



Dairyland Laboratories, Inc.
 919 Lincoln Ave.
 Sauk Rapids, MN 56379
 Telephone: 320-240-1737
 Fax: 320-240-1838
 Email: info@dairylandlabs.com

Report Date: 5/13/2021
 Sample No.: 003-2105-285303

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

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

Product: 5001 & 5002

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

Moisture 21.39%
 Dry Matter 78.61%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	13.95	19.89	13.73 - 23.91
AD-ICP	%DM	1.91	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.00	2.95	1.47 - 4.24
Protein Sol.	%CP	26.38	36.28	26.07 - 46.05
ADF	%DM	45.35	32.66	25.78 - 41.61
aNDF	%DM	57.54	41.14	32.31 - 55.58
aNDFom	%DM	55.35	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	10.09	7.24	5.44 - 9.38
Lignin	%NDFom	18.23		
NDFD 30	%NDFom	37.60	41.30	32.13 - 54.72
NDFD240	%NDFom	47.57	53.49	43.03 - 70.69
uNDFom30	%DM	34.54	22.07	16.37 - 29.65
uNDFom240	%DM	29.02	19.32	12.22 - 28.78
Starch	%DM	1.61	2.03	0.29 - 3.75
Fat (EE)	%DM	1.91	2.53	1.88 - 3.44
TFA (fat)	%DM	0.69	1.38	0.87 - 2.47
Ash	%DM	8.96	10.98	8.88 - 13.76
Calcium	%DM	1.54	1.47	0.93 - 1.81
Phosphorus	%DM	0.27	0.31	0.24 - 0.39
Magnesium	%DM	0.40	0.31	0.23 - 0.40
Potassium	%DM	1.41	2.58	1.76 - 3.37
Sulfur	%DM	0.15	0.25	0.16 - 0.33
Sugar (ESC)	%DM	3.21	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.81	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	13.13
NFC	%DM	24.05
NSC	%DM	5.42
RFV		86.79
RFQ		74.94
NDF kd rate Van Amb	%/hr	3.16
NDF kd rate MIR_P1	%/hr	5.30



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Report Date: 5/13/2021
 Sample No.: 003-2105-285304

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

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

Product: 5003 & 5004

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

Moisture 16.36%
 Dry Matter 83.64%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.40	19.89	13.73 - 23.91
AD-ICP	%DM	1.88	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.57	2.95	1.47 - 4.24
Protein Sol.	%CP	22.47	36.28	26.07 - 46.05
ADF	%DM	41.09	32.66	25.78 - 41.61
aNDF	%DM	53.79	41.14	32.31 - 55.58
aNDFom	%DM	50.92	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.27	7.24	5.44 - 9.38
Lignin	%NDFom	16.24		
NDFD 30	%NDFom	44.93	41.30	32.13 - 54.72
NDFD240	%NDFom	54.30	53.49	43.03 - 70.69
uNDFom30	%DM	28.04	22.07	16.37 - 29.65
uNDFom240	%DM	23.27	19.32	12.22 - 28.78
Starch	%DM	3.72	2.03	0.29 - 3.75
Fat (EE)	%DM	2.14	2.53	1.88 - 3.44
TFA (fat)	%DM	0.72	1.38	0.87 - 2.47
Ash	%DM	9.76	10.98	8.88 - 13.76
Calcium	%DM	1.47	1.47	0.93 - 1.81
Phosphorus	%DM	0.32	0.31	0.24 - 0.39
Magnesium	%DM	0.36	0.31	0.23 - 0.40
Potassium	%DM	1.75	2.58	1.76 - 3.37
Sulfur	%DM	0.21	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.35	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.06	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	17.18
NFC	%DM	24.77
NSC	%DM	6.78
RFV		98.34
RFQ		98.50
NDF kd rate Van Amb	%/hr	3.72
NDF kd rate MIR_P1	%/hr	5.96



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Report Date: 5/13/2021
 Sample No.: 003-2105-285305

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

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

Product: 5005

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

Moisture 15.22%
 Dry Matter 84.78%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.62	19.89	13.73 - 23.91
AD-ICP	%DM	2.03	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.62	2.95	1.47 - 4.24
Protein Sol.	%CP	26.80	36.28	26.07 - 46.05
ADF	%DM	41.03	32.66	25.78 - 41.61
aNDF	%DM	52.25	41.14	32.31 - 55.58
aNDFom	%DM	48.98	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.96	7.24	5.44 - 9.38
Lignin	%NDFom	18.29		
NDFD 30	%NDFom	41.83	41.30	32.13 - 54.72
NDFD240	%NDFom	49.41	53.49	43.03 - 70.69
uNDFom30	%DM	28.49	22.07	16.37 - 29.65
uNDFom240	%DM	24.78	19.32	12.22 - 28.78
Starch	%DM	2.45	2.03	0.29 - 3.75
Fat (EE)	%DM	1.83	2.53	1.88 - 3.44
TFA (fat)	%DM	0.74	1.38	0.87 - 2.47
Ash	%DM	10.69	10.98	8.88 - 13.76
Calcium	%DM	1.58	1.47	0.93 - 1.81
Phosphorus	%DM	0.34	0.31	0.24 - 0.39
Magnesium	%DM	0.40	0.31	0.23 - 0.40
Potassium	%DM	2.17	2.58	1.76 - 3.37
Sulfur	%DM	0.21	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.21	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.87	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	18.35
NFC	%DM	24.59
NSC	%DM	5.32
RFV		101.52
RFQ		94.78
NDF kd rate Van Amb	%/hr	3.71
NDF kd rate MIR_P1	%/hr	6.36



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Report Date: 5/13/2021
 Sample No.: 003-2105-285306

