



Dairyland Laboratories, Inc.  
 919 Lincoln Ave.  
 Sauk Rapids, MN 56379  
 Telephone: 320-240-1737  
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 Email: info@dairylandlabs.com

Report Date: 1/25/2022  
 Sample No.: 003-2201-572468  
 Reference No.: auc1

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

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

Product: 1060

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 11.05%  
 Dry Matter 88.95%

Mixed grass hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	13.92	9.38	4.95 - 16.48
AD-ICP	%DM	1.55	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.50	3.31	1.29 - 4.68
Protein Sol.	%CP	33.69	26.07	8.61 - 48.90
ADF	%DM	41.75	40.44	31.75 - 50.23
aNDF	%DM	61.41	60.92	48.19 - 72.71
aNDFom	%DM	55.72	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.46	6.52	3.94 - 9.40
Lignin	%NDFom	9.80		
NDFD 30	%NDFom	47.65	49.20	36.20 - 65.52
NDFD240	%NDFom	67.55	66.50	52.42 - 80.59
uNDFom30	%DM	29.17	28.34	14.70 - 40.90
uNDFom240	%DM	18.08	19.99	10.26 - 30.38
Starch	%DM	7.80	1.81	0.25 - 7.32
Fat (EE)	%DM	2.46	2.57	1.58 - 3.71
TFA (fat)	%DM	0.91	1.19	0.49 - 2.17
Ash	%DM	13.51	9.35	6.12 - 13.03
Calcium	%DM	0.48	0.61	0.25 - 1.15
Phosphorus	%DM	0.28	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	1.69	1.82	0.69 - 3.03
Sulfur	%DM	0.19	0.14	0.07 - 0.25
Sugar (ESC)	%DM	2.50	6.34	2.16 - 10.37
Sugar (WSC)	%DM	3.81	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	13.67
NFC	%DM	18.44
NSC	%DM	11.61
RFV		85.23
RFQ		101.87
NDF kd rate Van Amb	%/hr	2.98
NDF kd rate MIR_P1	%/hr	4.14



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572469  
 Reference No.: auc2

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

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

Product: 1061

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 17.21%  
 Dry Matter 82.79%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	7.76	9.38	4.95 - 16.48
AD-ICP	%DM	1.01	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.64	3.31	1.29 - 4.68
Protein Sol.	%CP	41.88	26.07	8.61 - 48.90
ADF	%DM	44.49	40.44	31.75 - 50.23
aNDF	%DM	65.23	60.92	48.19 - 72.71
aNDFom	%DM	62.01	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.07	6.52	3.94 - 9.40
Lignin	%NDFom	9.79		
NDFD 30	%NDFom	40.22	49.20	36.20 - 65.52
NDFD240	%NDFom	59.57	66.50	52.42 - 80.59
uNDFom30	%DM	37.07	28.34	14.70 - 40.90
uNDFom240	%DM	25.07	19.99	10.26 - 30.38
Starch	%DM	4.91	1.81	0.25 - 7.32
Fat (EE)	%DM	1.83	2.57	1.58 - 3.71
TFA (fat)	%DM	0.67	1.19	0.49 - 2.17
Ash	%DM	10.55	9.35	6.12 - 13.03
Calcium	%DM	0.30	0.61	0.25 - 1.15
Phosphorus	%DM	0.22	0.22	0.11 - 0.35
Magnesium	%DM	0.17	0.20	0.12 - 0.33
Potassium	%DM	1.46	1.82	0.69 - 3.03
Sulfur	%DM	0.19	0.14	0.07 - 0.25
Sugar (ESC)	%DM	9.40	6.34	2.16 - 10.37
Sugar (WSC)	%DM	10.85	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	7.39
NFC	%DM	20.65
NSC	%DM	15.76
RFV		77.37
RFQ		83.50
NDF kd rate Van Amb	%/hr	2.34
NDF kd rate MIR_P1	%/hr	3.81





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572470  
 Reference No.: auc3

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

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

Product: 1063

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 16.31%  
 Dry Matter 83.69%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.46	20.20	15.38 - 23.97
AD-ICP	%DM	1.51	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.99	2.89	1.63 - 4.06
Protein Sol.	%CP	44.09	37.11	27.47 - 47.14
ADF	%DM	31.29	32.35	25.50 - 41.78
aNDF	%DM	36.93	40.02	31.89 - 51.84
aNDFom	%DM	35.47	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.45	7.42	5.84 - 9.64
Lignin	%NDFom	21.00		
NDFD 30	%NDFom	29.24	39.57	31.30 - 48.12
NDFD240	%NDFom	35.58	51.00	41.46 - 61.86
uNDFom30	%DM	25.10	22.24	16.48 - 29.48
uNDFom240	%DM	22.85	19.65	12.95 - 27.75
Starch	%DM	0.73	1.88	0.28 - 3.74
Fat (EE)	%DM	2.16	2.41	1.77 - 3.35
TFA (fat)	%DM	1.02	1.29	0.81 - 2.33
Ash	%DM	9.00	11.16	9.15 - 13.82
Calcium	%DM	1.70	1.54	1.19 - 1.84
Phosphorus	%DM	0.27	0.31	0.23 - 0.39
Magnesium	%DM	0.36	0.32	0.25 - 0.41
Potassium	%DM	1.62	2.62	1.83 - 3.36
Sulfur	%DM	0.21	0.25	0.17 - 0.33
Sugar (ESC)	%DM	7.26	6.03	2.71 - 9.16
Sugar (WSC)	%DM	9.13	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	20.46
NFC	%DM	36.04
NSC	%DM	9.86
RFV		162.58
RFQ		136.91
NDF kd rate Van Amb	%/hr	2.52
NDF kd rate MIR_P1	%/hr	5.85



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572471  
 Reference No.: auc4

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

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

Product: 1065

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 13.69%  
 Dry Matter 86.31%

Mixed grass hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	10.87	9.38	4.95 - 16.48
AD-ICP	%DM	1.85	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.35	3.31	1.29 - 4.68
Protein Sol.	%CP	28.15	26.07	8.61 - 48.90
ADF	%DM	44.58	40.44	31.75 - 50.23
aNDF	%DM	64.10	60.92	48.19 - 72.71
aNDFom	%DM	59.92	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	7.45	6.52	3.94 - 9.40
Lignin	%NDFom	12.43		
NDFD 30	%NDFom	32.24	49.20	36.20 - 65.52
NDFD240	%NDFom	54.37	66.50	52.42 - 80.59
uNDFom30	%DM	40.60	28.34	14.70 - 40.90
uNDFom240	%DM	27.34	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	1.62	2.57	1.58 - 3.71
TFA (fat)	%DM	0.54	1.19	0.49 - 2.17
Ash	%DM	10.18	9.35	6.12 - 13.03
Calcium	%DM	0.67	0.61	0.25 - 1.15
Phosphorus	%DM	0.20	0.22	0.11 - 0.35
Magnesium	%DM	0.23	0.20	0.12 - 0.33
Potassium	%DM	0.93	1.82	0.69 - 3.03
Sulfur	%DM	0.12	0.14	0.07 - 0.25
Sugar (ESC)	%DM	3.85	6.34	2.16 - 10.37
Sugar (WSC)	%DM	5.20	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	9.65
NFC	%DM	21.84
NSC	%DM	5.45
RFV		78.53
RFQ		82.97
NDF kd rate Van Amb	%/hr	1.91
NDF kd rate MIR_P1	%/hr	3.05





