

# Forage Submission Form

2020

**Customer Information**

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

County: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Paid: \$ _____	Date: _____
Cash	Billed to: <u>Williamson County</u>
Check #: _____	CC Approval #: _____
(Office) Receipt #: _____	

Sample Name	Hay, Silage, or Haylage	Species Codes- See below	Clovers* Yes or No	NIRS \$20.00	Minerals \$20.00	Nitrates \$10.00	Ensiled pH \$10.00	Lab ID #- Office use only

NIR + Minerals = \$40

**Species Codes- If not listed, please write in**

- |                           |                                      |
|---------------------------|--------------------------------------|
| <b>TF</b> Tall Fescue     | <b>SG</b> Small Grains               |
| <b>OG</b> Orchardgrass    | <b>WA</b> Warm-Season Annuals        |
| <b>BG</b> Bermudagrass    | <b>LG</b> Other Legumes              |
| <b>AR</b> Annual Ryegrass | <b>MG</b> Mixed Grasses              |
| <b>AL</b> Alfalfa         | <b>NG</b> Native Warm-Season Grasses |
| <b>CO</b> Corn            |                                      |

*\*Confirm if you have clovers in your forage sample*

AG.TENNESSEE.EDU

The University of Tennessee Institute of Agriculture collects and summarizes forage sample data for research and extension education purposes. By submitting you, or your agent agree to this action.

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status.

# Forage Analysis Packages

For more information on how to use the Forage Submission Form, or how to submit a forage sample, please contact your local UT Extension office.

## NIRS- Near-Infrared Spectroscopy Analysis\*

**\$20**

Moisture- <i>as received</i>	Acid Detergent Fiber	(ADF)
Dry Matter (DM)- <i>as received</i>	Neutral Detergent Fiber	(NDF)
Ash	Lignin	
Crude Protein (CP)	<i>in-vitro</i> True DM Digestibility 48h	(IVTDMD48h)
Relative Forage Quality (RFQ)	Lysine	
Digestible Energy (DE)	Fructan	
Total Digestible Nutrients (TDN)	Starch	
Net-Energy for Maintenance (NE <sub>m</sub> )	Sugar	(ESC)
Net-Energy for Gain (NE <sub>g</sub> )	Water-Soluble Carbohydrates	(WSC)
Net Energy for Lactation (NE <sub>l</sub> )	Non-Structural Carbohydrates	(NSC)
Calcium (Ca)	Non-Fiber Carbohydrates	(NFC)
Phosphorus (P)		
Magnesium (Mg)		
Potassium (K)		

## Minerals- Wet Chemistry

**\$20**

Calcium	(Ca)
Phosphorus	(P)
Magnesium	(Mg)
Potassium	(K)
Sulfur	(S)
Copper	(Cu)
Zinc	(Zn)
Manganese	(Mn)
Iron	(Fe)
Boron	(B)

## Nitrates- Wet Chemistry

**\$10**

## Ensiled pH- Wet Chemistry

**\$7**

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

# Instructions for Submitting Forage Samples

*For best results follow the sampling suggestions below.*

## Sample Size

- At least 1/2 gallon of sample should be sent for an adequate forage test. Plastic bags with zipper closures work great for this use.

## Sampling Technique

- **Hay** - Obtain samples from approximately 10 bales. Best samples are obtained using a core sampling probe. Check with your local UT Extension office about the availability of these samplers. For square bales, take one core from one end of each bale. For round bales, take a sample from each side of the bales. If grab samples are taken, be sure to obtain a representative sample as this method may not provide reliable results.
- **Silage or Haylage** - If haylage is in round bales, follow the same procedures as for round baled hay. If ensiled forage is chopped, then obtain 2-3 gallons of material from 5 to 15 places in the silo. For upright silos, run unloader and collect one sample per minute for several minutes. In both situations, mix all the collected material together, then fill 1/2 gallon sample bag with this mixture. Be sure to seal bag to ensure correct “*as received*” moisture determination.

## Sample Identification

- Use a permanent marker to write *Sample Name* on the bag. If more than one sample is being sent in, each will need a **unique** *Sample Name* on the *Forage Submission Form*.
- Verify that *Sample Name* is the same on sample bag and *Forage Submission Form*.
- To avoid delay in receiving your forage analysis results please print all information legibly, or use the fillable form provided.

## Payment Information

Exact Cash **or** Make checks payable to Williamson County Extension

## Results

- Forage analysis results will be delivered using the email address given on the *Forage Submission Form*.