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

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

Product: 5006

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

Moisture 13.65%
 Dry Matter 86.35%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	15.28	19.89	13.73 - 23.91
AD-ICP	%DM	1.79	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.00	2.95	1.47 - 4.24
Protein Sol.	%CP	25.20	36.28	26.07 - 46.05
ADF	%DM	40.88	32.66	25.78 - 41.61
aNDF	%DM	60.14	41.14	32.31 - 55.58
aNDFom	%DM	57.10	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	7.49	7.24	5.44 - 9.38
Lignin	%NDFom	13.12		
NDFD 30	%NDFom	47.55	41.30	32.13 - 54.72
NDFD240	%NDFom	61.73	53.49	43.03 - 70.69
uNDFom30	%DM	29.95	22.07	16.37 - 29.65
uNDFom240	%DM	21.85	19.32	12.22 - 28.78
Starch	%DM	0.88	2.03	0.29 - 3.75
Fat (EE)	%DM	2.13	2.53	1.88 - 3.44
TFA (fat)	%DM	0.70	1.38	0.87 - 2.47
Ash	%DM	9.09	10.98	8.88 - 13.76
Calcium	%DM	1.10	1.47	0.93 - 1.81
Phosphorus	%DM	0.26	0.31	0.24 - 0.39
Magnesium	%DM	0.26	0.31	0.23 - 0.40
Potassium	%DM	1.51	2.58	1.76 - 3.37
Sulfur	%DM	0.17	0.25	0.16 - 0.33
Sugar (ESC)	%DM	3.55	6.35	3.04 - 9.57
Sugar (WSC)	%DM	5.16	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	14.86
NFC	%DM	21.83
NSC	%DM	6.04
RFV		88.45
RFQ		89.82
NDF kd rate Van Amb	%/hr	3.45
NDF kd rate MIR_P1	%/hr	4.99



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Report Date: 5/13/2021
 Sample No.: 003-2105-285307

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

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

Product: 5007

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

Moisture 15.62%
 Dry Matter 84.38%

Mixed grass hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	7.97	9.38	4.95 - 16.48
AD-ICP	%DM	1.26	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.56	3.31	1.29 - 4.68
Protein Sol.	%CP	13.43	26.07	8.61 - 48.90
ADF	%DM	44.89	40.44	31.75 - 50.23
aNDF	%DM	68.70	60.92	48.19 - 72.71
aNDFom	%DM	64.91	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.33	6.52	3.94 - 9.40
Lignin	%NDFom	9.75		
NDFD 30	%NDFom	40.27	49.20	36.20 - 65.52
NDFD240	%NDFom	59.31	66.50	52.42 - 80.59
uNDFom30	%DM	38.77	28.34	14.70 - 40.90
uNDFom240	%DM	26.41	19.99	10.26 - 30.38
Starch	%DM	1.44	1.81	0.25 - 7.32
Fat (EE)	%DM	2.34	2.57	1.58 - 3.71
TFA (fat)	%DM	0.51	1.19	0.49 - 2.17
Ash	%DM	9.30	9.35	6.12 - 13.03
Calcium	%DM	0.41	0.61	0.25 - 1.15
Phosphorus	%DM	0.23	0.22	0.11 - 0.35
Magnesium	%DM	0.17	0.20	0.12 - 0.33
Potassium	%DM	1.48	1.82	0.69 - 3.03
Sulfur	%DM	0.10	0.14	0.07 - 0.25
Sugar (ESC)	%DM	5.36	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.46	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	7.23
NFC	%DM	20.87
NSC	%DM	8.90
RFV		73.16
RFQ		86.22
NDF kd rate Van Amb	%/hr	2.32
NDF kd rate MIR_P1	%/hr	3.85



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Report Date: 5/13/2021
 Sample No.: 003-2105-285308

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

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

Product: 5008

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

Moisture 18.71%
 Dry Matter 81.29%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.37	19.89	13.73 - 23.91
AD-ICP	%DM	2.11	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.77	2.95	1.47 - 4.24
Protein Sol.	%CP	26.13	36.28	26.07 - 46.05
ADF	%DM	42.71	32.66	25.78 - 41.61
aNDF	%DM	52.80	41.14	32.31 - 55.58
aNDFom	%DM	49.47	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	9.53	7.24	5.44 - 9.38
Lignin	%NDFom	19.26		
NDFD 30	%NDFom	37.15	41.30	32.13 - 54.72
NDFD240	%NDFom	46.57	53.49	43.03 - 70.69
uNDFom30	%DM	31.09	22.07	16.37 - 29.65
uNDFom240	%DM	26.43	19.32	12.22 - 28.78
Starch	%DM	1.81	2.03	0.29 - 3.75
Fat (EE)	%DM	1.80	2.53	1.88 - 3.44
TFA (fat)	%DM	0.76	1.38	0.87 - 2.47
Ash	%DM	10.97	10.98	8.88 - 13.76
Calcium	%DM	1.50	1.47	0.93 - 1.81
Phosphorus	%DM	0.35	0.31	0.24 - 0.39
Magnesium	%DM	0.36	0.31	0.23 - 0.40
Potassium	%DM	2.09	2.58	1.76 - 3.37
Sulfur	%DM	0.19	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.50	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.26	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	17.93
NFC	%DM	24.20
NSC	%DM	5.07
RFV		97.89
RFQ		83.81
NDF kd rate Van Amb	%/hr	3.22
NDF kd rate MIR_P1	%/hr	5.42



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Report Date: 5/13/2021
Sample No.: 003-2105-285309

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

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

Product: 5009

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

Moisture 17.76%
 Dry Matter 82.24%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.81	19.89	13.73 - 23.91
AD-ICP	%DM	1.99	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.50	2.95	1.47 - 4.24
Protein Sol.	%CP	25.84	36.28	26.07 - 46.05
ADF	%DM	42.29	32.66	25.78 - 41.61
aNDF	%DM	52.95	41.14	32.31 - 55.58
aNDFom	%DM	49.86	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	9.35	7.24	5.44 - 9.38
Lignin	%NDFom	18.75		
NDFD 30	%NDFom	39.69	41.30	32.13 - 54.72
NDFD240	%NDFom	48.03	53.49	43.03 - 70.69
uNDFom30	%DM	30.07	22.07	16.37 - 29.65
uNDFom240	%DM	25.91	19.32	12.22 - 28.78
Starch	%DM	1.14	2.03	0.29 - 3.75
Fat (EE)	%DM	1.93	2.53	1.88 - 3.44
TFA (fat)	%DM	0.81	1.38	0.87 - 2.47
Ash	%DM	10.80	10.98	8.88 - 13.76
Calcium	%DM	1.55	1.47	0.93 - 1.81
Phosphorus	%DM	0.36	0.31	0.24 - 0.39
Magnesium	%DM	0.34	0.31	0.23 - 0.40
Potassium	%DM	2.38	2.58	1.76 - 3.37
Sulfur	%DM	0.19	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.18	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.83	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	18.64
NFC	%DM	23.22
NSC	%DM	3.97
RFV		98.47
RFQ		88.28
NDF kd rate Van Amb	%/hr	3.50
NDF kd rate MIR_P1	%/hr	5.93



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Report Date: 5/13/2021
 Sample No.: 003-2105-285310