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572472  
 Reference No.: auc5

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

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

Product: 1066

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 13.40%  
 Dry Matter 86.60%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	11.93	9.38	4.95 - 16.48
AD-ICP	%DM	1.78	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.40	3.31	1.29 - 4.68
Protein Sol.	%CP	33.45	26.07	8.61 - 48.90
ADF	%DM	45.63	40.44	31.75 - 50.23
aNDF	%DM	66.82	60.92	48.19 - 72.71
aNDFom	%DM	62.43	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.90	6.52	3.94 - 9.40
Lignin	%NDFom	11.05		
NDFD 30	%NDFom	37.21	49.20	36.20 - 65.52
NDFD240	%NDFom	58.26	66.50	52.42 - 80.59
uNDFom30	%DM	39.20	28.34	14.70 - 40.90
uNDFom240	%DM	26.06	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	1.66	2.57	1.58 - 3.71
TFA (fat)	%DM	0.63	1.19	0.49 - 2.17
Ash	%DM	11.89	9.35	6.12 - 13.03
Calcium	%DM	0.42	0.61	0.25 - 1.15
Phosphorus	%DM	0.22	0.22	0.11 - 0.35
Magnesium	%DM	0.20	0.20	0.12 - 0.33
Potassium	%DM	0.79	1.82	0.69 - 3.03
Sulfur	%DM	0.17	0.14	0.07 - 0.25
Sugar (ESC)	%DM	4.76	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.09	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	10.99
NFC	%DM	16.52
NSC	%DM	7.34
RFV		74.44
RFQ		77.27
NDF kd rate Van Amb	%/hr	2.19
NDF kd rate MIR_P1	%/hr	3.45



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572473  
 Reference No.: auc6

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

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

Product: 1067

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 15.90%  
 Dry Matter 84.10%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	12.31	9.38	4.95 - 16.48
AD-ICP	%DM	1.75	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.62	3.31	1.29 - 4.68
Protein Sol.	%CP	31.28	26.07	8.61 - 48.90
ADF	%DM	46.38	40.44	31.75 - 50.23
aNDF	%DM	68.67	60.92	48.19 - 72.71
aNDFom	%DM	64.66	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.87	6.52	3.94 - 9.40
Lignin	%NDFom	10.62		
NDFD 30	%NDFom	36.39	49.20	36.20 - 65.52
NDFD240	%NDFom	58.21	66.50	52.42 - 80.59
uNDFom30	%DM	41.13	28.34	14.70 - 40.90
uNDFom240	%DM	27.02	19.99	10.26 - 30.38
Starch	%DM	0.53	1.81	0.25 - 7.32
Fat (EE)	%DM	1.61	2.57	1.58 - 3.71
TFA (fat)	%DM	0.61	1.19	0.49 - 2.17
Ash	%DM	12.49	9.35	6.12 - 13.03
Calcium	%DM	0.38	0.61	0.25 - 1.15
Phosphorus	%DM	0.24	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	0.97	1.82	0.69 - 3.03
Sulfur	%DM	0.17	0.14	0.07 - 0.25
Sugar (ESC)	%DM	3.66	6.34	2.16 - 10.37
Sugar (WSC)	%DM	5.61	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	11.48
NFC	%DM	13.55
NSC	%DM	6.14
RFV		71.59
RFQ		69.29
NDF kd rate Van Amb	%/hr	2.09
NDF kd rate MIR_P1	%/hr	3.33





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572474  
 Reference No.: auc7

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

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

Product: 1068

Test Mode: N8  
 Feed Type: Hay - Mixed  
 Sub Type: Mixed

Moisture 17.80%  
 Dry Matter 82.20%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	21.25	19.89	13.73 - 23.91
AD-ICP	%DM	1.91	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.42	2.95	1.47 - 4.24
Protein Sol.	%CP	33.98	36.28	26.07 - 46.05
ADF	%DM	33.43	32.66	25.78 - 41.61
aNDF	%DM	41.19	41.14	32.31 - 55.58
aNDFom	%DM	38.55	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	6.97	7.24	5.44 - 9.38
Lignin	%NDFom	18.08		
NDFD 30	%NDFom	48.15	41.30	32.13 - 54.72
NDFD240	%NDFom	56.73	53.49	43.03 - 70.69
uNDFom30	%DM	19.99	22.07	16.37 - 29.65
uNDFom240	%DM	16.68	19.32	12.22 - 28.78
Starch	%DM	0.25	2.03	0.29 - 3.75
Fat (EE)	%DM	2.18	2.53	1.88 - 3.44
TFA (fat)	%DM	1.05	1.38	0.87 - 2.47
Ash	%DM	12.11	10.98	8.88 - 13.76
Calcium	%DM	1.53	1.47	0.93 - 1.81
Phosphorus	%DM	0.30	0.31	0.24 - 0.39
Magnesium	%DM	0.32	0.31	0.23 - 0.40
Potassium	%DM	2.42	2.58	1.76 - 3.37
Sulfur	%DM	0.24	0.25	0.16 - 0.33
Sugar (ESC)	%DM	5.27	6.35	3.04 - 9.57
Sugar (WSC)	%DM	7.00	7.34	3.67 - 10.53

**Calculations**

Adjusted Crude Protein	%DM	21.25
NFC	%DM	30.46
NSC	%DM	7.25
RFV		141.80
RFQ		146.39
NDF kd rate Van Amb	%/hr	4.66
NDF kd rate MIR_P1	%/hr	6.40



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572475  
 Reference No.: auc8

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

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

Product: 1069

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 14.52%  
 Dry Matter 85.48%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.58	20.20	15.38 - 23.97
AD-ICP	%DM	1.66	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.04	2.89	1.63 - 4.06
Protein Sol.	%CP	40.47	37.11	27.47 - 47.14
ADF	%DM	35.40	32.35	25.50 - 41.78
aNDF	%DM	45.03	40.02	31.89 - 51.84
aNDFom	%DM	43.33	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.66	7.42	5.84 - 9.64
Lignin	%NDFom	17.68		
NDFD 30	%NDFom	34.04	39.57	31.30 - 48.12
NDFD240	%NDFom	41.20	51.00	41.46 - 61.86
uNDFom30	%DM	28.58	22.24	16.48 - 29.48
uNDFom240	%DM	25.48	19.65	12.95 - 27.75
Starch	%DM	1.09	1.88	0.28 - 3.74
Fat (EE)	%DM	1.98	2.41	1.77 - 3.35
TFA (fat)	%DM	1.10	1.29	0.81 - 2.33
Ash	%DM	9.01	11.16	9.15 - 13.82
Calcium	%DM	1.42	1.54	1.19 - 1.84
Phosphorus	%DM	0.27	0.31	0.23 - 0.39
Magnesium	%DM	0.34	0.32	0.25 - 0.41
Potassium	%DM	1.76	2.62	1.83 - 3.36
Sulfur	%DM	0.20	0.25	0.17 - 0.33
Sugar (ESC)	%DM	5.71	6.03	2.71 - 9.16
Sugar (WSC)	%DM	8.08	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	18.58
NFC	%DM	31.02
NSC	%DM	9.17
RFV		126.44
RFQ		109.84
NDF kd rate Van Amb	%/hr	2.58
NDF kd rate MIR_P1	%/hr	5.93





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572476  
 Reference No.: auc9

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

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

Product: 1070

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 13.25%  
 Dry Matter 86.75%

