AgriVision solutions

Intensive Soil Management

CERTIFIED CROP ADVISER

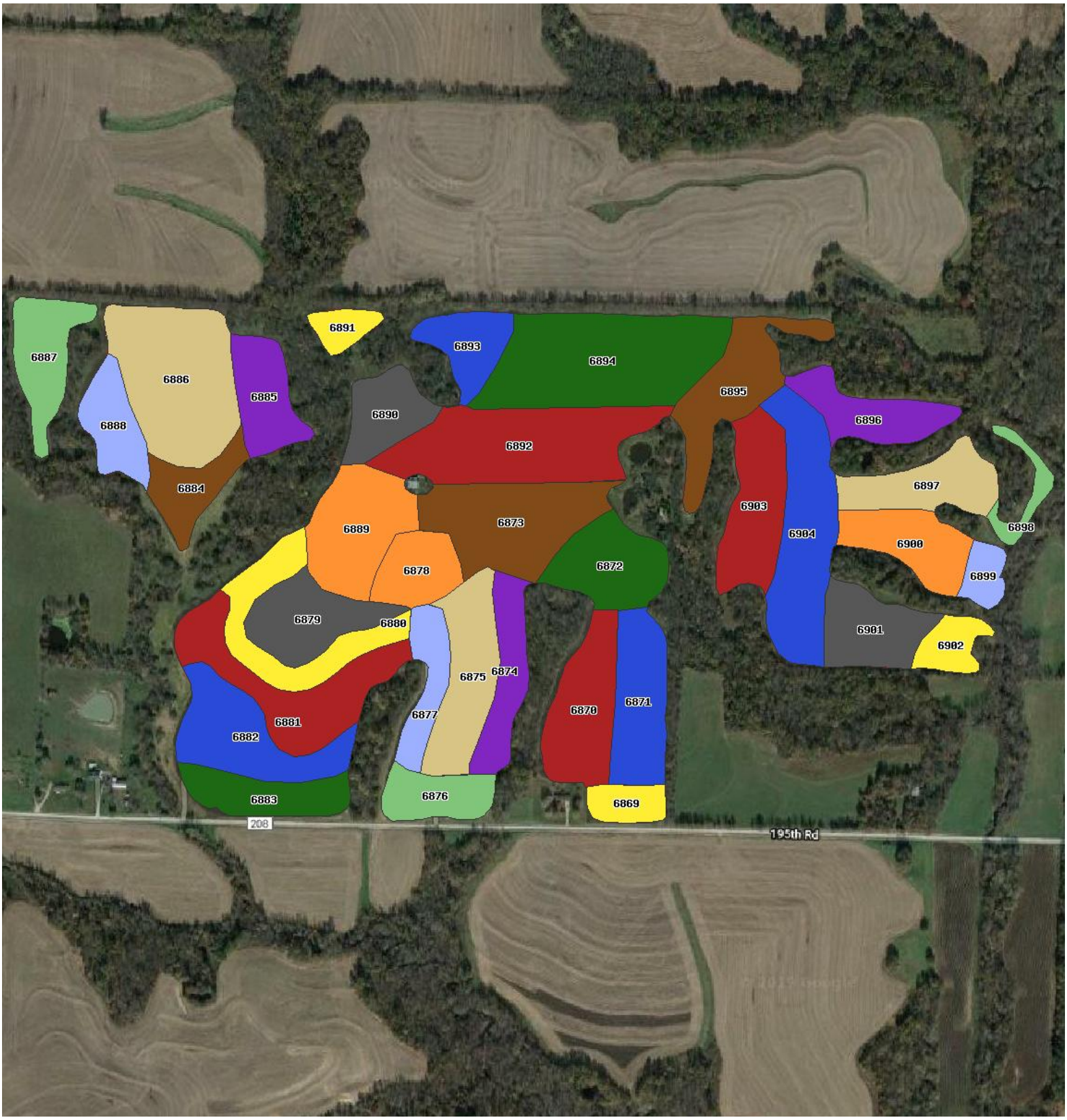
Grower: **Farm:** **Field:**

Soil Type	Soil Name	Area (ac)
10004	Arispe silt loam, 5 to 9 percent slopes, eroded	48.64
10077	Macksburg silt loam, 0 to 5 percent slopes	30.31
60234	Weller silt loam, 2 to 5 percent slopes	2.79
66004	Dockery silt loam, 0 to 2 percent slopes, frequently flooded	2.44
10025	Higginsville silt loam, 2 to 5 percent slopes	70.28
60028	Weller silt loam, 5 to 9 percent slopes, eroded	18.06

Agrivision Solutions
409 E Hwy 24
Salisbury, MO 65281
660-388-6101

Master Soil Book
Sample ID Map

Grower: Farm: Field:



Date: 2018-03-21 Lab: Midwest Labs Area: 172.52 acres

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660-388-6101

03/21/19 01:43 PM

Master Soil Book

Location	Grower	Farm	Field	Area	Centroid
Agrivision Solutions				172.52 acres	

	Min	Max	Avg
P	4.0	49.0	12.2
Bray P1	4.0	49.0	12.2
Bray P2	6.0	83.0	17.6
K	46.0	248	107
Mg	112	474	258
Ca	821	2691	1748
S	5.0	14.0	8.6
Zn	0.60	4.9	1.3
pH	5.6	7.3	6.2
bpH	6.6	7.1	6.8
OM	1.3	3.0	2.2
CEC	5.9	18.0	12.8
%K	1.4	5.5	2.2
%Mg	11.8	21.9	16.7
%Ca	58.3	86.8	68.6
%H	0.00	23.1	12.5
HMeq	0.00	3.1	1.6

Sample Date: 2018-03-21 Soil Lab: Midwest Labs

ID	P ppm	Bray P1 ppm	Bray P2 ppm	K ppm	Mg ppm	Ca ppm	S ppm	Zn ppm	pH	bpH	OM %	CEC	%K %	%Mg %	%Ca %	%H %	HMeq meq
6869	22.0	22.0	25.0	85.0	219	2691	8.0	2.5	7.3	7.1	2.8	15.5	1.4	11.8	86.8	0.00	0.00
6870	10.0	10.0	15.0	100	308	2059	7.0	1.1	6.2	6.7	2.3	14.9	1.7	17.2	69.1	12.0	1.8
6871	15.0	15.0	21.0	91.0	192	1686	8.0	1.4	6.1	6.7	2.2	12.0	1.9	13.3	70.2	14.6	1.7
6872	12.0	12.0	13.0	123	192	1770	9.0	1.3	6.1	6.7	2.7	12.6	2.5	12.7	70.2	14.6	1.8
6873	9.0	9.0	10.0	91.0	259	1713	10.0	1.0	6.2	6.8	2.3	12.5	1.9	17.3	68.5	12.3	1.5
6874	17.0	17.0	26.0	129	446	2242	8.0	1.0	6.1	6.7	2.3	17.8	1.9	20.9	63.0	14.2	2.5
6875	8.0	8.0	11.0	87.0	238	1772	8.0	0.80	6.3	6.8	2.1	12.4	1.8	16.0	71.5	10.7	1.3
6876	7.0	7.0	10.0	88.0	333	1795	8.0	0.60	6.2	6.8	1.8	13.6	1.7	20.4	66.0	11.9	1.6
6877	11.0	11.0	19.0	93.0	222	1455	7.0	0.60	6.2	6.8	1.3	10.7	2.2	17.3	68.0	12.5	1.3
6878	17.0	17.0	28.0	97.0	351	2153	7.0	1.6	6.6	6.9	2.2	14.8	1.7	19.8	72.7	5.8	0.90
6879	12.0	12.0	19.0	93.0	227	1906	5.0	0.90	7.2	7.1	1.9	11.7	2.0	16.2	81.8	0.00	0.00
6880	7.0	7.0	15.0	117	333	2081	8.0	1.0	6.8	7.1	2.3	13.5	2.2	20.6	77.2	0.00	0.00
6881	10.0	10.0	16.0	121	239	1722	7.0	1.0	6.7	7.1	2.2	10.9	2.8	18.3	78.9	0.00	0.00

