

LT Farms LLC

E 80

Soil Sampling - 2015



Seed and Soil Service Company

Pontiac, IL

815-600-0277

www.agtechadvantage.com



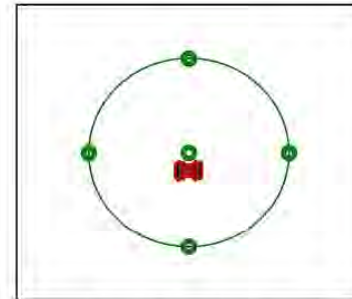
Basis of Fertility Recommendations

SAMPLING

Using a 1-inch soil probe, five 7-inch depth soil cores are taken in a 60-foot diameter circle. This composite represents each 4.4 or 2.5 acre grid sample.

TESTING

The samples are sent to United Soils Lab, Inc located in Fairbury, IL and processed within 72 hours of collection. Electronic results are back to AgTech within a couple days.



One Grid Sample Area

RECOMMENDATIONS

Using AgLeader SMS Advanced software, AgTech generates reports and general recommendations based on University of Illinois fertility recommendations. General recommendations for DAP, Potash, and Lime are given and based on Crop Removal Rate (CRR). The CRR is calculated using your yield goals for the next two crop seasons and applying fertilizer for those two crops. Where fertility is lower, additional fertilizer beyond CRR is calculated and applied. Other recommendations can be made at no additional charge.

DAP

Based on Phosphorous (P) levels

P > 70	0 lbs DAP
P 40-70	CRR lbs DAP
P 30-40	CRR + 50 lbs DAP
P 20-30	CRR + 75 lbs DAP
P 0-20	CRR + 100 lbs DAP

POTASH

Based on Potassium (K) levels

K > 420	0 lbs Potash
K 360-420	CRR lbs Potash
K 260-360	CRR + 50 lbs Potash
K 180-260	CRR + 75 lbs Potash
K 0-180	CRR + 100 lbs Potash

LIME

Based on pH levels

pH > 6.5	0.0 Tons Lime
pH 6.3-6.5	1.0 Tons Lime
pH 6.0-6.3	1.5 Tons Lime
pH 5.7-6.0	2.0 Tons Lime
pH 5.4-5.7	2.5 Tons Lime
pH < 5.4	3.0 Tons Lime

