

Forage and Manure Analysis Laboratories

Below is a list of university forage laboratories where forage producers can send samples for analysis. For a detailed list of other commercial laboratories across the United States that are certified by the National Forage Testing Association (NFTA), please visit <http://bit.ly/NFTALabs>.

Name	Address	Method	Basic Analysis	Additional Analysis	Form
Soil & Forage Testing Lab Auburn University	ALFA Agricultural Services & Research Building 961 S. Donahue Drive Auburn University, AL 36849-5411 (334) 844-3958 http://bit.ly/AuburnForagelab <i>(8-10 business days turnaround time)²</i>	NIR ¹ , wet chemistry	DM, NDF, ADF, CP, lignin, TDN, RFQ (\$15) feed analysis (DM, ADF, TDN, CP) (\$20) manure package (Ca, Mg, K, P, Cu, Fe, Mn, Zn, B, Al), N, C, ash, moisture (\$25)	basic + nitrate (\$21) basic + nitrate + minerals (\$41) feed analysis plus (DM, NDF, ADF, TDN, CP, fat, mineral package) (\$40)	Hay & Forage Testing Feed Analysis Poultry Litter Analysis
Soil, Water, and Forage Analytical Laboratory Oklahoma State University	045 Agriculture Hall Stillwater, OK 74078 (405) 744-7771 http://bit.ly/OSUForagelab <i>(3-5 business days turnaround time)</i>	NIR, wet chemistry, combustion	basic (protein and moisture) (\$8) basic + energy (CP, moisture, ADF, TDN, NEg, NEI, NEm) (\$14) basic + energy + RFV [CP, moisture, ADF, NDF, TDN and energy, RFV (alfalfa only)] (\$20)	nitrate and moisture (\$6) minerals (Ca, P, Na, Mg, K, S, Mn, Cu, Fe, Zn, moisture) (\$12) <i>feed analysis</i> protein or total nitrogen and moisture (\$8) minerals (Ca, P, Na, Mg, K, S, Mn, Cu, Fe, Zn, moisture) (\$12)	
SFASU Soil, Plant, and Water Analysis Laboratory Stephen F. Austin State University	1924 Wilson Drive Agriculture Bldg. Rm 122 Nacogdoches, TX 75962 (936) 468-4500 http://bit.ly/SFASUForagelab <i>(5-15 business days turnaround time)</i>	wet chemistry NIR	regular (moisture content, CP, ADF, TDN) (\$12) complete (regular analysis plus Ca, P, K, Mg, Na, S, Fe, Mn, Zn, Cu) (\$19) NIR (moisture, CP, ADF, NDF, TDN, IVTD, RFV) (\$10)	nitrate (\$5) manure analysis (pH, EC, moisture, TN, C, S, P, K, Ca, Mg, Na, Cu, Zn, Fe, Mn) (\$20)	Forage and Feed Sample Form Manure Sample Form