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ID	P ppm	Bray P1 ppm	Bray P2 ppm	K ppm	Mg ppm	Ca ppm	S ppm	Zn ppm	pH	bpH	OM %	CEC	%K %	%Mg %	%Ca %	%H %	HMeq meq
6882	49.0	49.0	83.0	248	222	1811	7.0	1.8	7.1	7.1	2.8	11.5	5.5	16.1	78.4	0.00	0.00
6883	19.0	19.0	27.0	121	201	1559	6.0	1.8	6.7	7.1	2.1	9.8	3.2	17.1	79.7	0.00	0.00
6884	15.0	15.0	17.0	114	179	1598	9.0	1.5	6.0	6.7	2.1	11.5	2.5	13.0	69.5	15.0	1.7
6885	5.0	5.0	8.0	92.0	246	1698	7.0	1.0	6.1	6.7	2.2	12.6	1.9	16.3	67.4	14.4	1.8
6886	11.0	11.0	13.0	46.0	112	821	6.0	1.0	6.2	6.9	2.7	5.9	2.0	15.8	69.6	12.6	0.70
6887	10.0	10.0	13.0	97.0	289	2274	7.0	0.90	6.4	6.8	2.4	15.4	1.6	15.6	73.8	9.0	1.4
6888	4.0	4.0	6.0	88.0	271	1977	7.0	0.80	6.2	6.7	2.2	14.1	1.6	16.0	70.1	12.3	1.7
6889	24.0	24.0	36.0	221	240	1821	7.0	4.9	6.3	6.8	3.0	13.1	4.3	15.3	69.5	10.9	1.4
6890	6.0	6.0	10.0	111	273	1767	8.0	2.1	6.1	6.7	2.7	13.3	2.1	17.1	66.4	14.4	1.9
6891	13.0	13.0	20.0	137	298	1832	8.0	2.4	5.9	6.7	2.6	14.5	2.4	17.1	63.2	17.3	2.5
6892	8.0	8.0	14.0	98.0	211	1537	9.0	1.3	5.7	6.7	2.9	12.3	2.0	14.3	62.5	21.2	2.6
6893	9.0	9.0	12.0	83.0	275	1734	9.0	1.2	5.7	6.6	3.0	14.2	1.5	16.1	61.1	21.3	3.0
6894	7.0	7.0	8.0	146	279	1752	11.0	1.2	5.9	6.7	2.8	13.8	2.7	16.8	63.5	17.0	2.3
6895	5.0	5.0	11.0	102	296	1782	8.0	0.90	6.0	6.7	2.2	13.7	1.9	18.0	65.0	15.1	2.1
6896	6.0	6.0	7.0	68.0	209	1272	12.0	0.90	5.7	6.7	1.6	10.5	1.7	16.6	60.6	21.1	2.2
6897	10.0	10.0	14.0	79.0	204	1387	11.0	0.90	5.9	6.7	1.8	10.6	1.9	16.0	65.4	16.7	1.8
6898	20.0	20.0	29.0	90.0	200	1344	10.0	1.1	5.7	6.7	1.6	10.9	2.1	15.3	61.7	20.9	2.3
6899	17.0	17.0	23.0	98.0	269	1600	10.0	1.1	5.9	6.7	1.8	12.6	2.0	17.8	63.5	16.7	2.1
6900	4.0	4.0	7.0	103	332	1695	12.0	0.80	5.8	6.7	2.2	14.2	1.9	19.5	59.7	18.9	2.7
6901	7.0	7.0	8.0	126	474	2127	13.0	0.60	5.9	6.6	1.8	18.0	1.8	21.9	59.1	17.2	3.1
6902	16.0	16.0	20.0	97.0	228	1522	12.0	1.0	6.2	6.8	2.1	11.1	2.2	17.1	68.6	12.1	1.3
6903	7.0	7.0	8.0	94.0	259	1505	14.0	1.2	5.6	6.6	2.0	12.9	1.9	16.7	58.3	23.1	3.0
6904	9.0	9.0	11.0	72.0	172	1460	8.0	1.0	6.1	6.8	1.7	10.4	1.8	13.8	70.2	14.2	1.5

Soil Test Analysis Color Key

ph		Potassium (K) ppm	
Low	0-5.2	Low	0-40
	5.2-5.7		40-80
	5.7-6.2		80-120
Optimum	6.2-6.6		120-150
	6.6-6.7	Optimum	150-200
Excessive	7.0-12		200-250
		Excessive	250-1300

Eq Humic Matter (Hmeq) meq/100g		Base Saturation - Potassium (%K) %	
	0-1	Low	0-1.5
	1.0-2.0		1.5-2.0
Optimum	2.0-3.0		2.0-2.8
	3.0-4.0	Optimum	2.8-4.0
	4.0-5.0		4.0-6.0
	5.0-10	Excessive	6.0-30

Phosphorus (Bray P1) ppm		Sulfur (S) ppm	
Low	0-5	Low	0-5
	5.-12		5.-10
	12.-18		10.-15
Optimum	18.-27	Optimum	15.-20
	27.-35		20.-25
Excessive	35.-200	Excessive	25.-90

Phosphorus (Bray P2) ppm		Zinc (Zn) ppm	
Low	0-10	Low	0-0.5
	10.-24		0.5-1
	24.-36		1-2.5
Optimum	36.-50	Optimum	2.5-4
	50.-70		4-6.2
Excessive	70.-400	Excessive	6.2-15

Calcium (Ca) ppm		Base Saturation - Calcium (%Ca) %	
Low	0-500	Low	0-65
	500-1000	Optimum	65-75
	1000-1500	Excessive	75-90
Optimum	1500-2000		
	2000-2500		
Excessive	2500-8000		

