

UW Soil & Forage Analysis Laboratory

2611 East 29th Street
 Marshfield, WI 54449
 Phone 715-387-2523 Fax 715-387-1723

COOPERATIVE EXTENSION
 University of Wisconsin-Extension
 University of Wisconsin-Madison
 Soils Department, Madison, WI

Iowa County Extension Office -
 222 N Iowa St
 Dodgeville, WI 53533

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 3177 access code: dffu



PROUDLY USING
 NIRSC EQUATIONS

Legume/Grass Hay Report - Standard

Report Number: 3177 Lab Number: 3051 Sample Description: scissor ALF6
 Material: Legume or Grass Hay
 Harvest date: 5/27/2009

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	70.83	WC
Moisture		% as fed	29.17	C
Protein Fractions				
Crude Protein	CP	% DM	24.25	NIR
Soluble Crude Protein	SCP	% CP		NA
Rumen-Undegraded Protein	RUP	% CP	30.63	NIR
Rumen-Degraded Protein	RDP	% CP	69.37	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.65	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	4.53	C
Heat Damaged Protein-Estimated		% DM	0.65	C
Adjusted Crude Protein		% DM	24.25	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	25.73	NIR
Neutral Detergent Fiber	aNDF	% DM	37.03	NIR
Lignin, Acid Detergent	ADL	% DM	5.17	NIR
Lignin, Acid Detergent	ADL	% NDF	13.96	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% NDF	54.95	NIR
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	33.32	C
Fat		% DM	2.72	NIR
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	69.82	C
Net Energy, Lactation, 3X	NeI	Mcal/lb	0.72	C
Net Energy, Maintenance	NE _m	Mcal/lb	0.79	C
Net Energy, Gain	NE _g	Mcal/lb	0.51	C
Metabolizable Energy	ME	Mcal/lb	1.21	C
Relative Forage Quality	RFQ		199.59	C
Milk/Ton		lbs	3,397	C

Macro Minerals

Phosphorus	P	0.38	% DM	NIR
Calcium	Ca	1.36	% DM	NIR
Potassium	K	1.98	% DM	NIR
Magnesium	Mg	0.36	% 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		7.21	% 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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