E 80 - 2015

Sample ID Map



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80

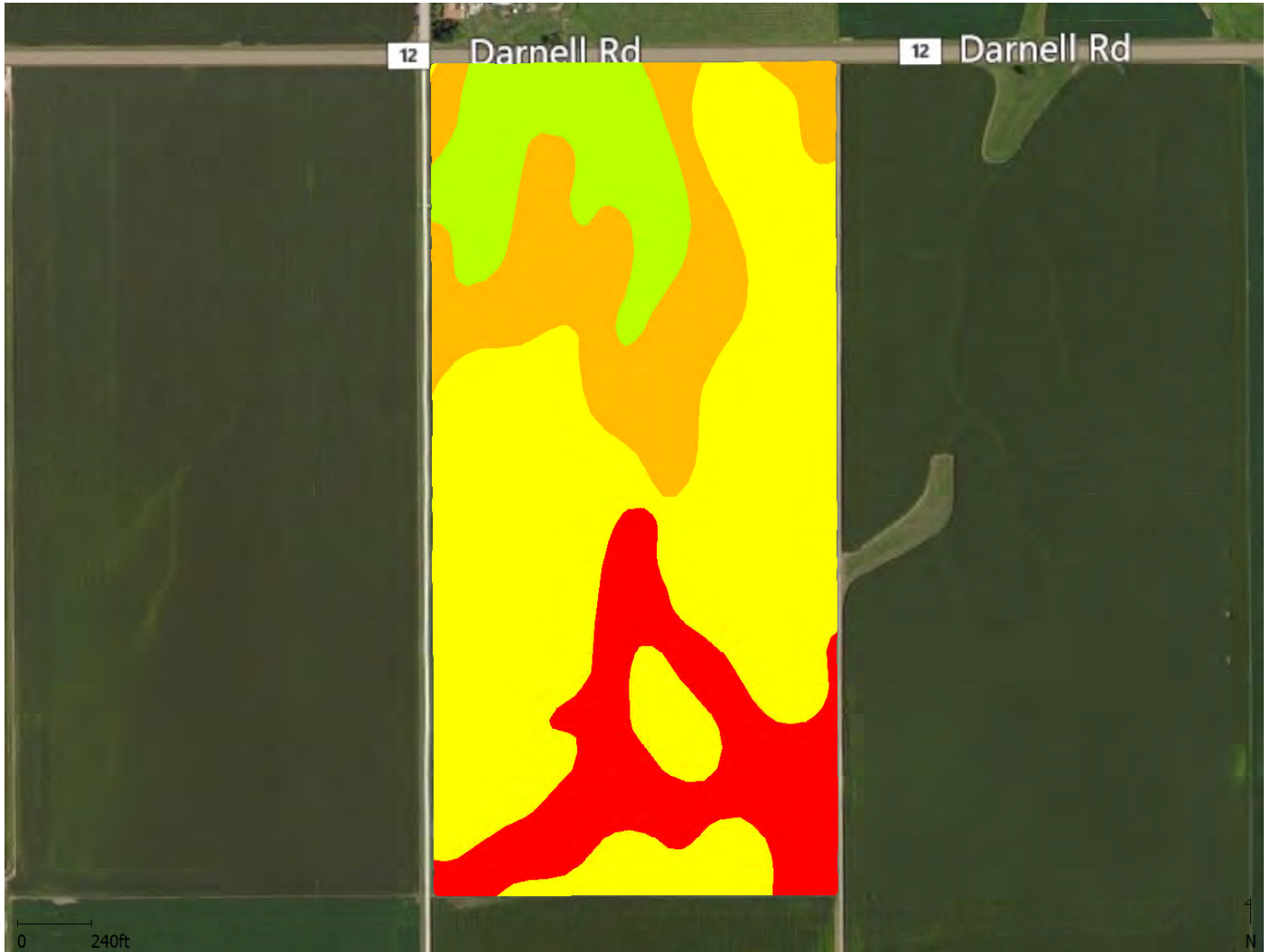
Area : 80.7 ac

Date : 10/20/2015

Field - Latitude : 39.77144365

Field - Longitude : -89.41067418

Soil Type Map








Grower : LT Farms LLC

Farm : Goldstein

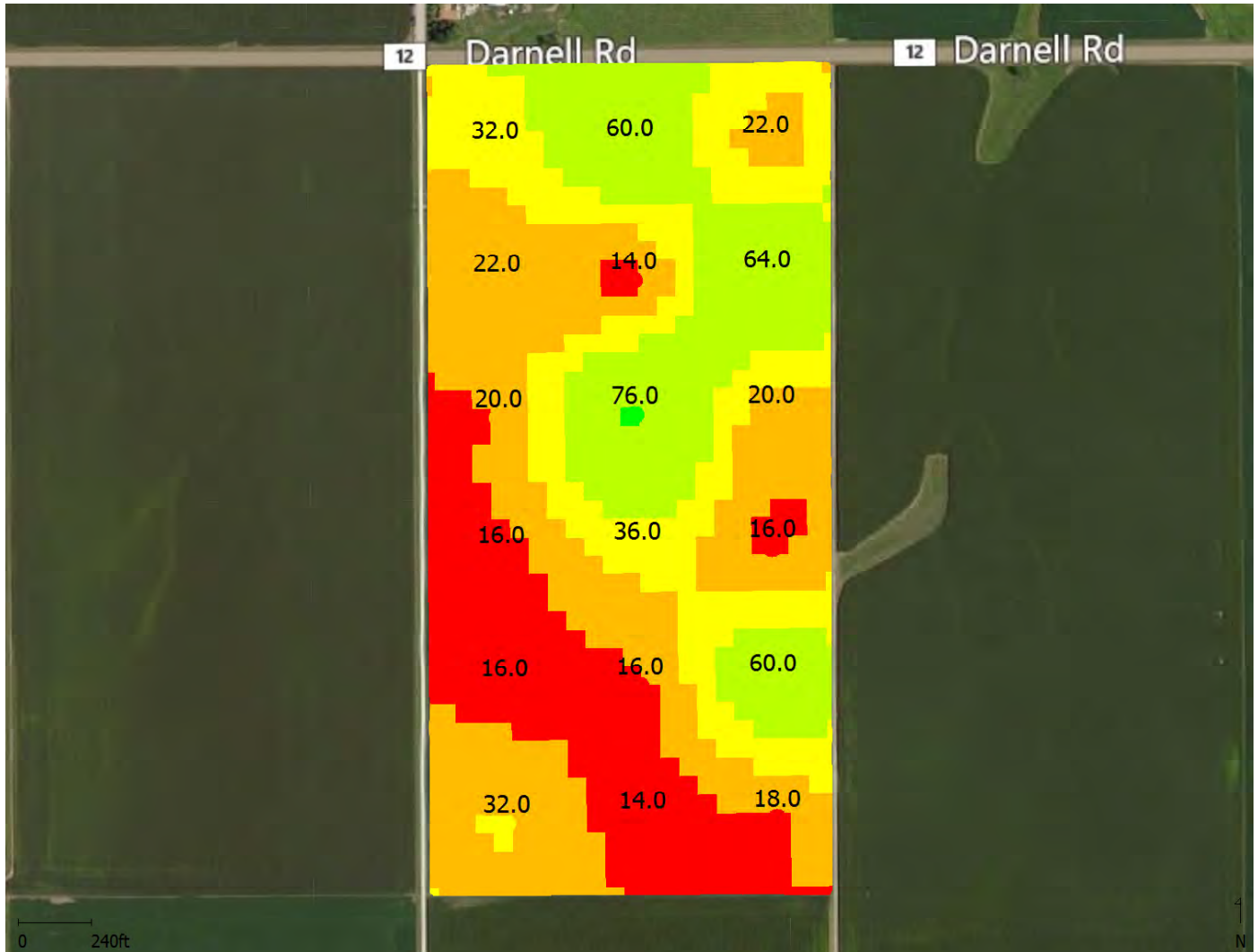
Field : E 80

Operation : Soil Survey

Area : 80.7 ac

Soil Type	
	Assumption (0.0 ac - 0.0%)
	Elkhart (9.5 ac - 11.7%)
	Ipava (43.1 ac - 53.3%)
	Osco (14.6 ac - 18.0%)
	Sable (13.7 ac - 16.9%)