Soil Test Analysis Color Key

Magnesium (Mg) ppm	
Low	0-37
	37-75
	75-120
Optimum	120-250
	250-375
Excessive	375-1000

Base Saturation - Magnesium (%Mg) %	
Low	0-6
	6.-9
	9.-12
Optimum	12.-18
	18.-25
Excessive	25.-60

Base Saturation - Hydrogen (%H) %	
Neutral	0-3
Slightly Neutral	3.-16
Exessive	16.-40

Organic Matter (OM) %	
Very Low	0-1.2
	1.2-2
	2-2.8
(Higher The % The Better)	2.8-3.5
	3.5-5
	5.-7

Boron (B) ppm	
Low	0-0.3
	0.3-0.8
Optimum	0.8-1.5
	1.5-2.2
Excessive	2.2-3

Copper (Cu) ppm	
Low	0-0.43
	0.43-0.86
	0.86-1.29
	1.29-1.72
Optimum	1.72-2.15
	2.15-2.58
Excessive	2.58-50

Iron (Fe) ppm	
Low	0-6.71
	6.71-13.42
	13.42-20.13
	20.13-26.84
Optimum	26.84-33.55
	33.55-40.26
Excessive	40.26-200

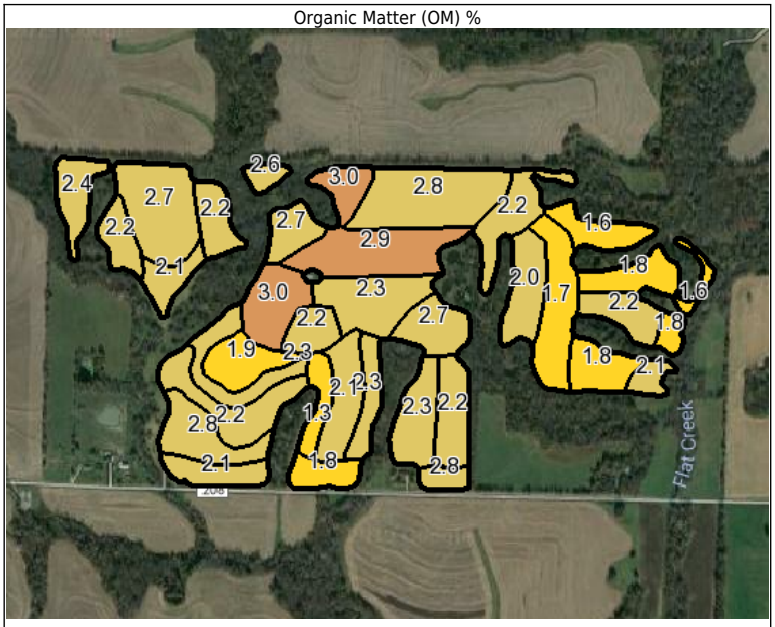
Manganese (Mn) ppm	
Low	0-6.71
	6.71-13.42
	13.42-20.13
	20.13-26.84
Optimum	26.84-33.55
	33.55-40.26
Excessive	40.26-200

