



Forage Analysis Report

GREGORY MOCK**157 ETT BROWN ROAD****DEER LODGE, TN 37726**

County: Morgan

Email: GDM1951@GMAIL.COM

Sample ID: Dillon Tim OG

Lab Number: 117249

Reported: 11/17/2025

Type: Hay

Forage Species (Identified by Client): Mixed Grasses

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content		<i>as received</i>
DM	Dry Matter	90 %
Moisture	Moisture	10 %
Protein		<i>100% DM basis</i>
CP	Crude Protein	15.84 %
ADICP	Acid Detergent Insoluble CP	0.92 %
NDICP	Neutral Detergent Insoluble CP	3.45 %
InsolCP	Insoluble Crude Protein	10.05 %
Lysine	Lysine	0.55 %
Fiber		<i>100% DM basis</i>
ADF	Acid Detergent Fiber	31.22 %
NDF	Neutral Detergent Fiber	56.30 %
Lignin	Lignin	4.43 %
Carbohydrates		<i>100% DM basis</i>
ESC	Sugar	9.10 %
Fructan	Fructan	2.12 %
Starch	Starch	1.86 %
WSC	Water Soluble Carbohydrates	11.60 %
NSC	Non-Structural Carbohydrates	13.46 %
NFC	Non-Fiber Carbohydrates	20.33 %
Digestibility		<i>100% DM basis</i>
IVTDMD48h	<i>in-vitro</i> True DM Digestibility 48h	81.15 %
NDFD48h	Neutral Detergent Fiber Digestibility 48h	64.00 %

Fat		<i>100% DM basis</i>
Fat	Fat	3.21 %
Minerals		<i>100% DM basis</i>
Ash	Ash	4.32 %
Ca	Calcium	0.47 %
P	Phosphorus	0.29 %
Mg	Magnesium	0.22 %
K	Potassium	2.00 %
Energy Calculations		<i>100% DM basis</i>
TDN	Total Digestible Nutrients	65.91 %
DE	Digestible Energy	1.87 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		<i>Wet Chemistry</i>
pH	Ensiled	pH
NO ₃	Nitrates	ppm ²
Calculated Parameters ³		<i>Scale</i>
RFQ	Relative Forage Quality	114
RFV	Relative Feed Value	0

² ppm = mg/kg³ 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: 151

Payment Date: 11/6/2025