

UW Soil & Forage Analysis Laboratory

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 2907 access code: myuq



PROUDLY USING
 NIRSC EQUATIONS

Legume/Grass Hay Report - Standard

Report Number: 2907 Lab Number: 2927 Sample Description: Scissor Clip-Alf 3
 Material: Legume or Grass Hay
 Harvest date: 5/17/2009

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	94.21	WC
Moisture		% as fed	5.79	C
Protein Fractions				
Crude Protein	CP	% DM	25.85	NIR
Soluble Crude Protein	SCP	% CP		NA
Rumen-Undegraded Protein	RUP	% CP	31.25	NIR
Rumen-Degraded Protein	RDP	% CP	68.75	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.34	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	3.58	C
Heat Damaged Protein-Estimated		% DM	0.34	C
Adjusted Crude Protein		% DM	25.85	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	17.57	NIR
Neutral Detergent Fiber	aNDF	% DM	26.70	NIR
Lignin, Acid Detergent	ADL	% DM	3.50	NIR
Lignin, Acid Detergent	ADL	% NDF	13.11	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% NDF	70.68	NIR
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	40.47	C
Fat		% DM	2.86	NIR
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	77.10	C
Net Energy, Lactation, 3X	NeI	Mcal/lb	0.80	C
Net Energy, Maintenance	NE _m	Mcal/lb	0.92	C
Net Energy, Gain	NE _g	Mcal/lb	0.62	C
Metabolizable Energy	ME	Mcal/lb	1.35	C
Relative Forage Quality	RFQ		326.32	C
Milk/Ton		lbs	4,050	C

Macro Minerals				
Phosphorus	P	0.39	% DM	NIR
Calcium	Ca	1.20	% DM	NIR
Potassium	K	2.48	% DM	NIR
Magnesium	Mg	0.38	% 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		7.70	% 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>