## Soil, Plant, & Pest Center

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## **Forage Analysis Report**

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County:

Hancock

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SampleID:

July

**Type** Hay

Lab ID #: 108253 **Species Mixed Grasses** 

Reported: July 23, 2018

NIRS - Near-Infrared Spectroscopy Analysis*			
Moisture- as received	10 %	Carbohydrates	
Dry Matter (DM)- as received	90 %	Acid Detergent Fiber (ADF)	33.33 %
Ash	5.32 %	Neutral Detergent Fiber (NDF)	61.32 %
Crude Protein (CP)	14.63 %	Lignin	4.33 %
Relative Forage Quality (RFQ)	101	in-vitro True DM Digestibility 48h (IVTDMD48h)	72.85 %
Ensiled pH- Wet Chemistry	-	Fructan	1.25 %
		Starch	0.98 %
Energy		Sugar (ESC)	9.94 %
Digestible Energy (DE)	2.23 MCal/kg	Water Soluble Carbohydrates (WSC)	13.07 %
Total Digestible Nutrients (TDN)	63.70 %	Non-Structural Carbohydrates (NSC)	14.05 %
Net Energy Maintenance (NE <sub>m</sub> )	0.65 MCal/lb	Non-Fiber Carbohydrates (NFC)	17.63 %
Net Energy Gain (NE <sub>g</sub> )	0.38 MCal/lb		
Net Energy Lactation (NE <sub>L</sub> )	0.65 MCal/lb	<b>Minerals</b> - Wet Chemistry	
		Calcium (Ca)	coming %
<b>Minerals</b> - NIR		Phosphorus (P)	coming %
Calcium (Ca)	0.46 %	Magnesium (Mg)	coming %
Phosphorus (P)	0.17 %	Potassium (K)	coming %
Magnesium (Mg)	0.24 %	Sulfur (S)	coming %
Potassium (K)	1.37 %	Copper (Cu)	coming ppm
		Zinc (Zn)	coming ppm
Nitrates - Wet Chemistry		Manganese (Mn)	coming ppm
Nitrate (NO <sub>3</sub> )	77 ppm	Iron (Fe)	coming ppm
		Boron (B)	coming ppm

<sup>\*</sup>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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