P Map



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80






Area : 80.7 ac

Date : 10/20/2015

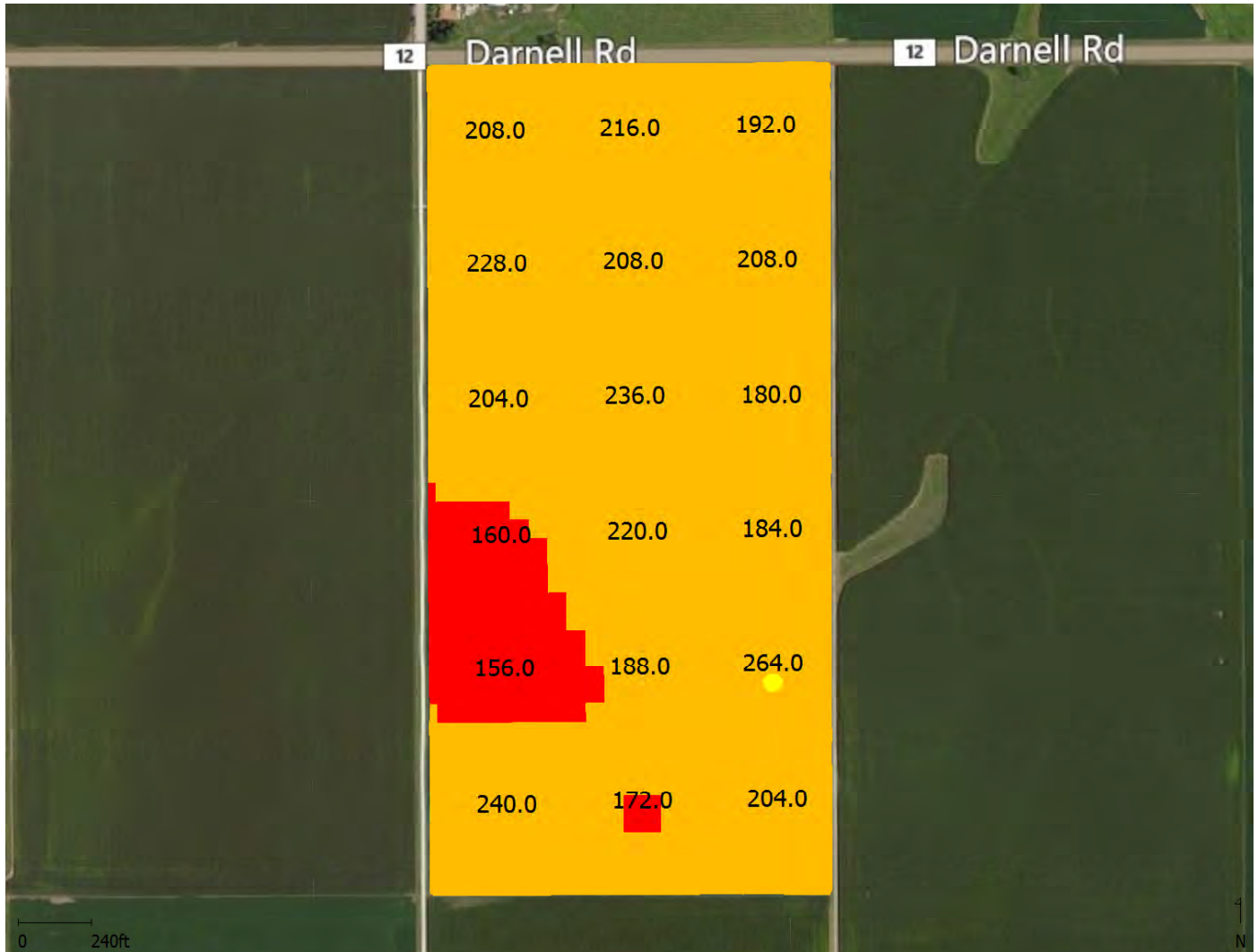
Average Soil P1 : 30.8 lb/ac

Minimum Soil P1 : 14.0 lb/ac

Maximum Soil P1 : 76.0 lb/ac

Soil P1*	
(lb/ac)	
	70 - 1000 (0.1 ac)
	40 - 70 (18.8 ac)
	30 - 40 (17.9 ac)
	20 - 30 (27.6 ac)
	0 - 20 (16.5 ac)

