

UW Soil & Forage Analysis Laboratory

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COOPERATIVE EXTENSION
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Bucky Badger

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 54321 access code: k75w

Legume/Grass Silage Report - UW Recommended

Report Number: 54321
 Material: Legume or Grass Silage

Sample Description: 1

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	32.50	WC
Moisture		% as fed	67.50	C
Protein Fractions				
Crude Protein	CP	% of DM	16.11	NIR
Soluble Crude Protein	SCP	% of CP	24.43	NIR
Rumen-Undegraded Protein	RUP	% of CP	27.47	NIR
Rumen-Degraded Protein	RDP	% of CP	72.53	C
Acid Detergent Fiber Crude Protein	ADF-CP	% of DM	1.15	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% of DM	6.74	NIR
Heat Damaged Protein-Estimated		% of DM	1.15	C
Adjusted Crude Protein		% of DM	16.11	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% of DM	34.05	NIR
Neutral Detergent Fiber	aNDF	% of DM	47.67	WC
Lignin (Acid Detergent)	ADL	% of DM	3.64	NIR
Lignin (Acid Detergent)	ADL	% of NDF	7.64	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% of NDF	60.25	WC
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% of DM	27.57	C
Fat		% of DM	3.20	T
pH				NA
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% of DM	64.46	C
Net Energy, Lactation, 3X	NeI	Mcals/lb	0.66	C
Net Energy, Maintenance	NE _m	Mcals/lb	0.70	C
Net Energy, Gain	NE _g	Mcals/lb	0.43	C
Metabolizable Energy	ME	Mcals/lb	1.10	C
Relative Forage Quality	RFQ		154.07	C
Milk/Ton		lbs	3,061	C

Macro Minerals

Phosphorus	P	0.20	% of DM	NIR
Calcium	Ca	0.94	% of DM	NIR
Potassium	K	2.25	% of DM	NIR
Magnesium	Mg	0.28	% of DM	NIR
Sodium	Na		% of DM	NR
Chloride	Cl		% of DM	NR
Sulfur	S		% of DM	NR

Micro Minerals

Iron	Fe		ppm	NR
Manganese	Mn		ppm	NR
Zinc	Zn		ppm	NR
Copper	Cu		ppm	NR
Ash		12.19	% of DM	WC

¹ WC = wet chemistry
 NIR = near infrared spectroscopy

NR = not requested
 NA = not available

C = calculated
 T = tabular value