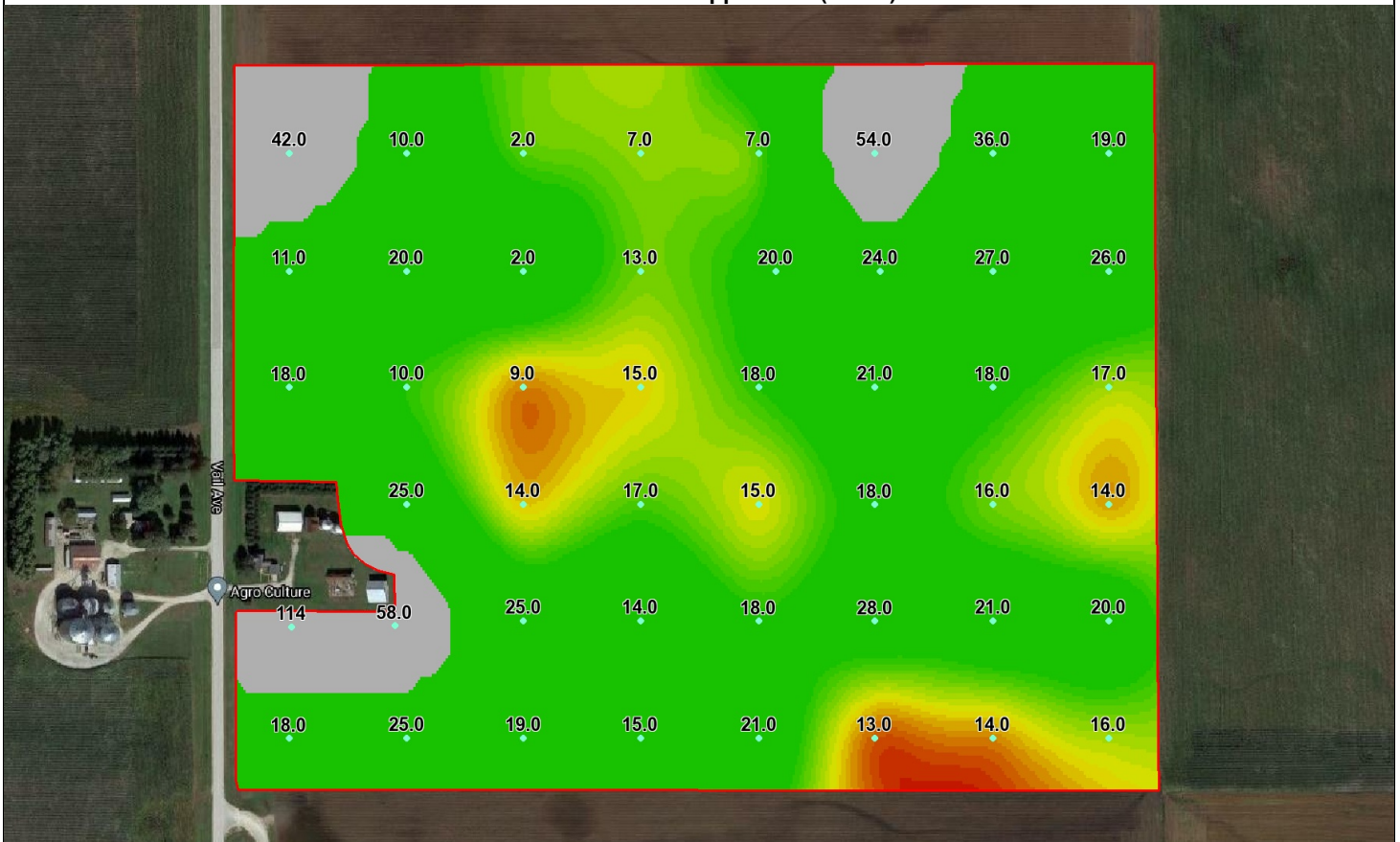
Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
South Farm S125	27 NWSENE 89N 23W	--	Hamilton	119.45 ac	42.495700, -93.543212

