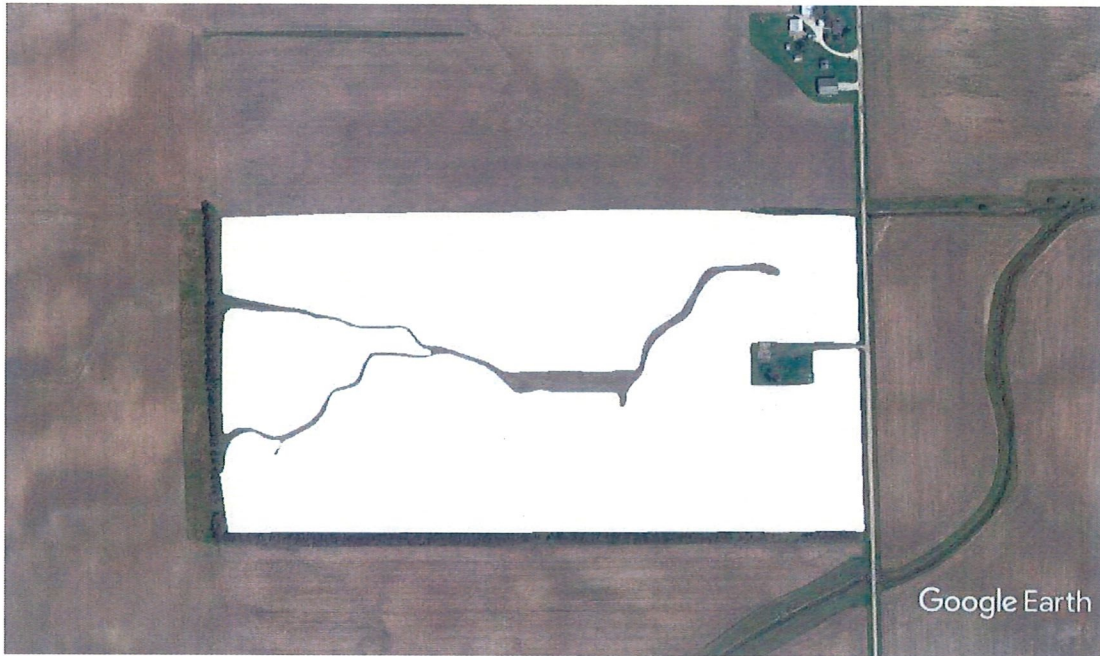


Soil Test Report 2020



71.7A sec32 ARTESIA



Label	Area
White	71.71

Notes:

Location	Grower	Farm	Field	Area	Centroid
				71.71 acres	40.58078, -88.085012



	Min	Max	Avg
P	19.4	54.6	36.7
K	297.97	695.35	394.18
Mg	929.51	1694	1397
Ca	6704	10382	7906
Na	12.9	40.7	23.2
S	21.4	80.6	49.7
B	0.2	12.5	3.6
Cu	1.7	5.7	4.0
Fe	222.8	533.9	361.8
Mn	24.1	187.7	88.8
Zn	5.6	33.4	8.1
pH	6.4	7.7	7.0
bpH	7.00	7.00	7.00
OM	3.0	3.5	3.2
CEC	21.5	32.8	26.1