K Map



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80






Area : 80.7 ac

Date : 10/20/2015

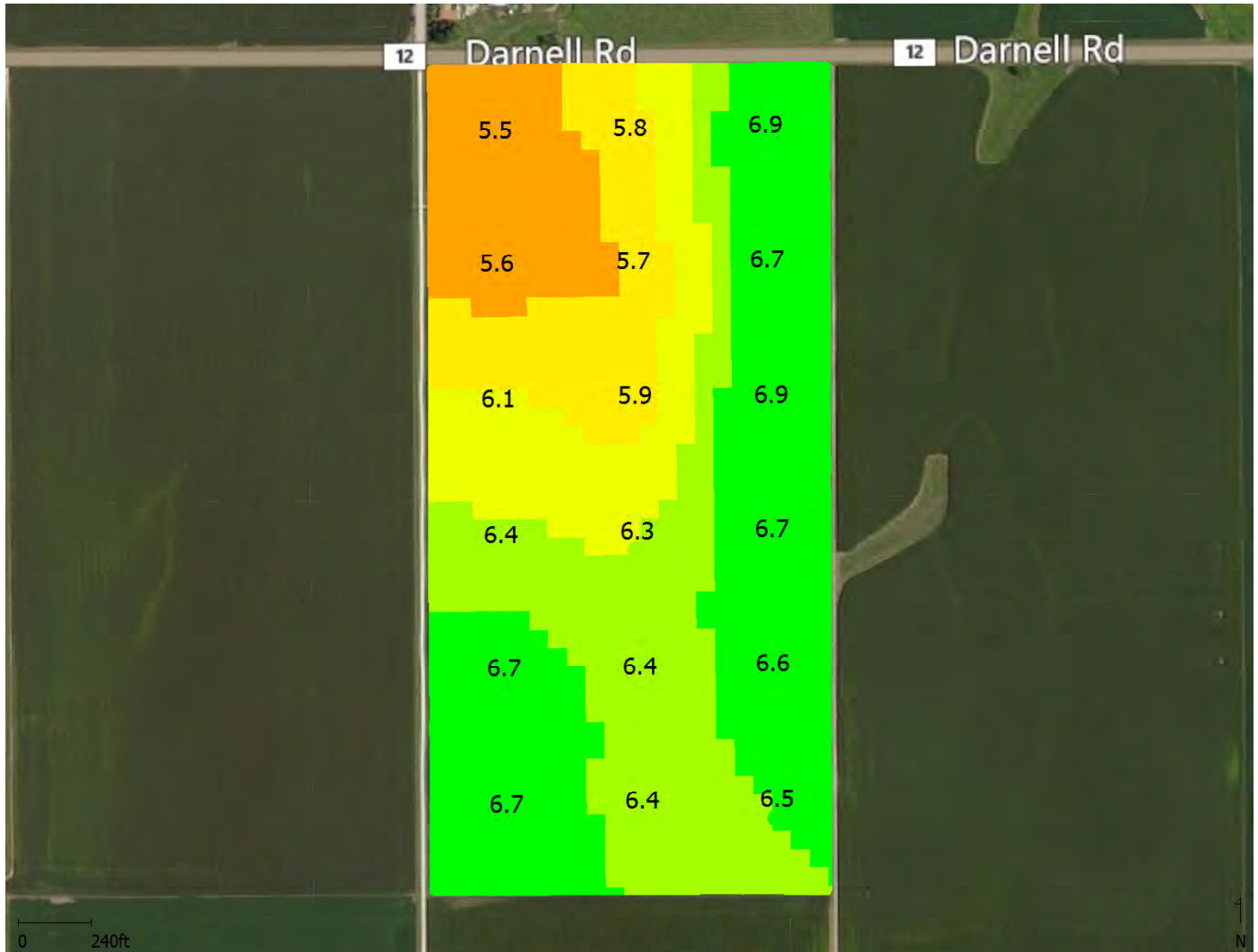
Average Soil K : 203.8 lb/ac

Minimum Soil K : 156.0 lb/ac

Maximum Soil K : 264.0 lb/ac

Soil K*	
(lb/ac)	
	420 - 1000 (0.0 ac)
	360 - 420 (0.0 ac)
	260 - 360 (0.0 ac)
	180 - 260 (73.2 ac)
	0 - 180 (7.6 ac)

