



Forage Analysis Report

GREGORY MOCK
157 ETT BROWN ROAD
DEER LODGE, TN 37726

County: Morgan
 Email: GDM1951@GMAIL.COM

Sample ID: ch OR
 Lab Number: 117885
 Reported: 5/13/2026

Type: Hay

Forage Species (Identified by Client): Orchardgrass

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content			<i>as received</i>
DM	Dry Matter		91 %
Moisture	Moisture		9 %
Protein			<i>100% DM basis</i>
CP	Crude Protein		18.37 %
ADICP	Acid Detergent Insoluble CP		1.00 %
NDICP	Neutral Detergent Insoluble CP		2.82 %
InsolCP	Insoluble Crude Protein		11.18 %
Lysine	Lysine		0.64 %
Fiber			<i>100% DM basis</i>
ADF	Acid Detergent Fiber		28.31 %
NDF	Neutral Detergent Fiber		51.10 %
Lignin	Lignin		4.26 %
Carbohydrates			<i>100% DM basis</i>
ESC	Sugar		9.80 %
Fructan	Fructan		2.42 %
Starch	Starch		1.85 %
WSC	Water Soluble Carbohydrates		11.90 %
NSC	Non-Structural Carbohydrates		13.75 %
NFC	Non-Fiber Carbohydrates		22.72 %
Digestibility			<i>100% DM basis</i>
IVTDM48h	<i>in-vitro</i> True DM Digestibility 48h		85.06 %
NDFD48h	Neutral Detergent Fiber Digestibility 48h		72.00 %

Fat			<i>100% DM basis</i>
Fat	Fat		3.15 %
Minerals			<i>100% DM basis</i>
Ash	Ash		4.66 %
Ca	Calcium		0.55 %
P	Phosphorus		0.26 %
Mg	Magnesium		0.25 %
K	Potassium		2.15 %
Energy Calculations			<i>100% DM basis</i>
TDN	Total Digestible Nutrients		68.96 %
DE	Digestible Energy		1.95 MCal/kg
NE _m	Net Energy Maintenance		0.73 MCal/lb
NE _g	Net Energy Gain		0.45 MCal/lb
NE _l	Net Energy Lactation		0.71 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		132
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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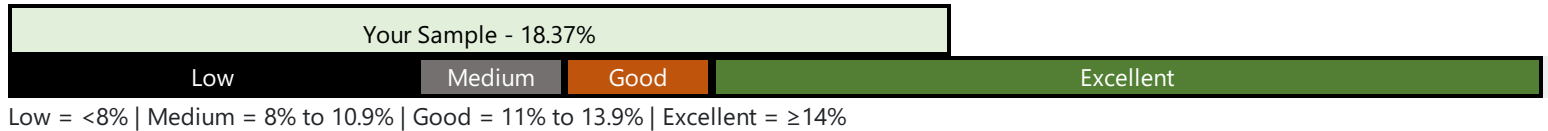
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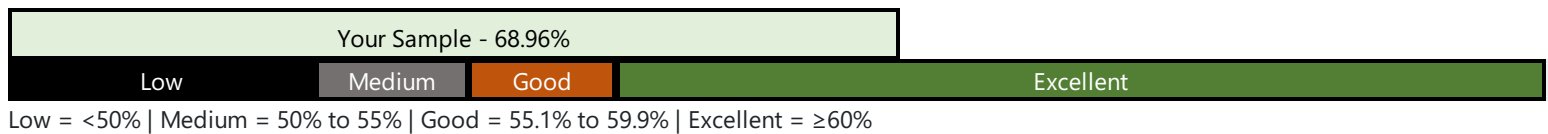
Understanding Hay Quality

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		<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: 160
Payment Date: 5/6/2026