Sample Date Soil Lab
2020-05-13 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	48.6	410.82	1694	7823	29.0	48.9	6.1	4.7	397.5	97.7	6.7	7.3	7.00	3.0	27.1
2	29.2	343.18	1408	7527	30.0	54.5	1.4	3.0	334.1	111.5	6.2	7.1	7.00	3.0	25.1
3	32.1	403.02	1539	9008	37.6	66.0	12.5	4.0	405.4	91.2	7.6	7.1	7.00	3.5	29.5
4	29.7	388.78	1324	7005	19.4	38.1	2.9	3.4	388.8	72.0	6.2	6.6	7.00	3.0	23.5
5	37.7	390.02	1527	7365	26.0	21.4	5.2	3.5	308.7	80.6	5.8	7.0	7.00	3.0	25.3
6	45.0	369.84	1279	7206	21.3	41.7	5.8	3.9	452.3	83.8	6.1	7.0	7.00	3.0	23.8
7	44.9	424.77	1524	7397	28.2	24.1	0.2	3.8	463.8	70.9	6.6	6.9	7.00	3.0	25.4
8	48.8	319.29	1143	6704	20.3	47.9	2.1	2.4	323.9	65.0	5.8	6.8	7.00	3.0	21.9
9	36.6	339.77	1528	8648	28.9	67.3	0.4	4.5	358.5	187.7	7.4	7.6	7.00	3.0	28.4
10	53.0	411.08	1469	8020	26.9	56.4	0.2	5.7	533.9	48.8	8.4	6.9	7.00	3.0	26.7

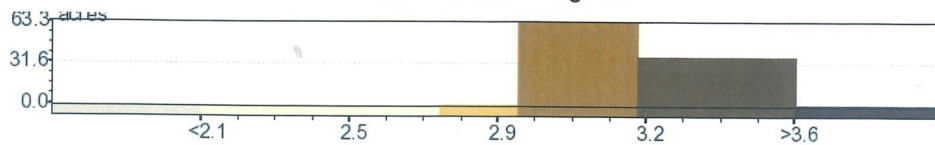
11	34.1	353.55	1159	7650	15.8	64.5	8.2	2.9	283.1	89.3	7.1	7.2	7.00	3.0	24.4
12	47.9	397.68	1640	7435	37.4	69.1	0.8	5.2	443.0	72.5	7.4	7.3	7.00	3.0	25.9
13	36.1	695.35	1437	10382	16.4	50.8	2.8	4.7	223.6	122.7	33.4	7.7	7.00	3.0	32.8
14	31.3	443.20	1214	8733	16.1	65.8	2.4	3.7	333.0	72.2	7.6	7.0	7.00	3.5	27.5
15	37.1	404.73	1295	8364	24.0	56.5	5.5	5.1	378.8	94.6	7.9	7.0	7.00	3.5	26.8
16	33.4	433.48	1374	7280	17.9	37.8	5.9	4.5	394.4	51.7	7.5	6.5	7.00	3.5	24.5
17	20.0	405.83	1528	6798	25.2	61.8	5.3	4.2	455.2	83.5	7.3	6.4	7.00	3.0	23.9
18	24.3	420.78	1607	8993	16.0	40.6	1.6	5.1	269.1	77.1	7.8	6.9	7.00	3.5	29.7
19	34.1	297.97	930.52	6893	12.9	30.5	3.4	1.7	275.5	88.0	5.7	6.8	7.00	3.0	21.5
20	27.6	350.90	929.51	7110	13.3	28.4	4.7	1.7	222.8	146.9	6.2	6.9	7.00	3.0	22.1
21	30.3	382.68	1442	7741	23.9	36.5	5.4	3.2	300.0	136.1	5.6	7.1	7.00	3.5	25.9
22	45.4	309.83	1669	9819	40.7	80.6	1.9	5.7	352.4	128.1	8.6	7.5	7.00	3.5	31.9
23	19.4	351.63	1324	8195	13.9	48.5	1.7	3.5	293.9	24.1	7.4	6.8	7.00	3.0	26.5
24	54.6	412.25	1548	7638	15.4	55.6	0.5	5.0	492.1	36.0	8.3	6.5	7.00	3.5	26.1

