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Sample Date: 2023-12-12
Sample No.: 003-2312-1309372

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

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

Product: 3752

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

Moisture	13.70%		
Dry Matter	86.30%		
		Dry Basis	90% Range*
Crude Protein	%DM	12.52	4.95 - 16.5
AD-ICP	%DM	1.56	0.62 - 1.79
ND-ICP w/SS	%DM	3.70	1.29 - 4.68
Protein Sol.	%CP	24.28	8.61 - 48.9
Total Amino Acids	%DM	9.48	2.58 - 15.2
Total Amino Acids	%CP	75.72	45.0 - 80.7
Lysine	%CP	3.75	2.37 - 4.60
Methionine	%CP	1.36	0.65 - 1.72
Isoleucine	%CP	3.75	2.08 - 3.75
Leucine	%CP	7.19	4.58 - 7.86
Histidine	%CP	1.52	1.02 - 1.71
ADF	%DM	42.16	31.8 - 50.2
aNDF	%DM	56.75	48.2 - 72.7
aNDFom	%DM	51.23	43.0 - 68.9
Lignin (Sulfuric Acid)	%DM	5.83	3.94 - 9.40
Lignin	%NDFom	11.38	
Lignin input (uNDF/2.4)	%DM	8.27	
NDFD12	%NDFom	13.10	21.4 - 45.1
NDFD 24	%NDFom	34.55	31.1 - 59.0
NDFD 30	%NDFom	38.94	36.2 - 65.5
NDFD 48	%NDFom	47.37	40.6 - 67.4
NDFD240	%NDFom	61.27	52.4 - 80.6
uNDFom12	%DM	44.52	24.8 - 48.5
uNDFom24	%DM	33.53	18.7 - 43.4
uNDFom30	%DM	31.28	14.7 - 40.9
uNDFom48	%DM	26.96	12.8 - 35.9
uNDFom240	%DM	19.84	10.3 - 30.4
Starch	%DM	2.27	0.25 - 7.32
Fat (EE)	%DM	2.66	1.58 - 3.71
TFA (fat)	%DM	1.08	0.49 - 2.17
16:0 Palmitic	%TFA	20.37	18.1 - 36.8
18:0 Stearic	%TFA	3.70	3.37 - 10.8
18:1 Oleic	%TFA	10.19	4.24 - 26.6
18:2 Linoleic	%TFA	17.59	3.64 - 26.4

18:3 Linolenic	%TFA	46.30	8.75 - 59.7
Ash	%DM	12.00	6.12 - 13.0
Calcium	%DM	0.75	0.25 - 1.15
Phosphorus	%DM	0.22	0.11 - 0.35
Magnesium	%DM	0.25	0.12 - 0.33
Potassium	%DM	1.91	0.69 - 3.03
Sulfur	%DM	0.22	0.07 - 0.25
Chloride	%DM	0.47	0.07 - 0.89
Sugar (ESC)	%DM	5.66	2.16 - 10.4
Sugar (WSC)	%DM	6.98	3.29 - 12.9

*Mixed grass hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	12.03		
NFC	%DM	25.87		
NSC	%DM	9.25		
RFV		91.70		
RFQ		104.89		
NDF kd rate Van Amb	%/hr	2.56		
NDF kd rate MIR_P1	%/hr	3.48		
		ADF	OARDC	MLK 2013
TDN	%DM	56.06	55.05	48.84
Nel 3x	Mcal/cwt	57.05	55.85	56.17
Neg	Mcal/cwt	28.89	27.49	19.29
Nem	Mcal/cwt	54.48	52.96	44.12
Milk per ton	lbs/ton			2156