



Forage Analysis Report

GREGORY MOCK 157 ETT BROWN ROAD DEER LODGE, TN 37726 County: Morgan Email: GDM1951@GMAIL.COM Sample ID: 2 JB 2nd tim Lab Number: 116991

Reported: 10/3/2025

Type: Hay

Forage Species (Identified by Client): Mixed Grasses

Near-Infared Spectroscopy Analysis (NIRS)¹

	iveai-ii	тагеа эр	ccti
Water Conte	nt	as receiv	red
DM	Dry Matter	87	%
Moisture	Moisture	13	%
Protein		100% DM	basis
СР	Crude Protein	20.65	%
ADICP	Acid Detergent Insoluble CP	1.28	%
NDICP	Neutral Detergent Insoluble CP	4.66	%
InsoICP	Insoluble Crude Protein	13.55	%
Lysine	Lysine	0.72	%
Fiber		100% DM	basis
ADF	Acid Detergent Fiber	28.18	%
NDF	Neutral Detergent Fiber	54.39	%
Lignin	Lignin	4.62	%
Carbohydrate	es	100% DM	basis
ESC	Sugar	7.34	%
Fructan	Fructan	2.28	%
Starch	Starch	0.98	%
WSC	Water Soluble Carbohydrates	9.43	%
NSC	Non-Structural Carbohydrates	10.41	%
NFC	Non-Fiber Carbohydrates	16.73	%
Digestibility		100% DM	basis
IVTDMD48h	in-vitro True DM Digestibility 48h	81.14	%
NDFD48h	Neutral Detergent Fiber Digestibility 48h	62.00	%

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.

llysis (NIRS) ¹	
	100% DM basis
Fat	3.48 %
ls	100% DM basis
Ash	4.75 %
Calcium	0.53 %
Phosphorus	0.32 %
Magnesium	0.27 %
Potassium	2.23 %
Calculations	100% DM basis
Total Digestible Nutrients	69.09 %
Digestible Energy	1.98 MCal/kg
Net Energy Maintenance	0.73 MCal/lb
Net Energy Gain	0.46 MCal/lb
Net Energy Lacatation	0.71 MCal/lb
nents	Wet Chemistry
Ensiled	рН
Nitrates	ppm²
ted Parameters ³	Scale
Relative Forage Quality	124
Relative Feed Value	0
	Fat S Ash Calcium Phosphorus Magnesium Potassium Calculations Total Digestible Nutrients Digestible Energy Net Energy Maintenance Net Energy Gain Net Energy Lacatation nents Ensiled Nitrates ted Parameters³ Relative Forage Quality

 $^{^{2}}$ 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

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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 <u>utbeef.com</u>.

Crude Protein (CP)

Low Medium Good Excellent	Your Sample - 20.65%				
	Low	Medium	Good		Excellent

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

Total Digestible Nutrients (TDN)

	Your Sample	e - 69.09%		
Low	Medium	Good	Excellent	

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

Wet Chemistry			
Minerals		as received	
Ca	Calcium	%	
Р	Phosphorus	%	
Mg	Magnesium	%	
K	Potassium	%	
S	Sulfur	%	
Cu	Copper	ppm ¹	
Zn	Zinc	ppm	
Mn	Manganese	ppm	
Fe	Iron	ppm	
В	Boron	ppm	

Payment Details

Receipt: Amount: \$17.00

Method: 105

Payment Date: 9/29/2025

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.

¹ ppm = mg/kg