



## Forage Analysis Report

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County: Hancock

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**SampleID** 6/2 CTTNG **Type** Hay

Lab ID# 112028 Species Mixed Grasses

Reported 6/16/2022 Clover No

NII	<b>RS</b> - Near-Infared	Spectroscopy Analysis*	
Moisture - as received	15 %	Carbohydrates	
Dry Matter (DM) - as received	85 %	Acid Detergent Fiber (ADF)	30.23 %
Ash	3.28 %	Neutral Detergent Fiber (NDF)	58.81 %
Crude Protein (CP)	16.80 %	Lignin	3.98 %
Lysine	0.58 %	In-vitro True DM Digestibility 48H (IVTDMD48h)	76.70 %
Fat	2.56 %	Fructan	2.30 %
Relative Forage Quality (RFQ)	111	Starch	1.67 %
Ensiled pH - Wet Chemistry		Sugar (ESC)	7.66 %
Calculated Energy Values		Water Soluble Carbohydrates (WSC)	8.84 %
Digestible Energy (DE)	2.48 MCal/kg	Non-Structural Carbohydrates (NSC)	10.51 %
Total Digestible Nutrients (TDN)	66.94 %	Non-Fiber Carbohydrates (NFC)	18.55 %
Net Energy Maintenance (NE <sub>m</sub> )	0.70 MCal/lb	Minerals and Nitrate - Wet C	hemistry
Net Energy Gain (NE <sub>g</sub> )	0.43 MCal/lb	Calcium (Ca)	0.66 %
Net Energy Lacatation (NE <sub>I</sub> )	0.68 MCal/lb	Phosphorus (P)	0.34 %
Minerals - NIRS		Magnesium (Mg)	0.43 %
Calcium (Ca)	%	Potassium (K)	1.51 %
Phosphorus (P)	%	Sulfur (S)	0.27 %
Magnesium (Mg)	%	Copper (Cu)	6 ppm
Potassium (K)	%	Zinc (Zn)	21 ppm

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

ppm = mg/kg

102 ppm

152 ppm

3 ppm

0 ppm

Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development. University of Tennessee Institute of Agriculture, U.S. Department of Agriculture and county governments cooperating. UT Extension provides equal opportunities in programs and employment.

Manganese (Mn)

Iron (Fe)

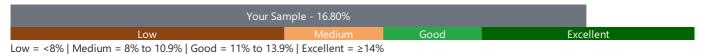
Boron (B)

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

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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 - 66.94%

Low Mediur Good Excellent

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