

Forage Analysis Report

GREGORY MOCK
157 ETT BROWN ROAD
DEER LODGE, TN 37726

County: Morgan
Email: GDM1951@GMAIL.COM

Sample ID: Thad OG
Lab Number: 117033
Reported: 10/8/2025
Type: Hay
Forage Species (Identified by Client): Orchardgrass

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content			as received
DM	Dry Matter	90	%
Moisture	Moisture	10	%
Protein			100% DM basis
CP	Crude Protein	14.82	%
ADICP	Acid Detergent Insoluble CP	0.90	%
NDICP	Neutral Detergent Insoluble CP	3.00	%
InsolCP	Insoluble Crude Protein	9.30	%
Lysine	Lysine	0.52	%
Fiber			100% DM basis
ADF	Acid Detergent Fiber	30.19	%
NDF	Neutral Detergent Fiber	54.79	%
Lignin	Lignin	3.89	%
Carbohydrates			100% DM basis
ESC	Sugar	8.60	%
Fructan	Fructan	2.27	%
Starch	Starch	1.64	%
WSC	Water Soluble Carbohydrates	11.58	%
NSC	Non-Structural Carbohydrates	13.22	%
NFC	Non-Fiber Carbohydrates	21.65	%
Digestibility			100% DM basis
IVTDMD48h	in-vitro True DM Digestibility 48h	82.56	%
NDFD48h	Neutral Detergent Fiber Digestibility 48h	66.00	%

Fat			100% DM basis
Fat	Fat	3.39	%
Minerals			100% DM basis
Ash	Ash	5.35	%
Ca	Calcium	0.46	%
P	Phosphorus	0.31	%
Mg	Magnesium	0.22	%
K	Potassium	2.24	%
Energy Calculations			100% DM basis
TDN	Total Digestible Nutrients	66.99	%
DE	Digestible Energy	1.88	MCal/kg
NE _m	Net Energy Maintenance	0.70	MCal/lb
NE _g	Net Energy Gain	0.43	MCal/lb
NE _l	Net Energy Lacatation	0.68	MCal/lb
Components			Wet Chemistry
pH	Ensiled	pH	
NO ₃	Nitrates	ppm ²	
Calculated Parameters ³			Scale
RFQ	Relative Forage Quality	119	
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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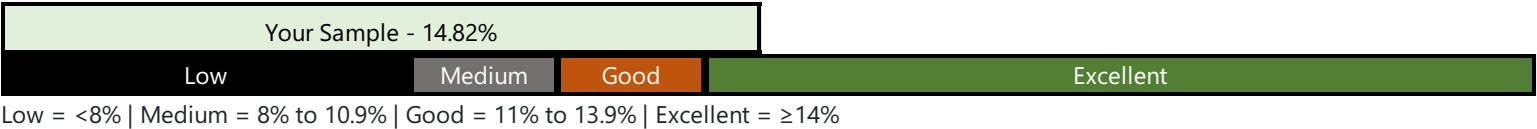
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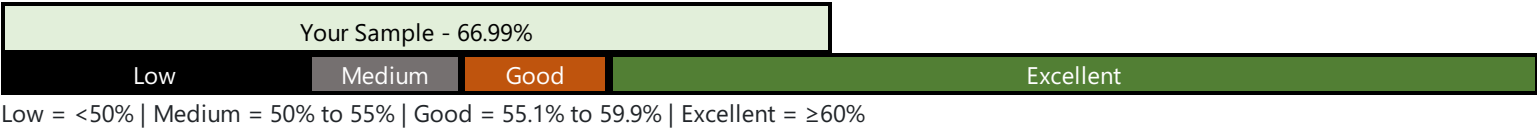
Understanding Hay Quality

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)



Total Digestible Nutrients (TDN)



Wet Chemistry

Minerals		as received
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: 106
Payment Date: 10/6/2025