



Soil, Plant & Pest Center

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Forage Analysis Report



County : Rutherford

Email [REDACTED]

SampleID	BERMUDA II	Type	Hay
Lab ID#	109535	Species	Bermudagrass
Reported	9/19/2019	Clover	No

NIRS - Near-Infrared Spectroscopy Analysis*

Moisture - <i>as received</i>	19 %
Dry Matter (DM) - <i>as received</i>	81 %
Ash	8.55 %
Crude Protein (CP)	16.40 %
Lysine	0.57 %
Fat	2.03 %
Relative Forage Quality (RFQ)	108
Ensiled pH - <i>Wet Chemistry</i>	

Calculated Energy Values

Digestible Energy (DE)	2.49 MCal/kg
Total Digestible Nutrients (TDN)	67.69 %
Net Energy Maintenance (NE _m)	0.71 MCal/lb
Net Energy Gain (NE _g)	0.44 MCal/lb
Net Energy Lactation (NE _l)	0.69 MCal/lb

Minerals - NIRS

Calcium (Ca)	0.37 %
Phosphorus (P)	0.25 %
Magnesium (Mg)	0.38 %
Potassium (K)	2.21 %

Carbohydrates

Acid Detergent Fiber (ADF)	29.52 %
Neutral Detergent Fiber (NDF)	60.97 %
Lignin	3.87 %
<i>In-vitro</i> True DM Digestibility 48H (IVTDM48h)	75.59 %
Fructan	1.44 %
Starch	1.72 %
Sugar (ESC)	8.91 %
Water Soluble Carbohydrates (WSC)	9.62 %
Non-Structural Carbohydrates (NSC)	11.34 %
Non-Fiber Carbohydrates (NFC)	12.05 %

Minerals and Nitrate - Wet Chemistry

Calcium (Ca)	%
Phosphorus (P)	%
Magnesium (Mg)	%
Potassium (K)	%
Sulfur (S)	%
Copper (Cu)	ppm
Zinc (Zn)	ppm
Manganese (Mn)	ppm
Iron (Fe)	ppm
Boron (B)	ppm
Nitrate (NO ₃)	ppm

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

ppm = mg/kg

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