



Mixed Grasses

## Forage Analysis Report

Lab ID#

David Jones Jones Hay Company 1056 Highway 131 Thorn Hill , TN 37881

County: Hancock

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SampleID JULY 2ND CUT Type Hay

**Species** 

**Reported** 7/10/2020 **Clover** No

110271

<b>NIRS</b> - Near-Infared Spectroscopy Analysis*
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Moisture - as received	15 %	<u>Carbohydrates</u>	
Dry Matter (DM) - as received	85 %	Acid Detergent Fiber (ADF)	30
Ash	7.25 %	Neutral Detergent Fiber (NDF)	50
Crude Protein (CP)	13.73 %	Lignin	:
Lysine	0.48 %	In-vitro True DM Digestibility 48H (IVTDMD48h)	7
Fat	2.72 %	Fructan	
Relative Forage Quality (RFQ)	114	Starch	
Ensiled pH - Wet Chemistry		Sugar (ESC)	10
Calculated Energy Values		Water Soluble Carbohydrates (WSC)	11
Digestible Energy (DE)	2.34 MCal/kg	Non-Structural Carbohydrates (NSC)	13
Total Digestible Nutrients (TDN)	66.15 %	Non-Fiber Carbohydrates (NFC)	19
Net Energy Maintenance (NE <sub>m</sub> )	0.69 MCal/lb	Minerals and Nitrate - Wet C	hem
Net Energy Gain (NE <sub>q</sub> )	0.42 MCal/lb	Calcium (Ca)	(
Net Energy Lacatation (NE <sub>I</sub> )	0.68 MCal/lb	Phosphorus (P)	(
Minerals - 1	VIRS	Magnesium (Mg)	(
		Potassium (K)	
Calcium (Ca)	%	Sulfur (S)	(
Phosphorus (P)	%	Copper (Cu)	
Magnesium (Mg)	%	Zinc (Zn)	
Potassium (K)	%	Manganese (Mn)	
		Iron (Fe)	
		Boron (B)	
		Nitrate (NO <sub>3</sub> )	

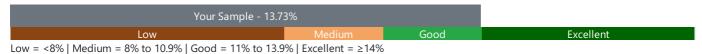
\*All values reported on a 100% DM Basis, unless otherwise noted.

ppm = mg/kg

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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 - 66.15%

Low Mediur Good Excellent

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