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Sample Date: 2023-12-12
Sample No.: 003-2312-1309362

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

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

Product: 3743

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

Moisture	15.71%		
Dry Matter	84.29%		
		Dry Basis	90% Range*
Crude Protein	%DM	16.82	13.7 - 23.9
AD-ICP	%DM	1.26	1.06 - 2.09
ND-ICP w/SS	%DM	3.14	1.47 - 4.24
Protein Sol.	%CP	37.69	26.1 - 46.1
Total Amino Acids	%DM	11.65	6.52 - 15.6
Total Amino Acids	%CP	69.26	64.1 - 79.8
Lysine	%CP	3.75	3.44 - 4.63
Methionine	%CP	1.43	1.35 - 1.74
Isoleucine	%CP	3.03	2.63 - 3.55
Leucine	%CP	5.89	5.08 - 7.24
Histidine	%CP	1.43	1.25 - 1.70
ADF	%DM	37.23	25.8 - 41.6
aNDF	%DM	51.87	32.3 - 55.6
aNDFom	%DM	49.71	29.9 - 53.5
Lignin (Sulfuric Acid)	%DM	6.36	5.44 - 9.38
Lignin	%NDFom	12.79	
Lignin input (uNDF/2.4)	%DM	7.28	
NDFD12	%NDFom	33.25	21.0 - 43.6
NDFD 24	%NDFom	47.19	29.2 - 51.4
NDFD 30	%NDFom	50.49	32.1 - 54.7
NDFD 48	%NDFom	56.09	33.6 - 57.5
NDFD240	%NDFom	64.88	43.0 - 70.7
uNDFom12	%DM	33.18	20.1 - 48.9
uNDFom24	%DM	26.25	17.3 - 31.3
uNDFom30	%DM	24.61	16.4 - 29.7
uNDFom48	%DM	21.83	15.8 - 29.2
uNDFom240	%DM	17.46	12.2 - 28.8
Starch	%DM	0.96	0.29 - 3.75
Fat (EE)	%DM	2.70	1.88 - 3.44
TFA (fat)	%DM	1.24	0.87 - 2.47
16:0 Palmitic	%TFA	21.77	22.7 - 40.0
18:0 Stearic	%TFA	4.84	4.68 - 8.86
18:1 Oleic	%TFA	7.26	3.89 - 11.4
18:2 Linoleic	%TFA	17.74	11.4 - 22.4

18:3 Linolenic	%TFA	46.77	18.8 - 50.4
Ash	%DM	9.19	8.88 - 13.8
Calcium	%DM	0.82	0.93 - 1.81
Phosphorus	%DM	0.31	0.24 - 0.39
Magnesium	%DM	0.23	0.23 - 0.40
Potassium	%DM	2.83	1.76 - 3.37
Sulfur	%DM	0.19	0.16 - 0.33
Chloride	%DM	0.25	0.13 - 1.12
Sugar (ESC)	%DM	6.52	3.04 - 9.57
Sugar (WSC)	%DM	7.69	3.67 - 10.5

*Mixed hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	16.82		
NFC	%DM	25.18		
NSC	%DM	8.65		
RFV		107.26		
RFQ		114.73		
NDF kd rate Van Amb	%/hr	4.33		
NDF kd rate MIR_P1	%/hr	5.32		
		ADF	OARDC	MLK 2013
TDN	%DM	59.90	57.92	59.97
Nel 3x	Mcal/cwt	61.33	59.05	58.42
Neg	Mcal/cwt	28.83	33.36	36.13
Nem	Mcal/cwt	54.42	59.37	62.43
Milk per ton	lbs/ton			2532