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

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

Product: 5010

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

Moisture 17.70%
 Dry Matter 82.30%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.44	19.89	13.73 - 23.91
AD-ICP	%DM	2.23	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.78	2.95	1.47 - 4.24
Protein Sol.	%CP	27.42	36.28	26.07 - 46.05
ADF	%DM	42.46	32.66	25.78 - 41.61
aNDF	%DM	52.49	41.14	32.31 - 55.58
aNDFom	%DM	48.71	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	9.62	7.24	5.44 - 9.38
Lignin	%NDFom	19.75		
NDFD 30	%NDFom	39.52	41.30	32.13 - 54.72
NDFD240	%NDFom	47.49	53.49	43.03 - 70.69
uNDFom30	%DM	29.46	22.07	16.37 - 29.65
uNDFom240	%DM	25.58	19.32	12.22 - 28.78
Starch	%DM	0.75	2.03	0.29 - 3.75
Fat (EE)	%DM	1.98	2.53	1.88 - 3.44
TFA (fat)	%DM	0.88	1.38	0.87 - 2.47
Ash	%DM	11.76	10.98	8.88 - 13.76
Calcium	%DM	1.56	1.47	0.93 - 1.81
Phosphorus	%DM	0.34	0.31	0.24 - 0.39
Magnesium	%DM	0.36	0.31	0.23 - 0.40
Potassium	%DM	2.21	2.58	1.76 - 3.37
Sulfur	%DM	0.20	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.39	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.11	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	18.98
NFC	%DM	22.99
NSC	%DM	3.86
RFV		99.09
RFQ		87.76
NDF kd rate Van Amb	%/hr	3.68
NDF kd rate MIR_P1	%/hr	6.05



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Report Date: 5/13/2021
 Sample No.: 003-2105-285311

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

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

Product: 5011

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

Moisture 16.64%
 Dry Matter 83.36%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.99	19.89	13.73 - 23.91
AD-ICP	%DM	1.47	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	3.65	2.95	1.47 - 4.24
Protein Sol.	%CP	36.72	36.28	26.07 - 46.05
ADF	%DM	34.58	32.66	25.78 - 41.61
aNDF	%DM	43.82	41.14	32.31 - 55.58
aNDFom	%DM	41.44	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	6.79	7.24	5.44 - 9.38
Lignin	%NDFom	16.39		
NDFD 30	%NDFom	48.02	41.30	32.13 - 54.72
NDFD240	%NDFom	54.49	53.49	43.03 - 70.69
uNDFom30	%DM	21.54	22.07	16.37 - 29.65
uNDFom240	%DM	18.86	19.32	12.22 - 28.78
Starch	%DM	0.46	2.03	0.29 - 3.75
Fat (EE)	%DM	2.42	2.53	1.88 - 3.44
TFA (fat)	%DM	0.94	1.38	0.87 - 2.47
Ash	%DM	12.08	10.98	8.88 - 13.76
Calcium	%DM	1.65	1.47	0.93 - 1.81
Phosphorus	%DM	0.34	0.31	0.24 - 0.39
Magnesium	%DM	0.37	0.31	0.23 - 0.40
Potassium	%DM	2.37	2.58	1.76 - 3.37
Sulfur	%DM	0.25	0.25	0.16 - 0.33
Sugar (ESC)	%DM	3.92	6.35	3.04 - 9.57
Sugar (WSC)	%DM	5.18	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	19.99
NFC	%DM	28.20
NSC	%DM	5.64
RFV		131.60
RFQ		133.53
NDF kd rate Van Amb	%/hr	4.24
NDF kd rate MIR_P1	%/hr	7.22



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Report Date: 5/13/2021
 Sample No.: 003-2105-285312

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

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

Product: 5012

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

Moisture 21.81%
 Dry Matter 78.19%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.20	19.89	13.73 - 23.91
AD-ICP	%DM	2.04	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.65	2.95	1.47 - 4.24
Protein Sol.	%CP	23.95	36.28	26.07 - 46.05
ADF	%DM	45.85	32.66	25.78 - 41.61
aNDF	%DM	57.30	41.14	32.31 - 55.58
aNDFom	%DM	54.78	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	9.75	7.24	5.44 - 9.38
Lignin	%NDFom	17.80		
NDFD 30	%NDFom	39.83	41.30	32.13 - 54.72
NDFD240	%NDFom	49.32	53.49	43.03 - 70.69
uNDFom30	%DM	32.96	22.07	16.37 - 29.65
uNDFom240	%DM	27.76	19.32	12.22 - 28.78
Starch	%DM	3.60	2.03	0.29 - 3.75
Fat (EE)	%DM	1.28	2.53	1.88 - 3.44
TFA (fat)	%DM	0.44	1.38	0.87 - 2.47
Ash	%DM	8.29	10.98	8.88 - 13.76
Calcium	%DM	1.41	1.47	0.93 - 1.81
Phosphorus	%DM	0.34	0.31	0.24 - 0.39
Magnesium	%DM	0.34	0.31	0.23 - 0.40
Potassium	%DM	1.84	2.58	1.76 - 3.37
Sulfur	%DM	0.20	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.16	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.80	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	16.69
NFC	%DM	22.94
NSC	%DM	6.40
RFV		86.16
RFQ		80.76
NDF kd rate Van Amb	%/hr	3.34
NDF kd rate MIR_P1	%/hr	5.59



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Report Date: 5/13/2021
 Sample No.: 003-2105-285313

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

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

Product: 5013

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

Moisture 19.52%
 Dry Matter 80.48%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.11	19.89	13.73 - 23.91
AD-ICP	%DM	2.62	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.97	2.95	1.47 - 4.24
Protein Sol.	%CP	17.75	36.28	26.07 - 46.05
ADF	%DM	53.26	32.66	25.78 - 41.61
aNDF	%DM	71.18	41.14	32.31 - 55.58
aNDFom	%DM	66.37	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	11.12	7.24	5.44 - 9.38
Lignin	%NDFom	16.75		
NDFD 30	%NDFom	43.68	41.30	32.13 - 54.72
NDFD240	%NDFom	56.59	53.49	43.03 - 70.69
uNDFom30	%DM	37.38	22.07	16.37 - 29.65
uNDFom240	%DM	28.81	19.32	12.22 - 28.78
Starch	%DM	1.24	2.03	0.29 - 3.75
Fat (EE)	%DM	1.52	2.53	1.88 - 3.44
TFA (fat)	%DM	0.37	1.38	0.87 - 2.47
Ash	%DM	8.13	10.98	8.88 - 13.76
Calcium	%DM	1.33	1.47	0.93 - 1.81
Phosphorus	%DM	0.29	0.31	0.24 - 0.39
Magnesium	%DM	0.25	0.31	0.23 - 0.40
Potassium	%DM	1.40	2.58	1.76 - 3.37
Sulfur	%DM	0.18	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	14.50		
NFC	%DM	13.99		
NSC	%DM	3.74		
RFV		62.11		
RFQ		62.07		
NDF kd rate Van Amb	%/hr	3.65		
NDF kd rate MIR_P1	%/hr	5.01		