Master Soil Book

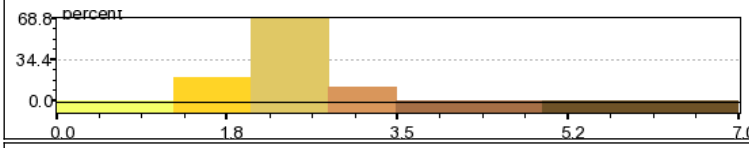
Grower:
Farm:
Field:
Area: 172.52 acres

Lab: Midwest Labs
Date: 2018-03-21
Layer ID: 1728090

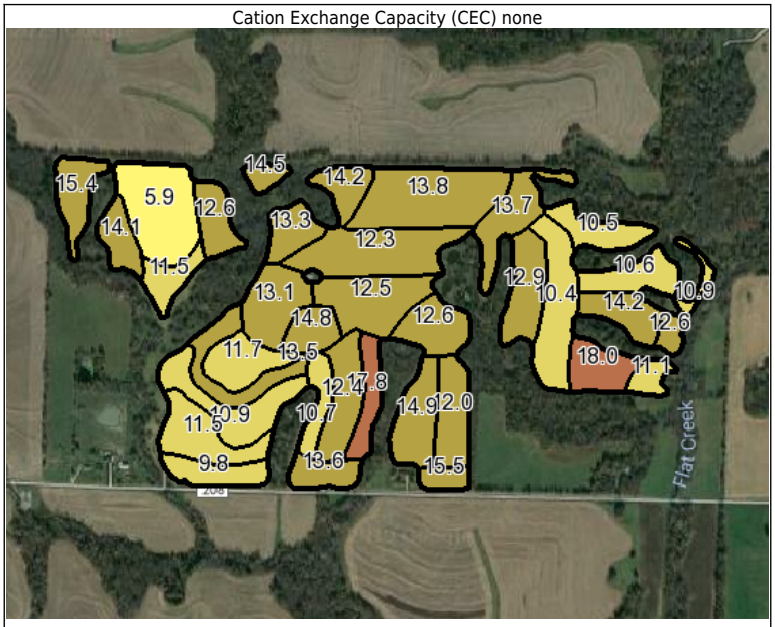
Organic Matter (OM) %



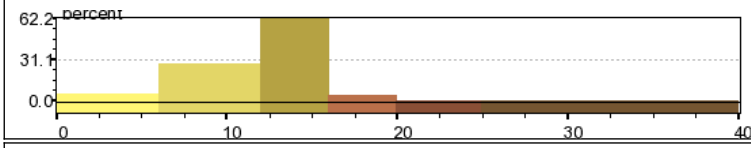
Min: 1.3 **Max:** 3.0 **Avg:** 2.2



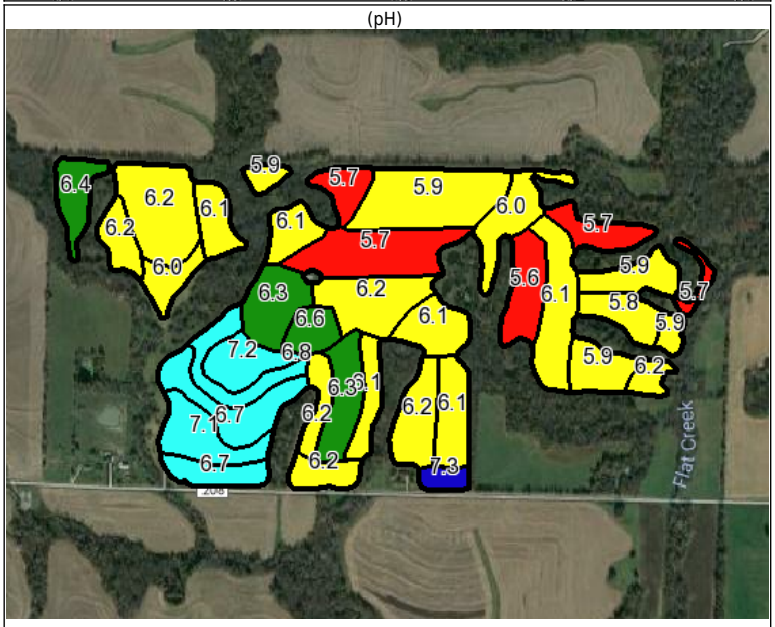
Cation Exchange Capacity (CEC) none



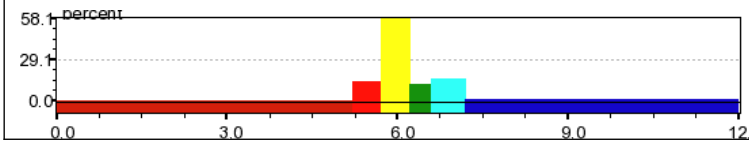
Min: 5.9 **Max:** 18.0 **Avg:** 12.8



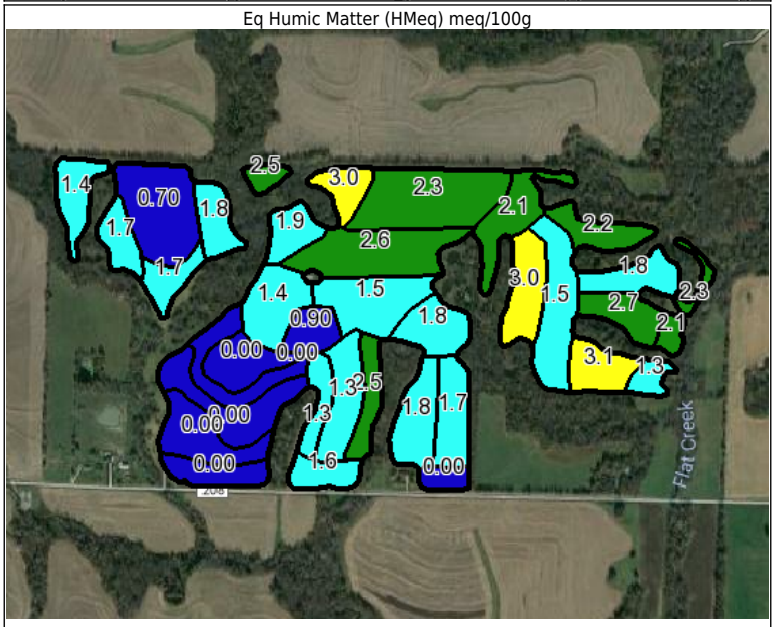
(pH)



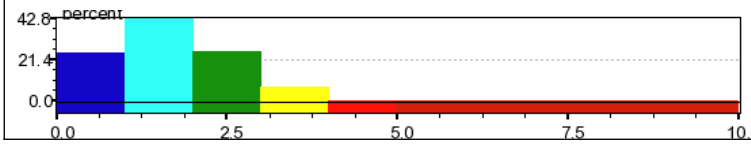
Min: 5.6 **Max:** 7.3 **Avg:** 6.2



Eq Humic Matter (HMeq) meq/100g



Min: 0.0 **Max:** 3.1 **Avg:** 1.6



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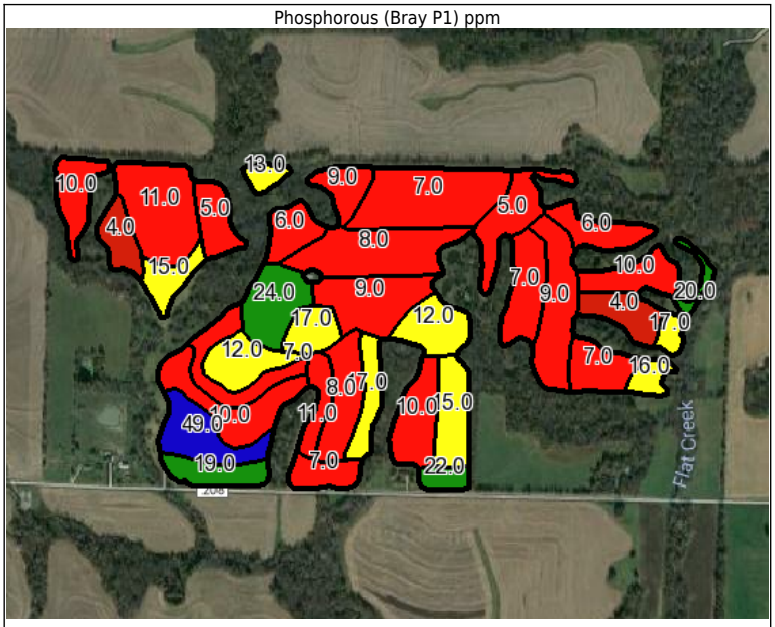
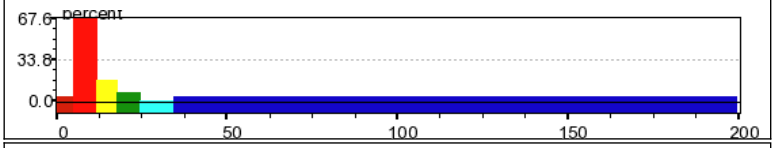
Grower:
Farm:
Field:
Area: 172.52 acres