Alfalfa hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	18.50	20.20	15.38 - 23.97
AD-ICP	%DM	1.61	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.60	2.89	1.63 - 4.06
Protein Sol.	%CP	38.22	37.11	27.47 - 47.14
ADF	%DM	35.52	32.35	25.50 - 41.78
aNDF	%DM	41.96	40.02	31.89 - 51.84
aNDFom	%DM	40.35	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.86	7.42	5.84 - 9.64
Lignin	%NDFom	19.48		
NDFD 30	%NDFom	29.96	39.57	31.30 - 48.12
NDFD240	%NDFom	37.35	51.00	41.46 - 61.86
uNDFom30	%DM	28.26	22.24	16.48 - 29.48
uNDFom240	%DM	25.28	19.65	12.95 - 27.75
Starch	%DM	2.45	1.88	0.28 - 3.74
Fat (EE)	%DM	2.06	2.41	1.77 - 3.35
TFA (fat)	%DM	1.15	1.29	0.81 - 2.33
Ash	%DM	9.84	11.16	9.15 - 13.82
Calcium	%DM	1.54	1.54	1.19 - 1.84
Phosphorus	%DM	0.26	0.31	0.23 - 0.39
Magnesium	%DM	0.35	0.32	0.25 - 0.41
Potassium	%DM	1.74	2.62	1.83 - 3.36
Sulfur	%DM	0.20	0.25	0.17 - 0.33
Sugar (ESC)	%DM	7.18	6.03	2.71 - 9.16
Sugar (WSC)	%DM	8.67	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	18.50
NFC	%DM	32.76
NSC	%DM	11.12
RFV		135.75
RFQ		112.57
NDF kd rate Van Amb	%/hr	2.38
NDF kd rate MIR_P1	%/hr	5.49



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572477  
 Reference No.: auc10

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

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

Product: 1072

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 19.20%  
 Dry Matter 80.80%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	7.34	9.38	4.95 - 16.48
AD-ICP	%DM	1.60	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.21	3.31	1.29 - 4.68
Protein Sol.	%CP	28.07	26.07	8.61 - 48.90
ADF	%DM	50.79	40.44	31.75 - 50.23
aNDF	%DM	73.50	60.92	48.19 - 72.71
aNDFom	%DM	68.08	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.51	6.52	3.94 - 9.40
Lignin	%NDFom	9.56		
NDFD 30	%NDFom	45.27	49.20	36.20 - 65.52
NDFD240	%NDFom	67.24	66.50	52.42 - 80.59
uNDFom30	%DM	37.26	28.34	14.70 - 40.90
uNDFom240	%DM	22.30	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	1.58	2.57	1.58 - 3.71
TFA (fat)	%DM	0.30	1.19	0.49 - 2.17
Ash	%DM	12.17	9.35	6.12 - 13.03
Calcium	%DM	0.34	0.61	0.25 - 1.15
Phosphorus	%DM	0.17	0.22	0.11 - 0.35
Magnesium	%DM	0.09	0.20	0.12 - 0.33
Potassium	%DM	0.50	1.82	0.69 - 3.03
Sulfur	%DM	0.10	0.14	0.07 - 0.25
Sugar (ESC)	%DM	4.50	6.34	2.16 - 10.37
Sugar (WSC)	%DM	5.29	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	5.95
NFC	%DM	15.32
NSC	%DM	5.54
RFV		62.33
RFQ		69.33
NDF kd rate Van Amb	%/hr	2.73
NDF kd rate MIR_P1	%/hr	3.79





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572478  
 Reference No.: auc11

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

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

Product: 1073

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 16.03%  
 Dry Matter 83.97%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	7.73	9.38	4.95 - 16.48
AD-ICP	%DM	1.13	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.74	3.31	1.29 - 4.68
Protein Sol.	%CP	37.90	26.07	8.61 - 48.90
ADF	%DM	47.29	40.44	31.75 - 50.23
aNDF	%DM	69.37	60.92	48.19 - 72.71
aNDFom	%DM	65.71	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.62	6.52	3.94 - 9.40
Lignin	%NDFom	10.07		
NDFD 30	%NDFom	40.68	49.20	36.20 - 65.52
NDFD240	%NDFom	61.04	66.50	52.42 - 80.59
uNDFom30	%DM	38.98	28.34	14.70 - 40.90
uNDFom240	%DM	25.60	19.99	10.26 - 30.38
Starch	%DM	4.15	1.81	0.25 - 7.32
Fat (EE)	%DM	1.55	2.57	1.58 - 3.71
TFA (fat)	%DM	0.51	1.19	0.49 - 2.17
Ash	%DM	11.80	9.35	6.12 - 13.03
Calcium	%DM	0.46	0.61	0.25 - 1.15
Phosphorus	%DM	0.17	0.22	0.11 - 0.35
Magnesium	%DM	0.20	0.20	0.12 - 0.33
Potassium	%DM	0.94	1.82	0.69 - 3.03
Sulfur	%DM	0.20	0.14	0.07 - 0.25
Sugar (ESC)	%DM	7.47	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.45	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	7.16		
NFC	%DM	15.99		
NSC	%DM	13.60		
RFV		69.82		
RFQ		71.72		
NDF kd rate Van Amb	%/hr	2.41		
NDF kd rate MIR_P1	%/hr	3.72		



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572479  
 Reference No.: auc12

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

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

Product: 1075

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 17.08%  
 Dry Matter 82.92%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	24.16	20.20	15.38 - 23.97
AD-ICP	%DM	1.85	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.74	2.89	1.63 - 4.06
Protein Sol.	%CP	34.19	37.11	27.47 - 47.14
ADF	%DM	28.82	32.35	25.50 - 41.78
aNDF	%DM	37.34	40.02	31.89 - 51.84
aNDFom	%DM	35.64	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.15	7.42	5.84 - 9.64
Lignin	%NDFom	17.26		
NDFD 30	%NDFom	44.25	39.57	31.30 - 48.12
NDFD240	%NDFom	50.95	51.00	41.46 - 61.86
uNDFom30	%DM	19.87	22.24	16.48 - 29.48
uNDFom240	%DM	17.48	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.65	2.41	1.77 - 3.35
TFA (fat)	%DM	1.35	1.29	0.81 - 2.33
Ash	%DM	11.57	11.16	9.15 - 13.82
Calcium	%DM	1.28	1.54	1.19 - 1.84
Phosphorus	%DM	0.36	0.31	0.23 - 0.39
Magnesium	%DM	0.29	0.32	0.25 - 0.41
Potassium	%DM	2.83	2.62	1.83 - 3.36
Sulfur	%DM	0.27	0.25	0.17 - 0.33
Sugar (ESC)	%DM	6.52	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.65	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	24.16
NFC	%DM	31.02
NSC	%DM	7.90
RFV		165.35
RFQ		164.19
NDF kd rate Van Amb	%/hr	3.70
NDF kd rate MIR_P1	%/hr	6.87





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572480  
 Reference No.: auc13

