



## Forage Analysis Report

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County : Hancock Email : KSEAL2@UTK.EDU SampleID APRIL1 Type Hay

**Lab ID#** 111051 **Species** Mixed Grasses

**Reported** 5/7/2021 **Clover** No

NII	<b>RS</b> - Near-Infared	Spectroscopy Analysis*	
Moisture - as received	25 %	Carbohydrates	
Dry Matter (DM) - as received	75 %	Acid Detergent Fiber (ADF)	23.95 %
Ash	4.39 %	Neutral Detergent Fiber (NDF)	48.11 %
Crude Protein (CP)	18.94 %	Lignin	2.31 %
Lysine	0.66 %	In-vitro True DM Digestibility 48H (IVTDMD48h)	87.12 %
Fat	2.35 %	Fructan	2.41 %
Relative Forage Quality (RFQ)	149	Starch	2.35 %
Ensiled pH - Wet Chemistry		Sugar (ESC)	13.52 %
Calculated Energy Values		Water Soluble Carbohydrates (WSC)	14.75 %
Digestible Energy (DE)	2.86 MCal/kg	Non-Structural Carbohydrates (NSC)	17.10 %
Total Digestible Nutrients (TDN)	73.53 %	Non-Fiber Carbohydrates (NFC)	26.21 %
Net Energy Maintenance (NE <sub>m</sub> )	0.79 MCal/lb	Minerals and Nitrate - Wet C	hemistry
Net Energy Gain (NE <sub>g</sub> )	0.51 MCal/lb	Calcium (Ca)	0.51 %
Net Energy Lacatation (NE <sub>I</sub> )	0.76 MCal/lb	Phosphorus (P)	0.30 %
Minerals - NIRS		Magnesium (Mg)	0.28 %
Calcium (Ca)	%	Potassium (K)	1.69 %
Phosphorus (P)	%	Sulfur (S)	0.16 %
Magnesium (Mg)	%	Copper (Cu)	5 ppm
Potassium (K)	%	Zinc (Zn)	19 ppm
		Manganese (Mn)	149 ppn
		Iron (Fe)	43 ppm
		Boron (B)	4 ppm
		Nitrate (NO <sub>3</sub> )	117 ppn

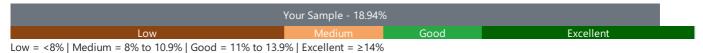
\*All values reported on a 100% DM Basis, unless otherwise noted.

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**



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