pH Map



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80







Area : 80.7 ac

Date : 10/20/2015

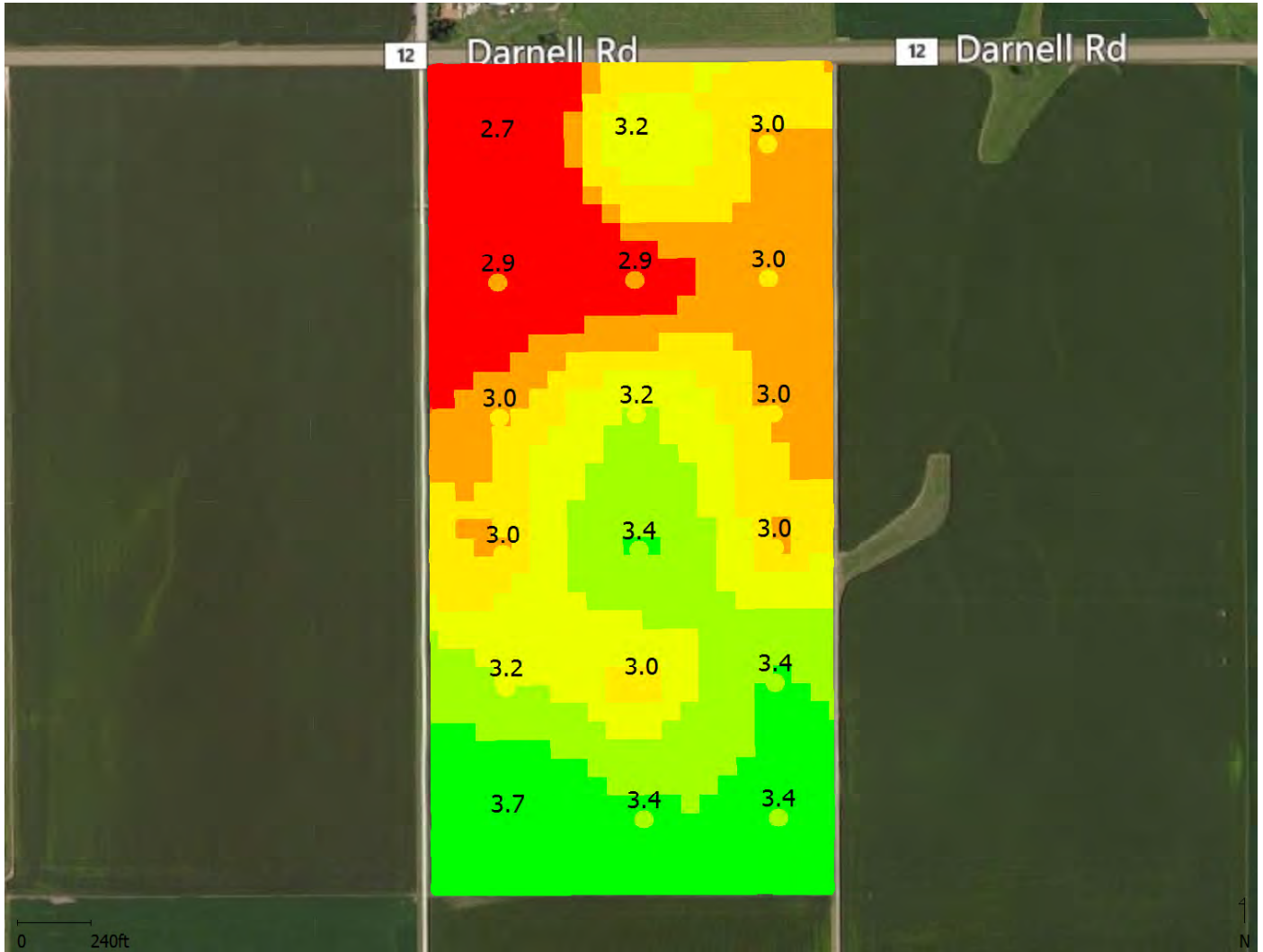
Average Soil pH : 6.3 unit

Minimum Soil pH : 5.5 unit

Maximum Soil pH : 6.9 unit

Soil pH (unit)	
	6.5 - 10.0 (30.9 ac)
	6.3 - 6.5 (20.1 ac)
	6.0 - 6.3 (10.4 ac)
	5.7 - 6.0 (9.8 ac)
	5.4 - 5.7 (9.5 ac)
	0.0 - 5.4 (0.0 ac)

