

UW Soil & Forage Analysis Laboratory

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
lab number: 2801 access code: 65az



PROUDLY USING
NIRSC EQUATIONS

Legume/Mixed Hay Report - Standard

Report Number: 2801 Lab Number: 1821 Sample Description: SC-ALF-5_18_15
Material: Legume or Mixed Hay
Harvest date: 5/18/2015

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	16.25	WC
Moisture		% as fed	83.75	C
Protein Fractions				
Crude Protein	CP	% DM	24.20	NIR
Soluble Crude Protein	SCP	% CP		NA
Rumen-Undegraded Protein	RUP	% CP	26.25	NIR
Rumen-Degraded Protein	RDP	% CP	73.75	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.51	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	4.41	C
Heat Damaged Protein-Estimated		% DM	0.51	C
Adjusted Crude Protein		% DM	24.20	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	28.72	NIR
Neutral Detergent Fiber	aNDF	% DM	36.34	NIR
Lignin, Acid Detergent	ADL	% DM	4.63	NIR
Lignin, Acid Detergent	ADL	% aNDF	12.74	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% aNDF	50.97	NIR
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	32.96	C
Fat		% DM	2.38	NIR
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	67.09	C
Net Energy, Lactation, 3X	NeI	Mcals/lb	0.69	C
Net Energy, Maintenance	NE _m	Mcals/lb	0.74	C
Net Energy, Gain	NE _g	Mcals/lb	0.47	C
Metabolizable Energy	ME	Mcals/lb	1.15	C
Relative Forage Quality	RFQ		189.15	C
Milk/Ton		lbs	3,164	C

Macro Minerals

Phosphorus	P	0.35	% DM	NIR
Calcium	Ca	1.14	% DM	NIR
Potassium	K	2.57	% DM	NIR
Magnesium	Mg	0.31	% 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		8.53	% 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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