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UT EXTENSION
INSTITUTE OF AGRICULTURE
THE UNIVERSITY OF TENNESSEE

Forage Analysis Report

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Thornhill, 37881
County: Hancock
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SampleID: JHC
Lab ID #: 108072
Reported: May 17, 2018

Type Hay
Species Tall Fescue / orchardgrass / timothy

***NIRS** - Near-Infrared Spectroscopy Analysis**

Moisture- *as received*	14	%
Dry Matter (DM)- *as received*	86	%
Ash	3.22	%
Crude Protein (CP)	16.83	%
Relative Forage Quality (RFQ)	130	
Ensiled pH- *Wet Chemistry*	-	

Energy		
Digestible Energy (DE)	2.67	MCal/kg
Total Digestible Nutrients (TDN)	71.25	%
Net Energy Maintenance (NE_m)	0.76	MCal/lb
Net Energy Gain (NE_g)	0.48	MCal/lb
Net Energy Lactation (NE_L)	0.73	MCal/lb

***Minerals** - NIR*		
Calcium (Ca)	-	%
Phosphorus (P)	-	%
Magnesium (Mg)	-	%
Potassium (K)	-	%

***Nitrates** - Wet Chemistry*		
Nitrate (NO_3)	-	ppm

Carbohydrates		
Acid Detergent Fiber (ADF)	26.12	%
Neutral Detergent Fiber (NDF)	53.33	%
Lignin	3.68	%
in-vitro True DM Digestibility 48h (IVTDMD48h)	73.91	%
Fructan	0.63	%
Starch	0.55	%
Sugar (ESC)	13.80	%
Water Soluble Carbohydrates (WSC)	16.60	%
Non-Structural Carbohydrates (NSC)	17.15	%
Non-Fiber Carbohydrates (NFC)	23.81	%

***Minerals** - Wet Chemistry*		
Calcium (Ca)	0.50	%
Phosphorus (P)	0.43	%
Magnesium (Mg)	0.36	%
Potassium (K)	2.04	%
Sulfur (S)	0.23	%
Copper (Cu)	5	ppm
Zinc (Zn)	23	ppm
Manganese (Mn)	110	ppm
Iron (Fe)	73	ppm
Boron (B)	4	ppm

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

ppm = mg/kg

If you have questions about this forage analysis, please contact your local UT Extension office.

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