



## Forage Analysis Report

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County: Hancock

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Net Energy Gain (NE<sub>a</sub>)

**SampleID** SEPT2CUT **Type** Hay

**Lab ID#** 111496 **Species** Mixed Grasses

Reported 10/5/2021 Clover No

	110 I TCGI IIII GICG	Specificacopy / inarysis	
Moisture - as received	14 %	Carbohydrates	
Dry Matter (DM) - as received	86 %	Acid Detergent Fiber (ADF)	34.00 %
Ash	4.70 %	Neutral Detergent Fiber (NDF)	65.31 %
Crude Protein (CP)	12.52 %	Lignin	4.44 %
Lysine	0.44 %	In-vitro True DM Digestibility 48H (IVTDMD48h)	70.78 %
Fat	3.28 %	Fructan	2.39 %
Relative Forage Quality (RFQ)	94	Starch	2.40 %
Ensiled pH - Wet Chemistry		Sugar (ESC)	5.32 %
Calculated Energy Values		Water Soluble Carbohydrates (WSC)	6.57 %
Digestible Energy (DE)	2.19 MCal/kg	Non-Structural Carbohydrates (NSC)	8.97 %
Total Digestible Nutrients (TDN)	62.99 %	Non-Fiber Carbohydrates (NFC)	14.19 %
Net Energy Maintenance (NE <sub>m</sub> )	0.64 MCal/lb	Minerals and Nitrate - Wet Chemistry	

NIRS - Near-Infared Spectroscopy Analysis\*

g)		Calcium (Ca)	0.56 %
Net Energy Lacatation (NE <sub>I</sub> )	0.64 MCal/lb	Phosphorus (P)	0.34 %
Minerals - NIRS		Magnesium (Mg)	0.34 %
Calcium (Ca)	%	Potassium (K)	1.95 %
Phosphorus (P)	%	Sulfur (S)	0.22 %
Magnesium (Mg)	%	Copper (Cu)	7 ppm
Potassium (K)	%	Zinc (Zn)	25 ppm
		Manganese (Mn)	96 ppm
		Iron (Fe)	61 ppm
		Boron (B)	2 ppm

C-1-:...- (C-)

Nitrate (NO<sub>3</sub>)

0.38 MCal/lb

ppm = mg/kg

154 ppm

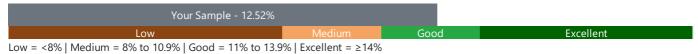
0.50

<sup>\*</sup>All values reported on a 100% DM Basis, unless otherwise noted.

## Forage Analysis Report

Understanding your hay quality - The graphs below are presented to provide a general guide to evaluate the Crude Protein (CP) and Total Digestible Nutrients (TDN) levels of the forage submitted for testing. If you need help understanding the results or information on developing a balanced ration for a specific animal(s), please contact your local UT Extension agent or visit the following website for definition information. http://tiny.utk.edu/FA-Definitions

## Crude Protein



## **TDN**

Your Sample - 62.99%

Low Mediur Good Excellent

Low = <50% | Medium = 50% to 55% | Good = 55.1% to 59.9% | Excellent = ≥60%