Zone: Not Specified Area: 71.7 Sample Date: 2020-05-13

Organic Matter (OM) %

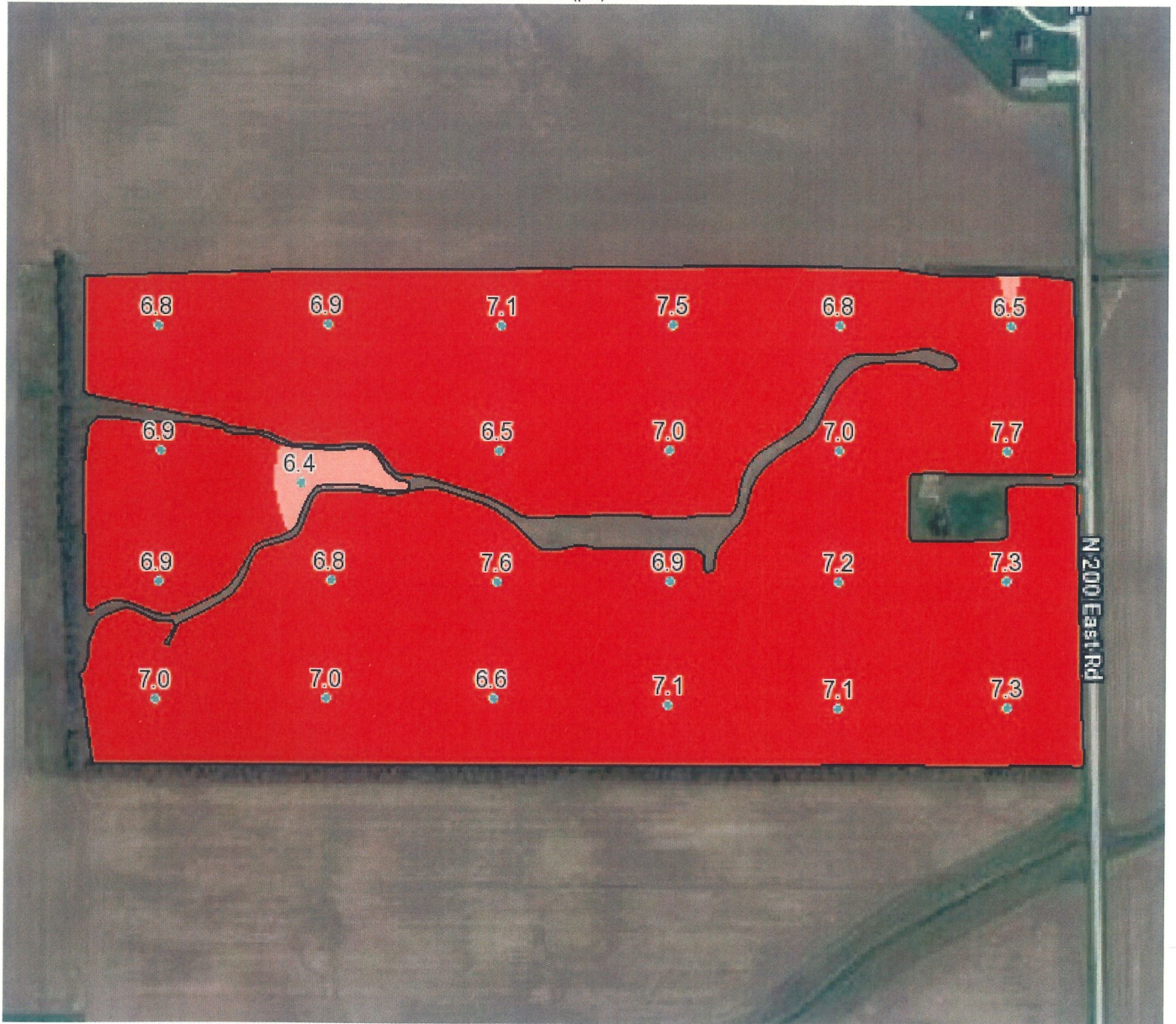


Min: 3.0 Max: 3.5 Avg: 3.2



Zone: Not Specified Area: 71.7 Sample Date: 2020-05-13

(pH)



Min: 6.4 Max: 7.7 Avg: 7.0

(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	0.88	1.23
6.5-8	Very High	70.83	98.77