OM Map



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80







Area : 80.7 ac

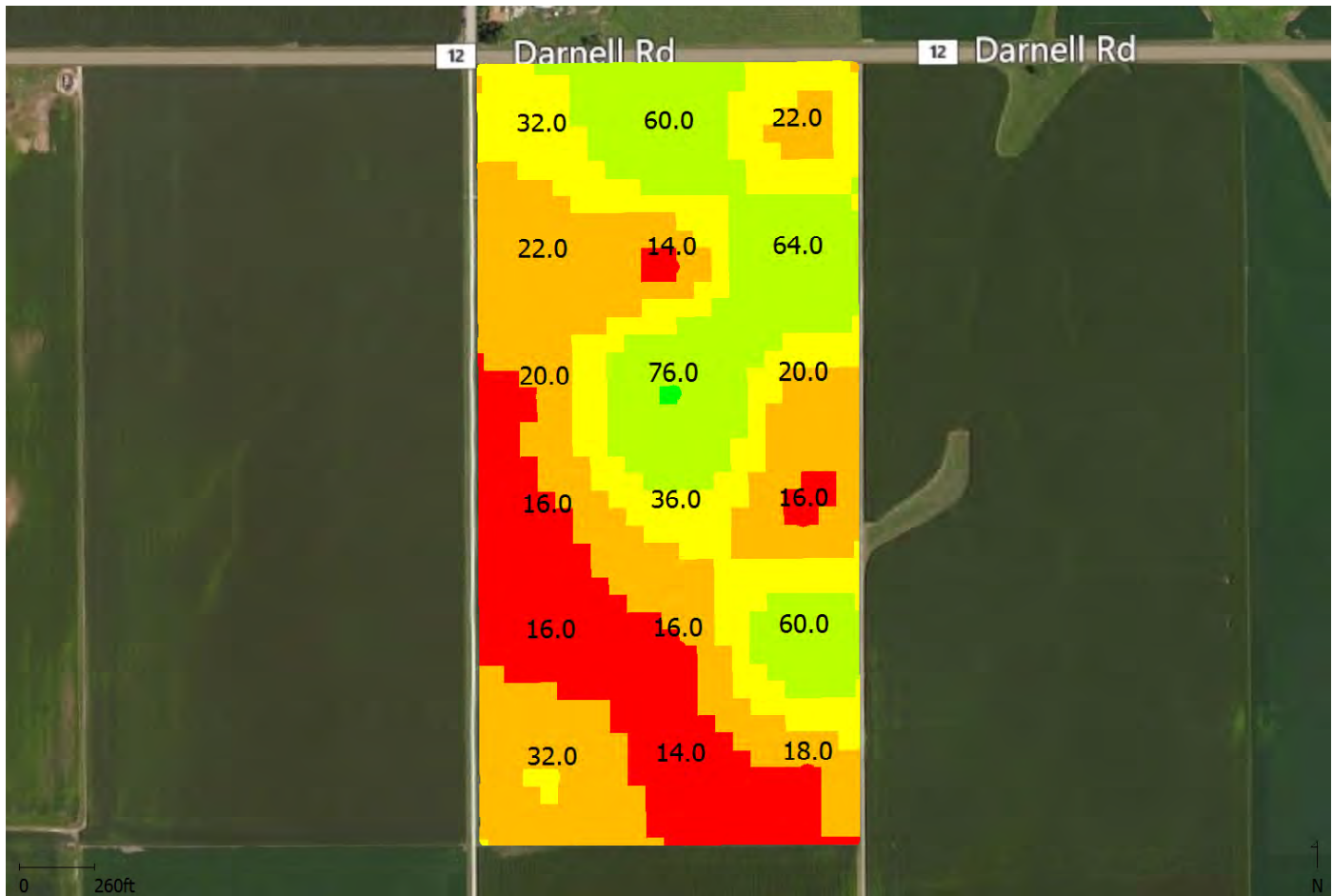
Date : 10/20/2015

Average Soil OM : 3.1 %

Minimum Soil OM : 2.7 %

Maximum Soil OM : 3.7 %

Soil OM (%)	
	3.36 - 3.70 (14.3 ac)
	3.18 - 3.36 (13.6 ac)
	3.08 - 3.18 (13.8 ac)
	3.01 - 3.08 (13.3 ac)
	2.97 - 3.01 (12.9 ac)
	2.70 - 2.97 (12.9 ac)



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80

Year : 2015

Area : 80.6 ac

Total Target Rate(Mass) : 12.6 ton(US)

