

## Soil Test Report

### Sample ID

(CEC/CEA Signature)

Client Information	Lab Information	County Information
<div style="background-color: black; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 150px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 150px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: black; width: 150px; height: 15px; margin-bottom: 5px;"></div> <p>Crop: Fescue Hay</p>	Lab #61393 Completed: Apr 23, 2014 Printed: Apr 25, 2014	<b>Coweta County</b> 255 Pine Road Newnan, GA 30263 phone: 770-254-2620 e-mail: <a href="mailto:uge2077@uga.edu">uge2077@uga.edu</a>

### Results

Mehlich I Extractant

UGA Lime Buffer Capacity Method\*

Very High									High
High									
Medium									Sufficient
Low									Low
	<b>Phosphorus (P)</b>	<b>Potassium (K)</b>	<b>Calcium (Ca)</b>	<b>Magnesium (Mg)</b>	<b>Zinc (Zn)</b>	<b>Manganese (Mn)</b>	<b>pH *</b>	<b>Lime Buffer Capacity (LBC)</b>	
Soil Test Index	22 lbs/Acre	45 lbs/Acre	831 lbs/Acre	188 lbs/Acre	2 lbs/Acre	84 lbs/Acre	5.7	300	Soil Test Index

### Recommendations

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 <sub>2</sub> O <sub>5</sub> )	Potash (K <sub>2</sub> 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 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.

\*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<sub>2</sub>O<sub>5</sub>), and potash (K<sub>2</sub>O) actually applied may deviate 10 pounds per acre from that recommended without appreciably affecting yields.

### Learning for Life

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## Plant Analysis Report

### Sample ID

(CEC/CEA Signature)

<i>Client Information</i>	<i>Lab Information</i>	<i>County Information</i>
<div>7702749093</div> <div> <div></div> <div></div> <div></div> <div></div> </div> <div>Crop: Alfalfa</div>	<div>Lab #4753</div> <div>Received: Jun 27, 2017</div> <div>Completed: Jun 27, 2017</div> <div>Printed: Jun 28, 2017</div> <div>Tests: P1</div>	<div></div> <div></div> <div></div> <div></div> <div></div>

### 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 Ratio: 12/1 (Sufficient: Less than 16/1)												

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## Plant Analysis Report

### Sample ID

(CEC/CEA Signature)

#### Client Information

uge3107@uga.edu  
 4782371226

#### Lab Information

Lab #1689  
 Completed: Oct 22, 2015  
 Printed: Oct 26, 2015  
 Tests: P1

#### 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

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## Plant Tissue Analysis - Bermudagrass

### Ranges and Ratios of Nutrients

Range for bermudagrass

Mills and Jones, 1996

	1
2.8-4.0 N	2.41
0.25-0.6 P	0.25
1.8-3.0 K	1.85
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

### What this tells me:

Nitrogen deficient

Barely sufficient, probably because of low growth rate

Barely sufficient, probably because of low growth rate

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
7.61 N:Ca	4.30
14.94 N:Mg	7.09
0.71 K:N	0.77
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
5.37 K:Ca	3.30
10.7 K:Mg	5.44
1.97 Ca:Mg	1.65
0.65 S:Ca	0.77
1.29 S:Mg	1.26

Really low, probably because of N immobilization in low soil pH

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Artificially good, because both N and K are low.

S challenges in K uptake?

Low K

Low K