

Sample ID

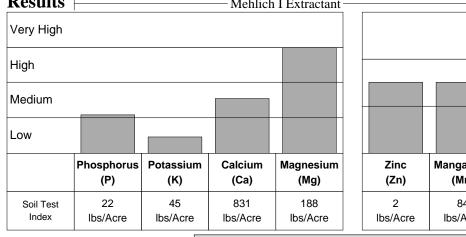
Soil, Plant, and Water Laboratory

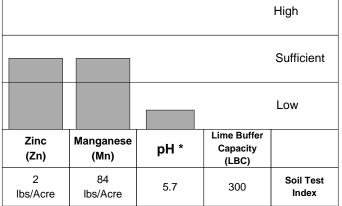
2400 College Station Road Athens, Georgia 30602-9105 Web site: http://aesl.ces.uga.edu

(CEC/CEA Signature)

Soil Test Report

Client Information Lab Information County Information Lab #61393 **Coweta County** Completed: Apr 23, 2014 255 Pine Road Printed: Apr 25, 2014 Newnan, GA 30263 phone: 770-254-2620 Crop: Fescue Hay e-mail: uge2077@uga.edu Results Mehlich I Extractant UGA Lime Buffer Capacity Method* Very High High





Recomme	endations	Can't fir	Can't find a specific grade of fertilizer? Try our Fertilizer Calculator: http://aesl.ces.uga.edu/soil/fertcalc/								
Limestone Target pH: 6.0 (Recommended)	Limestone Target pH: 6.5	Nitrogen (N)	Phosphate (P ₂ O ₅)	Potash (K ₂ O)	Sulfur (S)	Boron (B)	Manganese (Mn)	Zinc (Zn)			
0.5 tons/Acre	1.5 tons/Acre	100-200 lbs/Acre	50 lbs/Acre	80 lbs/Acre							

A target pH of 6.0 is recommended for most Agronomic crops. However, a lime recommendation for pH 6.5 is also provided on this soil test report. Liming to pH 6.5 helps reduce low pH areas in highly variable fields.

*For two cuttings of hay, apply 60 to 75 pounds of nitrogen per acre in late February and again in September. For three cuttings of hay (recommended), apply 60 to 75 pounds of nitrogen per acre in late February, apply again in May following the first harvest, with a third nitrogen application in September following the second harvest.

Where grass tetany (magnesium deficiency in animals) may be a problem, split the nitrogen and potash fertilizer applications. If the potassium soil test level is very high do not apply potash fertilizer. If the soil magnesium level is low, magnesium should be added to the animal diet.

NOTE: The amount of nitrogen (N), phosphate (P_2O_5) , and potash (K_2O) actually applied may deviate 10 pounds per acre from that recommended without appreciably affecting yields.

^{*}For information on how the Soil, Plant, and Water Laboratory measures and reports pH and makes lime recommendations, see http://aesl.ces.uga.edu/soil/SoilpH.html.

^{*}For establishment, apply 30 to 50 pounds of nitrogen per acre.



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Plant Analysis Report

Results

Percentage (%)						Parts Per Million (ppm)						
Nitrogen (N)	Phosphorus (P)	Potassium (K)	Calcium (Ca)	Magnesium (Mg)	Sulfur (S)	Manganese (Mn)	Iron (Fe)	Aluminum (Al)	Boron (B)	Copper (Cu)	Zinc (Zn)	Molybdenum (Mo)
4.63	0.43	3.29	1.14	0.35	0.40	60	84	24	10	8	33	<1.0
Sufficiency ranges:												
3.00-5.00	0.25-0.70	2.00-3.50	0.80-3.00	0.25-1.00	0.25-0.50	25-100	30-250	0-200	20-80	5-30	20-70	1-5
N/S Rat	N/S Ratio: 12/1 (Sufficient: Less than 16/1)											



Soil, Plant, and Water Laboratory

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Plant Analysis Report

Sample ID

Client Information

Sample: 1

Crop: Bermudagrass

uge3107@uga.edu Lab Information 4782371226

Lab #1689

Completed: Oct 22, 2015 Printed: Oct 26, 2015

Tests: P1

(CEC/CEA Signature) **County Information**

Emanuel County 129 N Anderson Drive Swainsboro, GA 30401

phone: 478-237-1226 e-mail: uge3107@uga.edu

	Percentage (%)						Parts Per Million (ppm)						
Nitrogen (N)	Phosphorus (P)	Potassium (K)	Calcium (Ca)	Magnesium (Mg)	Sulfur (S)	Manganese (Mn)	Iron (Fe)	Aluminum (Al)	Boron (B)	Copper (Cu)	Zinc (Zn)	Nickel (Ni)	
2.41	0.25	1.85	0.56	0.34	0.43	121	98	48	4	2	26	<1	

Plant Tissue Analysis - Bermudagrass

Ranges and Ratios of Nutrients

Range for bermudagrass		
Mills and Jones, 1996	1	What this tells me:
2.8-4.0 N	2.41	Nitrogen deficient
0.25-0.6 P	0.25	Barely sufficient, probably because of low growth rate
1.8-3.0 K	1.85	Barely sufficient, probably because of low growth rate
0.25-0.5 Ca	0.56	
0.13-30 Mg	0.34	
0.18-0.50 S	0.43	
25-300 Mn	121	
50-350* Fe	98	
6-30 B	4	B deficient (pH issue? Yes, definitely low in the bad soil sample
Targets for the Ratios		
10.11 N:P	9.64	
11.85 N:S	5.60	Really low, probably because of N immobilization in low soil pH
7.61 N:Ca	4.30	"
14.94 N:Mg	7.09	"
0.71 K:N	0.77	Artificially good, because both N and K are low.
0.14 P:K	0.14	
0.87 S:P	1.72	
0.76 P:Ca	0.45	
1.48 P:Mg	0.74	
0.12 S:K	0.23	S challenges in K uptake?
5.37 K:Ca	3.30	Low K
10.7 K:Mg	5.44	Low K
1.97 Ca:Mg		
0.65 S:Ca	0.77	
1.29 S:Mg	1.26	