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

11-52-0 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Soybeans

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 75
Removal Type: CSR2 Yield Goal: 70 bu/ac

Max Rate: 200.0 lbs/ac Multiplier: N/A
Min Rate: 100.0 lbs/ac Subtract: N/A
Switch Rate: 50.0 lbs/ac

Minimum Application Rate: 100.0 lbs/ac
Maximum Application Rate: 145.0 lbs/ac
Average Application Rate: 105.57 lbs/ac
Application Area: 111.1 ac
Average Field Rate: 96.67 lbs/ac
Total Area: 121.33 ac

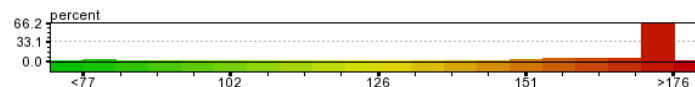
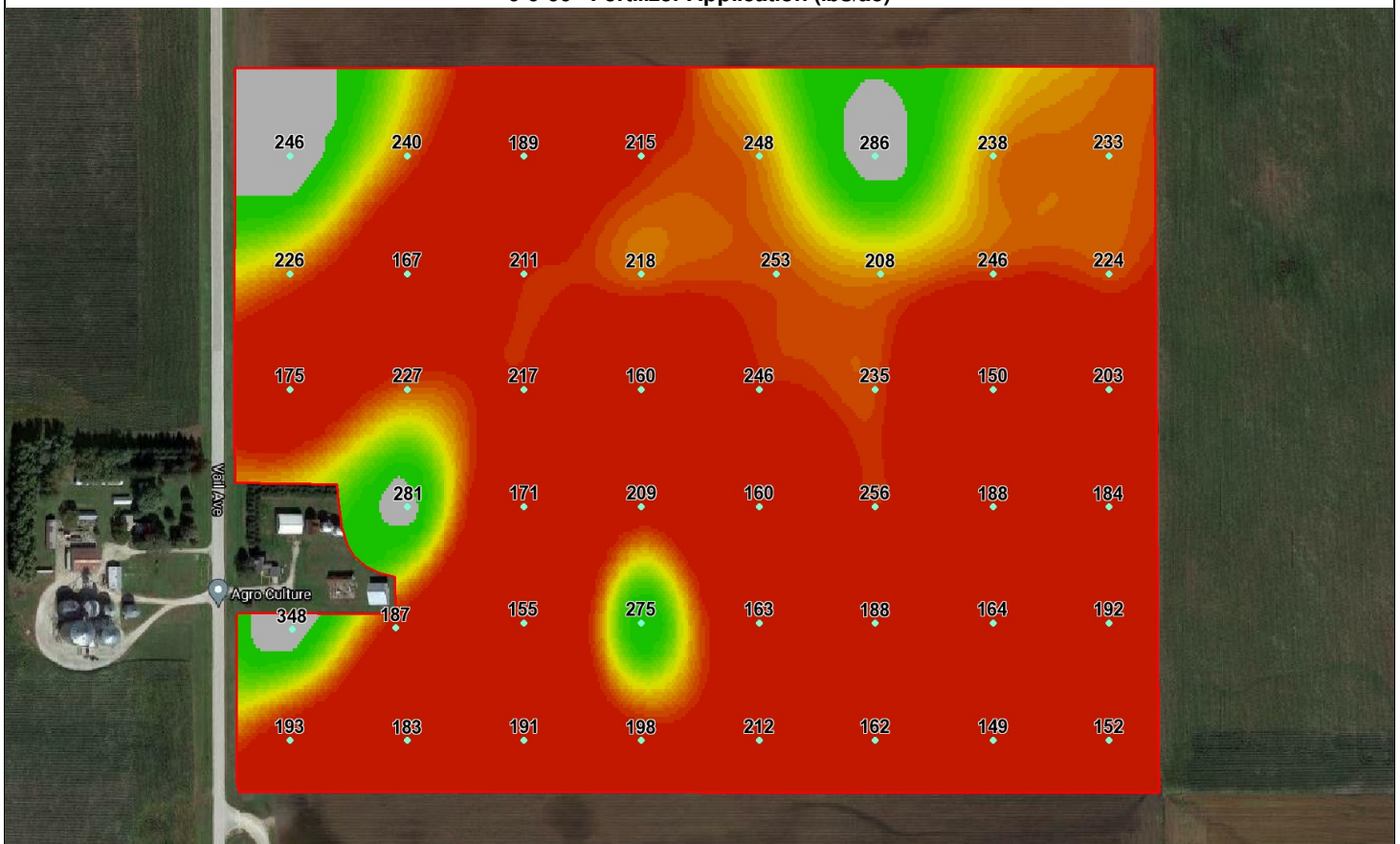
Total Product: 11728.58 lbs
Total Product Bulk: 5.86 ton
Product Cost / Bulk: \$765.0/ton
Total Product Price: \$4486.18
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$4486.18

