

UW Soil & Forage Analysis Laboratory

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

Bucky Badger
 8452 Mineral Point Road
 Madison, WI 53705

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

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
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Legume/Grass Silage Report - UW Recommended

Report Number: 12345
 Material: Legume or Grass Silage
 Harvest date: 4/7/2007

Sample Description: sample

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	33.75	WC
Moisture		% as fed	66.25	C
Protein Fractions				
Crude Protein	CP	% DM	8.00	NIR
Soluble Crude Protein	SCP	% CP	15.00	NIR
Rumen-Undegraded Protein	RUP	% CP	20.04	NIR
Rumen-Degraded Protein	RDP	% CP	79.96	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.50	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	1.30	NIR
Heat Damaged Protein-Estimated		% DM	0.50	C
Adjusted Crude Protein		% DM	8.00	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	27.00	NIR
Neutral Detergent Fiber, with Na ₂ SO ₃	aNDF	% DM	40.00	WC
Lignin, Acid Detergent	ADL	% DM	2.50	NIR
Lignin, Acid Detergent	ADL	% NDF	6.25	C
Neutral Detergent Fiber Digestibility, 48 h, 1mm	NDFD	% NDF	60.00	WC
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	47.10	C
Fat		% DM	3.20	T
pH				NA
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	74.62	C
Net Energy, Lactation, 3X	NeI	Mcal/lb	0.77	C
Net Energy, Maintenance	NE _m	Mcal/lb	0.87	C
Net Energy, Gain	NE _g	Mcal/lb	0.58	C
Metabolizable Energy	ME	Mcal/lb	1.30	C
Relative Forage Quality	RFQ		207.21	C
Milk/Ton		lbs	3,787	C

Macro Minerals					Micro Minerals				
Phosphorus	P	0.19	% DM	NIR	Iron	Fe	ppm	NR	
Calcium	Ca	0.25	% DM	NIR	Manganese	Mn	ppm	NR	
Potassium	K	1.23	% DM	NIR	Zinc	Zn	ppm	NR	
Magnesium	Mg	0.15	% DM	NIR	Copper	Cu	ppm	NR	
Sodium	Na		% DM	NR	Ash		3.00	% DM	WC
Chloride	Cl		% DM	NR					
Sulfur	S		% DM	NR					

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>