Average Target Rate(Mass) : 312.0 lb/ac

Minimum Target Rate(Mass) : 0.0 lb/ac

Maximum Target Rate(Mass) : 355.2 lb/ac

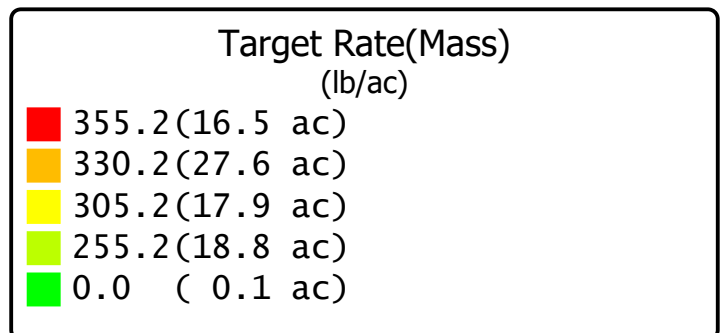
Yield Goal (Corn) : 180.0 bu/ac

Yield Goal (Soybeans) : 50.0 bu/ac

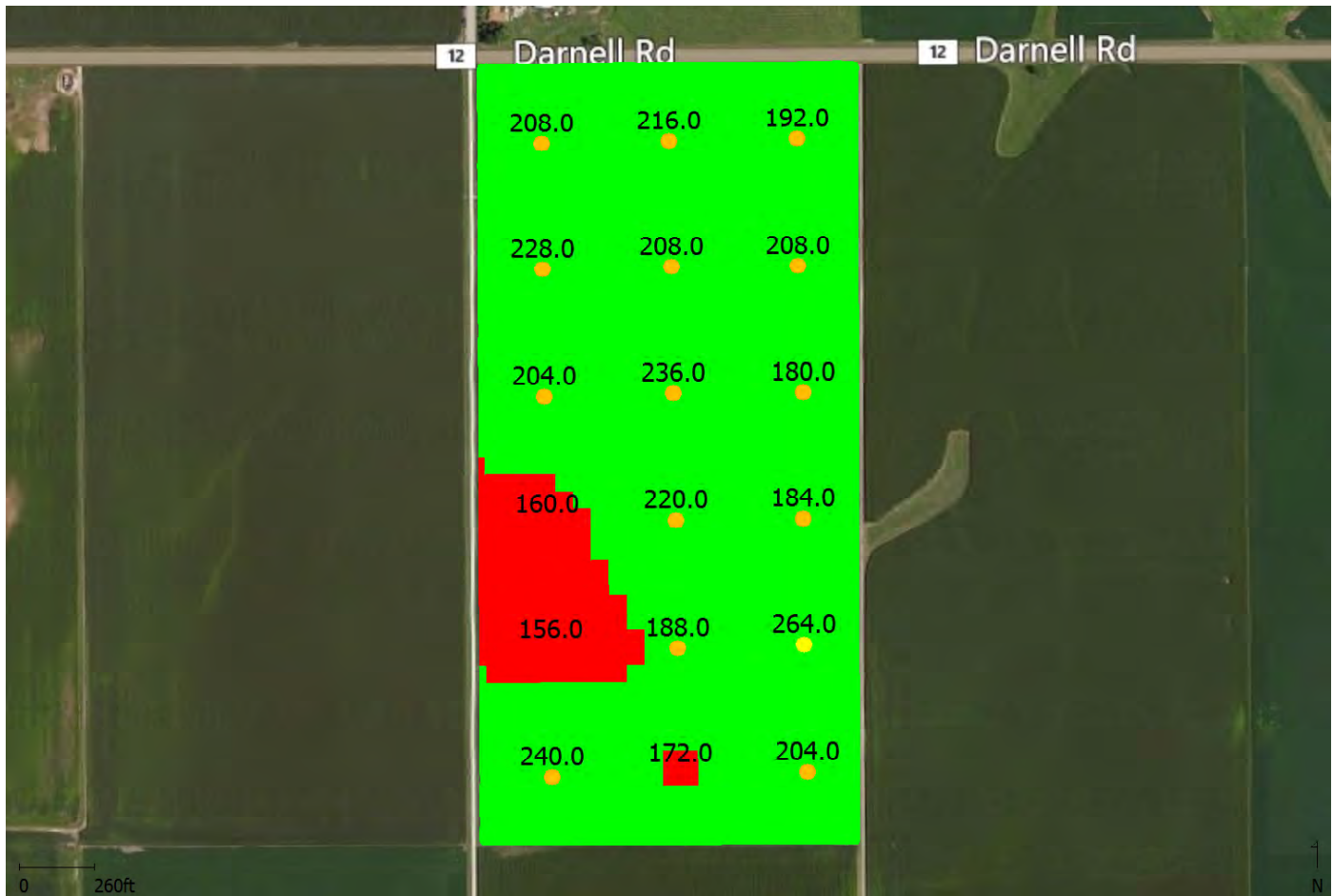
ANALYSIS

DAP Rx with CRR, P to 70

Function Type: Equation Based Analysis
 Function Name: DAP Rx with CRR, P to 70
 Description: DAP P>70, 0 lbs DAP
 P 40-70, CRR lbs DAP
 P 30-40, CRR + 50 lbs DAP
 P 20-30, CRR + 75 lbs DAP
 P 0-20, CRR + 100 lbs DAP



E 80 - 2015 - Potash



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80

Year : 2015

Area : 80.6 ac

Total Target Rate(Mass) : 11.8 ton(US)

