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 Thornhill, TN 37881

DATE: September 13, 2013  
 COUNTY: Hancock

### FORAGE AND FEED TEST RESULTS

Sample #	Fall					
Lab Number	98043					
Sample Type	Orchardgrass, Timothy, Bermudagrass					
Moisture (%)	11.71					
Dry Matter (%)	88.29					
	DM BASIS	AS-FED BASIS	DM BASIS	AS-FED BASIS	DM BASIS	AS-FED BASIS
Protein (%)	12.68	11.20				
Fat (%)	2.09	1.85				
Fiber-ADF (%)	40.11	35.41				
Fiber-NDF (%)	70.11	61.90				
Calcium (%)	0.38	0.34				
Phosphorus (%)	0.31	0.27				
Magnesium (%)	0.27	0.24				
Potassium (%)	2.23	1.97				
Sulfur (%)	0.26	0.23				
Manganese (ppm)	116	102				
Copper (ppm)	7	6				
Zinc (ppm)	23	20				
TDN	57	50				
NE <sub>m</sub> (MCal/lb)	0.55	0.49				
NE <sub>g</sub> (MCal/lb)	0.29	0.26				
RFV	76					
Nitrates (ppm)		180				
Digestible Energy (Mcal/kg)		2.10				

***Cattle Feeding Guidelines for forages with nitrates present***

Nitrate Level (ppm)	Comments and recommendations based on dry matter intake
0 – 4400	Generally safe to feed.
4400 – 6600	Safe for non-pregnant animals. Limit to 50% of diet for pregnant animals.
6600 – 8800	Limit to 50% of diet.
8800 – 10,540	Limit to 35 – 40% of diet. Avoid feeding to pregnant animals.
10,540 – 17,600	Limit to 25% of diet. Avoid feeding to pregnant animals.
Over 17,600	Do not feed.

Fed at 2% body weight, this hay is sufficient in protein and energy for horses being maintained or exercised lightly. All other classes will require supplementation with a good quality feed to supply protein and energy.

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For more information, please visit us on the web at <http://soilplantandpest.utk.edu>. If you have any questions with regard to the above information, contact your local Extension Agent.