Soil, Plant & Pest Center

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Forage Analysis Report

David Jones

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Thornhill, TN 37811

County:

Hancock

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SampleID: Lab ID #:

June

108133

Reported:

June 22, 2018

Type

Hay

Species Mixed Grasses

	WINS - Wear-Ingrarea	Specifoscopy Analysis	
Moisture- as received	14 %	Carbohydrates	
Dry Matter (DM)- as received	86 %	Acid Detergent Fiber (ADF)	41.23 %
Ash	5.02 %	Neutral Detergent Fiber (NDF)	71.60 %
Crude Protein (CP)	10.42 %	Lignin	5.60 %
Relative Forage Quality (RFQ)	76	in-vitro True DM Digestibility 48h (IVTDMD48h)	63.74 %
Ensiled pH- Wet Chemistry	-	Fructan	1.90 %
		Starch	0.57 %
Energy		Sugar (ESC)	7.95 %
Digestible Energy (DE)	1.93 MCal/kg	Water Soluble Carbohydrates (WSC)	11.45 %
Total Digestible Nutrients (TDN)	55.42 %	Non-Structural Carbohydrates (NSC)	12.02 %
Net Energy Maintenance (NE _m)	0.53 MCal/lb	Non-Fiber Carbohydrates (NFC)	10.81 %
Net Energy Gain (NE _g)	0.27 MCal/lb		
Net Energy Lactation (NE _L)	0.55 MCal/lb	Minerals - Wet Chemistry	
		Calcium (Ca)	0.38 %
Minerals - NIR		Phosphorus (P)	0.29 %
Calcium (Ca)	0.33 %	Magnesium (Mg)	0.37 %
Phosphorus (P)	0.15 %	Potassium (K)	1.40 %
Magnesium (Mg)	0.20 %	Sulfur (S)	0.17 %
Potassium (K)	1.04 %	Copper (Cu)	3 ppm
		Zinc (Zn)	18 ppm
Nitrates - Wet Chemistry		Manganese (Mn)	168 ppm
Nitrate (NO ₃)	140 ppm	Iron (Fe)	63 ppm
		Boron (B)	3 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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