Zone: Not Specified Area: 71.7 Sample Date: 2020-05-13

Phosphorous (P) lbs/ac

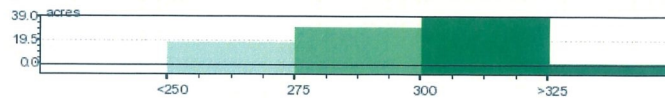
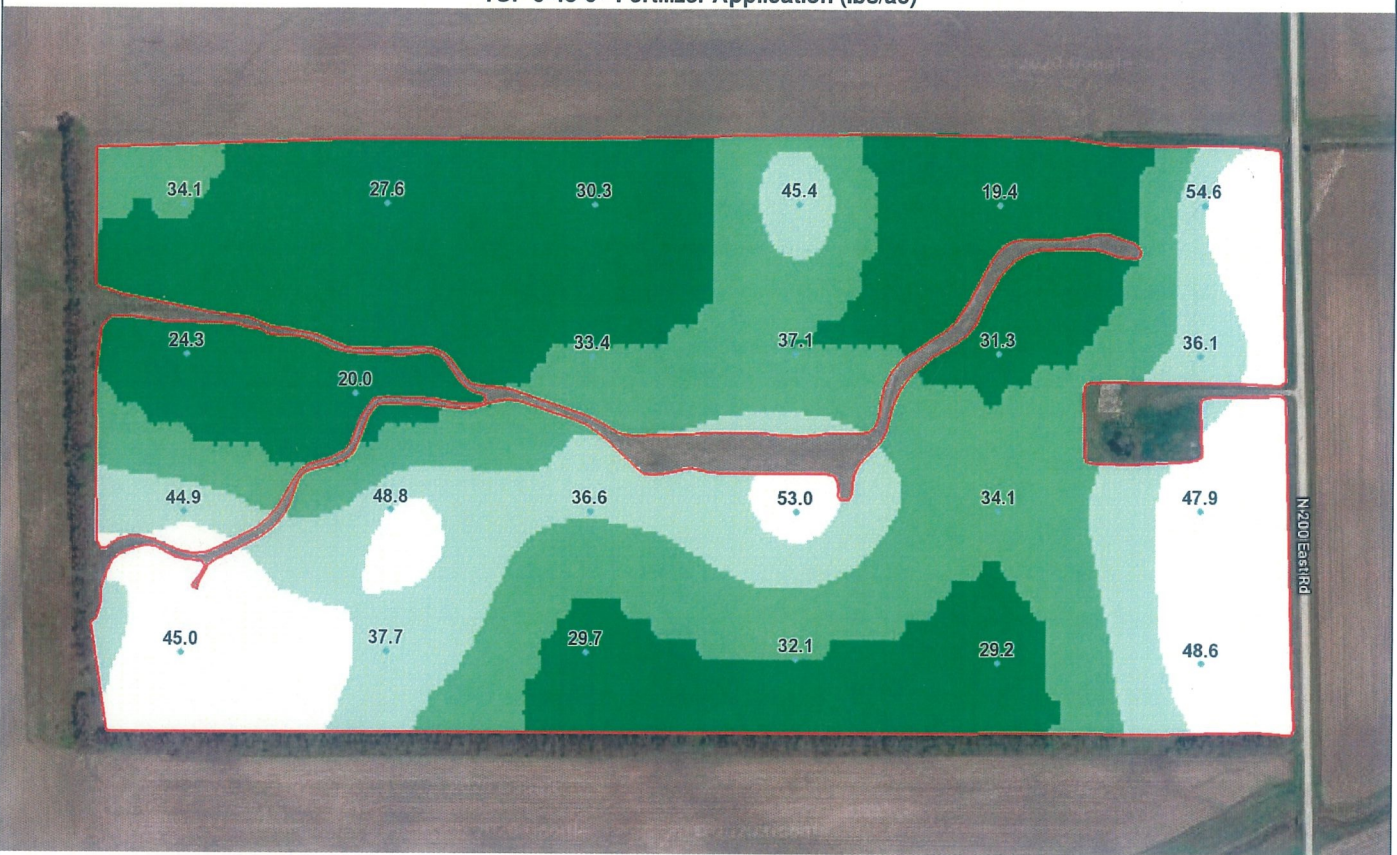


Min: 19.4 Max: 54.6 Avg: 36.7

Phosphorous (P) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 25	Very Low	2.33	3.25
25-35	Low	26.48	36.93
35-50	Optimal	41.72	58.18
50-60	High	1.19	1.66
60-500	Very High	0.0	0.0

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⁻).

