

## Forage Analysis Report

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**SampleID:** 2nd cutting sept  
**Lab ID #:** 108483  
**Reported:** September 26, 2018

**Type:** Hay  
**Species:** Mixed Grasses  
**Clover:** No

### NIRS - Near-Infrared Spectroscopy Analysis\*

Moisture- <i>as received</i>	14 %
Dry Matter (DM)- <i>as received</i>	86 %
Ash	5.43 %
Crude Protein (CP)	11.14 %
Relative Forage Quality (RFQ)	80
Ensiled pH- <i>Wet Chemistry</i>	-

#### Energy

Digestible Energy (DE)	1.98 MCal/kg
Total Digestible Nutrients (TDN)	56.57 %
Net Energy Maintenance (NE <sub>m</sub> )	0.54 MCal/lb
Net Energy Gain (NE <sub>g</sub> )	0.29 MCal/lb
Net Energy Lactation (NE <sub>L</sub> )	0.57 MCal/lb

#### Minerals - NIR

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

#### Nitrates - Wet Chemistry

Nitrate (NO <sub>3</sub> )	<1,000 ppm
<i>Generally safe nitrate level is &lt; 4,400</i>	

Carbohydrates	
Acid Detergent Fiber (ADF)	40.13 %
Neutral Detergent Fiber (NDF)	69.40 %
Lignin	5.83 %
<i>in-vitro</i> True DM Digestibility 48h (IVTDMD48h)	60.65 %
Fructan	1.35 %
Starch	0.62 %
Sugar (ESC)	4.75 %
Water Soluble Carbohydrates (WSC)	7.24 %
Non-Structural Carbohydrates (NSC)	7.86 %
Non-Fiber Carbohydrates (NFC)	11.85 %

#### Minerals - Wet Chemistry

Calcium (Ca)	0.46 %
Phosphorus (P)	0.32 %
Magnesium (Mg)	0.32 %
Potassium (K)	1.53 %
Sulfur (S)	0.22 %
Copper (Cu)	<20 ppm
Zinc (Zn)	19 ppm
Manganese (Mn)	57 ppm
Iron (Fe)	62 ppm
Boron (B)	3 ppm

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

ppm = mg/kg

" < " means less than

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

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