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Report Date: 5/13/2021
 Sample No.: 003-2105-285314

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

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

Product: 5014

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

Moisture 18.15%
 Dry Matter 81.85%

Mixed hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	16.81	19.89	13.73 - 23.91
AD-ICP	%DM	2.59	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.67	2.95	1.47 - 4.24
Protein Sol.	%CP	19.57	36.28	26.07 - 46.05
ADF	%DM	51.02	32.66	25.78 - 41.61
aNDF	%DM	66.33	41.14	32.31 - 55.58
aNDFom	%DM	62.15	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	10.79	7.24	5.44 - 9.38
Lignin	%NDFom	17.36		
Lignin input (uNDF/2.4)	%DM	12.08		
NDFD12	%NDFom	26.95	31.80	21.00 - 43.60
NDFD 24	%NDFom	38.26	38.59	29.23 - 51.39
NDFD 30	%NDFom	40.85	41.30	32.13 - 54.72
NDFD240	%NDFom	53.37	53.49	43.03 - 70.69
uNDFom12	%DM	45.40	30.00	20.10 - 48.90
uNDFom24	%DM	38.37	23.38	17.30 - 31.27
uNDFom30	%DM	36.76	22.07	16.37 - 29.65
uNDFom240	%DM	28.98	19.32	12.22 - 28.78
Starch	%DM	1.32	2.03	0.29 - 3.75
Fat (EE)	%DM	1.28	2.53	1.88 - 3.44
TFA (fat)	%DM	0.39	1.38	0.87 - 2.47
16:0 Palmitic	%TFA	56.41	28.95	22.65 - 40.00
18:0 Stearic	%TFA	12.82	6.09	4.68 - 8.86
18:1 Oleic	%TFA	20.51	6.25	3.89 - 11.39
18:2 Linoleic	%TFA	5.13	17.29	11.36 - 22.35
18:3 Linolenic	%TFA	5.13	40.00	18.83 - 50.36
Ash	%DM	8.53	10.98	8.88 - 13.76
Calcium	%DM	1.44	1.47	0.93 - 1.81
Phosphorus	%DM	0.29	0.31	0.24 - 0.39
Magnesium	%DM	0.29	0.31	0.23 - 0.40
Potassium	%DM	1.59	2.58	1.76 - 3.37
Sulfur	%DM	0.19	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein %DM 15.36



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Report Date: 5/13/2021
 Sample No.: 003-2105-285314

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

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

Product: 5014

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

NFC	%DM	16.79
NSC	%DM	3.82
RFV		68.98
RFQ		61.53
NDF kd rate Van Amb	%/hr	3.87
NDF kd rate MIR_P1	%/hr	5.14

		<u>ADF</u>	<u>OARDC</u>	<u>MLK 2013</u>
TDN	%DM	49.16	47.18	48.65
Nel 3x	Mcal/cwt	49.36	47.09	49.12
Neg	Mcal/cwt	22.63	17.97	20.84
Nem	Mcal/cwt	47.71	42.71	45.79
Milk per ton	lb/ton DM			1846



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Report Date: 5/13/2021
 Sample No.: 003-2105-285315

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

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

Product: 5015

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

Moisture 17.77%
 Dry Matter 82.23%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	14.97	19.89	13.73 - 23.91
AD-ICP	%DM	2.66	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	6.20	2.95	1.47 - 4.24
Protein Sol.	%CP	12.63	36.28	26.07 - 46.05
ADF	%DM	53.30	32.66	25.78 - 41.61
aNDF	%DM	72.18	41.14	32.31 - 55.58
aNDFom	%DM	67.14	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	11.10	7.24	5.44 - 9.38
Lignin	%NDFom	16.53		
NDFD 30	%NDFom	42.08	41.30	32.13 - 54.72
NDFD240	%NDFom	57.03	53.49	43.03 - 70.69
uNDFom30	%DM	38.89	22.07	16.37 - 29.65
uNDFom240	%DM	28.85	19.32	12.22 - 28.78
Starch	%DM	1.07	2.03	0.29 - 3.75
Fat (EE)	%DM	1.54	2.53	1.88 - 3.44
TFA (fat)	%DM	0.39	1.38	0.87 - 2.47
Ash	%DM	8.13	10.98	8.88 - 13.76
Calcium	%DM	1.37	1.47	0.93 - 1.81
Phosphorus	%DM	0.30	0.31	0.24 - 0.39
Magnesium	%DM	0.24	0.31	0.23 - 0.40
Potassium	%DM	1.77	2.58	1.76 - 3.37
Sulfur	%DM	0.16	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	13.11		
NFC	%DM	14.57		
NSC	%DM	3.57		
RFV		60.97		
RFQ		57.65		
NDF kd rate Van Amb	%/hr	3.37		
NDF kd rate MIR_P1	%/hr	4.54		



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Report Date: 5/13/2021
 Sample No.: 003-2105-285316

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

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

Product: 5016

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

Moisture 19.81%
 Dry Matter 80.19%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.72	19.89	13.73 - 23.91
AD-ICP	%DM	2.15	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.16	2.95	1.47 - 4.24
Protein Sol.	%CP	18.18	36.28	26.07 - 46.05
ADF	%DM	45.84	32.66	25.78 - 41.61
aNDF	%DM	60.79	41.14	32.31 - 55.58
aNDFom	%DM	57.49	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	9.32	7.24	5.44 - 9.38
Lignin	%NDFom	16.21		
NDFD 30	%NDFom	43.99	41.30	32.13 - 54.72
NDFD240	%NDFom	55.82	53.49	43.03 - 70.69
uNDFom30	%DM	32.20	22.07	16.37 - 29.65
uNDFom240	%DM	25.40	19.32	12.22 - 28.78
Starch	%DM	2.89	2.03	0.29 - 3.75
Fat (EE)	%DM	1.52	2.53	1.88 - 3.44
TFA (fat)	%DM	0.43	1.38	0.87 - 2.47
Ash	%DM	8.74	10.98	8.88 - 13.76
Calcium	%DM	1.34	1.47	0.93 - 1.81
Phosphorus	%DM	0.32	0.31	0.24 - 0.39
Magnesium	%DM	0.32	0.31	0.23 - 0.40
Potassium	%DM	1.91	2.58	1.76 - 3.37
Sulfur	%DM	0.20	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	15.96
NFC	%DM	20.78
NSC	%DM	5.39
RFV		81.23
RFQ		81.00
NDF kd rate Van Amb	%/hr	3.58
NDF kd rate MIR_P1	%/hr	5.26



