

Soil, Plant & Pest Center
 5201 Marchant Dr. | Nashville, TN 37211
 615.832.5850 | soillab@tennessee.edu
soillab.tennessee.edu

Forage Submission Form

2023



Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 County (sample is from): _____
 Phone: _____
 Email: _____

Amount: \$ _____ Date: ____/____/____
 Cash _____ Receipt#: _____
 Check#: _____ CC approval#: _____
 Online order#: _____ Billed to: _____

Payment can be made on our website: SoilLab.Tennessee.edu

Make check to 'University of Tennessee'

Do not send cash in mail

Print Clearly

Send at least 1/2-gallon, or more, of sample

Write sample name and YOUR NAME on every sample bag

NIRS + Minerals = \$37

Sample Name <i>(You give this)</i>	Hay, Silage, or Haylage	Species Codes <i>See below</i>	Clovers* <i>Yes or No</i>	NIRS \$17.00	Minerals \$20.00	Nitrates \$10.00	Ensiled pH \$7.00	Lab ID # <i>(We give this)</i>

Species Codes- If not listed, please write in

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

**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 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	<i>as received</i>
Dry Matter	DM
Moisture	Moisture
Protein	<i>100% DM basis</i>
Crude Protein	CP
Acid Detergent Insoluble Crude	ADICP
Neutral Detergent Insoluble Crude Protein	NDICP
Insoluble Crude Protein	InsolCP
Lysine	Lysine
Fiber	<i>100% DM basis</i>
Acid Detergent Fiber	ADF
Neutral Detergent Fiber	NDF
Lignin	Lignin
Carbohydrates	<i>100% DM basis</i>
Sugar	ESC
Fructan	Fructan
Starch	Starch
Water-Soluble Carbohydrates	WSC
Non-Structural Carbohydrates	NSC
Non-Fiber Carbohydrates	NFC

Digestibility	<i>100% DM basis</i>
<i>in-vitro</i> True DM Digestibility 48h	IVTDM48h
Neutral Detergent Fiber Digestibility 48h	NDFD48h
Fat	<i>100% DM basis</i>
Fat	Fat
Minerals	<i>100% DM basis</i>
Ash	Ash
Calcium	Ca
Phosphorus	P
Magnesium	Mg
Potassium	K
Energy Calculations	<i>100% DM basis</i>
Total Digestible Nutrients	TDN
Digestible Energy	DE
Net-Energy for Maintenance	NE _M
Net-Energy for Gain	NE _G
Net Energy for Lactation	NE _L
Calculated Parameters	<i>Scale</i>
Relative Forage Quality - <i>Scale</i>	RFQ
Relative Feed Value - <i>Scale</i>	RFV

Minerals - Wet Chemistry

\$20

Minerals	<i>as received</i>
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 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.

Shipping

- If samples are wet, please make sure the *Forage Submission Form* and payment are outside of the sample bag.
- Mailing Address: Soil, Plant and Pest Center
5201 Marchant Drive
Nashville, TN 37211

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