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

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

Product: 1076

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 14.55%  
 Dry Matter 85.45%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.43	9.38	4.95 - 16.48
AD-ICP	%DM	1.41	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	5.63	3.31	1.29 - 4.68
Protein Sol.	%CP	28.97	26.07	8.61 - 48.90
ADF	%DM	33.67	40.44	31.75 - 50.23
aNDF	%DM	53.75	60.92	48.19 - 72.71
aNDFom	%DM	50.95	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.20	6.52	3.94 - 9.40
Lignin	%NDFom	8.24		
NDFD 30	%NDFom	51.46	49.20	36.20 - 65.52
NDFD240	%NDFom	71.80	66.50	52.42 - 80.59
uNDFom30	%DM	24.73	28.34	14.70 - 40.90
uNDFom240	%DM	14.37	19.99	10.26 - 30.38
Starch	%DM	0.45	1.81	0.25 - 7.32
Fat (EE)	%DM	3.10	2.57	1.58 - 3.71
TFA (fat)	%DM	1.45	1.19	0.49 - 2.17
Ash	%DM	11.56	9.35	6.12 - 13.03
Calcium	%DM	0.64	0.61	0.25 - 1.15
Phosphorus	%DM	0.34	0.22	0.11 - 0.35
Magnesium	%DM	0.25	0.20	0.12 - 0.33
Potassium	%DM	2.09	1.82	0.69 - 3.03
Sulfur	%DM	0.24	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.33	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.43	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	18.43
NFC	%DM	22.24
NSC	%DM	8.88
RFV		108.34
RFQ		131.81
NDF kd rate Van Amb	%/hr	3.09
NDF kd rate MIR_P1	%/hr	4.28



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572481  
 Reference No.: auc14

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

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

Product: 1077

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 16.91%  
 Dry Matter 83.09%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.60	20.20	15.38 - 23.97
AD-ICP	%DM	1.59	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.28	2.89	1.63 - 4.06
Protein Sol.	%CP	41.12	37.11	27.47 - 47.14
ADF	%DM	35.30	32.35	25.50 - 41.78
aNDF	%DM	41.80	40.02	31.89 - 51.84
aNDFom	%DM	40.20	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.46	7.42	5.84 - 9.64
Lignin	%NDFom	18.56		
NDFD 30	%NDFom	36.82	39.57	31.30 - 48.12
NDFD240	%NDFom	42.81	51.00	41.46 - 61.86
uNDFom30	%DM	25.40	22.24	16.48 - 29.48
uNDFom240	%DM	22.99	19.65	12.95 - 27.75
Starch	%DM	0.73	1.88	0.28 - 3.74
Fat (EE)	%DM	2.17	2.41	1.77 - 3.35
TFA (fat)	%DM	1.08	1.29	0.81 - 2.33
Ash	%DM	9.90	11.16	9.15 - 13.82
Calcium	%DM	1.57	1.54	1.19 - 1.84
Phosphorus	%DM	0.29	0.31	0.23 - 0.39
Magnesium	%DM	0.32	0.32	0.25 - 0.41
Potassium	%DM	2.36	2.62	1.83 - 3.36
Sulfur	%DM	0.19	0.25	0.17 - 0.33
Sugar (ESC)	%DM	5.77	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.66	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	19.60
NFC	%DM	31.50
NSC	%DM	8.39
RFV		136.60
RFQ		126.67
NDF kd rate Van Amb	%/hr	3.09
NDF kd rate MIR_P1	%/hr	6.66





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572482  
 Reference No.: auc15

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

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

Product: 1079

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 11.47%  
 Dry Matter 88.53%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	10.68	9.38	4.95 - 16.48
AD-ICP	%DM	1.05	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.82	3.31	1.29 - 4.68
Protein Sol.	%CP	39.23	26.07	8.61 - 48.90
ADF	%DM	41.01	40.44	31.75 - 50.23
aNDF	%DM	60.03	60.92	48.19 - 72.71
aNDFom	%DM	56.35	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.54	6.52	3.94 - 9.40
Lignin	%NDFom	9.83		
NDFD 30	%NDFom	43.21	49.20	36.20 - 65.52
NDFD240	%NDFom	61.85	66.50	52.42 - 80.59
uNDFom30	%DM	32.00	28.34	14.70 - 40.90
uNDFom240	%DM	21.50	19.99	10.26 - 30.38
Starch	%DM	5.91	1.81	0.25 - 7.32
Fat (EE)	%DM	2.24	2.57	1.58 - 3.71
TFA (fat)	%DM	0.96	1.19	0.49 - 2.17
Ash	%DM	10.38	9.35	6.12 - 13.03
Calcium	%DM	0.46	0.61	0.25 - 1.15
Phosphorus	%DM	0.23	0.22	0.11 - 0.35
Magnesium	%DM	0.20	0.20	0.12 - 0.33
Potassium	%DM	1.38	1.82	0.69 - 3.03
Sulfur	%DM	0.24	0.14	0.07 - 0.25
Sugar (ESC)	%DM	8.58	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.69	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	10.68
NFC	%DM	23.45
NSC	%DM	15.60
RFV		88.29
RFQ		107.07
NDF kd rate Van Amb	%/hr	2.59
NDF kd rate MIR_P1	%/hr	4.07



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572483  
 Reference No.: auc16

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

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

Product: 1080

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 14.77%  
 Dry Matter 85.23%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	6.80	9.38	4.95 - 16.48
AD-ICP	%DM	1.57	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.15	3.31	1.29 - 4.68
Protein Sol.	%CP	25.15	26.07	8.61 - 48.90
ADF	%DM	51.07	40.44	31.75 - 50.23
aNDF	%DM	74.56	60.92	48.19 - 72.71
aNDFom	%DM	70.13	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.85	6.52	3.94 - 9.40
Lignin	%NDFom	9.77		
NDFD 30	%NDFom	40.10	49.20	36.20 - 65.52
NDFD240	%NDFom	63.94	66.50	52.42 - 80.59
uNDFom30	%DM	42.01	28.34	14.70 - 40.90
uNDFom240	%DM	25.29	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	1.29	2.57	1.58 - 3.71
TFA (fat)	%DM	0.23	1.19	0.49 - 2.17
Ash	%DM	10.66	9.35	6.12 - 13.03
Calcium	%DM	0.34	0.61	0.25 - 1.15
Phosphorus	%DM	0.15	0.22	0.11 - 0.35
Magnesium	%DM	0.09	0.20	0.12 - 0.33
Potassium	%DM	0.50	1.82	0.69 - 3.03
Sulfur	%DM	0.10	0.14	0.07 - 0.25
Sugar (ESC)	%DM	3.31	6.34	2.16 - 10.37
Sugar (WSC)	%DM	4.28	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	5.38
NFC	%DM	15.33
NSC	%DM	4.53
RFV		61.30
RFQ		62.12
NDF kd rate Van Amb	%/hr	2.31
NDF kd rate MIR_P1	%/hr	3.34





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572484  
 Reference No.: auc17

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

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

Product: 1081

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 15.93%  
 Dry Matter 84.07%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.10	20.20	15.38 - 23.97
AD-ICP	%DM	1.51	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.91	2.89	1.63 - 4.06
Protein Sol.	%CP	35.26	37.11	27.47 - 47.14
ADF	%DM	34.61	32.35	25.50 - 41.78
aNDF	%DM	46.86	40.02	31.89 - 51.84
aNDFom	%DM	45.10	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	5.94	7.42	5.84 - 9.64
Lignin	%NDFom	13.17		
NDFD 30	%NDFom	49.40	39.57	31.30 - 48.12
NDFD240	%NDFom	55.90	51.00	41.46 - 61.86
uNDFom30	%DM	22.82	22.24	16.48 - 29.48
uNDFom240	%DM	19.89	19.65	12.95 - 27.75
Starch	%DM	0.75	1.88	0.28 - 3.74
Fat (EE)	%DM	2.69	2.41	1.77 - 3.35
TFA (fat)	%DM	1.40	1.29	0.81 - 2.33
Ash	%DM	10.55	11.16	9.15 - 13.82
Calcium	%DM	1.01	1.54	1.19 - 1.84
Phosphorus	%DM	0.30	0.31	0.23 - 0.39
Magnesium	%DM	0.26	0.32	0.25 - 0.41
Potassium	%DM	2.38	2.62	1.83 - 3.36
Sulfur	%DM	0.20	0.25	0.17 - 0.33
Sugar (ESC)	%DM	8.18	6.03	2.71 - 9.16
Sugar (WSC)	%DM	9.24	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	17.10
NFC	%DM	28.76
NSC	%DM	9.99
RFV		122.92
RFQ		134.31
NDF kd rate Van Amb	%/hr	3.69
NDF kd rate MIR_P1	%/hr	7.30



