

A N A L Y S I S R E S U L T S

Legume	As Sampled	Dry Matter	Unit
Moisture	59.6		%
Dry Matter	40.4		%
Crude Protein	7.5	18.5	% DM
Unavailable Protein	0.6	1.5	% DM
Neutral Det. Crude Protein	1.3	3.1	% DM
Adjusted Protein	7.5	18.5	% DM
Soluble Protein		54.3	% CP
Degradable Protein (calc.)		77.1	% CP
TDN	24.9	61.7	% DM
Net Energy Lactation	0.26	0.63	Mcal/lb
Net Energy Maintenance	0.25	0.62	Mcal/lb
Net Energy Gain	0.14	0.36	Mcal/lb
Acid Detergent Fiber	14.3	35.4	% DM
Neutral Detergent Fiber	18.1	44.8	% DM
NDF 24 hr digestibility	16.9	41.9	% NDF
Lignin	3.3	8.1	% DM
Crude Fat	1.4	3.4	% DM
Ash	3.2	8.0	% DM
Starch	1.5	3.7	% DM
Sugar	1.5	3.7	% DM
NFC	11.5	28.5	% DM
Calcium	0.46	1.14	% DM
Phosphorus	0.12	0.29	% DM
Magnesium	0.09	0.23	% DM
Potassium	0.91	2.25	% DM
Sulfur	0.09	0.22	% DM
Sodium	0.008	0.019	% DM
Iron	192	475	PPM
Manganese	31	77	PPM
Zinc	12	29	PPM
Copper	3	8	PPM
Chloride Ion	0.12	0.29	% DM
pH	4.4		
Relative Feed Value (RFV)	127		

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 21340 OLD NATIONAL PIKE
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Sample : 2ND HAYLAGE
 Farm Name : SYCAMORE CREEK DAIRY
 Smpld/Rcvd : 09/18/2006 | 09/20/2006
 Complete : September 22, 2006
 Regression : PA Cutting: 2

Description : 2ND HAYLAGE
 Farm Name : SYCAMORE CREEK DAIRY
 Received : 09/20/2006
 Complete : 09/22/2006

A N A L Y S I S R E S U L T S

NDF Digestibility Special Report

24 hour NDFD.....	41.9	% NDF
% of mean value for feed type		
Lignin.....	8.13	% DM
	18.16	% NDF
Adjusted NEL.....	0.65	Mcal/lb
Lag.....	2.5	Hours
B2/B3 Kd.....	5.34	%/hour
Indigestible NDF (calculated) ..	43.59	% NDF
Relative Feed Quality(RFQ).....		

Notes:

NDFD is reported as a percentage of total NDF. Rate calculations, lag, and calculated indigestible NDF are based on a beta version rate calculator (Feb 2004) created by Dr. Van Amburgh from work published in the 2003 Cornell Nutrition Conference Proceedings. Adjusted NEL is based on utilizing NDFD in calculations for TDN and NEL from the 2001 NRC.

CVAS currently utilizes a 1 mm cyclone mill grind for forages evaluated for NDFD which will yield a higher digestibility than obtained from a Wiley knife mill. For purposes of rate calculations, RFQ, and Milk2000 calculations the NDFD is factored by 0.92 based on research at CVAS and Miner Institute.

CVAS utilizes fluid collected from several early to mid lactation cows consuming a high production TMR of alfalfa haylage, corn silage, and HMSC for each run. Samples are incubated in individual flasks in a traditional Tilley and Terry system utilizing a Van Soest buffer. Samples are run in duplicate and rerun if values do not agree. Blanks, quality control samples, and samples for monitoring lag are included in each run. Results are generally not biased based on quality control samples but quality control sample results outside of acceptable limits may result in a run being discarded.