

Forage Submission Form

2026

Print clearly, so you will receive the results

Name: _____

Company (if needed) _____

Address: _____

City: _____ State: _____ Zip: _____

County (sample is from): _____

Phone: _____ - _____ - _____

Email: _____

Write your name and sample name
on the sample bag as well.

Provide, **at least** 1/2 gallon of
material. Too little and we will
have to ask for more.

Total: \$ _____ Date : _____

Cash or CC in person Receipt#: _____

Check # _____ Payable to 'University of Tennessee'

Or pay online at: SoilLab.Tennessee.edu

Online order #: _____

DASH department name and string (at least to dept #)
For UT System transfer only

NIRS + Minerals = \$37

Sample Name	Forage Type	Species Codes	Clovers in sample?	NIRS	Minerals	Nitrates	Ensiled pH	Lab ID #
(You give this)	Hay, Silage, or Haylage	See below	Yes or No	\$17.00	\$20.00	\$10.00	\$7.00	(We give this)
							pH is for haylage and silage only	

Species Codes- If not listed, please write in

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

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

Video on forage sampling can be found at:
SoilLab.Tennessee.edu/forage-analysis or
use the QR link to the right.



AG.TENNESSEE.EDU

Forage 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*

\$17

Water Content	as received	Digestibility	100% DM basis
Dry Matter	DM	<i>in-vitro</i> True DM Digestibility 48h	IVTDM48h
Moisture	Moisture	Neutral Detergent Fiber Digestibility 48h	NDFD48h
Protein	100% DM basis	Fat	100% DM basis
Crude Protein	CP	Fat	Fat
Acid Detergent Insoluble Crude	ADICP	Minerals	100% DM basis
Neutral Detergent Insoluble Crude Protein	NDICP	Ash	Ash
Insoluble Crude Protein	InsolCP	Calcium	Ca
Lysine	Lysine	Phosphorus	P
Fiber	100% DM basis	Magnesium	Mg
Acid Detergent Fiber	ADF	Potassium	K
Neutral Detergent Fiber	NDF	Energy Calculations	100% DM basis
Lignin	Lignin	Total Digestible Nutrients	TDN
Carbohydrates	100% DM basis	Digestible Energy	DE
Sugar	ESC	Net-Energy for Maintenance	NE _M
Fructan	Fructan	Net-Energy for Gain	NE _G
Starch	Starch	Net Energy for Lactation	NE _L
Water-Soluble Carbohydrates	WSC	Calculated Parameters	Scale
Non-Structural Carbohydrates	NSC	Relative Forage Quality - <i>Scale</i>	RFQ
Non-Fiber Carbohydrates	NFC	Relative Feed Value - <i>Scale</i>	RFV

Minerals - Wet Chemistry

\$20

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

Nitrates - Wet Chemistry

\$10

pH, Ensiled - Wet Chemistry

\$7

Sampling

- **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 across layers towards center of the bales. If grab samples are taken, be sure to obtain a representative sample as this method may not provide reliable results.
- **Haylage, Baleage, or Corn Silage** - If haylage is in round bales, follow the same procedures as for round baled hay. If ensiled forage/corn silage 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.

Shipping

- If samples are wet, please make sure the *Forage Submission Form* and payment are outside of the sample bag, but still easily found in the shipping box.

Mailing Address: Soil, Plant and Pest Center
5201 Marchant Drive
Nashville, TN 37211