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

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



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Soybeans

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 75
Removal Type: CSR2 Yield Goal: 70 bu/ac

Max Rate: 175.0 lbs/ac Multiplier: N/A
Min Rate: 80.0 lbs/ac Subtract: N/A
Switch Rate: 50.0 lbs/ac

Minimum Application Rate: 80.0 lbs/ac
Maximum Application Rate: 175.0 lbs/ac
Average Application Rate: 162.22 lbs/ac
Application Area: 117.37 ac
Average Field Rate: 156.93 lbs/ac
Total Area: 121.33 ac

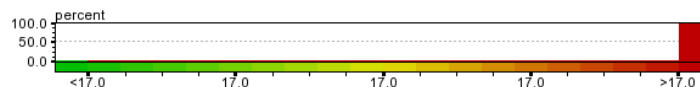
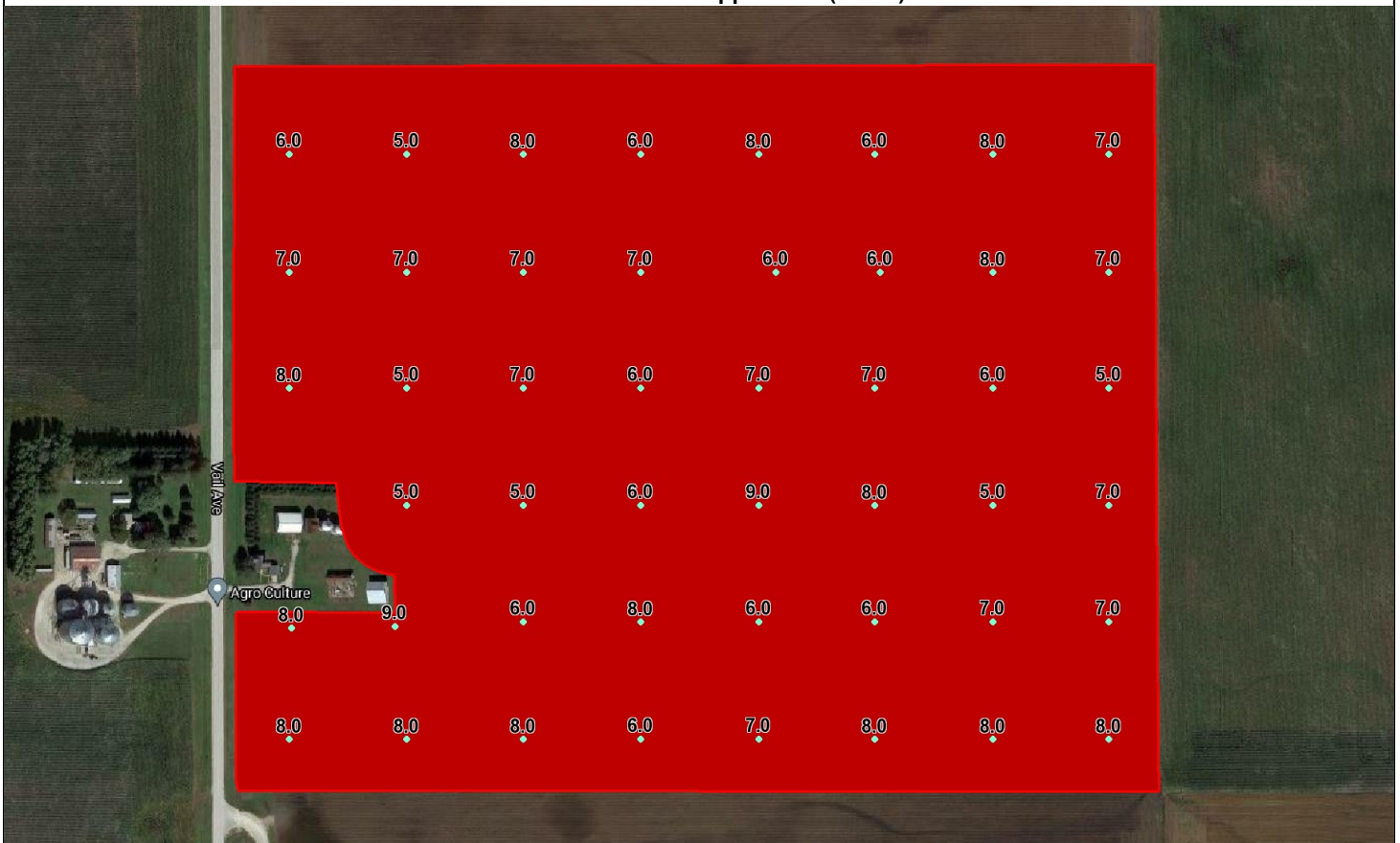
Total Product: 19039.99 lbs
Total Product Bulk: 9.52 ton
Product Cost / Bulk: \$530.0/ton
Total Product Price: \$5045.6
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$5045.6