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 Email: info@dairylandlabs.com

Report Date: 1/25/2022  
 Sample No.: 003-2201-572485  
 Reference No.: auc18

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

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

Product: 1084

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 19.42%  
 Dry Matter 80.58%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.67	9.38	4.95 - 16.48
AD-ICP	%DM	1.51	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.30	3.31	1.29 - 4.68
Protein Sol.	%CP	37.37	26.07	8.61 - 48.90
ADF	%DM	35.31	40.44	31.75 - 50.23
aNDF	%DM	48.92	60.92	48.19 - 72.71
aNDFom	%DM	45.05	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.16	6.52	3.94 - 9.40
Lignin	%NDFom	11.45		
NDFD 30	%NDFom	52.34	49.20	36.20 - 65.52
NDFD240	%NDFom	66.77	66.50	52.42 - 80.59
uNDFom30	%DM	21.47	28.34	14.70 - 40.90
uNDFom240	%DM	14.97	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	3.04	2.57	1.58 - 3.71
TFA (fat)	%DM	1.25	1.19	0.49 - 2.17
Ash	%DM	12.49	9.35	6.12 - 13.03
Calcium	%DM	1.15	0.61	0.25 - 1.15
Phosphorus	%DM	0.33	0.22	0.11 - 0.35
Magnesium	%DM	0.28	0.20	0.12 - 0.33
Potassium	%DM	2.17	1.82	0.69 - 3.03
Sulfur	%DM	0.26	0.14	0.07 - 0.25
Sugar (ESC)	%DM	4.73	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.27	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	19.67
NFC	%DM	24.84
NSC	%DM	6.52
RFV		116.59
RFQ		134.70
NDF kd rate Van Amb	%/hr	3.71
NDF kd rate MIR_P1	%/hr	5.19





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572486  
 Reference No.: auc19

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

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

Product: 1085

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 11.44%  
 Dry Matter 88.56%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	7.37	9.38	4.95 - 16.48
AD-ICP	%DM	1.53	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.77	3.31	1.29 - 4.68
Protein Sol.	%CP	25.24	26.07	8.61 - 48.90
ADF	%DM	46.06	40.44	31.75 - 50.23
aNDF	%DM	65.33	60.92	48.19 - 72.71
aNDFom	%DM	60.91	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.37	6.52	3.94 - 9.40
Lignin	%NDFom	10.46		
NDFD 30	%NDFom	34.36	49.20	36.20 - 65.52
NDFD240	%NDFom	58.20	66.50	52.42 - 80.59
uNDFom30	%DM	39.98	28.34	14.70 - 40.90
uNDFom240	%DM	25.46	19.99	10.26 - 30.38
Starch	%DM	0.85	1.81	0.25 - 7.32
Fat (EE)	%DM	1.95	2.57	1.58 - 3.71
TFA (fat)	%DM	0.57	1.19	0.49 - 2.17
Ash	%DM	11.64	9.35	6.12 - 13.03
Calcium	%DM	0.64	0.61	0.25 - 1.15
Phosphorus	%DM	0.12	0.22	0.11 - 0.35
Magnesium	%DM	0.15	0.20	0.12 - 0.33
Potassium	%DM	0.50	1.82	0.69 - 3.03
Sulfur	%DM	0.10	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.18	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.13	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	6.10
NFC	%DM	22.28
NSC	%DM	7.98
RFV		75.63
RFQ		75.14
NDF kd rate Van Amb	%/hr	1.93
NDF kd rate MIR_P1	%/hr	3.03



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572487  
 Reference No.: auc20

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

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

Product: 1086

Test Mode: N8  
 Feed Type: Haylage - Mixed  
 Sub Type: Mixed

Moisture 43.43%  
 Dry Matter 56.57%  
 pH 5.07

Mixed haylage statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	21.44	20.44	15.18 - 24.29
AD-ICP	%DM	1.23	1.67	1.04 - 2.47
ND-ICP w/SS	%DM	4.50	2.69	1.66 - 4.31
Protein Sol.	%CP	58.49	53.60	34.16 - 65.64
ADF	%DM	41.12	33.69	27.56 - 41.53
aNDF	%DM	48.74	41.38	33.64 - 52.21
aNDFom	%DM	40.11	38.36	30.72 - 48.82
Lignin (Sulfuric Acid)	%DM	7.83	8.00	5.91 - 10.22
Lignin	%NDFom	19.52		
NDFD 30	%NDFom	48.19	46.28	36.32 - 57.89
NDFD240	%NDFom	51.36	55.56	45.32 - 70.42
uNDFom30	%DM	20.78	20.29	14.63 - 27.82
uNDFom240	%DM	19.51	17.73	11.37 - 25.80
Starch	%DM	0.20	1.70	0.20 - 3.96
Fat (EE)	%DM	2.86	3.31	2.32 - 4.32
TFA (fat)	%DM	1.27	1.62	1.02 - 2.92
Ash	%DM	18.62	11.02	8.71 - 14.29
Calcium	%DM	1.01	1.26	0.85 - 1.55
Phosphorus	%DM	0.35	0.36	0.29 - 0.43
Magnesium	%DM	0.23	0.31	0.23 - 0.40
Potassium	%DM	2.07	2.81	2.05 - 3.51
Sulfur	%DM	0.22	0.25	0.18 - 0.33
Sugar (ESC)	%DM	0.09	3.30	1.11 - 8.06
Sugar (WSC)	%DM	0.01	4.10	1.46 - 8.94

**Calculations**

Adjusted Crude Protein	%DM	21.44		
NFC	%DM	22.06		
NSC	%DM	0.21		
RFV		108.45		
RFQ		101.60		
NDF kd rate Van Amb	%/hr	5.23		
NDF kd rate MIR_P1	%/hr	9.44		





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572488  
 Reference No.: auc21

