



Forage Analysis Report

DAVID JONES
1056 HWY 131
THORN HILL, TN 37881

County: Hancock
 Email: DKPEARSON444@GMAIL.COM

Sample ID: OCT2NDCUT
 Lab Number: 112637
 Reported: 10/13/2022
 Type: Hay
 Species: Mixed Grasses

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content		<i>as received</i>	
DM	Dry Matter	87	%
Moisture	Moisture	13	%
Protein		<i>100% DM basis</i>	
CP	Crude Protein	11.40	%
ADICP	Acid Detergent Insoluble CP	0.92	%
NDICP	Neutral Detergent Insoluble CP	2.46	%
InsolCP	Insoluble Crude Protein	5.87	%
Lysine	Lysine	0.40	%
Fiber		<i>100% DM basis</i>	
ADF	Acid Detergent Fiber	35.07	%
NDF	Neutral Detergent Fiber	63.97	%
Lignin	Lignin	4.49	%
Carbohydrates		<i>100% DM basis</i>	
ESC	Sugar	6.59	%
Fructan	Fructan	2.10	%
Starch	Starch	2.45	%
WSC	Water Soluble Carbohydrates	8.03	%
NSC	Non-Structural Carbohydrates	10.48	%
NFC	Non-Fiber Carbohydrates	16.45	%
Digestibility		<i>100% DM basis</i>	
IVTDMD48h	<i>in-vitro</i> True DM Digestibility 48h	70.12	%
NDFD48h	Neutral Detergent Fiber Digestibility 48h	49.00	%
Fat		<i>100% DM basis</i>	
Fat	Fat	2.55	%
Minerals		<i>100% DM basis</i>	
Ash	Ash	5.63	%
Ca	Calcium		%
P	Phosphorus		%
Mg	Magnesium		%
K	Potassium		%
Energy Calculations		<i>100% DM basis</i>	
TDN	Total Digestible Nutrients	61.87	%
DE	Digestible Energy	2.12	MCal/kg
NE _m	Net Energy Maintenance	0.62	MCal/lb
NE _g	Net Energy Gain	0.36	MCal/lb
NE _l	Net Energy Lacatation	0.63	MCal/lb
Components		<i>Wet Chemistry</i>	
pH	Ensiled		pH
NO ₃	Nitrates	115	ppm ²
Calculated Parameters³		<i>Scale</i>	
RFQ	Relative Forage Quality	94	
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	0.43 %
P	Phosphorus	0.31 %
Mg	Magnesium	0.41 %
K	Potassium	2.45 %
S	Sulfur	0.22 %
Cu	Copper	4 ppm ¹
Zn	Zinc	20 ppm
Mn	Manganese	111 ppm
Fe	Iron	115 ppm
B	Boron	3 ppm

¹ ppm = mg/kg

Payment Details

Receipt:
Amount: \$47.00
Method: 2382
Payment Date: 10/5/2022