CUMBERLAND VALLEY ANALYTICAL SERVICES, INC. **September 1, 2006**
PO Box 669 Maugansville, MD 21767 301-790-1980 **Sample No : 6224146**

A L F A L F A A N A L Y S I S R E P O R T

Method		DM Basis	90% DM basis	Range(DM)
Wet Chemistry				
Dry matter	%	88.8		86.1 - 90.6
Moisture	%	11.2		
Crude protein	**% DM**	**22.7**	**20.4**	**19.3 - 23.9**
ADF	**% DM**	**25.3**	**22.8**	**24.5 - 32.5**
NDF	**% DM**	**31.9**	**28.7**	**30.2 - 39.0**
Ca	% DM	1.68	1.51	1.26 - 1.84
P	% DM	0.34	0.31	0.21 - 0.31
Mg	% DM	0.32	0.29	0.23 - 0.41
K	% DM	2.24	2.02	1.80 - 2.90
Na	% DM	0.02	0.02	0.08 - 0.34
S	% DM	0.36	0.33	0.28 - 0.38
Cl	% DM	0.59	0.53	0.50 - 1.20
NIR				
NDF 30 hr digest	% NDF	43.1		38.6 - 46.1
NDF 48 hr digest	% NDF	48.0		40.8 - 50.0
Fat	% DM	3.0	2.7	2.3 - 3.0
Sugar	% DM	7.8	7.0	5.4 - 8.1
Starch	% DM	3.5	3.1	1.4 - 2.5
Ash	% DM	12.6	11.3	9.3 - 13.8
ADF protein	% DM	1.2	1.1	1.0 - 1.6
NDF protein	% DM	2.6	2.4	1.9 - 3.5
Calculated				
Rel feed value (RFV)		**202**		**153 - 214**
Rel feed qual (RFQ)		**205**		**139 - 203**
DCAD	meq/100gm	19.15		16.10 - 36.30
TDN (OARDC)	% DM	62.2	56.0	58.9 - 66.6
NEL (" ")	Mcal/lb	0.64	0.58	0.61 - 0.69
NEM (" ")	Mcal/lb	0.63	0.56	0.57 - 0.69
NEG (" ")	Mcal/lb	0.36	0.33	0.32 - 0.42
TDN (WSE)	% DM	63.4	57.0	
Lignin/NDF	%	18.0		16.4 - 19.0
NFC	% DM	32.5	29.3	26.0 - 34.7
Adj crude protein	% DM	22.7	20.4	

JOHN JONES
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Sample : ALFALFA HAY 3RD CUT
Farm name : LONE OAK JERS Amount : 355 grams
Sampled : 8/29/2006 Cutting : 3
Received : 8/31/2006 Cut cycle : 23
Complete : 9/1/2006