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Report Date: 5/13/2021
 Sample No.: 003-2105-285317

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

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

Product: 5017

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

Moisture 21.65%
 Dry Matter 78.35%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.65	19.89	13.73 - 23.91
AD-ICP	%DM	2.14	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.40	2.95	1.47 - 4.24
Protein Sol.	%CP	19.94	36.28	26.07 - 46.05
ADF	%DM	43.67	32.66	25.78 - 41.61
aNDF	%DM	57.43	41.14	32.31 - 55.58
aNDFom	%DM	55.06	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.74	7.24	5.44 - 9.38
Lignin	%NDFom	15.87		
NDFD 30	%NDFom	45.93	41.30	32.13 - 54.72
NDFD240	%NDFom	56.88	53.49	43.03 - 70.69
uNDFom30	%DM	29.77	22.07	16.37 - 29.65
uNDFom240	%DM	23.74	19.32	12.22 - 28.78
Starch	%DM	3.24	2.03	0.29 - 3.75
Fat (EE)	%DM	1.40	2.53	1.88 - 3.44
TFA (fat)	%DM	0.51	1.38	0.87 - 2.47
Ash	%DM	8.22	10.98	8.88 - 13.76
Calcium	%DM	1.49	1.47	0.93 - 1.81
Phosphorus	%DM	0.33	0.31	0.24 - 0.39
Magnesium	%DM	0.36	0.31	0.23 - 0.40
Potassium	%DM	2.08	2.58	1.76 - 3.37
Sulfur	%DM	0.21	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	17.05		
NFC	%DM	22.96		
NSC	%DM	5.74		
RFV		88.91		
RFQ		94.11		
NDF kd rate Van Amb	%/hr	3.75		
NDF kd rate MIR_P1	%/hr	5.58		



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Report Date: 5/13/2021
 Sample No.: 003-2105-285318

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

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

Product: 5018

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

Moisture 19.04%
 Dry Matter 80.96%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.53	19.89	13.73 - 23.91
AD-ICP	%DM	2.09	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.27	2.95	1.47 - 4.24
Protein Sol.	%CP	18.94	36.28	26.07 - 46.05
ADF	%DM	45.03	32.66	25.78 - 41.61
aNDF	%DM	60.09	41.14	32.31 - 55.58
aNDFom	%DM	57.17	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.83	7.24	5.44 - 9.38
Lignin	%NDFom	15.45		
NDFD 30	%NDFom	45.15	41.30	32.13 - 54.72
NDFD240	%NDFom	56.41	53.49	43.03 - 70.69
uNDFom30	%DM	31.36	22.07	16.37 - 29.65
uNDFom240	%DM	24.92	19.32	12.22 - 28.78
Starch	%DM	2.90	2.03	0.29 - 3.75
Fat (EE)	%DM	1.56	2.53	1.88 - 3.44
TFA (fat)	%DM	0.47	1.38	0.87 - 2.47
Ash	%DM	8.71	10.98	8.88 - 13.76
Calcium	%DM	1.36	1.47	0.93 - 1.81
Phosphorus	%DM	0.31	0.31	0.24 - 0.39
Magnesium	%DM	0.33	0.31	0.23 - 0.40
Potassium	%DM	1.82	2.58	1.76 - 3.37
Sulfur	%DM	0.20	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.95	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.52	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	15.83
NFC	%DM	21.39
NSC	%DM	5.42
RFV		83.44
RFQ		84.96
NDF kd rate Van Amb	%/hr	3.57
NDF kd rate MIR_P1	%/hr	5.46



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Report Date: 5/13/2021
 Sample No.: 003-2105-285319

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

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

Product: 5019

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

Moisture 19.59%
 Dry Matter 80.41%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.13	19.89	13.73 - 23.91
AD-ICP	%DM	2.24	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.59	2.95	1.47 - 4.24
Protein Sol.	%CP	18.10	36.28	26.07 - 46.05
ADF	%DM	45.11	32.66	25.78 - 41.61
aNDF	%DM	59.55	41.14	32.31 - 55.58
aNDFom	%DM	55.97	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	9.05	7.24	5.44 - 9.38
Lignin	%NDFom	16.17		
NDFD 30	%NDFom	45.31	41.30	32.13 - 54.72
NDFD240	%NDFom	57.53	53.49	43.03 - 70.69
uNDFom30	%DM	30.61	22.07	16.37 - 29.65
uNDFom240	%DM	23.77	19.32	12.22 - 28.78
Starch	%DM	4.09	2.03	0.29 - 3.75
Fat (EE)	%DM	1.62	2.53	1.88 - 3.44
TFA (fat)	%DM	0.47	1.38	0.87 - 2.47
Ash	%DM	10.06	10.98	8.88 - 13.76
Calcium	%DM	1.36	1.47	0.93 - 1.81
Phosphorus	%DM	0.32	0.31	0.24 - 0.39
Magnesium	%DM	0.35	0.31	0.23 - 0.40
Potassium	%DM	1.81	2.58	1.76 - 3.37
Sulfur	%DM	0.21	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	16.29
NFC	%DM	20.96
NSC	%DM	6.59
RFV		84.18
RFQ		84.48
NDF kd rate Van Amb	%/hr	3.72
NDF kd rate MIR_P1	%/hr	5.25



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 Email: info@dairylandlabs.com

Report Date: 5/13/2021
 Sample No.: 003-2105-285320

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

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

Product: 5020 & 5021

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

Moisture 19.49%
 Dry Matter 80.51%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.85	19.89	13.73 - 23.91
AD-ICP	%DM	2.04	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.35	2.95	1.47 - 4.24
Protein Sol.	%CP	31.04	36.28	26.07 - 46.05
ADF	%DM	43.27	32.66	25.78 - 41.61
aNDF	%DM	52.51	41.14	32.31 - 55.58
aNDFom	%DM	49.49	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	9.35	7.24	5.44 - 9.38
Lignin	%NDFom	18.89		
NDFD 30	%NDFom	38.88	41.30	32.13 - 54.72
NDFD240	%NDFom	46.58	53.49	43.03 - 70.69
uNDFom30	%DM	30.25	22.07	16.37 - 29.65
uNDFom240	%DM	26.44	19.32	12.22 - 28.78
Starch	%DM	3.02	2.03	0.29 - 3.75
Fat (EE)	%DM	1.87	2.53	1.88 - 3.44
TFA (fat)	%DM	0.77	1.38	0.87 - 2.47
Ash	%DM	10.57	10.98	8.88 - 13.76
Calcium	%DM	1.65	1.47	0.93 - 1.81
Phosphorus	%DM	0.33	0.31	0.24 - 0.39
Magnesium	%DM	0.40	0.31	0.23 - 0.40
Potassium	%DM	1.95	2.58	1.76 - 3.37
Sulfur	%DM	0.19	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.37	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.08	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	17.44
NFC	%DM	24.67
NSC	%DM	6.10
RFV		97.97
RFQ		88.28
NDF kd rate Van Amb	%/hr	3.42
NDF kd rate MIR_P1	%/hr	6.10