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

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

Product: 1087

Test Mode: N8  
 Feed Type: Haylage - Mixed  
 Sub Type: Mixed

Moisture 48.43%  
 Dry Matter 51.57%  
 pH 4.88

Mixed haylage statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	22.81	20.44	15.18 - 24.29
AD-ICP	%DM	1.44	1.67	1.04 - 2.47
ND-ICP w/SS	%DM	3.85	2.69	1.66 - 4.31
Protein Sol.	%CP	58.53	53.60	34.16 - 65.64
ADF	%DM	40.77	33.69	27.56 - 41.53
aNDF	%DM	46.70	41.38	33.64 - 52.21
aNDFom	%DM	40.16	38.36	30.72 - 48.82
Lignin (Sulfuric Acid)	%DM	8.27	8.00	5.91 - 10.22
Lignin	%NDFom	20.59		
NDFD 30	%NDFom	45.42	46.28	36.32 - 57.89
NDFD240	%NDFom	49.20	55.56	45.32 - 70.42
uNDFom30	%DM	21.92	20.29	14.63 - 27.82
uNDFom240	%DM	20.40	17.73	11.37 - 25.80
Starch	%DM	0.78	1.70	0.20 - 3.96
Fat (EE)	%DM	3.06	3.31	2.32 - 4.32
TFA (fat)	%DM	1.15	1.62	1.02 - 2.92
Ash	%DM	15.27	11.02	8.71 - 14.29
Calcium	%DM	1.01	1.26	0.85 - 1.55
Phosphorus	%DM	0.38	0.36	0.29 - 0.43
Magnesium	%DM	0.23	0.31	0.23 - 0.40
Potassium	%DM	2.64	2.81	2.05 - 3.51
Sulfur	%DM	0.25	0.25	0.18 - 0.33
Sugar (ESC)	%DM	0.43	3.30	1.11 - 8.06
Sugar (WSC)	%DM	0.46	4.10	1.46 - 8.94

**Calculations**

Adjusted Crude Protein	%DM	22.81
NFC	%DM	23.46
NSC	%DM	1.24
RFV		113.84
RFQ		108.11
NDF kd rate Van Amb	%/hr	5.16
NDF kd rate MIR_P1	%/hr	8.69



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572489  
 Reference No.: auc22

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

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

Product: 1090

Test Mode: N8  
 Feed Type: Haylage - Mixed  
 Sub Type: Mixed

Moisture 45.69%  
 Dry Matter 54.31%  
 pH 4.92

Mixed haylage statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	22.81	20.44	15.18 - 24.29
AD-ICP	%DM	1.80	1.67	1.04 - 2.47
ND-ICP w/SS	%DM	4.00	2.69	1.66 - 4.31
Protein Sol.	%CP	57.61	53.60	34.16 - 65.64
ADF	%DM	40.09	33.69	27.56 - 41.53
aNDF	%DM	46.25	41.38	33.64 - 52.21
aNDFom	%DM	40.14	38.36	30.72 - 48.82
Lignin (Sulfuric Acid)	%DM	8.20	8.00	5.91 - 10.22
Lignin	%NDFom	20.43		
NDFD 30	%NDFom	43.52	46.28	36.32 - 57.89
NDFD240	%NDFom	47.61	55.56	45.32 - 70.42
uNDFom30	%DM	22.67	20.29	14.63 - 27.82
uNDFom240	%DM	21.03	17.73	11.37 - 25.80
Starch	%DM	0.49	1.70	0.20 - 3.96
Fat (EE)	%DM	2.94	3.31	2.32 - 4.32
TFA (fat)	%DM	1.14	1.62	1.02 - 2.92
Ash	%DM	13.83	11.02	8.71 - 14.29
Calcium	%DM	1.12	1.26	0.85 - 1.55
Phosphorus	%DM	0.38	0.36	0.29 - 0.43
Magnesium	%DM	0.27	0.31	0.23 - 0.40
Potassium	%DM	2.46	2.81	2.05 - 3.51
Sulfur	%DM	0.25	0.25	0.18 - 0.33
Sugar (ESC)	%DM	1.05	3.30	1.11 - 8.06
Sugar (WSC)	%DM	1.30	4.10	1.46 - 8.94

**Calculations**

Adjusted Crude Protein	%DM	22.81
NFC	%DM	25.08
NSC	%DM	1.79
RFV		115.79
RFQ		109.11
NDF kd rate Van Amb	%/hr	4.62
NDF kd rate MIR_P1	%/hr	8.32





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572490  
 Reference No.: auc23

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

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

Product: 1091

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 14.76%  
 Dry Matter 85.24%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	11.56	9.38	4.95 - 16.48
AD-ICP	%DM	2.00	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	5.28	3.31	1.29 - 4.68
Protein Sol.	%CP	35.73	26.07	8.61 - 48.90
ADF	%DM	44.54	40.44	31.75 - 50.23
aNDF	%DM	64.14	60.92	48.19 - 72.71
aNDFom	%DM	57.81	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.33	6.52	3.94 - 9.40
Lignin	%NDFom	9.22		
NDFD 30	%NDFom	34.77	49.20	36.20 - 65.52
NDFD240	%NDFom	58.76	66.50	52.42 - 80.59
uNDFom30	%DM	37.71	28.34	14.70 - 40.90
uNDFom240	%DM	23.84	19.99	10.26 - 30.38
Starch	%DM	0.84	1.81	0.25 - 7.32
Fat (EE)	%DM	3.45	2.57	1.58 - 3.71
TFA (fat)	%DM	1.29	1.19	0.49 - 2.17
Ash	%DM	16.30	9.35	6.12 - 13.03
Calcium	%DM	0.51	0.61	0.25 - 1.15
Phosphorus	%DM	0.20	0.22	0.11 - 0.35
Magnesium	%DM	0.13	0.20	0.12 - 0.33
Potassium	%DM	0.83	1.82	0.69 - 3.03
Sulfur	%DM	0.11	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.56	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.41	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	10.21
NFC	%DM	17.32
NSC	%DM	8.25
RFV		78.57
RFQ		77.90
NDF kd rate Van Amb	%/hr	1.85
NDF kd rate MIR_P1	%/hr	3.04



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572491  
 Reference No.: auc24

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

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

Product: 1092

Test Mode: N8  
 Feed Type: Haylage - Mixed  
 Sub Type: Mixed

Moisture 50.80%  
 Dry Matter 49.20%  
 pH 4.82

Mixed haylage statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	21.62	20.44	15.18 - 24.29
AD-ICP	%DM	1.72	1.67	1.04 - 2.47
ND-ICP w/SS	%DM	4.14	2.69	1.66 - 4.31
Protein Sol.	%CP	59.39	53.60	34.16 - 65.64
ADF	%DM	43.06	33.69	27.56 - 41.53
aNDF	%DM	48.83	41.38	33.64 - 52.21
aNDFom	%DM	40.98	38.36	30.72 - 48.82
Lignin (Sulfuric Acid)	%DM	8.70	8.00	5.91 - 10.22
Lignin	%NDFom	21.23		
NDFD 30	%NDFom	41.97	46.28	36.32 - 57.89
NDFD240	%NDFom	47.22	55.56	45.32 - 70.42
uNDFom30	%DM	23.78	20.29	14.63 - 27.82
uNDFom240	%DM	21.63	17.73	11.37 - 25.80
Starch	%DM	0.32	1.70	0.20 - 3.96
Fat (EE)	%DM	3.28	3.31	2.32 - 4.32
TFA (fat)	%DM	1.23	1.62	1.02 - 2.92
Ash	%DM	15.18	11.02	8.71 - 14.29
Calcium	%DM	0.97	1.26	0.85 - 1.55
Phosphorus	%DM	0.34	0.36	0.29 - 0.43
Magnesium	%DM	0.21	0.31	0.23 - 0.40
Potassium	%DM	1.99	2.81	2.05 - 3.51
Sulfur	%DM	0.24	0.25	0.18 - 0.33
Sugar (ESC)	%DM	0.09	3.30	1.11 - 8.06
Sugar (WSC)	%DM	0.01	4.10	1.46 - 8.94

**Calculations**

Adjusted Crude Protein	%DM	21.62
NFC	%DM	24.13
NSC	%DM	0.33
RFV		105.57
RFQ		95.25
NDF kd rate Van Amb	%/hr	4.57
NDF kd rate MIR_P1	%/hr	7.45