Lab: Midwest Labs
Date: 2018-03-21
Layer ID: 1728090

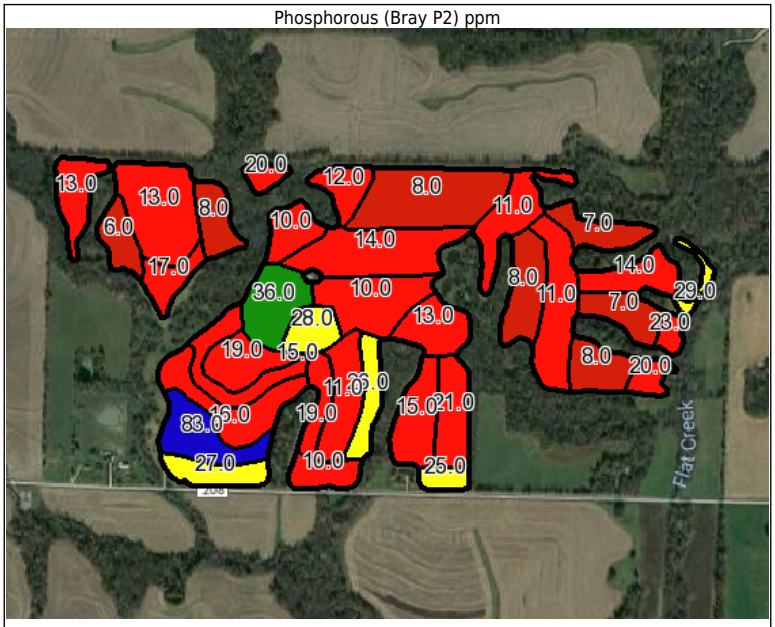
Phosphorous (Bray P1) ppm



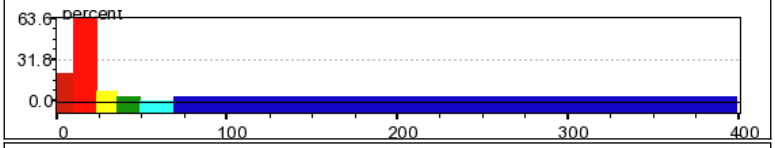
Min: 4.0 **Max:** 49.0 **Avg:** 12.2



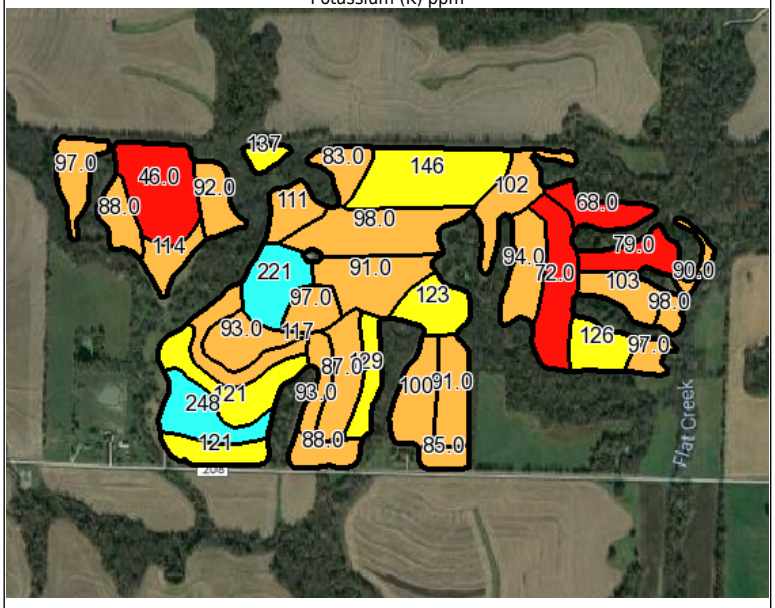
Phosphorous (Bray P2) ppm



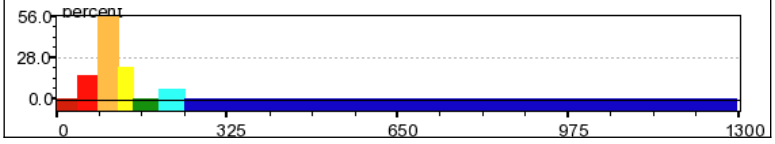
Min: 6.0 **Max:** 83.0 **Avg:** 17.6



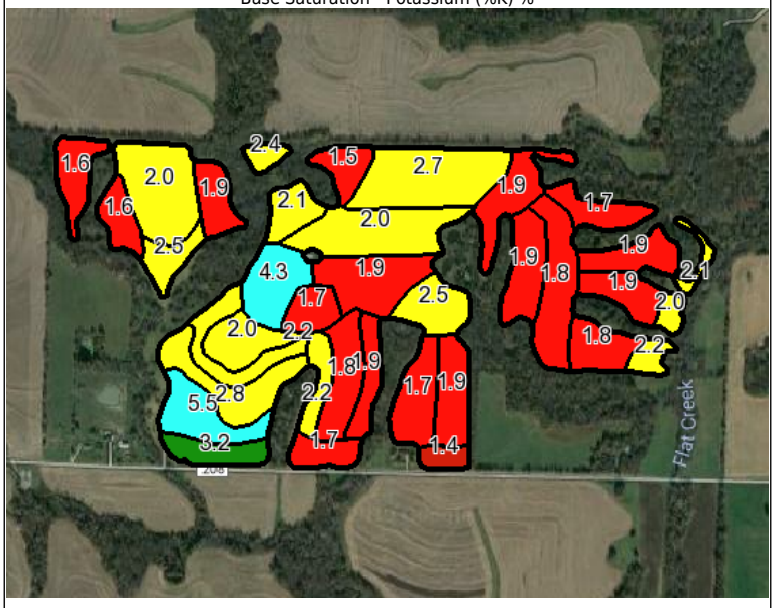
Potassium (K) ppm



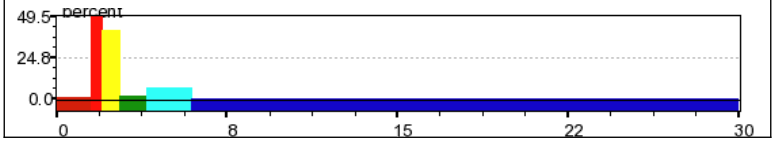
Min: 46.0 **Max:** 248.0 **Avg:** 106.8



Base Saturation - Potassium (%K) %



Min: 1.4 **Max:** 5.5 **Avg:** 2.2



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Grower:
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Field:
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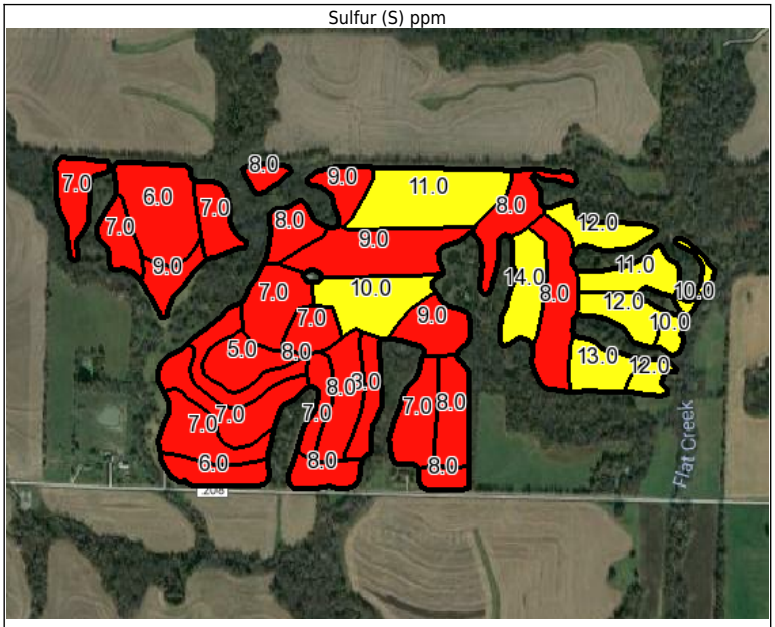
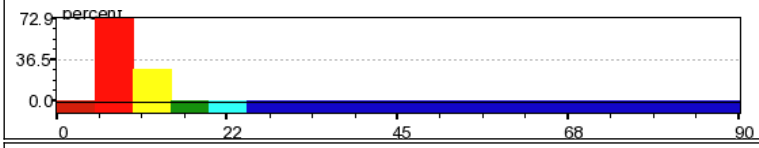
Layer ID: 1728090

