



Forage Analysis Report

GREGORY MOCK
157 ETT BROWN ROAD
DEER LODGE, TN 37726

County: Morgan
 Email: GDM1951@GMAIL.COM

Sample ID: Or ACT
 Lab Number: 117793
 Reported: 3/4/2026
 Type: Hay
 Forage Species (Identified by Client): Alfalfa

Near-Infrared Spectroscopy Analysis (NIRS)¹

Water Content			<i>as received</i>
DM	Dry Matter		89 %
Moisture	Moisture		11 %
Protein			<i>100% DM basis</i>
CP	Crude Protein		19.30 %
ADICP	Acid Detergent Insoluble CP		0.86 %
NDICP	Neutral Detergent Insoluble CP		1.34 %
InsolCP	Insoluble Crude Protein		10.95 %
Lysine	Lysine		0.67 %
Fiber			<i>100% DM basis</i>
ADF	Acid Detergent Fiber		26.48 %
NDF	Neutral Detergent Fiber		31.65 %
Lignin	Lignin		6.90 %
Carbohydrates			<i>100% DM basis</i>
ESC	Sugar		7.98 %
Fructan	Fructan		2.37 %
Starch	Starch		1.65 %
WSC	Water Soluble Carbohydrates		10.21 %
NSC	Non-Structural Carbohydrates		11.86 %
NFC	Non-Fiber Carbohydrates		37.31 %
Digestibility			<i>100% DM basis</i>
IVTDM48h	<i>in-vitro</i> True DM Digestibility 48h		84.31 %
NDFD48h	Neutral Detergent Fiber Digestibility 48h		46.00 %

Fat			<i>100% DM basis</i>
Fat	Fat		2.29 %
Minerals			<i>100% DM basis</i>
Ash	Ash		9.45 %
Ca	Calcium		1.86 %
P	Phosphorus		0.27 %
Mg	Magnesium		0.30 %
K	Potassium		2.40 %
Energy Calculations			<i>100% DM basis</i>
TDN	Total Digestible Nutrients		70.87 %
DE	Digestible Energy		1.92 MCal/kg
NE _m	Net Energy Maintenance		0.75 MCal/lb
NE _g	Net Energy Gain		0.48 MCal/lb
NE _l	Net Energy Lactation		0.73 MCal/lb
Components			<i>Wet Chemistry</i>
pH	Ensiled		pH
NO ₃	Nitrates		ppm ²
Calculated Parameters³			<i>Scale</i>
RFQ	Relative Forage Quality		0
RFV	Relative Feed Value		201

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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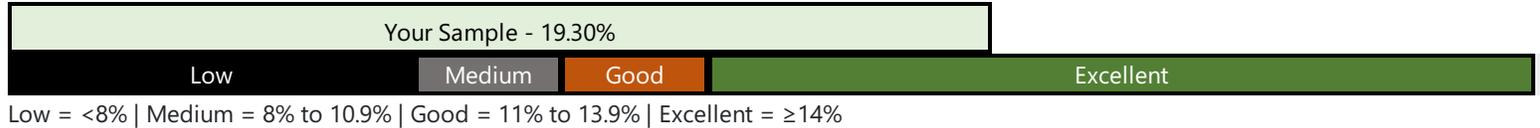
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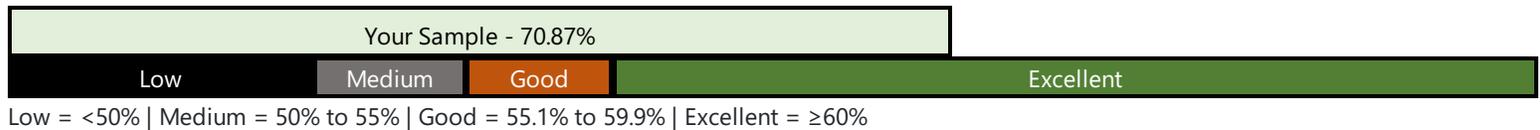
Understanding Hay Quality

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: 155
Payment Date: 3/2/2026