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572492  
 Reference No.: auc25

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

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

Product: 1093

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 16.89%  
 Dry Matter 83.11%

Alfalfa hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	24.36	20.20	15.38 - 23.97
AD-ICP	%DM	1.87	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.97	2.89	1.63 - 4.06
Protein Sol.	%CP	48.32	37.11	27.47 - 47.14
ADF	%DM	33.17	32.35	25.50 - 41.78
aNDF	%DM	41.92	40.02	31.89 - 51.84
aNDFom	%DM	40.25	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.60	7.42	5.84 - 9.64
Lignin	%NDFom	16.40		
NDFD 30	%NDFom	48.32	39.57	31.30 - 48.12
NDFD240	%NDFom	53.49	51.00	41.46 - 61.86
uNDFom30	%DM	20.80	22.24	16.48 - 29.48
uNDFom240	%DM	18.72	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.42	2.41	1.77 - 3.35
TFA (fat)	%DM	1.27	1.29	0.81 - 2.33
Ash	%DM	12.70	11.16	9.15 - 13.82
Calcium	%DM	1.33	1.54	1.19 - 1.84
Phosphorus	%DM	0.38	0.31	0.23 - 0.39
Magnesium	%DM	0.33	0.32	0.25 - 0.41
Potassium	%DM	2.40	2.62	1.83 - 3.36
Sulfur	%DM	0.25	0.25	0.17 - 0.33
Sugar (ESC)	%DM	4.27	6.03	2.71 - 9.16
Sugar (WSC)	%DM	5.65	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	24.36
NFC	%DM	25.39
NSC	%DM	5.90
RFV		139.81
RFQ		147.13
NDF kd rate Van Amb	%/hr	4.15
NDF kd rate MIR_P1	%/hr	7.92



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572493  
 Reference No.: auc26

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

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

Product: 1094

Test Mode: N8  
 Feed Type: Hay - Grass  
 Sub Type: Mixed

Moisture 14.00%  
 Dry Matter 86.00%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.35	9.38	4.95 - 16.48
AD-ICP	%DM	1.52	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	5.37	3.31	1.29 - 4.68
Protein Sol.	%CP	31.39	26.07	8.61 - 48.90
ADF	%DM	36.57	40.44	31.75 - 50.23
aNDF	%DM	57.34	60.92	48.19 - 72.71
aNDFom	%DM	54.03	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.33	6.52	3.94 - 9.40
Lignin	%NDFom	8.01		
NDFD 30	%NDFom	46.22	49.20	36.20 - 65.52
NDFD240	%NDFom	66.83	66.50	52.42 - 80.59
uNDFom30	%DM	29.06	28.34	14.70 - 40.90
uNDFom240	%DM	17.92	19.99	10.26 - 30.38
Starch	%DM	0.43	1.81	0.25 - 7.32
Fat (EE)	%DM	2.49	2.57	1.58 - 3.71
TFA (fat)	%DM	1.30	1.19	0.49 - 2.17
Ash	%DM	15.76	9.35	6.12 - 13.03
Calcium	%DM	0.57	0.61	0.25 - 1.15
Phosphorus	%DM	0.30	0.22	0.11 - 0.35
Magnesium	%DM	0.22	0.20	0.12 - 0.33
Potassium	%DM	1.87	1.82	0.69 - 3.03
Sulfur	%DM	0.26	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.04	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.04	8.25	3.29 - 12.93

**Calculations**

Adjusted Crude Protein	%DM	18.35
NFC	%DM	14.93
NSC	%DM	8.47
RFV		97.87
RFQ		98.71
NDF kd rate Van Amb	%/hr	2.61
NDF kd rate MIR_P1	%/hr	3.99





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572494  
 Reference No.: auc27

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

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

Product: 1095

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 14.13%  
 Dry Matter 85.87%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.00	20.20	15.38 - 23.97
AD-ICP	%DM	1.49	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.83	2.89	1.63 - 4.06
Protein Sol.	%CP	42.83	37.11	27.47 - 47.14
ADF	%DM	33.34	32.35	25.50 - 41.78
aNDF	%DM	41.21	40.02	31.89 - 51.84
aNDFom	%DM	39.95	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.67	7.42	5.84 - 9.64
Lignin	%NDFom	16.70		
NDFD 30	%NDFom	46.08	39.57	31.30 - 48.12
NDFD240	%NDFom	50.66	51.00	41.46 - 61.86
uNDFom30	%DM	21.54	22.24	16.48 - 29.48
uNDFom240	%DM	19.71	19.65	12.95 - 27.75
Starch	%DM	1.16	1.88	0.28 - 3.74
Fat (EE)	%DM	2.43	2.41	1.77 - 3.35
TFA (fat)	%DM	1.31	1.29	0.81 - 2.33
Ash	%DM	11.01	11.16	9.15 - 13.82
Calcium	%DM	1.24	1.54	1.19 - 1.84
Phosphorus	%DM	0.30	0.31	0.23 - 0.39
Magnesium	%DM	0.34	0.32	0.25 - 0.41
Potassium	%DM	2.16	2.62	1.83 - 3.36
Sulfur	%DM	0.18	0.25	0.17 - 0.33
Sugar (ESC)	%DM	7.34	6.03	2.71 - 9.16
Sugar (WSC)	%DM	9.80	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	18.00
NFC	%DM	32.56
NSC	%DM	10.96
RFV		141.96
RFQ		148.54
NDF kd rate Van Amb	%/hr	3.98
NDF kd rate MIR_P1	%/hr	8.15



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572495  
 Reference No.: auc28

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

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

Product: 1096

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 16.35%  
 Dry Matter 83.65%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	24.29	20.20	15.38 - 23.97
AD-ICP	%DM	2.07	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	5.36	2.89	1.63 - 4.06
Protein Sol.	%CP	35.03	37.11	27.47 - 47.14
ADF	%DM	28.97	32.35	25.50 - 41.78
aNDF	%DM	36.99	40.02	31.89 - 51.84
aNDFom	%DM	35.33	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.30	7.42	5.84 - 9.64
Lignin	%NDFom	20.66		
NDFD 30	%NDFom	46.93	39.57	31.30 - 48.12
NDFD240	%NDFom	53.47	51.00	41.46 - 61.86
uNDFom30	%DM	18.75	22.24	16.48 - 29.48
uNDFom240	%DM	16.44	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.93	2.41	1.77 - 3.35
TFA (fat)	%DM	1.35	1.29	0.81 - 2.33
Ash	%DM	12.29	11.16	9.15 - 13.82
Calcium	%DM	1.15	1.54	1.19 - 1.84
Phosphorus	%DM	0.41	0.31	0.23 - 0.39
Magnesium	%DM	0.33	0.32	0.25 - 0.41
Potassium	%DM	2.63	2.62	1.83 - 3.36
Sulfur	%DM	0.24	0.25	0.17 - 0.33
Sugar (ESC)	%DM	5.88	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.29	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	24.29
NFC	%DM	31.10
NSC	%DM	7.54
RFV		166.60
RFQ		171.01
NDF kd rate Van Amb	%/hr	5.12
NDF kd rate MIR_P1	%/hr	7.12





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572496  
 Reference No.: auc29

