



Forage Analysis Report

DAVID JONES
1056 HWY 131
THORN HILL, TN 37881

County: Hancock
 Email: davidjones1955@hotmail.com

Sample ID: MAY,1st
 Lab Number: 113074
 Reported: 6/6/2023
 Type: Hay
 Species: Mixed Grasses

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	15.21 %
ADICP	Acid Detergent Insoluble CP	0.63 %
NDICP	Neutral Detergent Insoluble CP	2.73 %
InsolCP	Insoluble Crude Protein	8.45 %
Lysine	Lysine	0.53 %
Fiber		<i>100% DM basis</i>
ADF	Acid Detergent Fiber	24.58 %
NDF	Neutral Detergent Fiber	49.93 %
Lignin	Lignin	2.32 %
Carbohydrates		<i>100% DM basis</i>
ESC	Sugar	13.09 %
Fructan	Fructan	2.15 %
Starch	Starch	3.39 %
WSC	Water Soluble Carbohydrates	15.84 %
NSC	Non-Structural Carbohydrates	19.23 %
NFC	Non-Fiber Carbohydrates	29.61 %
Digestibility		<i>100% DM basis</i>
IVTDMD48h	<i>in-vitro</i> True DM Digestibility 48h	84.94 %
NDFD48h	Neutral Detergent Fiber Digestibility 48h	72.00 %

Fat		<i>100% DM basis</i>
Fat	Fat	2.63 %
Minerals		<i>100% DM basis</i>
Ash	Ash	2.62 %
Ca	Calcium	%
P	Phosphorus	%
Mg	Magnesium	%
K	Potassium	%
Energy Calculations		<i>100% DM basis</i>
TDN	Total Digestible Nutrients	72.87 %
DE	Digestible Energy	2.01 MCal/kg
NE _m	Net Energy Maintenance	0.78 MCal/lb
NE _g	Net Energy Gain	0.50 MCal/lb
NE _l	Net Energy Lactation	0.75 MCal/lb
Components		<i>Wet Chemistry</i>
pH	Ensiled	pH
NO ₃	Nitrates	264 ppm ²
Calculated Parameters³		<i>Scale</i>
RFQ	Relative Forage Quality	142
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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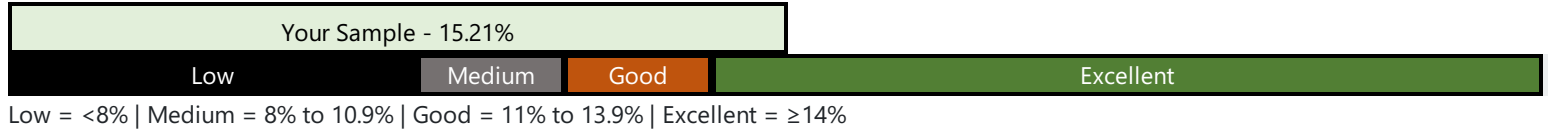
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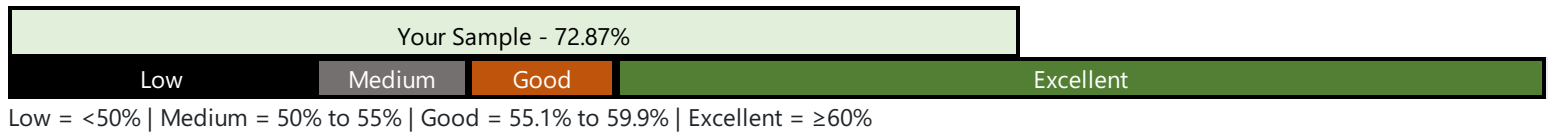
Understanding Hay Quality

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	0.40 %
P	Phosphorus	0.27 %
Mg	Magnesium	0.21 %
K	Potassium	1.85 %
S	Sulfur	0.15 %
Cu	Copper	5 ppm ¹
Zn	Zinc	17 ppm
Mn	Manganese	90 ppm
Fe	Iron	48 ppm
B	Boron	3 ppm

¹ ppm = mg/kg

Payment Details

Receipt: 17083
Amount: \$47.00
Method: 2303
Payment Date: 5/9/2023