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



Lab: Agricultural Soil Management

Custom Eq: P 4 w/ YIELD

Commodity: Corn-Soybeans

Sample Date: 2020-05-13

Constraints: *Value is overwritten by zone values

*Corn Yield: 0 bu/ac *Bean Yield: 0 bu/ac

Max Rate: 300.0 lbs/ac Multiplier: N/A

Min Rate: 200.0 lbs/ac Subtract: N/A

Switch Rate: 150.0 lbs/ac

Minimum Application Rate: 225.0 lbs/ac

Maximum Application Rate: 300.0 lbs/ac

Average Application Rate: 281.0 lbs/ac

Application Area: 71.0 ac

Average Field Rate: 281.95 lbs/ac

Total Area: 71.0 ac

Total Product: 20018.83 lbs

Total Product Bulk: 10.01 ton

Product Cost / Bulk: \$0.0/ton

Total Product Price: \$0.0

Application Cost / Area: \$0.0/ac

Total Application Cost: \$0.0

Total Cost: \$0.0

Fertilizer Application Summary

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
TSP 0-45-0	100	300.0 lbs/ac	200.0 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	20018.83 (lbs)	10.01 ton	71.00	\$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
16171 North 80	32 25N 10E	--	Iroquois	71.71 ac	40.580780, -88.085012

Zone: Not Specified Area: 71.7 Sample Date: 2020-05-13

Potassium (K) lbs/ac

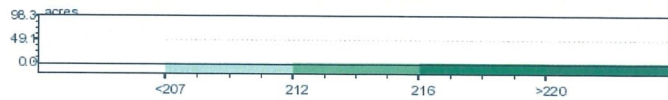
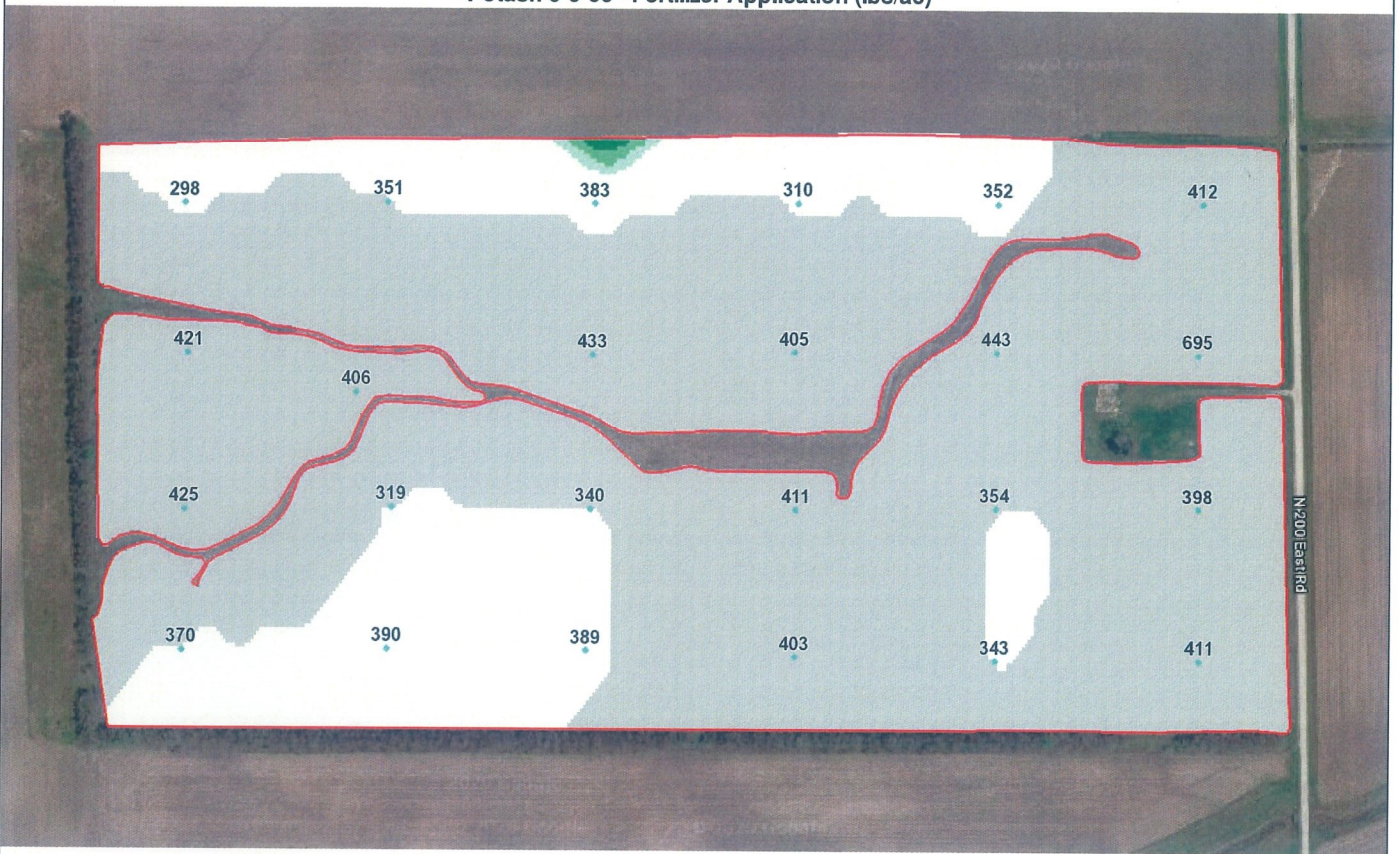


