

UW Soil & Forage Analysis Laboratory

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 2984 access code: a96j



Legume/Grass Hay Report - Standard

Report Number: 2984 Lab Number: 2955 Sample Description: scissor clip MF4
 Material: Legume or Grass Hay
 Harvest date: 5/20/2009

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	94.36	WC
Moisture		% as fed	5.64	C
Protein Fractions				
Crude Protein	CP	% DM	19.22	NIR
Soluble Crude Protein	SCP	% CP		NA
Rumen-Undegraded Protein	RUP	% CP	46.88	NIR
Rumen-Degraded Protein	RDP	% CP	53.12	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.26	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	4.12	C
Heat Damaged Protein-Estimated		% DM	0.26	C
Adjusted Crude Protein		% DM	19.22	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	27.02	NIR
Neutral Detergent Fiber	aNDF	% DM	45.76	NIR
Lignin, Acid Detergent	ADL	% DM	2.41	NIR
Lignin, Acid Detergent	ADL	% NDF	5.27	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% NDF	75.89	NIR
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	26.34	C
Fat		% DM	3.37	NIR
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	73.46	C
Net Energy, Lactation, 3X	NeI	Mcals/lb	0.76	C
Net Energy, Maintenance	NE _m	Mcals/lb	0.85	C
Net Energy, Gain	NE _g	Mcals/lb	0.56	C
Metabolizable Energy	ME	Mcals/lb	1.28	C
Relative Forage Quality	RFQ		207.73	C
Milk/Ton		lbs	3,827	C

Macro Minerals					Micro Minerals				
Phosphorus	P	0.41	% DM	NIR	Iron	Fe		ppm	NR
Calcium	Ca	0.43	% DM	NIR	Manganese	Mn		ppm	NR
Potassium	K	3.25	% DM	NIR	Zinc	Zn		ppm	NR
Magnesium	Mg	0.22	% DM	NIR	Copper	Cu		ppm	NR
Sodium	Na		% DM	NR	Ash		9.43	% DM	NIR
Chloride	Cl		% DM	NR					
Sulfur	S		% DM	NR					

¹ WC = wet chemistry
 NIR = near infrared spectroscopy
 NR = not requested
 NA = not available
 C = calculated
 T = tabular value

Methods used for these analyses can be found at <http://uwlab.soils.wisc.edu/procedures.htm>