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Sample Date: 2023-12-12
Sample No.: 003-2312-1309378

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

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

Product: 3757

Test Mode: N9
Feed Type: Hay - Mixed
Sub Type: Mixed

Moisture	14.90%		
Dry Matter	85.10%		
		Dry Basis	90% Range*
Crude Protein	%DM	13.85	13.7 - 23.9
AD-ICP	%DM	1.32	1.06 - 2.09
ND-ICP w/SS	%DM	2.84	1.47 - 4.24
Protein Sol.	%CP	36.25	26.1 - 46.1
Total Amino Acids	%DM	10.30	6.52 - 15.6
Total Amino Acids	%CP	74.37	64.1 - 79.8
Lysine	%CP	4.19	3.44 - 4.63
Methionine	%CP	1.52	1.35 - 1.74
Isoleucine	%CP	3.47	2.63 - 3.55
Leucine	%CP	6.86	5.08 - 7.24
Histidine	%CP	1.59	1.25 - 1.70
ADF	%DM	41.55	25.8 - 41.6
aNDF	%DM	55.41	32.3 - 55.6
aNDFom	%DM	54.28	29.9 - 53.5
Lignin (Sulfuric Acid)	%DM	8.75	5.44 - 9.38
Lignin	%NDFom	16.12	
Lignin input (uNDF/2.4)	%DM	10.20	
NDFD12	%NDFom	32.06	21.0 - 43.6
NDFD 24	%NDFom	43.02	29.2 - 51.4
NDFD 30	%NDFom	45.17	32.1 - 54.7
NDFD 48	%NDFom	48.80	33.6 - 57.5
NDFD240	%NDFom	54.92	43.0 - 70.7
uNDFom12	%DM	36.88	20.1 - 48.9
uNDFom24	%DM	30.93	17.3 - 31.3
uNDFom30	%DM	29.76	16.4 - 29.7
uNDFom48	%DM	27.79	15.8 - 29.2
uNDFom240	%DM	24.47	12.2 - 28.8
Starch	%DM	1.12	0.29 - 3.75
Fat (EE)	%DM	1.83	1.88 - 3.44
TFA (fat)	%DM	0.98	0.87 - 2.47
16:0 Palmitic	%TFA	23.47	22.7 - 40.0
18:0 Stearic	%TFA	5.10	4.68 - 8.86
18:1 Oleic	%TFA	10.20	3.89 - 11.4
18:2 Linoleic	%TFA	22.45	11.4 - 22.4

18:3 Linolenic	%TFA	36.73	18.8 - 50.4
Ash	%DM	7.04	8.88 - 13.8
Calcium	%DM	0.88	0.93 - 1.81
Phosphorus	%DM	0.29	0.24 - 0.39
Magnesium	%DM	0.25	0.23 - 0.40
Potassium	%DM	2.39	1.76 - 3.37
Sulfur	%DM	0.14	0.16 - 0.33
Chloride	%DM	0.22	0.13 - 1.12
Sugar (ESC)	%DM	8.74	3.04 - 9.57
Sugar (WSC)	%DM	9.87	3.67 - 10.5

*Mixed hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	13.85		
NFC	%DM	25.69		
NSC	%DM	10.99		
RFV		95.09		
RFQ		98.28		
NDF kd rate Van Amb	%/hr	4.52		
NDF kd rate MIR_P1	%/hr	6.18		
		ADF	OARDC	MLK 2013
TDN	%DM	56.53	54.86	57.30
Nel 3x	Mcal/cwt	57.57	55.64	56.66
Neg	Mcal/cwt	26.29	27.94	31.44
Nem	Mcal/cwt	51.66	53.45	57.27
Milk per ton	lbs/ton			2380