Average Target Rate(Mass) : 292.4 lb/ac

Minimum Target Rate(Mass) : 290.0 lb/ac

Maximum Target Rate(Mass) : 315.0 lb/ac

Yield Goal (Corn) : 180.0 bu/ac

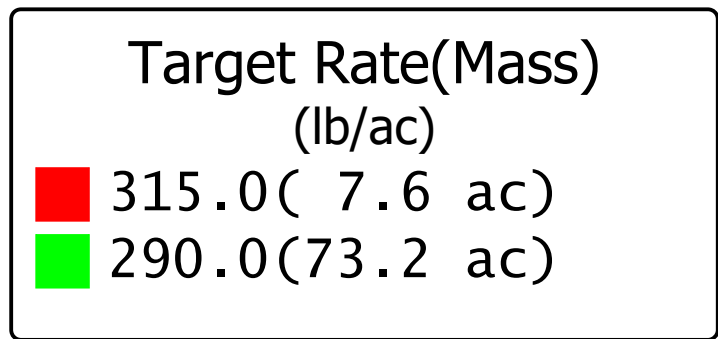
Yield Goal (Soybeans) : 50.0 bu/ac

ANALYSIS

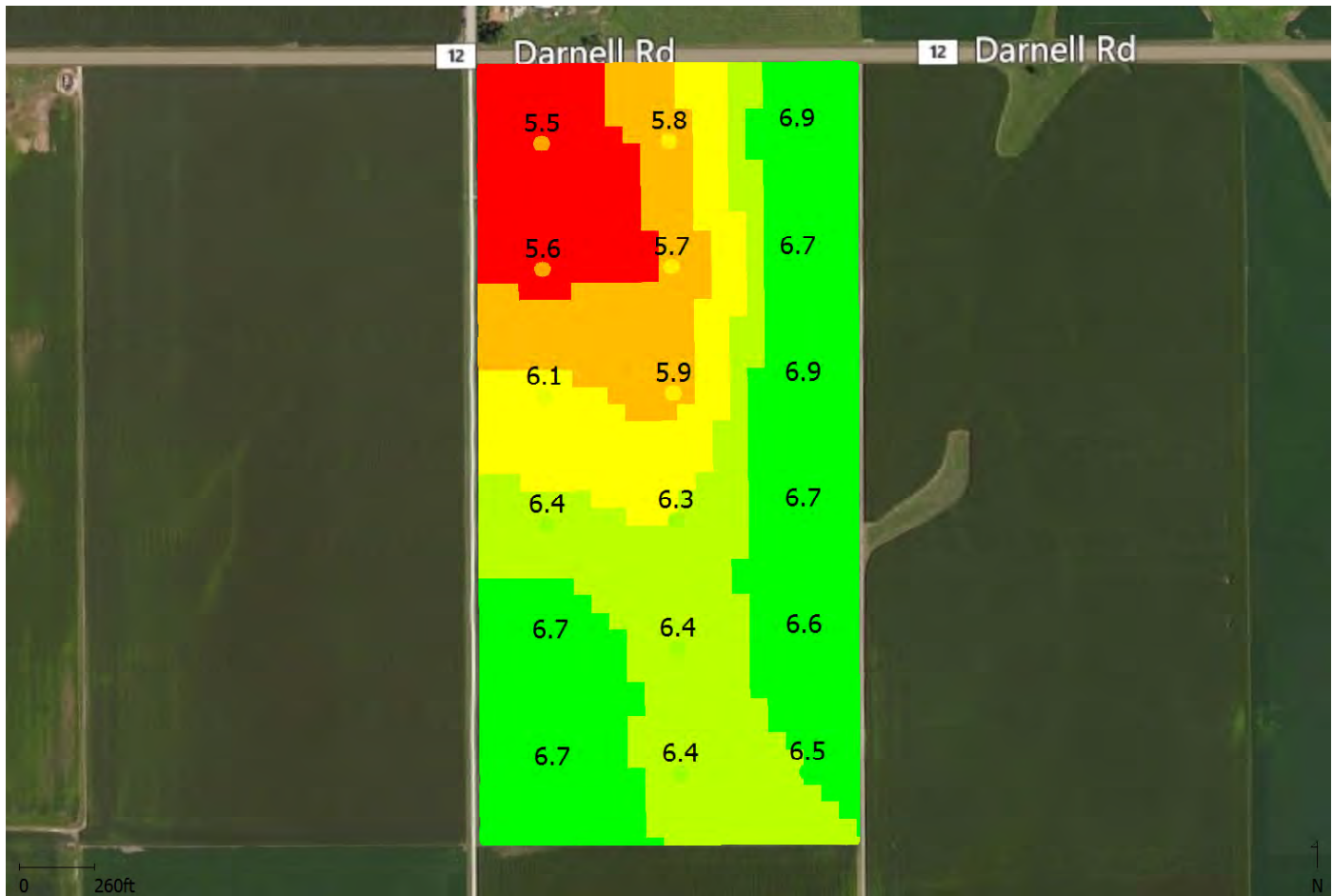
Potash Rx with CRR, K to 420

Function Type: Equation Based Analysis
Function Name: Potash Rx with CRR, K to 420

Description: K>420=0 lbs Potash
K 360-420, CRR lbs Potash
K 260-360, CRR + 50 lbs Potash
K 180-260, CRR + 75 lbs Potash
K 0-180, CRR + 100 lbs Potash



E 80 - 2015 - Lime



Grower : LT Farms LLC

Farm : Goldstein

Field : E 80

Year : 2015

Area : 80.6 ac

Total Target Rate(Mass) : 79.0 ton(US)

Average Target Rate(Mass) : 1960.3 lb/ac

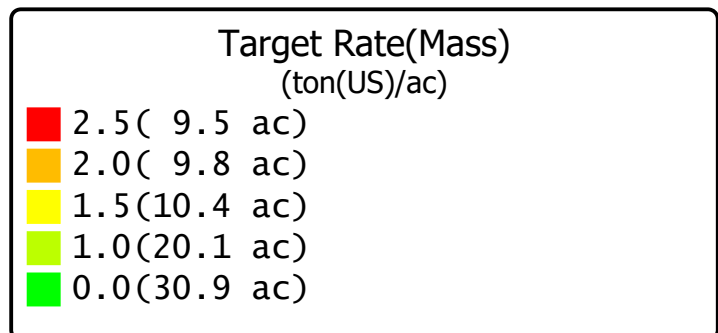
Minimum Target Rate(Mass) : 0.0 lb/ac

Maximum Target Rate(Mass) : 5000.0 lb/ac

ANALYSIS

Lime Rx with Cost to 6.5

Function Type: Equation Based Analysis
 Function Name: Lime Rx with Cost to 6.5
 Description: Lime pH >6.5, 0
 pH 6.3-6.5, 1ton
 pH 6.0-6.3, 1.5 ton
 pH 5.7-6.0, 2 ton
 pH 5.4-5.7, 2.5 ton
 pH < 5.4, 3 ton





Soil Test Results

Location: Ag Tech Advantage

Customer: LT Farms LLC

Dates: 2015-10-15

Farm: ALL

Field: Goldstein E80

Acres: 80.86

Sub-Field:

ID	pH	P (lb/ac)	K (lb/ac)	om
1	6.9	22	192	3.0
2	6.7	64	208	3.0
3	6.9	20	180	3.0
4	6.7	16	184	3.0
5	6.6	60	264	3.4
6	6.5	18	204	3.4
7	6.4	14	172	3.4
8	6.4	16	188	3.0
9	6.3	36	220	3.4
10	5.9	76	236	3.2
11	5.7	14	208	2.9
12	5.8	60	216	3.2
13	5.5	32	208	2.7
14	5.6	22	228	2.9
15	6.1	20	204	3.0
16	6.4	16	160	3.0
17	6.7	16	156	3.2
18	6.7	32	240	3.7
Avg.	6.3	31	204	3.1