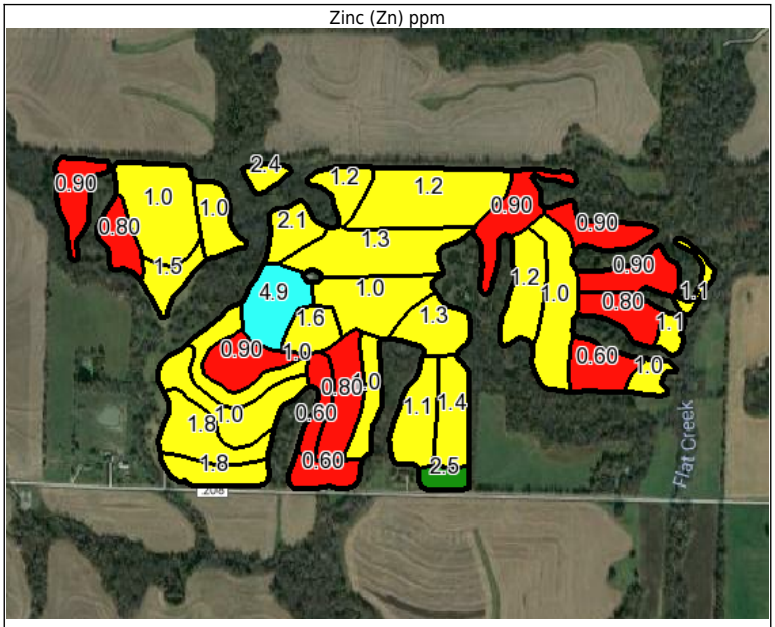
Sulfur (S) ppm



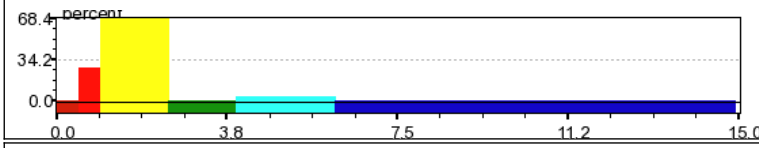
Min: 5.0 **Max:** 14.0 **Avg:** 8.6



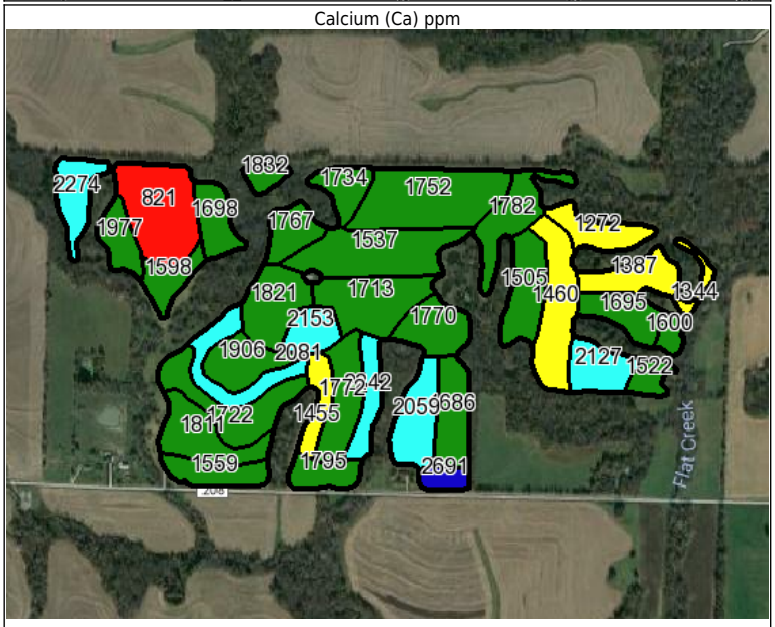
Zinc (Zn) ppm



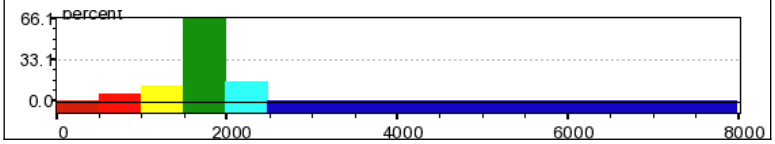
Min: 0.6 **Max:** 4.9 **Avg:** 1.3



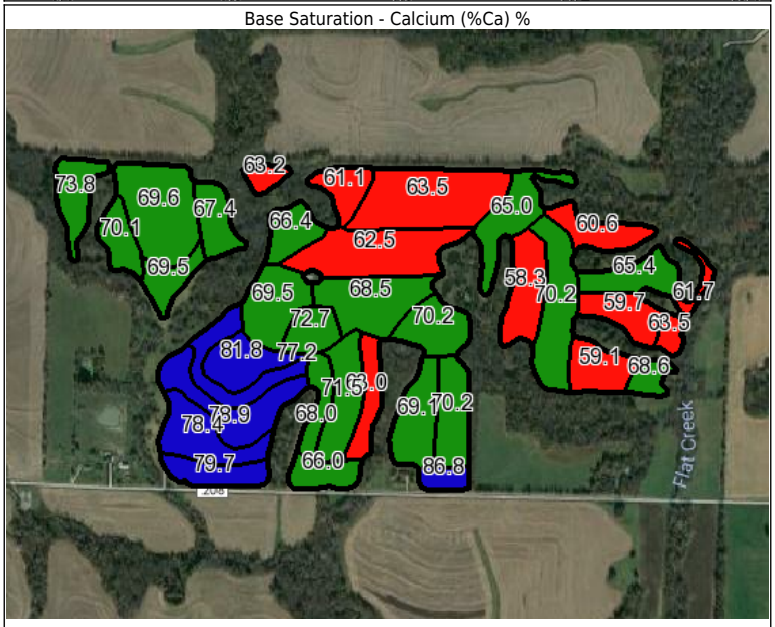
Calcium (Ca) ppm



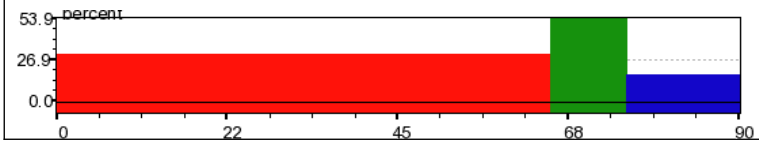
Min: 821.0 **Max:** 2691 **Avg:** 1747



Base Saturation - Calcium (%Ca) %



Min: 58.3 **Max:** 86.8 **Avg:** 68.6



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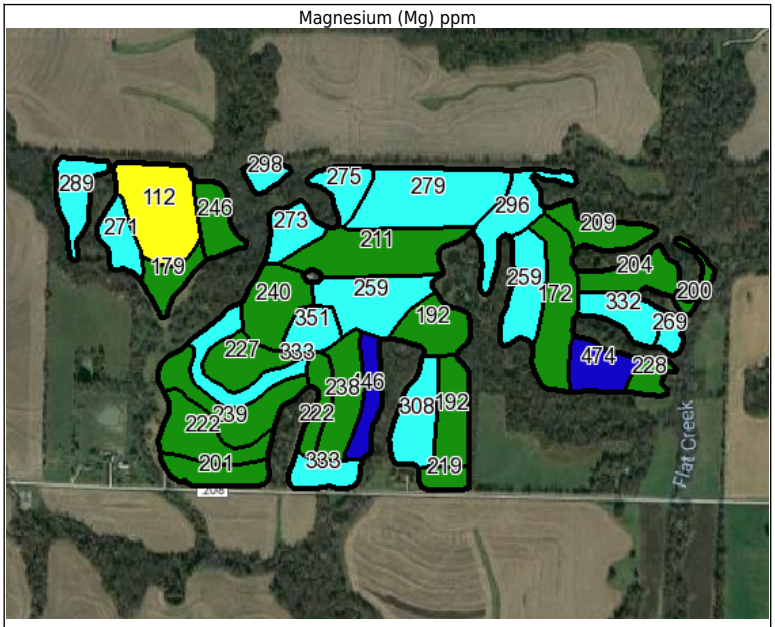
