Soil, Plant & Pest Center

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Forage Analysis Report

DAVID JONES 1056 HWY 131 THORN HILL, TN 37881 County: Hancock Email: DKPEARSON444@GMAIL.COM Sample ID: MAY 2ND 1ST CUT

Lab Number: 114307 Reported: 5/17/2024

Type: Hay

Species: Mixed Grasses

Near-Infared Spectroscopy Analysis (NIRS)¹

	as receiv 86 14 100% DM I	%
	14	%
	100% DM	basis
	16.34	%
Insoluble CP	0.89	%
nt Insoluble CP	2.94	%
Protein	9.81	%
	0.57	%
	100% DM	basis
Fiber	28.17	%
ent Fiber	58.21	%
	3.47	%
Carbohydrates		basis
	9.83	%
	1.94	%
	1.84	%
arbohydrates	11.21	%
Carbohydrates	13.05	%
ohydrates	20.20	%
	100% DM	basis
Digestibility 48h	78.40	%
ent Fiber Digestibility 48h	64.00	%
	Insoluble CP ent Insoluble CP Protein Fiber ent Fiber Carbohydrates Chydrates Chydrates Chydrates Chydrates Chydrates Chydrates Chydrates Chydrates	Insoluble CP 0.89 ent Insoluble CP 2.94 Protein 9.81 0.57 100% DM 1 Fiber 28.17 ent Fiber 58.21 3.47 100% DM 1 9.83 1.94 1.84 Carbohydrates 11.21 Carbohydrates 13.05 chydrates 20.20 100% DM 1

¹ All nutritive analyses at 100% Dry Matter (DM) basis unless otherwise noted. Not all constituents are available for each forage type submitted to the Soil, Plant and Pest Center. Forage analysis calibrations provided by the NIRS Forage and Feed Consortium.

ору Апа	ilysis (NIK3)	
Fat		100% DM basis
Fat	Fat	2.83 %
Minerals		100% DM basis
Ash	Ash	2.42 %
Ca	Calcium	%
Р	Phosphorus	%
Mg	Magnesium	%
K	Potassium	%
Energy	Calculations	100% DM basis
TDN	Total Digestible Nutrients	69.10 %
DE	Digestible Energy	1.95 MCal/kg
NE _m	Net Energy Maintenance	0.73 MCal/lb
NE_g	Net Energy Gain	0.46 MCal/lb
NEı	Net Energy Lacatation	0.71 MCal/lb
Compo	nents	Wet Chemistry
рН	Ensiled	рН
NO ₃	Nitrates	0 ppm²
Calcula	ted Parameters ³	Scale
RFQ	Relative Forage Quality	116
RFV	Relative Feed Value	0

 $^{^2} ppm = mg/kg$

³ Relative Forage Quality (RFQ) is reported for all grass, mixed, legume hays and haylages; and, Relative Feed Value (RFV) is reported for Alfalfa only. No nutritive value scale is available for corn silage

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Understanding Hay Quality

The graphs below are presented to provide a general guide to evaluate the Crude Protein (CP) and Total Digestible Nutrients (TDN) levels of the forage submitted for testing. If you need help understanding the results or information on developing a balanced ration for a specific animal(s), please contact your local UT Extension agent or visit https://doi.org/10.1007/journal.org/

Crude Protein (CP)

 Your Sample - 16.34%

 Low
 Medium
 Good
 Excellent

 Low = <8% | Medium = 8% to 10.9% | Good = 11% to 13.9% | Excellent = ≥14%</td>
 Excellent

Total Digestible Nutrients (TDN)

Your Sample - 69.10%			
Low	Medium	Good	Excellent

Low = <50% | Medium = 50% to 55% | Good = 55.1% to 59.9% | Excellent = ≥60%

Wet Chemistry					
Minerals		as received			
Ca	Calcium	0.49 %			
Р	Phosphorus	0.35 %			
Mg	Magnesium	0.26 %			
K	Potassium	1.96 %			
S	Sulfur	0.17 %			
Cu	Copper	6 ppm ¹			
Zn	Zinc	20 ppm			
Mn	Manganese	129 ppm			
Fe	Iron	59 ppm			
В	Boron	5 ppm			

Payment	Detail

Receipt: Amount: \$47.00 Method: 2350

Payment Date: 5/10/2024

Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development. University of Tennessee Institute of Agriculture, U.S.

Department of Agriculture and county governments cooperating. UT Extension provides equal opportunities in programs and employment.

 $^{^{1}}$ ppm = mg/kg