



Forage Analysis Report

DAVID JONES
1056 HWY 131
THORN HILL, TN 37881

County: Hancock
 Email: dpearson@charter.net

Sample ID: JLY 2ND CT
 Lab Number: 112231
 Reported: 8/2/2022
 Type: Hay
 Species: Mixed Grasses

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content			as received		
DM	Dry Matter	91 %			
Moisture	Moisture	9 %			
Protein			100% DM basis		
CP	Crude Protein	16.40 %			
ADICP	Acid Detergent Insoluble CP	0.71 %			
NDICP	Neutral Detergent Insoluble CP	3.63 %			
InsolCP	Insoluble Crude Protein	9.67 %			
Lysine	Lysine	0.57 %			
Fiber			100% DM basis		
ADF	Acid Detergent Fiber	31.43 %			
NDF	Neutral Detergent Fiber	58.15 %			
Lignin	Lignin	3.83 %			
Carbohydrates			100% DM basis		
ESC	Sugar	6.83 %			
Fructan	Fructan	2.28 %			
Starch	Starch	2.26 %			
WSC	Water Soluble Carbohydrates	7.22 %			
NSC	Non-Structural Carbohydrates	9.48 %			
NFC	Non-Fiber Carbohydrates	19.40 %			
Digestibility			100% DM basis		
IVTDMD48h	<i>in-vitro</i> True DM Digestibility 48h	75.03 %			
NDFD48h	Neutral Detergent Fiber Digestibility 48h	53.00 %			
Fat			100% DM basis		
Fat	Fat	3.44 %			
Minerals			100% DM basis		
Ash	Ash	2.61 %			
Ca	Calcium	%			
P	Phosphorus	%			
Mg	Magnesium	%			
K	Potassium	%			
Energy Calculations			100% DM basis		
TDN	Total Digestible Nutrients	65.69 %			
DE	Digestible Energy	2.41 Mcal/kg			
NE _m	Net Energy Maintenance	0.68 Mcal/lb			
NE _g	Net Energy Gain	0.41 Mcal/lb			
NE _l	Net Energy Lactation	0.67 Mcal/lb			
Components			Wet Chemistry		
pH	Ensiled	pH			
NO ₃	Nitrates	44 ppm ²			
Calculated Parameters ³			Scale		
RFQ	Relative Forage Quality	110			
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

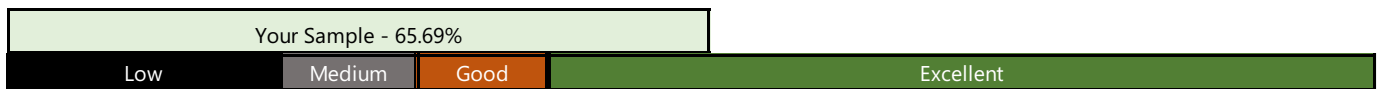
The graphs below are presented to provide a general guide to evaluate the Crude Protein (CP) and Total Digestible Nutrients (TDN) levels of the forage submitted for testing. If you need help understanding the results or information on developing a balanced ration for a specific animal(s), please contact 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	0.83 %
P	Phosphorus	0.45 %
Mg	Magnesium	0.47 %
K	Potassium	1.62 %
S	Sulfur	0.22 %
Cu	Copper	6 ppm ¹
Zn	Zinc	26 ppm
Mn	Manganese	122 ppm
Fe	Iron	273 ppm
B	Boron	4 ppm

¹ ppm = mg/kg

Payment Details

Receipt:
Amount: \$47.00
Method: 2363
Payment Date: 7/20/2022

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.