Dairyland Laboratories, Inc.
 919 Lincoln Ave.
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Telephone: 320-240-1737
Fax: 320-240-1838
Email: info@dairylandlabs.com

Report Date: 5/13/2021
Sample No.: 003-2105-285321

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

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

Product: 5022

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

Moisture 18.11%
 Dry Matter 81.89%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.96	19.89	13.73 - 23.91
AD-ICP	%DM	1.82	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.85	2.95	1.47 - 4.24
Protein Sol.	%CP	25.56	36.28	26.07 - 46.05
ADF	%DM	38.96	32.66	25.78 - 41.61
aNDF	%DM	52.31	41.14	32.31 - 55.58
aNDFom	%DM	50.26	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	7.82	7.24	5.44 - 9.38
Lignin	%NDFom	15.56		
NDFD 30	%NDFom	47.15	41.30	32.13 - 54.72
NDFD240	%NDFom	55.99	53.49	43.03 - 70.69
uNDFom30	%DM	26.56	22.07	16.37 - 29.65
uNDFom240	%DM	22.12	19.32	12.22 - 28.78
Starch	%DM	2.15	2.03	0.29 - 3.75
Fat (EE)	%DM	2.22	2.53	1.88 - 3.44
TFA (fat)	%DM	0.92	1.38	0.87 - 2.47
Ash	%DM	10.17	10.98	8.88 - 13.76
Calcium	%DM	1.23	1.47	0.93 - 1.81
Phosphorus	%DM	0.36	0.31	0.24 - 0.39
Magnesium	%DM	0.36	0.31	0.23 - 0.40
Potassium	%DM	2.34	2.58	1.76 - 3.37
Sulfur	%DM	0.22	0.25	0.16 - 0.33
Sugar (ESC)	%DM	3.47	6.35	3.04 - 9.57
Sugar (WSC)	%DM	4.21	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	17.92
NFC	%DM	24.54
NSC	%DM	6.36
RFV		103.94
RFQ		107.24
NDF kd rate Van Amb	%/hr	3.86
NDF kd rate MIR_P1	%/hr	6.26



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Report Date: 5/13/2021
 Sample No.: 003-2105-285322

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

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

Product: 5023

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

Moisture 18.30%
 Dry Matter 81.70%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.86	19.89	13.73 - 23.91
AD-ICP	%DM	1.98	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.27	2.95	1.47 - 4.24
Protein Sol.	%CP	26.74	36.28	26.07 - 46.05
ADF	%DM	42.42	32.66	25.78 - 41.61
aNDF	%DM	54.40	41.14	32.31 - 55.58
aNDFom	%DM	50.76	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.37	7.24	5.44 - 9.38
Lignin	%NDFom	16.49		
NDFD 30	%NDFom	49.31	41.30	32.13 - 54.72
NDFD240	%NDFom	58.02	53.49	43.03 - 70.69
uNDFom30	%DM	25.73	22.07	16.37 - 29.65
uNDFom240	%DM	21.31	19.32	12.22 - 28.78
Starch	%DM	3.79	2.03	0.29 - 3.75
Fat (EE)	%DM	1.89	2.53	1.88 - 3.44
TFA (fat)	%DM	0.64	1.38	0.87 - 2.47
Ash	%DM	11.62	10.98	8.88 - 13.76
Calcium	%DM	1.70	1.47	0.93 - 1.81
Phosphorus	%DM	0.31	0.31	0.24 - 0.39
Magnesium	%DM	0.34	0.31	0.23 - 0.40
Potassium	%DM	2.32	2.58	1.76 - 3.37
Sulfur	%DM	0.25	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	19.86
NFC	%DM	20.39
NSC	%DM	6.29
RFV		95.68
RFQ		102.29
NDF kd rate Van Amb	%/hr	4.52
NDF kd rate MIR_P1	%/hr	6.43



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Report Date: 5/13/2021
Sample No.: 003-2105-285323

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

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

Product: 5024

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

Moisture 19.30%
 Dry Matter 80.70%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.66	19.89	13.73 - 23.91
AD-ICP	%DM	1.99	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.32	2.95	1.47 - 4.24
Protein Sol.	%CP	26.86	36.28	26.07 - 46.05
ADF	%DM	42.31	32.66	25.78 - 41.61
aNDF	%DM	53.82	41.14	32.31 - 55.58
aNDFom	%DM	50.23	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.53	7.24	5.44 - 9.38
Lignin	%NDFom	16.98		
NDFD 30	%NDFom	47.38	41.30	32.13 - 54.72
NDFD240	%NDFom	55.62	53.49	43.03 - 70.69
uNDFom30	%DM	26.43	22.07	16.37 - 29.65
uNDFom240	%DM	22.29	19.32	12.22 - 28.78
Starch	%DM	3.01	2.03	0.29 - 3.75
Fat (EE)	%DM	1.88	2.53	1.88 - 3.44
TFA (fat)	%DM	0.65	1.38	0.87 - 2.47
Ash	%DM	11.69	10.98	8.88 - 13.76
Calcium	%DM	1.71	1.47	0.93 - 1.81
Phosphorus	%DM	0.31	0.31	0.24 - 0.39
Magnesium	%DM	0.37	0.31	0.23 - 0.40
Potassium	%DM	2.23	2.58	1.76 - 3.37
Sulfur	%DM	0.26	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	19.62
NFC	%DM	21.09
NSC	%DM	5.51
RFV		96.70
RFQ		99.69
NDF kd rate Van Amb	%/hr	4.31
NDF kd rate MIR_P1	%/hr	6.47



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Report Date: 5/13/2021
 Sample No.: 003-2105-285324