Grower: [REDACTED]

Farm: Winfield Acres

Field(s): South Farm S125

Sulfur 90 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs

Custom Eq: AgronomyRx Recs

Commodity: Soybeans

Sample Date: 2020-06-09

Constraints: *Value is overwritten by zone values

Build Years: 4 *CSR2: 75
Removal Type: CSR2 Yield Goal: 70 bu/ac

Max Rate: 17.0 lbs/ac Multiplier: N/A
Min Rate: 17.0 lbs/ac Subtract: N/A
Switch Rate: 0.0 lbs/ac

Minimum Application Rate: 17.0 lbs/ac
Maximum Application Rate: 17.0 lbs/ac
Average Application Rate: 17.0 lbs/ac
Application Area: 121.33 ac
Average Field Rate: 17.00 lbs/ac
Total Area: 121.33 ac

Total Product: 2062.61 lbs
Total Product Bulk: 1.03 ton
Product Cost / Bulk: \$650.0/ton
Total Product Price: \$670.35
Application Cost / Area: \$0.0/ac
Total Application Cost: \$0.0
Total Cost: \$670.35

Fertilizer Application Summary

Grower: XXXXXXXXXX
Farm: Winfield Acres
Field(s): South Farm S125

Commodity: Soybeans
Labs: Midwest Labs

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
11-52-0	100	200.0 lbs/ac	100.0 lbs/ac	0.00	50.0 lbs/ac
0-0-60	100	175.0 lbs/ac	80.0 lbs/ac	0.00	50.0 lbs/ac
Sulfur 90	100	17.0 lbs/ac	17.0 lbs/ac	0.00	0.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
11-52-0	11728.58 (lbs)	5.86 ton	111.10	\$765.0/ton	\$4486.18	\$36.97/ac
0-0-60	19039.99 (lbs)	9.52 ton	117.37	\$530.0/ton	\$5045.6	\$41.59/ac
Sulfur 90	2062.61 (lbs)	1.03 ton	121.33	\$650.0/ton	\$670.35	\$5.53/ac
Application				\$0.0 /ac	\$0.0	\$0.0/ac
Totals					\$10202.13	\$84.09/ac

Field Summary					
Field	PLS ID	FSA ID	County	Area	Centroid
South Farm S125	27 NWSENE 89N 23W	--	Hamilton	119.45 ac	42.495700, -93.543212