



Forage Analysis Report

DAVID JONES
1056 HWY 131
THORN HILL, TN 37881

County: Hancock
 Email: dpearson@charter.net

Sample ID: AUG 3RD CUT
 Lab Number: 112439
 Reported: 9/7/2022
 Type: Hay
 Species: Mixed Grasses

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content			<i>as received</i>		
DM	Dry Matter	83 %			
Moisture	Moisture	17 %			
Protein			100% DM basis		
CP	Crude Protein	18.33 %			
ADICP	Acid Detergent Insoluble CP	0.80 %			
NDICP	Neutral Detergent Insoluble CP	4.34 %			
InsolCP	Insoluble Crude Protein	11.21 %			
Lysine	Lysine	0.64 %			
Fiber			100% DM basis		
ADF	Acid Detergent Fiber	30.57 %			
NDF	Neutral Detergent Fiber	57.56 %			
Lignin	Lignin	3.96 %			
Carbohydrates			100% DM basis		
ESC	Sugar	7.06 %			
Fructan	Fructan	2.31 %			
Starch	Starch	2.05 %			
WSC	Water Soluble Carbohydrates	7.64 %			
NSC	Non-Structural Carbohydrates	9.69 %			
NFC	Non-Fiber Carbohydrates	14.96 %			
Digestibility			100% DM basis		
IVTDMD48h	<i>in-vitro</i> True DM Digestibility 48h	76.24 %			
NDFD48h	Neutral Detergent Fiber Digestibility 48h	52.00 %			
Fat			100% DM basis		
Fat	Fat	2.97 %			
Minerals			100% DM basis		
Ash	Ash	6.18 %			
Ca	Calcium	%			
P	Phosphorus	%			
Mg	Magnesium	%			
K	Potassium	%			
Energy Calculations			100% DM basis		
TDN	Total Digestible Nutrients	66.59 %			
DE	Digestible Energy	2.51 Mcal/kg			
NE _m	Net Energy Maintenance	0.69 Mcal/lb			
NE _g	Net Energy Gain	0.42 Mcal/lb			
NE _l	Net Energy Lactation	0.68 Mcal/lb			
Components			Wet Chemistry		
pH	Ensiled	pH			
NO ₃	Nitrates	1370 ppm ²			
Calculated Parameters ³			Scale		
RFQ	Relative Forage Quality	113			
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

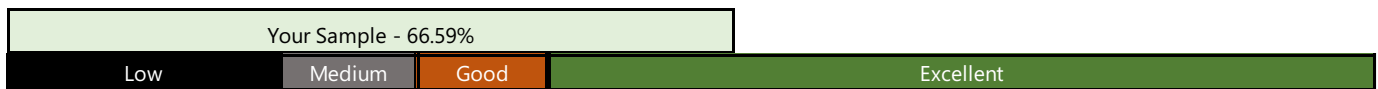
The graphs below are presented to provide a general guide to evaluate the Crude Protein (CP) and Total Digestible Nutrients (TDN) levels of the forage submitted for testing. If you need help understanding the results or information on developing a balanced ration for a specific animal(s), please contact 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	0.47 %
P	Phosphorus	0.32 %
Mg	Magnesium	0.38 %
K	Potassium	1.40 %
S	Sulfur	0.18 %
Cu	Copper	7 ppm ¹
Zn	Zinc	25 ppm
Mn	Manganese	85 ppm
Fe	Iron	51 ppm
B	Boron	3 ppm

¹ ppm = mg/kg

Payment Details

Receipt:
Amount: \$47.00
Method: 2375
Payment Date: 8/29/2022

Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development. University of Tennessee Institute of Agriculture, U.S. Department of Agriculture and county governments cooperating. UT Extension provides equal opportunities in programs and employment.