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

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

Product: 5025

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

Moisture 18.76%
 Dry Matter 81.24%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.65	19.89	13.73 - 23.91
AD-ICP	%DM	2.06	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.86	2.95	1.47 - 4.24
Protein Sol.	%CP	27.85	36.28	26.07 - 46.05
ADF	%DM	41.32	32.66	25.78 - 41.61
aNDF	%DM	52.16	41.14	32.31 - 55.58
aNDFom	%DM	48.54	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.30	7.24	5.44 - 9.38
Lignin	%NDFom	17.10		
NDFD 30	%NDFom	48.43	41.30	32.13 - 54.72
NDFD240	%NDFom	55.97	53.49	43.03 - 70.69
uNDFom30	%DM	25.03	22.07	16.37 - 29.65
uNDFom240	%DM	21.37	19.32	12.22 - 28.78
Starch	%DM	3.55	2.03	0.29 - 3.75
Fat (EE)	%DM	2.04	2.53	1.88 - 3.44
TFA (fat)	%DM	0.70	1.38	0.87 - 2.47
Ash	%DM	12.00	10.98	8.88 - 13.76
Calcium	%DM	1.81	1.47	0.93 - 1.81
Phosphorus	%DM	0.34	0.31	0.24 - 0.39
Magnesium	%DM	0.41	0.31	0.23 - 0.40
Potassium	%DM	2.30	2.58	1.76 - 3.37
Sulfur	%DM	0.26	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	20.65
NFC	%DM	21.97
NSC	%DM	6.05
RFV		101.11
RFQ		106.58
NDF kd rate Van Amb	%/hr	4.47
NDF kd rate MIR_P1	%/hr	6.80



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Report Date: 5/13/2021
 Sample No.: 003-2105-285325

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

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

Product: 5026

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

Moisture 19.75%
 Dry Matter 80.25%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.63	19.89	13.73 - 23.91
AD-ICP	%DM	1.79	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.40	2.95	1.47 - 4.24
Protein Sol.	%CP	22.79	36.28	26.07 - 46.05
ADF	%DM	43.92	32.66	25.78 - 41.61
aNDF	%DM	56.14	41.14	32.31 - 55.58
aNDFom	%DM	53.74	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.35	7.24	5.44 - 9.38
Lignin	%NDFom	15.54		
NDFD 30	%NDFom	45.57	41.30	32.13 - 54.72
NDFD240	%NDFom	56.48	53.49	43.03 - 70.69
uNDFom30	%DM	29.25	22.07	16.37 - 29.65
uNDFom240	%DM	23.39	19.32	12.22 - 28.78
Starch	%DM	4.42	2.03	0.29 - 3.75
Fat (EE)	%DM	1.44	2.53	1.88 - 3.44
TFA (fat)	%DM	0.52	1.38	0.87 - 2.47
Ash	%DM	8.52	10.98	8.88 - 13.76
Calcium	%DM	1.62	1.47	0.93 - 1.81
Phosphorus	%DM	0.33	0.31	0.24 - 0.39
Magnesium	%DM	0.36	0.31	0.23 - 0.40
Potassium	%DM	2.25	2.58	1.76 - 3.37
Sulfur	%DM	0.20	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	16.43
NFC	%DM	23.99
NSC	%DM	6.92
RFV		90.73
RFQ		94.98
NDF kd rate Van Amb	%/hr	3.68
NDF kd rate MIR_P1	%/hr	5.58



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Report Date: 5/13/2021
 Sample No.: 003-2105-285326

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

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

Product: 5027

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

Moisture 17.48%
 Dry Matter 82.52%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.54	20.20	15.38 - 23.97
AD-ICP	%DM	1.61	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.41	2.89	1.63 - 4.06
Protein Sol.	%CP	32.50	37.11	27.47 - 47.14
ADF	%DM	35.12	32.35	25.50 - 41.78
aNDF	%DM	45.93	40.02	31.89 - 51.84
aNDFom	%DM	43.42	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.92	7.42	5.84 - 9.64
Lignin	%NDFom	15.94		
NDFD 30	%NDFom	48.94	39.57	31.30 - 48.12
NDFD240	%NDFom	55.99	51.00	41.46 - 61.86
uNDFom30	%DM	22.17	22.24	16.48 - 29.48
uNDFom240	%DM	19.11	19.65	12.95 - 27.75
Starch	%DM	2.09	1.88	0.28 - 3.74
Fat (EE)	%DM	1.79	2.41	1.77 - 3.35
TFA (fat)	%DM	0.83	1.29	0.81 - 2.33
Ash	%DM	10.74	11.16	9.15 - 13.82
Calcium	%DM	1.54	1.54	1.19 - 1.84
Phosphorus	%DM	0.36	0.31	0.23 - 0.39
Magnesium	%DM	0.46	0.32	0.25 - 0.41
Potassium	%DM	2.65	2.62	1.83 - 3.36
Sulfur	%DM	0.27	0.25	0.17 - 0.33
Sugar (ESC)	%DM	5.06	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.35	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	19.54
NFC	%DM	28.88
NSC	%DM	9.44
RFV		124.51
RFQ		134.65
NDF kd rate Van Amb	%/hr	4.22
NDF kd rate MIR_P1	%/hr	7.03



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Report Date: 5/13/2021
Sample No.: 003-2105-285327

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

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

Product: 5028

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

Moisture 18.92%
 Dry Matter 81.08%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	22.08	20.20	15.38 - 23.97
AD-ICP	%DM	2.24	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	5.34	2.89	1.63 - 4.06
Protein Sol.	%CP	29.80	37.11	27.47 - 47.14
ADF	%DM	34.97	32.35	25.50 - 41.78
aNDF	%DM	44.21	40.02	31.89 - 51.84
aNDFom	%DM	41.51	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	8.25	7.42	5.84 - 9.64
Lignin	%NDFom	19.87		
NDFD 30	%NDFom	43.51	39.57	31.30 - 48.12
NDFD240	%NDFom	50.25	51.00	41.46 - 61.86
uNDFom30	%DM	23.45	22.24	16.48 - 29.48
uNDFom240	%DM	20.65	19.65	12.95 - 27.75
Starch	%DM	2.27	1.88	0.28 - 3.74
Fat (EE)	%DM	1.84	2.41	1.77 - 3.35
TFA (fat)	%DM	0.81	1.29	0.81 - 2.33
Ash	%DM	11.24	11.16	9.15 - 13.82
Calcium	%DM	1.75	1.54	1.19 - 1.84
Phosphorus	%DM	0.36	0.31	0.23 - 0.39
Magnesium	%DM	0.45	0.32	0.25 - 0.41
Potassium	%DM	2.08	2.62	1.83 - 3.36
Sulfur	%DM	0.28	0.25	0.17 - 0.33
Sugar (ESC)	%DM	3.86	6.03	2.71 - 9.16
Sugar (WSC)	%DM	6.60	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	22.03
NFC	%DM	28.70
NSC	%DM	8.87
RFV		129.53
RFQ		129.45
NDF kd rate Van Amb	%/hr	4.26
NDF kd rate MIR_P1	%/hr	6.81



