



Soil Health and Fertility Report

Submitted by Home Office

File Number: 80033

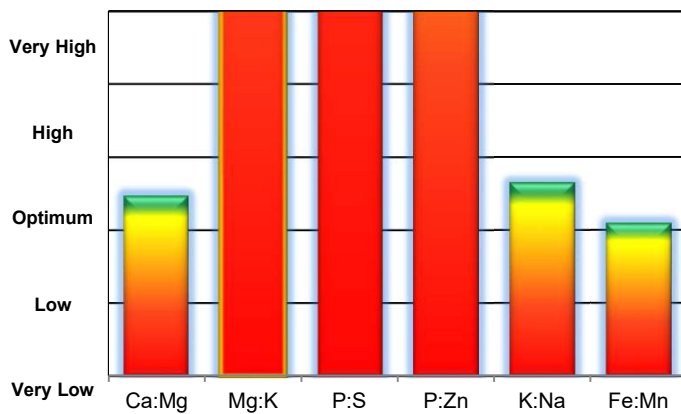
Client: Laboratory Quality Control Sample Date: 2/7/2020

Location:

Sample ID: QC

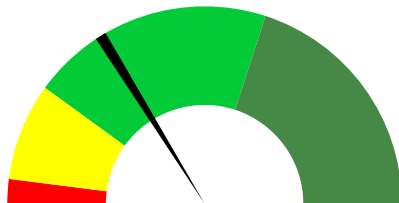
Intended Crop:	Corn
Crop Yield (bu/a):	200

Soil Health Factors		Ranking:	Value of Available Nutrients per acre		
IR Gas Analyzer	109.1	High	N + P ₂ O ₅ + K ₂ O = \$383.04		
*WEOC (ppm)	280.4	High	Available Nutrients (lbs/acre)		
*WEON (ppm)	32.4	High	N	P ₂ O ₅	K ₂ O
C:N ratio	8.7	Optimum	121	378	146



*NUTRIENT ANALYSIS

Analysis	Units	Level Found
Nitrate-N	ppm	8.5
Ammonium-N	ppm	1.4
Total Inorganic N	ppm	10
Estimated Biological N	lb/a	101
Estimated N for Crops	lb/a	121
Phosphorus as P	ppm	82
Potassium as K	ppm	122
Calcium	lb/a	2592
Magnesium	lb/a	436
Sodium	lb/a	26
Sulfur as S	ppm	11
Boron	ppm	0.62
Iron	ppm	51
Manganese	ppm	7
Copper	ppm	0.30
Zinc	ppm	1.95
*PECEC		8.73



16.9

Soil Health Score

Notes and Recommendations

USDA Cover Crop Recommendation

Suggested Cover Crop Blend:
20% Legume 80% Grass

Ca:Mg	Ca+Mg:Al	Ca %	Mg %
5.94	25.23	74.2	12.5
4.5 to 8	>1.7	Estimated Calcium Need (lb/a) 0	
**Nutrient Required (estimated) lbs per acre			
200	100	80	N-P ₂ O ₅ -K ₂ O
**Additional Nutrient Need lbs per acre			
79	0	0	N-P ₂ O ₅ -K ₂ O

*Notes: WEOC is water extractable organic carbon and WEON is water extractable organic nitrogen

All nutrients extracted using H3A organic acid extract. PECEC is plant effective CEC calculated using H3A

**Brookside Laboratories, Inc. does not guarantee any recommendation as university calibration work has not been done