



# Forage Analysis Report

**DAVID JONES**  
**1056 HWY 131**  
**THORN HILL, TN 37881**

County: Hancock  
 Email: [DKPEARSON444@GMAIL.COM](mailto:DKPEARSON444@GMAIL.COM)

Sample ID: JUNE2NDCUT  
 Lab Number: 113207  
 Reported: 6/23/2023  
 Type: Hay  
 Species: Mixed Grasses

## Near-Infrared Spectroscopy Analysis (NIRS)<sup>1</sup>

<b>Water Content</b>			<i>as received</i>
DM	Dry Matter	88	%
Moisture	Moisture	12	%
<b>Protein</b>			<i>100% DM basis</i>
CP	Crude Protein	16.69	%
ADICP	Acid Detergent Insoluble CP	0.55	%
NDICP	Neutral Detergent Insoluble CP	3.13	%
InsolCP	Insoluble Crude Protein	9.38	%
Lysine	Lysine	0.58	%
<b>Fiber</b>			<i>100% DM basis</i>
ADF	Acid Detergent Fiber	26.78	%
NDF	Neutral Detergent Fiber	53.04	%
Lignin	Lignin	2.69	%
<b>Carbohydrates</b>			<i>100% DM basis</i>
ESC	Sugar	10.41	%
Fructan	Fructan	1.47	%
Starch	Starch	1.64	%
WSC	Water Soluble Carbohydrates	11.86	%
NSC	Non-Structural Carbohydrates	13.50	%
NFC	Non-Fiber Carbohydrates	23.66	%
<b>Digestibility</b>			<i>100% DM basis</i>
IVTDM48h	<i>in-vitro</i> True DM Digestibility 48h	80.76	%
NDFD48h	Neutral Detergent Fiber Digestibility 48h	63.00	%

<b>Fat</b>			<i>100% DM basis</i>
Fat	Fat	2.87	%
<b>Minerals</b>			<i>100% DM basis</i>
Ash	Ash	3.74	%
Ca	Calcium		%
P	Phosphorus		%
Mg	Magnesium		%
K	Potassium		%
<b>Energy Calculations</b>			<i>100% DM basis</i>
TDN	Total Digestible Nutrients	70.56	%
DE	Digestible Energy	1.97	MCal/kg
NE <sub>m</sub>	Net Energy Maintenance	0.75	MCal/lb
NE <sub>g</sub>	Net Energy Gain	0.47	MCal/lb
NE <sub>l</sub>	Net Energy Lactation	0.73	MCal/lb
<b>Components</b>			<i>Wet Chemistry</i>
pH	Ensiled		pH
NO <sub>3</sub>	Nitrates	203	ppm <sup>2</sup>
<b>Calculated Parameters<sup>3</sup></b>			<i>Scale</i>
RFQ	Relative Forage Quality	130	
RFV	Relative Feed Value	0	

<sup>2</sup> ppm = mg/kg

<sup>3</sup> Relative Forage Quality (RFQ) is reported for all grass, mixed, legume hays and haylages; and, Relative Feed Value (RFV) is reported for Alfalfa only. No nutritive value scale is available for corn silage

<sup>1</sup> All nutritive analyses at 100% Dry Matter (DM) basis unless otherwise noted. Not all constituents are available for each forage type submitted to the Soil, Plant and Pest Center. Forage analysis calibrations provided by the NIRS Forage and Feed Consortium.

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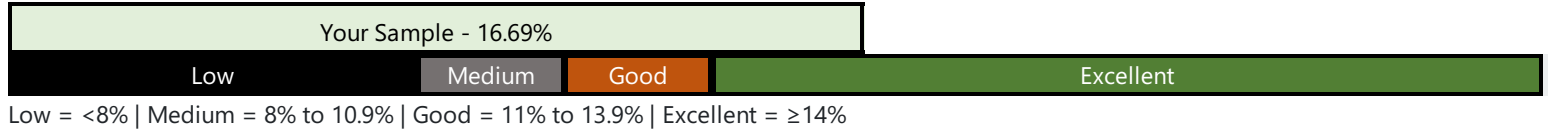
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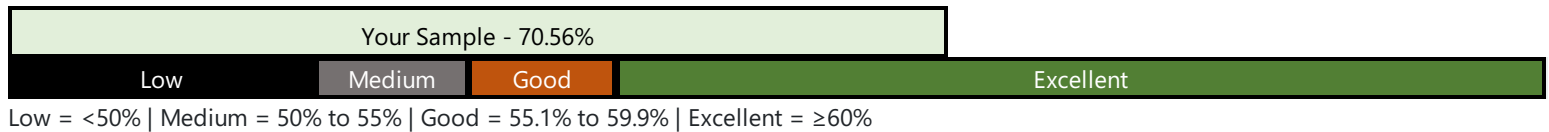
## Understanding Hay Quality

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 [utbeef.com](http://utbeef.com).

### Crude Protein (CP)



### Total Digestible Nutrients (TDN)



### Wet Chemistry

Minerals		<i>as received</i>
Ca	Calcium	0.79 %
P	Phosphorus	0.32 %
Mg	Magnesium	0.39 %
K	Potassium	1.55 %
S	Sulfur	0.20 %
Cu	Copper	5 ppm <sup>1</sup>
Zn	Zinc	18 ppm
Mn	Manganese	55 ppm
Fe	Iron	71 ppm
B	Boron	5 ppm

<sup>1</sup> ppm = mg/kg

### Payment Details

Receipt: 17262  
Amount: \$47.00  
Method: 2308  
Payment Date: 6/15/2023