



Forage Analysis Report

DAVID JONES
1056 HWY 131
THORN HILL, TN 37881

County: Hancock
 Email: DKPEARSON444@GMAIL.COM

Sample ID: SEPT1st3rd
 Lab Number: 113749
 Reported: 10/5/2023
 Type: Hay
 Species: Mixed Grasses

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content			as received		
DM	Dry Matter	87 %			
Moisture	Moisture	13 %			
Protein			100% DM basis		
CP	Crude Protein	16.00 %			
ADICP	Acid Detergent Insoluble CP	0.79 %			
NDICP	Neutral Detergent Insoluble CP	3.43 %			
InsolCP	Insoluble Crude Protein	9.24 %			
Lysine	Lysine	0.56 %			
Fiber			100% DM basis		
ADF	Acid Detergent Fiber	29.29 %			
NDF	Neutral Detergent Fiber	54.49 %			
Lignin	Lignin	3.14 %			
Carbohydrates			100% DM basis		
ESC	Sugar	11.41 %			
Fructan	Fructan	1.66 %			
Starch	Starch	2.03 %			
WSC	Water Soluble Carbohydrates	12.77 %			
NSC	Non-Structural Carbohydrates	14.80 %			
NFC	Non-Fiber Carbohydrates	22.41 %			
Digestibility			100% DM basis		
IVTDM48h	<i>in-vitro</i> True DM Digestibility 48h	81.62 %			
NDFD48h	Neutral Detergent Fiber Digestibility 48h	62.00 %			
Fat			100% DM basis		
Fat	Fat	3.18 %			
Minerals			100% DM basis		
Ash	Ash	3.92 %			
Ca	Calcium	%			
P	Phosphorus	%			
Mg	Magnesium	%			
K	Potassium	%			
Energy Calculations			100% DM basis		
TDN	Total Digestible Nutrients	67.93 %			
DE	Digestible Energy	1.92 Mcal/kg			
NE _m	Net Energy Maintenance	0.71 Mcal/lb			
NE _g	Net Energy Gain	0.44 Mcal/lb			
NE _l	Net Energy Lactation	0.70 Mcal/lb			
Components			Wet Chemistry		
pH	Ensiled	pH			
NO ₃	Nitrates	558 ppm ²			
Calculated Parameters ³			Scale		
RFQ	Relative Forage Quality	122			
RFV	Relative Feed Value	0			

² ppm = mg/kg

³ 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

¹ 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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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.

Crude Protein (CP)



Low = <8% | Medium = 8% to 10.9% | Good = 11% to 13.9% | Excellent = ≥14%

Total Digestible Nutrients (TDN)



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

Wet Chemistry

Minerals		<i>as received</i>
Ca	Calcium	0.64 %
P	Phosphorus	0.32 %
Mg	Magnesium	0.51 %
K	Potassium	1.10 %
S	Sulfur	0.22 %
Cu	Copper	7 ppm ¹
Zn	Zinc	21 ppm
Mn	Manganese	121 ppm
Fe	Iron	75 ppm
B	Boron	3 ppm

¹ ppm = mg/kg

Payment Details

Receipt: 17894
Amount: \$47.00
Method: 2322
Payment Date: 9/29/2023