



Forage Analysis Report

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County: Hancock

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SampleID MAY1STCUT Type Hay

Lab ID# 111973 **Species** Mixed Grasses

Reported 5/26/2022 **Clover** No

NII	RS - Near-Infared	Spectroscopy Analysis*	
Moisture - as received	12 %	Carbohydrates	
Dry Matter (DM) - as received	88 %	Acid Detergent Fiber (ADF)	33.49 %
Ash	3.20 %	Neutral Detergent Fiber (NDF)	62.89 %
Crude Protein (CP)	12.74 %	Lignin	4.41 %
Lysine	0.44 %	In-vitro True DM Digestibility 48H (IVTDMD48h)	72.62 %
Fat	2.06 %	Fructan	2.26 %
Relative Forage Quality (RFQ)	98	Starch	2.78 %
Ensiled pH - Wet Chemistry		Sugar (ESC)	8.31 %
Calculated Energy Values		Water Soluble Carbohydrates (WSC)	9.28 %
Digestible Energy (DE)	2.22 MCal/kg	Non-Structural Carbohydrates (NSC)	12.06 %
Total Digestible Nutrients (TDN)	63.53 %	Non-Fiber Carbohydrates (NFC)	19.11 %
Net Energy Maintenance (NE _m)	0.65 MCal/lb	Minerals and Nitrate - Wet C	hemistry
Net Energy Gain (NE _g)	0.38 MCal/lb	Calcium (Ca)	0.49 %
Net Energy Lacatation (NE _I)	0.65 MCal/lb	Phosphorus (P)	0.33 %
Minerals - NIRS		Magnesium (Mg)	0.39 %
Calcium (Ca)	%	Potassium (K)	1.20 %
Phosphorus (P)	%	Sulfur (S)	0.15 %
Magnesium (Mg)	%	Copper (Cu)	4 pp
Potassium (K)	%	Zinc (Zn)	20 pp
	, , ,	Manganese (Mn)	193 рр
		Iron (Fe)	72 pp
		Boron (B)	4 pp
		Nitrate (NO ₃)	0 pp

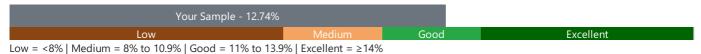
*All values reported on a 100% DM Basis, unless otherwise noted.

ppm = mg/kg

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Understanding your 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 the following website for definition information. http://tiny.utk.edu/FA-Definitions

Crude Protein



TDN

Your Sample - 63.53%

Low Mediur Good Excellent

Low = <50% | Medium = 50% to 55% | Good = 55.1% to 59.9% | Excellent = ≥60%