



Forage Analysis Report

David Jones
1056 Hwy 131
Horn Hill, TN 37881

County: Hancock
Email: dkpearson444@gmail.com

Sample ID: 2nd cutting July
Lab Number: 118134
Reported: 7/14/2026
Type: Hay

Forage Species (Identified by Client): 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	18.69	%
ADICP	Acid Detergent Insoluble CP	0.77	%
NDICP	Neutral Detergent Insoluble CP	2.65	%
InsolCP	Insoluble Crude Protein	9.85	%
Lysine	Lysine	0.65	%
Fiber			100% DM basis
ADF	Acid Detergent Fiber	26.18	%
NDF	Neutral Detergent Fiber	50.24	%
Lignin	Lignin	2.70	%
Carbohydrates			100% DM basis
ESC	Sugar	9.52	%
Fructan	Fructan	2.55	%
Starch	Starch	1.31	%
WSC	Water Soluble Carbohydrates	10.98	%
NSC	Non-Structural Carbohydrates	12.29	%
NFC	Non-Fiber Carbohydrates	22.25	%
Digestibility			100% DM basis
IVTDMD48h	in-vitro True DM Digestibility 48h	83.69	%
NDFD48h	Neutral Detergent Fiber Digestibility 48h	66.00	%
Fat			100% DM basis
Fat	Fat	3.01	%
Minerals			100% DM basis
Ash	Ash	5.81	%
Ca	Calcium		%
P	Phosphorus		%
Mg	Magnesium		%
K	Potassium		%
Energy Calculations			100% DM basis
TDN	Total Digestible Nutrients	71.19	%
DE	Digestible Energy	1.99	MCal/kg
NE _m	Net Energy Maintenance	0.76	MCal/lb
NE _g	Net Energy Gain	0.48	MCal/lb
NE _l	Net Energy Lacatation	0.73	MCal/lb
Components			Wet Chemistry
pH	Ensiled		pH
NO ₃	Nitrates	368	ppm ²
Calculated Parameters ³			Scale
RFQ	Relative Forage Quality	138	
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

as received

Ca	Calcium	0.48 %
P	Phosphorus	0.35 %
Mg	Magnesium	0.24 %
K	Potassium	2.29 %
S	Sulfur	0.18 %
Cu	Copper	5 ppm ¹
Zn	Zinc	24 ppm
Mn	Manganese	61 ppm
Fe	Iron	118 ppm
B	Boron	4 ppm

¹ ppm = mg/kg

Payment Details

Receipt:
Amount: \$47.00
Method: 2505
Payment Date: 7/8/2026

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.