

UW Soil & Forage Analysis Laboratory

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 3178 access code: 5pj1



PROUDLY USING
 NIRSC EQUATIONS

Legume/Grass Hay Report - Standard

Report Number: 3178 Lab Number: 3052 Sample Description: *scissors-MF6*
 Material: *Legume or Grass Hay*
 Harvest date: 5/27/2009

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	85.98	WC
Moisture		% as fed	14.02	C
Protein Fractions				
Crude Protein	CP	% DM	13.38	NIR
Soluble Crude Protein	SCP	% CP		NA
Rumen-Undegraded Protein	RUP	% CP	44.37	NIR
Rumen-Degraded Protein	RDP	% CP	55.63	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.44	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	3.26	C
Heat Damaged Protein-Estimated		% DM	0.44	C
Adjusted Crude Protein		% DM	13.38	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	31.49	NIR
Neutral Detergent Fiber	aNDF	% DM	53.25	NIR
Lignin, Acid Detergent	ADL	% DM	3.59	NIR
Lignin, Acid Detergent	ADL	% NDF	6.74	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% NDF	71.82	NIR
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	26.42	C
Fat		% DM	2.82	NIR
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	71.21	C
Net Energy, Lactation, 3X	NeI	Mcals/lb	0.74	C
Net Energy, Maintenance	NE _m	Mcals/lb	0.82	C
Net Energy, Gain	NE _g	Mcals/lb	0.53	C
Metabolizable Energy	ME	Mcals/lb	1.23	C
Relative Forage Quality	RFQ		173.48	C
Milk/Ton		lbs	3,636	C

Macro Minerals

Phosphorus	P	0.35	% DM	NIR
Calcium	Ca	0.30	% DM	NIR
Potassium	K	2.94	% DM	NIR
Magnesium	Mg	0.16	% DM	NIR
Sodium	Na		% DM	NR
Chloride	Cl		% DM	NR
Sulfur	S		% DM	NR

Micro Minerals

Iron	Fe		ppm	NR
Manganese	Mn		ppm	NR
Zinc	Zn		ppm	NR
Copper	Cu		ppm	NR
Ash		7.39	% DM	NIR

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>

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