Min: 297.97 Max: 695.35 Avg: 394.18

Potassium (K) lbs/ac	Soil Levels	Area (ac)	Percent Acres
0- 200	Very Low	0.0	0.0
200- 300	Low	0.1	0.14
300- 400	Optimal	48.32	67.38
400- 450	High	17.92	24.99
450-1200	Very High	5.36	7.47

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+).

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



Lab: Agricultural Soil Management Custom Eq: K 01 w/ YIELD Commodity: Corn-Soybeans Sample Date: 2020-05-13

Constraints: *Value is overwritten by zone values

*Corn Yield: 0 bu/ac *Bean Yield: 0 bu/ac

Max Rate: 300.0 lbs/ac Multiplier: N/A
 Min Rate: 200.0 lbs/ac Subtract: N/A
 Switch Rate: 150.0 lbs/ac

Minimum Application Rate: 200.0 lbs/ac
 Maximum Application Rate: 215.0 lbs/ac
 Average Application Rate: 200.0 lbs/ac
 Application Area: 16.39 ac
 Average Field Rate: 46.24 lbs/ac
 Total Area: 71.0 ac

Total Product: 3282.82 lbs
 Total Product Bulk: 1.64 ton
 Product Cost / Bulk: \$0.0/ton
 Total Product Price: \$0.0
 Application Cost / Area: \$0.0/ac
 Total Application Cost: \$0.0
 Total Cost: \$0.0

Fertilizer Application Summary

Commodity: Corn-Soybeans
Labs: Agricultural Soil Management

Selected Parameters					
Product	Rec %	Max Rate	Min Rate	+/-	Switch Rate
Potash 0-0-60	100	300.0 lbs/ac	200.0 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	3282.82 (lbs)	1.64 ton	16.39	\$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
16171 North 80	32 25N 10E	--	Iroquois	71.71 ac	40.580780, -88.085012

Zone: Not Specified Area: 71.7 Sample Date: 2020-05-13

