



Forage Analysis Report

NIRS - Near-Infared Spectroscopy Analysis*

DAVID JONES 1056 HWY 131 THORN HILL, TN 37881

County: Hancock

Email: dpearson@charter.net

SampleID 1ST CTTNG Type Hay

Lab ID# 111948 **Species** Mixed Grasses

Reported 5/10/2022 **Clover** No

Moisture - as received	13 %	Carbohy	
Dry Matter (DM) - as received	87 %	Acid Detergent Fiber (ADF)	
Ash	2 33 %		

 Crude Protein (CP)
 16.38 %

 Lysine
 0.57 %

 Fat
 2.20 %

 Relative Forage Quality (RFQ)
 132

Ensiled pH - Wet Chemistry

Calculated Energy Values

Digestible Energy (DE)	2.68	MCal/kg
Total Digestible Nutrients (TDN)	71.80	%
Net Energy Maintenance (NE _m)	0.77	MCal/lb
Net Energy Gain (NE _g)	0.49	MCal/lb
Net Energy Lacatation (NE _I)	0.74	MCal/lb

Minerals - NIRS

Calcium (Ca)	%
Phosphorus (P)	%
Magnesium (Mg)	%
Potassium (K)	%

Carbohydrates	
Acid Detergent Fiber (ADF)	25.60 %
Neutral Detergent Fiber (NDF)	52.70 %
Lignin	2.74 %
In-vitro True DM Digestibility 48H (IVTDMD48h)	82.65 %
Fructan	2.22 %
Starch	2.16 %
Sugar (ESC)	11.90 %
Water Soluble Carbohydrates (WSC)	12.89 %
Non-Structural Carbohydrates (NSC)	15.05 %
Non-Fiber Carbohydrates (NFC)	26.39 %

Minerals and Nitrate - Wet Chemistry

Calcium (Ca)	0.56 %
Phosphorus (P)	0.37 %
Magnesium (Mg)	0.37 %
Potassium (K)	1.43 %
Sulfur (S)	0.19 %
Copper (Cu)	5 ppm
Zinc (Zn)	26 ppm
Manganese (Mn)	198 ppm
Iron (Fe)	58 ppm
Boron (B)	6 ppm
Nitrate (NO ₃)	0 ppm

ppm = mg/kg

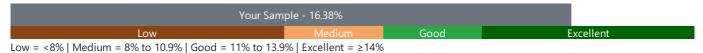
Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development. University of Tennessee Institute of Agriculture, U.S. Department of Agriculture and county governments cooperating. UT Extension provides equal opportunities in programs and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

^{*}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



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