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

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

Product: 1097

Test Mode: N8  
 Feed Type: Hay - Mixed  
 Sub Type: Mixed

Moisture 12.67%  
 Dry Matter 87.33%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.90	19.89	13.73 - 23.91
AD-ICP	%DM	1.28	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.49	2.95	1.47 - 4.24
Protein Sol.	%CP	34.08	36.28	26.07 - 46.05
ADF	%DM	33.59	32.66	25.78 - 41.61
aNDF	%DM	49.46	41.14	32.31 - 55.58
aNDFom	%DM	48.50	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	5.23	7.24	5.44 - 9.38
Lignin	%NDFom	10.78		
NDFD 30	%NDFom	55.96	41.30	32.13 - 54.72
NDFD240	%NDFom	69.51	53.49	43.03 - 70.69
uNDFom30	%DM	21.36	22.07	16.37 - 29.65
uNDFom240	%DM	14.79	19.32	12.22 - 28.78
Starch	%DM	0.25	2.03	0.29 - 3.75
Fat (EE)	%DM	2.65	2.53	1.88 - 3.44
TFA (fat)	%DM	1.29	1.38	0.87 - 2.47
Ash	%DM	9.11	10.98	8.88 - 13.76
Calcium	%DM	0.92	1.47	0.93 - 1.81
Phosphorus	%DM	0.33	0.31	0.24 - 0.39
Magnesium	%DM	0.28	0.31	0.23 - 0.40
Potassium	%DM	2.15	2.58	1.76 - 3.37
Sulfur	%DM	0.21	0.25	0.16 - 0.33
Sugar (ESC)	%DM	6.24	6.35	3.04 - 9.57
Sugar (WSC)	%DM	8.32	7.34	3.67 - 10.53

**Calculations**

Adjusted Crude Protein	%DM	17.90
NFC	%DM	26.69
NSC	%DM	8.57
RFV		118.17
RFQ		139.47
NDF kd rate Van Amb	%/hr	4.05
NDF kd rate MIR_P1	%/hr	5.54



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572497  
 Reference No.: auc30

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

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

Product: 1098

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 14.68%  
 Dry Matter 85.32%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	22.52	20.20	15.38 - 23.97
AD-ICP	%DM	2.03	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.10	2.89	1.63 - 4.06
Protein Sol.	%CP	37.30	37.11	27.47 - 47.14
ADF	%DM	31.47	32.35	25.50 - 41.78
aNDF	%DM	37.75	40.02	31.89 - 51.84
aNDFom	%DM	34.06	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.17	7.42	5.84 - 9.64
Lignin	%NDFom	21.05		
NDFD 30	%NDFom	29.01	39.57	31.30 - 48.12
NDFD240	%NDFom	35.76	51.00	41.46 - 61.86
uNDFom30	%DM	24.18	22.24	16.48 - 29.48
uNDFom240	%DM	21.88	19.65	12.95 - 27.75
Starch	%DM	0.49	1.88	0.28 - 3.74
Fat (EE)	%DM	2.23	2.41	1.77 - 3.35
TFA (fat)	%DM	1.05	1.29	0.81 - 2.33
Ash	%DM	13.54	11.16	9.15 - 13.82
Calcium	%DM	1.57	1.54	1.19 - 1.84
Phosphorus	%DM	0.27	0.31	0.23 - 0.39
Magnesium	%DM	0.35	0.32	0.25 - 0.41
Potassium	%DM	1.45	2.62	1.83 - 3.36
Sulfur	%DM	0.28	0.25	0.17 - 0.33
Sugar (ESC)	%DM	5.26	6.03	2.71 - 9.16
Sugar (WSC)	%DM	6.99	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	22.52
NFC	%DM	31.93
NSC	%DM	7.48
RFV		158.70
RFQ		123.05
NDF kd rate Van Amb	%/hr	2.40
NDF kd rate MIR_P1	%/hr	5.65





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Report Date: 1/25/2022  
 Sample No.: 003-2201-572498  
 Reference No.: auc31

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

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

Product: 1099

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 14.62%  
 Dry Matter 85.38%

Alfalfa hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	18.41	20.20	15.38 - 23.97
AD-ICP	%DM	1.68	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.81	2.89	1.63 - 4.06
Protein Sol.	%CP	42.10	37.11	27.47 - 47.14
ADF	%DM	31.00	32.35	25.50 - 41.78
aNDF	%DM	40.23	40.02	31.89 - 51.84
aNDFom	%DM	38.63	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.53	7.42	5.84 - 9.64
Lignin	%NDFom	16.90		
NDFD 30	%NDFom	43.96	39.57	31.30 - 48.12
NDFD240	%NDFom	48.54	51.00	41.46 - 61.86
uNDFom30	%DM	21.65	22.24	16.48 - 29.48
uNDFom240	%DM	19.88	19.65	12.95 - 27.75
Starch	%DM	1.33	1.88	0.28 - 3.74
Fat (EE)	%DM	2.86	2.41	1.77 - 3.35
TFA (fat)	%DM	1.59	1.29	0.81 - 2.33
Ash	%DM	10.57	11.16	9.15 - 13.82
Calcium	%DM	1.21	1.54	1.19 - 1.84
Phosphorus	%DM	0.29	0.31	0.23 - 0.39
Magnesium	%DM	0.33	0.32	0.25 - 0.41
Potassium	%DM	2.01	2.62	1.83 - 3.36
Sulfur	%DM	0.19	0.25	0.17 - 0.33
Sugar (ESC)	%DM	10.13	6.03	2.71 - 9.16
Sugar (WSC)	%DM	10.65	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	18.41
NFC	%DM	33.61
NSC	%DM	11.98
RFV		149.58
RFQ		150.69
NDF kd rate Van Amb	%/hr	3.69
NDF kd rate MIR_P1	%/hr	8.00



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Report Date: 1/25/2022  
 Sample No.: 003-2201-572499  
 Reference No.: auc32

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

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

Product: 1100

Test Mode: N8  
 Feed Type: Hay - Legume  
 Sub Type: Alfalfa

Moisture 17.49%  
 Dry Matter 82.51%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	24.51	20.20	15.38 - 23.97
AD-ICP	%DM	2.06	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.72	2.89	1.63 - 4.06
Protein Sol.	%CP	41.57	37.11	27.47 - 47.14
ADF	%DM	27.98	32.35	25.50 - 41.78
aNDF	%DM	35.05	40.02	31.89 - 51.84
aNDFom	%DM	32.73	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.56	7.42	5.84 - 9.64
Lignin	%NDFom	20.04		
NDFD 30	%NDFom	38.16	39.57	31.30 - 48.12
NDFD240	%NDFom	43.97	51.00	41.46 - 61.86
uNDFom30	%DM	20.24	22.24	16.48 - 29.48
uNDFom240	%DM	18.34	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.42	2.41	1.77 - 3.35
TFA (fat)	%DM	1.19	1.29	0.81 - 2.33
Ash	%DM	13.17	11.16	9.15 - 13.82
Calcium	%DM	1.48	1.54	1.19 - 1.84
Phosphorus	%DM	0.34	0.31	0.23 - 0.39
Magnesium	%DM	0.30	0.32	0.25 - 0.41
Potassium	%DM	2.42	2.62	1.83 - 3.36
Sulfur	%DM	0.27	0.25	0.17 - 0.33
Sugar (ESC)	%DM	6.75	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.45	7.14	3.32 - 10.19

**Calculations**

Adjusted Crude Protein	%DM	24.51
NFC	%DM	32.12
NSC	%DM	7.70
RFV		177.89
RFQ		159.71
NDF kd rate Van Amb	%/hr	3.35
NDF kd rate MIR_P1	%/hr	6.86