

# Forage Test Results

## -2008 Crop-



**HORSTMEYER FARM & GARDEN**  
**SANFORD, FLORIDA**

# Why Forage Test?



- Establishes quality standards for HFG growers/suppliers.
- Assists HFG staff to recommend proper forage purchases.
- Educates and informs HFG customers on:
  - Value of hay products
  - Correct/best selection of hay for their horses
  - Overall better buying criteria
- Improves overall value and quality from the hay field to the customers stable.



# Test Definitions

- **Relative Feed Quality (RFQ)** The overall indicator of the nutritional value of the hay.
- **Total Digestible Nutrients (TDN)** - This is a measure of the total digestible nutrients in the hay or its energy value. (What stays in the horse for nutrients.)
- **Crude Protein (CP)** – This is a measure of the protein concentration of the hay. Similar to the qualities in the feed you buy, i.e. Triumph 10 has 10% crude protein.



# Test Definitions

- **Neutral Detergent Fiber (NDF)** – This is a measure of the plant's cell wall content, shown as a percent. The higher this is, the less the horse will eat of the hay.
- **Acid Detergent Fiber (ADF)** – This is a measure of the fiber concentration of the hay, shown as a percent. As ADF increases, digestibility and nutrient availability decrease.

# Forage Test Results From Lab



Feed and Environmental Water Laboratory  
2300 College Station Road  
Athens, Georgia 30602-4356  
Web site: <http://aee1.ces.uga.edu>

## Feed and Forage Analysis Report

(CECOSA Signature)

Client Information	Lab Information	County Information			
D 3 T S A	Lab #3765 Completed: Nov 14, 2008 Printed: Nov 19, 2008	uth  lu			
Crop: ALFALFA Use: Hay Species: HORSES Class/Weight: OTHER		Variety: Relative Forage Quality (RFQ): 113.7 Ration Formulation: No			
<b>Near Infrared Reflectance (NIR) Analysis</b>					
	As-Sampled	Dry-Matter			
Crude Protein	10.3 %	11.5 %			
Crude Fiber (Estimated)	30.0 %	33.4 %			
Neutral Detergent Fiber	51.5 %	57.3 %			
Acid Detergent Fiber	32.09 %	35.70 %			
Lignin	5.12 %	5.70 %			
Total Digestible Nutrients	32.2 %	35.8 %			
Digestible Energy	547 KC/LB	609 KC/LB			
Moisture	10.1 %	0 %			
Dry Matter	89.9 %	100 %			
<b>Mineral Analysis</b> (by wet chemistry)		<b>Other Analyses</b>			
	As-Sampled	Dry-Matter		As-Sampled	Dry-Matter
Phosphorus	%	%	Total Fat	%	%
Potassium	%	%	Nitrates	121 PPM	135 PPM
Calcium	%	%	Ash	%	%
Magnesium	%	%	Sulfur	%	%
Manganese	PPM	PPM	Arsenic	PPM	PPM
Iron	PPM	PPM	Selenium	PPM	PPM
Aluminum	PPM	PPM	Bound Protein (NIR)	%	%
Copper	PPM	PPM	pH		
Zinc	PPM	PPM	Total Aflatoxin	ppb	
Sodium	PPM	PPM			
Calcium:Phosphorus Ratio					

### Learning for Life

The University of Georgia and Fort Valley State University, the U.S. Department of Agriculture and counties of the state cooperating.  
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