



Soil, Plant & Pest Center  
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# Forage Analysis Report

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

<b>SampleID</b>	JUNE 1ST	<b>Type</b>	Hay
<b>Lab ID#</b>	110139	<b>Species</b>	Mixed Grasses
<b>Reported</b>	6/18/2020	<b>Clover</b>	No

County : Hancock  
 Email : davidjones1955@hotmail.com

## NIRS - Near-Infrared Spectroscopy Analysis\*

Moisture - <i>as received</i>	11 %
Dry Matter (DM) - <i>as received</i>	89 %
Ash	6.20 %
Crude Protein (CP)	8.88 %
Lysine	0.31 %
Fat	1.85 %
Relative Forage Quality (RFQ)	85
Ensiled pH - <i>Wet Chemistry</i>	

### Calculated Energy Values

Digestible Energy (DE)	1.94 MCal/kg
Total Digestible Nutrients (TDN)	58.32 %
Net Energy Maintenance (NE <sub>m</sub> )	0.57 MCal/lb
Net Energy Gain (NE <sub>g</sub> )	0.31 MCal/lb
Net Energy Lactation (NE <sub>l</sub> )	0.59 MCal/lb

### Minerals - NIRS

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

### Carbohydrates

Acid Detergent Fiber (ADF)	38.46 %
Neutral Detergent Fiber (NDF)	66.81 %
Lignin	4.97 %
<i>In-vitro</i> True DM Digestibility 48H (IVTDM48h)	69.68 %
Fructan	2.10 %
Starch	2.29 %
Sugar (ESC)	6.97 %
Water Soluble Carbohydrates (WSC)	8.02 %
Non-Structural Carbohydrates (NSC)	10.31 %
Non-Fiber Carbohydrates (NFC)	16.26 %

### Minerals and Nitrate - Wet Chemistry

Calcium (Ca)	0.50 %
Phosphorus (P)	0.26 %
Magnesium (Mg)	0.26 %
Potassium (K)	2.24 %
Sulfur (S)	0.17 %
Copper (Cu)	4 ppm
Zinc (Zn)	15 ppm
Manganese (Mn)	69 ppm
Iron (Fe)	109 ppm
Boron (B)	5 ppm
Nitrate (NO <sub>3</sub> )	174 ppm

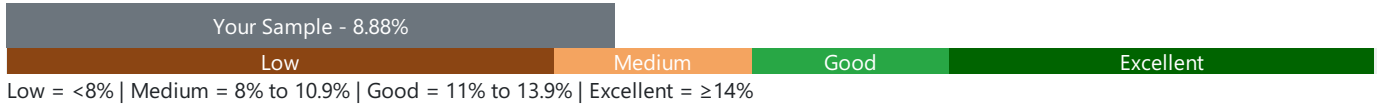
\*All values reported on a 100% DM Basis, unless otherwise noted.

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

