



Forage Analysis Report

GREGORY MOCK
157 ETT BROWN ROAD
DEER LODGE, TN 37726

County: Morgan
 Email: GDM1951@GMAIL.COM

Sample ID: OR-TIM
 Lab Number: 117728
 Reported: 2/5/2026
 Type: Hay

Forage Species (Identified by Client): Mixed Grasses

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content			<i>as received</i>		
DM	Dry Matter	88 %			
Moisture	Moisture	12 %			
Protein			<i>100% DM basis</i>		
CP	Crude Protein	12.06 %			
ADICP	Acid Detergent Insoluble CP	0.63 %			
NDICP	Neutral Detergent Insoluble CP	2.29 %			
InsolCP	Insoluble Crude Protein	8.01 %			
Lysine	Lysine	0.42 %			
Fiber			<i>100% DM basis</i>		
ADF	Acid Detergent Fiber	32.44 %			
NDF	Neutral Detergent Fiber	53.32 %			
Lignin	Lignin	5.13 %			
Carbohydrates			<i>100% DM basis</i>		
ESC	Sugar	11.53 %			
Fructan	Fructan	2.46 %			
Starch	Starch	2.05 %			
WSC	Water Soluble Carbohydrates	15.80 %			
NSC	Non-Structural Carbohydrates	17.85 %			
NFC	Non-Fiber Carbohydrates	27.76 %			
Digestibility			<i>100% DM basis</i>		
IVTDMD48h	<i>in-vitro</i> True DM Digestibility 48h	80.02 %			
NDFD48h	Neutral Detergent Fiber Digestibility 48h	61.00 %			
Fat			<i>100% DM basis</i>		
Fat	Fat	2.85 %			
Minerals			<i>100% DM basis</i>		
Ash	Ash	4.01 %			
Ca	Calcium	0.44 %			
P	Phosphorus	0.26 %			
Mg	Magnesium	0.20 %			
K	Potassium	1.10 %			
Energy Calculations			<i>100% DM basis</i>		
TDN	Total Digestible Nutrients	64.63 %			
DE	Digestible Energy	1.81 Mcal/kg			
NE _m	Net Energy Maintenance	0.66 Mcal/lb			
NE _g	Net Energy Gain	0.40 Mcal/lb			
NE _l	Net Energy Lactation	0.66 Mcal/lb			
Components			<i>Wet Chemistry</i>		
pH	Ensiled	pH			
NO ₃	Nitrates	ppm ²			
Calculated Parameters ³			<i>Scale</i>		
RFQ	Relative Forage Quality	118			
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	%
P	Phosphorus	%
Mg	Magnesium	%
K	Potassium	%
S	Sulfur	%
Cu	Copper	ppm ¹
Zn	Zinc	ppm
Mn	Manganese	ppm
Fe	Iron	ppm
B	Boron	ppm

¹ ppm = mg/kg

Payment Details

Receipt:
Amount: \$17.00
Method: 152
Payment Date: 2/2/2026