Master Soil Book

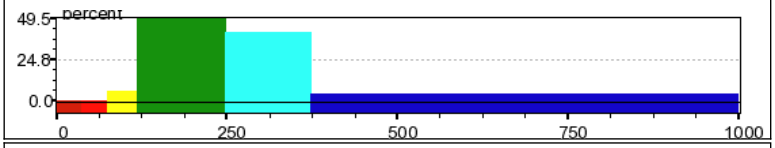
Grower:
Farm:
Field:
Area: 172.52 acres

Lab: Midwest Labs
Date: 2018-03-21
Layer ID: 1728090

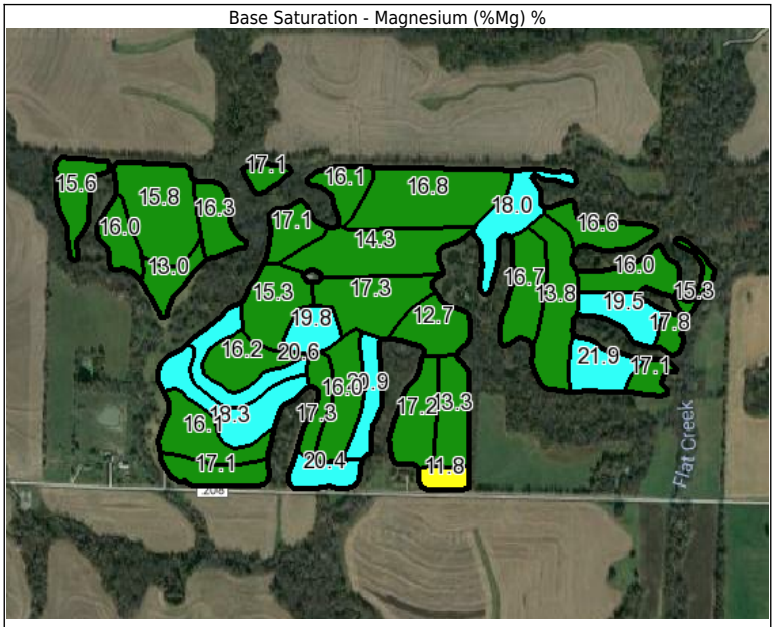
Magnesium (Mg) ppm



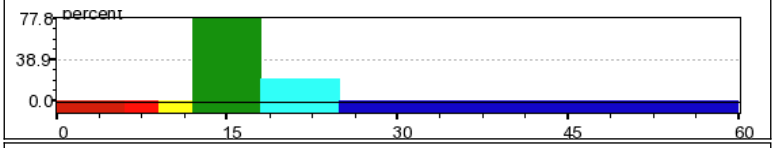
Min: 112.0 **Max:** 474.0 **Avg:** 258.3



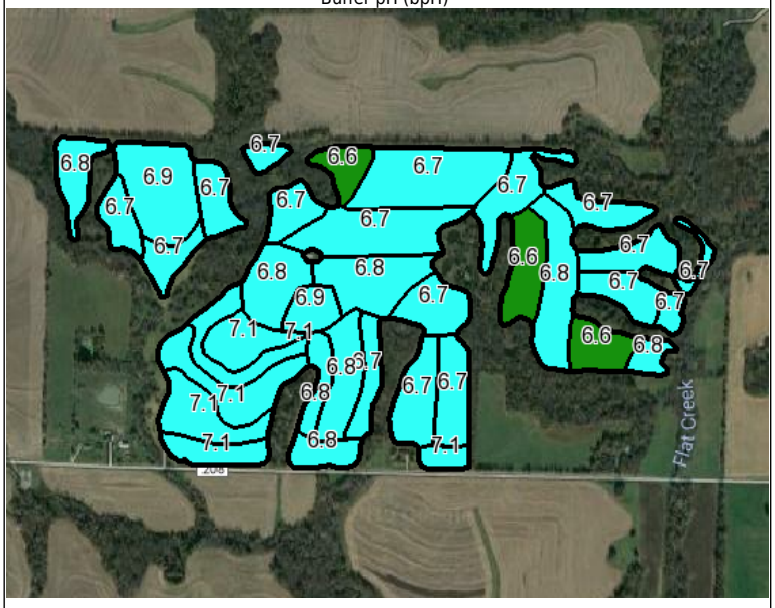
Base Saturation - Magnesium (%Mg) %



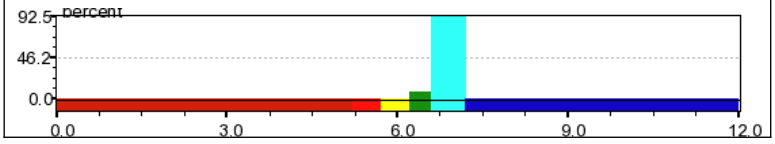
Min: 11.8 **Max:** 21.9 **Avg:** 16.7



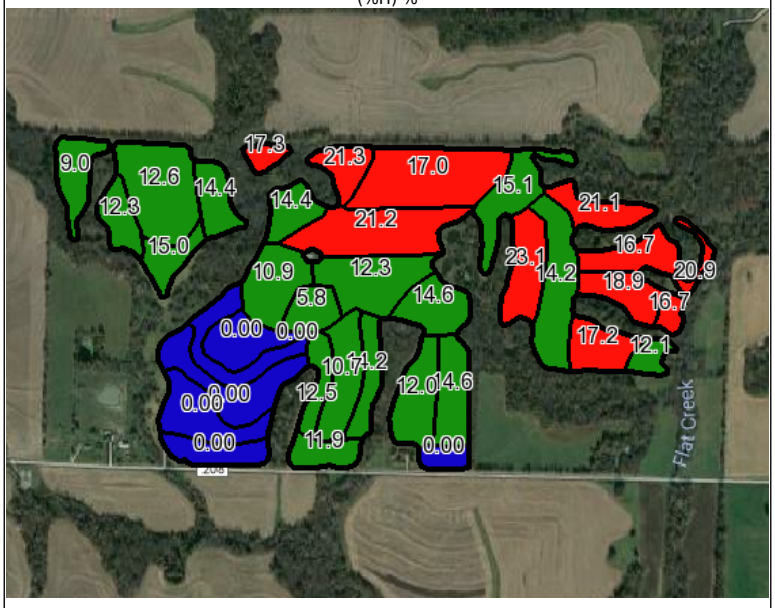
Buffer pH (bpH)



