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Sample Date: 2023-12-12
Sample No.: 003-2312-1309371

To: Steffes Auctioneers
 24400 MN Hwy 22 South
 Litchfield, MN 55355

Account No.: 953 (0)
Sampled By: Steffes Auctioneers
Sampled For: STEFFES AUCTION

Product: 3751

Test Mode: N9
Feed Type: Hay - Legume
Sub Type: Alfalfa

Moisture	13.69%		
Dry Matter	86.31%		
		Dry Basis	90% Range*
Crude Protein	%DM	20.57	15.4 - 24.0
AD-ICP	%DM	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.07	1.63 - 4.06
Protein Sol.	%CP	42.54	27.5 - 47.1
Total Amino Acids	%DM	15.16	11.2 - 20.2
Total Amino Acids	%CP	73.70	66.4 - 89.8
Lysine	%CP	4.33	3.61 - 5.16
Methionine	%CP	1.56	1.42 - 2.11
Isoleucine	%CP	3.31	2.48 - 3.77
Leucine	%CP	6.42	4.88 - 7.39
Histidine	%CP	1.56	1.43 - 1.88
ADF	%DM	36.03	25.5 - 41.8
aNDF	%DM	44.30	31.9 - 51.8
aNDFom	%DM	42.62	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	7.94	5.84 - 9.64
Lignin	%NDFom	18.63	
Lignin input (uNDF/2.4)	%DM	10.92	
NDFD12	%NDFom	23.21	28.9 - 47.1
NDFD 24	%NDFom	31.63	28.2 - 45.5
NDFD 30	%NDFom	32.92	31.3 - 48.1
NDFD 48	%NDFom	35.03	32.6 - 49.4
NDFD240	%NDFom	38.50	41.5 - 61.9
uNDFom12	%DM	32.73	16.6 - 30.2
uNDFom24	%DM	29.14	17.4 - 31.1
uNDFom30	%DM	28.59	16.5 - 29.5
uNDFom48	%DM	27.69	15.6 - 28.6
uNDFom240	%DM	26.21	13.0 - 27.8
Starch	%DM	0.25	0.28 - 3.74
Fat (EE)	%DM	2.09	1.77 - 3.35
TFA (fat)	%DM	1.18	0.81 - 2.33
16:0 Palmitic	%TFA	24.58	23.6 - 41.7
18:0 Stearic	%TFA	5.08	4.46 - 8.70
18:1 Oleic	%TFA	6.78	3.42 - 11.5
18:2 Linoleic	%TFA	18.64	12.5 - 22.7

18:3 Linolenic	%TFA	43.22	20.0 - 47.4
Ash	%DM	9.28	9.15 - 13.8
Calcium	%DM	1.23	1.19 - 1.84
Phosphorus	%DM	0.33	0.23 - 0.39
Magnesium	%DM	0.28	0.25 - 0.41
Potassium	%DM	2.81	1.83 - 3.36
Sulfur	%DM	0.26	0.17 - 0.33
Chloride	%DM	0.51	0.16 - 1.13
Sugar (ESC)	%DM	4.85	2.71 - 9.16
Sugar (WSC)	%DM	7.29	3.32 - 10.2

*Alfalfa hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	20.57			
NFC	%DM	28.42			
NSC	%DM	7.54			
RFV		127.79			
RFQ		107.02			
NDF kd rate Van Amb	%/hr	3.18			
NDF kd rate MIR_P1	%/hr	6.94			
			ADF	OARDC	MLK 2013
TDN	%DM	60.83	57.88	56.18	
Nel 3x	Mcal/cwt	62.36	59.00	58.87	
Neg	Mcal/cwt	34.09	34.84	32.72	
Nem	Mcal/cwt	60.17	60.99	58.67	
Milk per ton	lbs/ton			2437	