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EXTENSION

Name	Address	Method	Basic Analysis	Additional Analysis	Form
Soil, Water, and Forage Testing Laboratory Texas A&M AgriLife Extension Service	2610 F&B Road College Station, TX 77845 (979) 845-4816 http://bit.ly/TAMUForagelab (5-10 business days turnaround time)	wet chemistry NIR	CP (\$5) CP+ minerals (P, K, Ca, Mg, Na, S, Fe Cu, Mn, Zn, B) (\$18) CP, ADF, TDN, energy (\$12) CP + minerals + ADF (\$25) CP, fiber, TDN, IVTD (\$10)	nitrate (\$5) CP + ADF + nitrates (\$17) CP + nitrates (\$10) N + minerals (P, K, Ca, Mg, Na, S, Fe Cu, Mn, B) (\$18) total N (\$5) manure (N, P, K, Ca, Mg, Na, Fe, Cu, Zn, Mn, % moisture) (\$20)	Forage Submission Form Manure Sample Form
Feed and Environmental Water Lab (FEW) University of Georgia	2300 College Station Road Athens, GA 30602-4356 (706) 542-7690 http://bit.ly/UGAForagelab (1-2 business days turnaround time)	NIR (hay & silage) wet chemistry (hay & silage)	routine (moisture, NDF, ADF, crude fiber, CP, lignin, TDN, RFQ) (\$12) routine + nitrate (moisture, NDF, ADF, crude fiber, CP, lignin, nitrate, TDN, RFQ) (\$15) routine (moisture, NDF, crude fiber, CP, TDN) (\$28) routine + nitrate (moisture, NDF, crude fiber, CP, nitrate, TDN) (\$31)	routine + nitrate + minerals (moisture, NDF, ADF, crude fiber, CP, lignin, nitrate, TDN, RFQ, 10 minerals) (\$32) routine + nitrate + minerals (moisture, NDF, crude fiber, CP, nitrate, TDN, 10 minerals) (\$48) manure (N, P, K, Ca, Mg, Na, Fe, Al, B, Cu, Zn, Mn, % moisture) (\$20)	Submission forms: Beef & Dairy Sheep & Goat Horses Manure Sample Form
Soil, Plant, and Pest Center University of Tennessee	5201 Marchant Drive Nashville, TN 37211-5112 (615) 832-5850 http://bit.ly/UTForagelab (10-14 business days turnaround time)	NIR	Beef Cattle basic (moisture, DM, RFQ, CP, TDN, NEm, NEg, ADF, NDF, Lignin, Ash, Ca, P, Mg, K) (\$17) Horse basic (moisture, DM, RFQ, CP, DE, ADF, NDF, lignin, ash, Ca, P, Mg, K) (\$17) Small Ruminant basic (moisture, DM, RFQ, CP, TDN, NEm, NEg, ADF, NDF, lignin, ash, Ca, P, Mg, K) (\$17) Dairy basic (moisture, DM, RFQ, CP, NEL, NEm, IVTDMD48h, ADF, NDF, WSC, NFC, lignin, sugar, fructan, ash, Ca, P, Mg, K) (\$17)	Beef Cattle basic + Cu + Zn + Mn + S (\$30) basic + nitrates (\$20) Horse professional (basic + sugar, fructan, starch, NSC, WSC, Zn, Cu, Mn) (\$30) Small Ruminant basic + Cu, Zn, Mn, S (\$30) basic + nitrates (\$20) Dairy basic + Cu, Zn, Mn, S (\$30) basic + nitrates (\$20) nitrates (beef, small ruminant, dairy) (\$10)	Submission Form

Name	Address	Method	Basic Analysis	Additional Analysis	Form
MS State Chemical Lab	310 President's Circle 1145 Hand Lab Mississippi State, MS 39762 (662) 325-3428 http://bit.ly/MSChemlab (30 business days turnaround time)		moisture, CP, fiber (\$30) moisture, CP, fiber, fat, ash (\$50) fiber, ADF (\$30), NDF (\$25), crude (\$30), lignin (\$25)	Ca and P (\$50) TDN (\$50)	Submission Form

¹**NIR** = Near Infrared

²**Turnaround** times are based on when the sample is actually received and not the time when the sample was shipped. Most of the labs will send results via email.

Nutritive Value: DM = Dry Matter; CP = Crude Protein; ADF = Acid Detergent Fiber; NDF = Neutral Detergent Fiber; TDN = Total Digestible Nutrients; CF = Crude Fiber; NEL = Net Energy of Lactation; NEg = Net Energy of Gain; NEm = Net Energy of Maintenance, RFV = Relative Feed Value; RFQ = Relative Forage Quality; IVTD = In vitro True Digestibility; DE = Digestible Energy; IVTDM48h = In vitro True Dry Matter Digestibility at 48 hours; WSC = Water Soluble Carbohydrates; NFC = Nonfibrous Carbohydrates.

Minerals: N (nitrogen), Ca (calcium), P (phosphorous), K (potassium), Mg (magnesium), Mn (manganese), Na (sodium), S (sulfur), Cu (copper), Fe (iron), Zn (zinc), B (boron), Al (Aluminum), NO₃ (nitrate).

Note: Prices are per sample and are subject to change. Please check the laboratory website for updated pricing information.

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