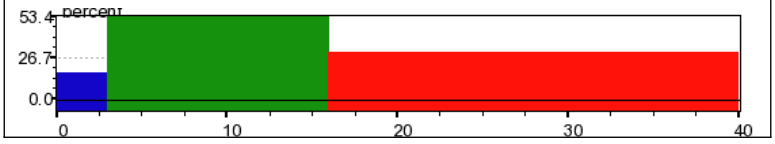
Min: 6.6 **Max:** 7.1 **Avg:** 6.8



(%H) %



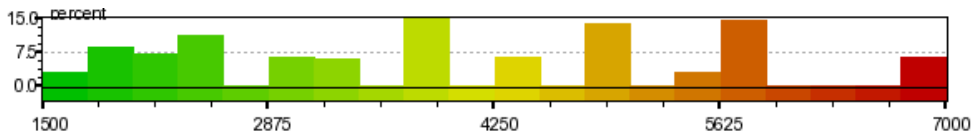
Min: 0.0 **Max:** 23.1 **Avg:** 12.5



Agrivision Solutions
409 E Hwy 24
Salisbury, MO 65281
660-388-6101

Grower: **Farm:** **Field(s):**

Lime 400 ENM - Fertilizer Application (lbs/ac)



Lab: Midwest Labs Custom Eq: Univ of MO Recs Commodity: Soybeans Sample Date: 2018-03-21

Constraints:

Years Buildup: 4 Yield Goal: 0 bu/ac

Max Rate: 7000.0 lbs/ac Multiplier: N/A
Min Rate: 1500.0 lbs/ac Subtract: N/A
Switch Rate: 500.0 lbs/ac

Minimum Application Rate:	1500.0 lbs/ac	Total Product:	557963.36 lbs
Maximum Application Rate:	7000.0 lbs/ac	Total Product Bulk:	278.98 ton
Average Application Rate:	3958.14 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	140.97 ac	Total Product Price:	$0.0
Average Field Rate:	3227.48 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	172.88 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

Fertilizer Application Summary

Grower:
Farm:
Field(s):

Commodity: Soybeans
Labs: Midwest Labs

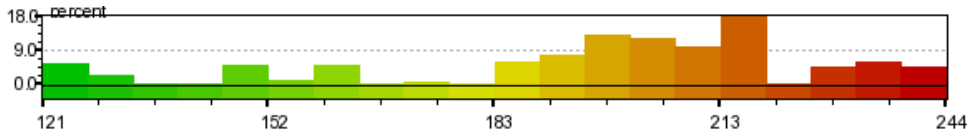
Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Lime 400 ENM	100	7000.0 lbs/ac	1500.0 lbs/ac	0.00	500.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
Lime 400 ENM	557963.36 (lbs)	278.98 ton	140.97	$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
		--		172.52 ac	

Grower: **Farm:** **Field(s):**

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



Lab: Midwest Labs | Custom Eq: AVS UofM Recs | Commodity: Corn | Sample Date: 2018-03-21

Constraints:

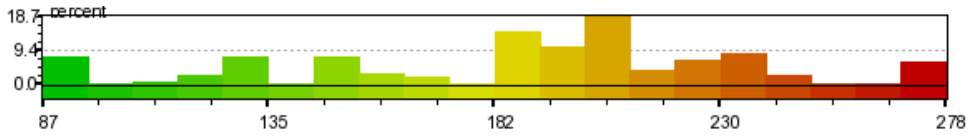
P Build Level:	40	lbs/ac	P Maint Level:	70	lbs/ac	Max Rate:	350.0 lbs/ac
Crop Rotation:	Default 1yr		Years Buildup:	4		Min Rate:	90.0 lbs/ac
Soybean YG:	0	bu/ac	Yield Goal:	180	bu/ac	Switch Rate:	30.0 lbs/ac
Crop Type:	Grain						

Multiplier:	N/A		
Subtract:	N/A		

Minimum Application Rate:	121.2 lbs/ac	Total Product:	32956.93 lbs
Maximum Application Rate:	244.2 lbs/ac	Total Product Bulk:	16.48 ton
Average Application Rate:	197.73 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	166.68 ac	Total Product Price:	$0.0
Average Field Rate:	190.64 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	172.88 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

Grower: **Farm:** **Field(s):**

Potash 0-0-62 - Fertilizer Application (lbs/ac)



Lab: Midwest Labs Custom Eq: AVS UofM Recs Commodity: Corn Sample Date: 2018-03-21

Constraints:

K Build Level:	220	lbs/ac	K Maint Level:	320	lbs/ac	Max Rate:	300.0 lbs/ac
Crop Rotation:	Default 1yr		Years Buildup:	4		Min Rate:	80.0 lbs/ac
Soybean YG:	0	bu/ac	Crop Type:	Grain		Switch Rate:	30.0 lbs/ac
Yield Goal:	180	bu/ac					

Multiplier:	N/A		
Subtract:	N/A		

Minimum Application Rate:	87.1 lbs/ac	Total Product:	30426.15 lbs
Maximum Application Rate:	277.6 lbs/ac	Total Product Bulk:	15.21 ton
Average Application Rate:	189.58 lbs/ac	Product Cost / Bulk:	$0.0/ton
Application Area:	160.49 ac	Total Product Price:	$0.0
Average Field Rate:	176.00 lbs/ac	Application Cost / Area:	$0.0/ac
Total Area:	172.88 ac	Total Application Cost:	$0.0
		Total Cost:	$0.0

Fertilizer Application Summary

Grower:
Farm:
Field(s):

Commodity: Corn
Labs: Midwest Labs

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
MAP 11-52-0	100	350.0 lbs/ac	90.0 lbs/ac	0.00	30.0 lbs/ac
Potash 0-0-62	100	300.0 lbs/ac	80.0 lbs/ac	0.00	30.0 lbs/ac

Product	Wt App	Wt App Bulk	Applied Area	Product Cost	Est. Cost	Est. Cost/Area
MAP 11-52-0	32956.93 (lbs)	16.48 ton	166.68	$0.0/ton	$0.0	$0.0/ac
Potash 0-0-62	30426.15 (lbs)	15.21 ton	160.49	$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
		--		172.52 ac	