Dairyland Laboratories, Inc.
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Report Date: 5/13/2021
 Sample No.: 003-2105-285329

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

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

Product: 5030

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

Moisture 16.89%
 Dry Matter 83.11%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	15.15	9.38	4.95 - 16.48
AD-ICP	%DM	1.42	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.73	3.31	1.29 - 4.68
Protein Sol.	%CP	27.39	26.07	8.61 - 48.90
ADF	%DM	40.02	40.44	31.75 - 50.23
aNDF	%DM	61.29	60.92	48.19 - 72.71
aNDFom	%DM	59.42	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.10	6.52	3.94 - 9.40
Lignin	%NDFom	8.58		
NDFD 30	%NDFom	48.97	49.20	36.20 - 65.52
NDFD240	%NDFom	65.48	66.50	52.42 - 80.59
uNDFom30	%DM	30.32	28.34	14.70 - 40.90
uNDFom240	%DM	20.51	19.99	10.26 - 30.38
Starch	%DM	1.91	1.81	0.25 - 7.32
Fat (EE)	%DM	2.65	2.57	1.58 - 3.71
TFA (fat)	%DM	1.05	1.19	0.49 - 2.17
Ash	%DM	11.12	9.35	6.12 - 13.03
Calcium	%DM	0.65	0.61	0.25 - 1.15
Phosphorus	%DM	0.32	0.22	0.11 - 0.35
Magnesium	%DM	0.27	0.20	0.12 - 0.33
Potassium	%DM	1.59	1.82	0.69 - 3.03
Sulfur	%DM	0.24	0.14	0.07 - 0.25
Sugar (ESC)	%DM	3.62	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.98	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	15.15
NFC	%DM	16.99
NSC	%DM	8.89
RFV		87.70
RFQ		101.27
NDF kd rate Van Amb	%/hr	2.93
NDF kd rate MIR_P1	%/hr	4.67



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 Fax: 320-240-1838
 Email: info@dairylandlabs.com

Report Date: 5/13/2021
 Sample No.: 003-2105-285330

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

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

Product: 5031

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

Moisture 15.71%
 Dry Matter 84.29%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.92	19.89	13.73 - 23.91
AD-ICP	%DM	1.81	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.02	2.95	1.47 - 4.24
Protein Sol.	%CP	19.33	36.28	26.07 - 46.05
ADF	%DM	43.85	32.66	25.78 - 41.61
aNDF	%DM	59.64	41.14	32.31 - 55.58
aNDFom	%DM	56.88	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	7.85	7.24	5.44 - 9.38
Lignin	%NDFom	13.80		
NDFD 30	%NDFom	49.60	41.30	32.13 - 54.72
NDFD240	%NDFom	61.73	53.49	43.03 - 70.69
uNDFom30	%DM	28.67	22.07	16.37 - 29.65
uNDFom240	%DM	21.77	19.32	12.22 - 28.78
Starch	%DM	3.36	2.03	0.29 - 3.75
Fat (EE)	%DM	1.67	2.53	1.88 - 3.44
TFA (fat)	%DM	0.53	1.38	0.87 - 2.47
Ash	%DM	9.53	10.98	8.88 - 13.76
Calcium	%DM	1.33	1.47	0.93 - 1.81
Phosphorus	%DM	0.31	0.31	0.24 - 0.39
Magnesium	%DM	0.34	0.31	0.23 - 0.40
Potassium	%DM	1.84	2.58	1.76 - 3.37
Sulfur	%DM	0.22	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.03	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.63	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	16.73
NFC	%DM	20.16
NSC	%DM	5.99
RFV		85.29
RFQ		94.02
NDF kd rate Van Amb	%/hr	3.85
NDF kd rate MIR_P1	%/hr	5.52



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Report Date: 5/13/2021
 Sample No.: 003-2105-285331

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

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

Product: 5032

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

Moisture 20.17%
 Dry Matter 79.83%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	15.45	19.89	13.73 - 23.91
AD-ICP	%DM	1.86	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.18	2.95	1.47 - 4.24
Protein Sol.	%CP	17.41	36.28	26.07 - 46.05
ADF	%DM	45.28	32.66	25.78 - 41.61
aNDF	%DM	62.72	41.14	32.31 - 55.58
aNDFom	%DM	59.79	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.18	7.24	5.44 - 9.38
Lignin	%NDFom	13.68		
NDFD 30	%NDFom	50.63	41.30	32.13 - 54.72
NDFD240	%NDFom	63.51	53.49	43.03 - 70.69
uNDFom30	%DM	29.52	22.07	16.37 - 29.65
uNDFom240	%DM	21.82	19.32	12.22 - 28.78
Starch	%DM	3.95	2.03	0.29 - 3.75
Fat (EE)	%DM	1.68	2.53	1.88 - 3.44
TFA (fat)	%DM	0.39	1.38	0.87 - 2.47
Ash	%DM	9.24	10.98	8.88 - 13.76
Calcium	%DM	1.18	1.47	0.93 - 1.81
Phosphorus	%DM	0.29	0.31	0.24 - 0.39
Magnesium	%DM	0.29	0.31	0.23 - 0.40
Potassium	%DM	1.53	2.58	1.76 - 3.37
Sulfur	%DM	0.20	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.50	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.98	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	14.95
NFC	%DM	19.31
NSC	%DM	7.93
RFV		79.41
RFQ		89.87
NDF kd rate Van Amb	%/hr	3.97
NDF kd rate MIR_P1	%/hr	5.41



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Report Date: 5/13/2021
 Sample No.: 003-2105-285332

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

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

Product: 5033 & 5034

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

Moisture 22.46%
 Dry Matter 77.54%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.41	19.89	13.73 - 23.91
AD-ICP	%DM	1.90	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	4.58	2.95	1.47 - 4.24
Protein Sol.	%CP	21.21	36.28	26.07 - 46.05
ADF	%DM	44.82	32.66	25.78 - 41.61
aNDF	%DM	57.54	41.14	32.31 - 55.58
aNDFom	%DM	55.19	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.93	7.24	5.44 - 9.38
Lignin	%NDFom	16.18		
NDFD 30	%NDFom	43.90	41.30	32.13 - 54.72
NDFD240	%NDFom	55.01	53.49	43.03 - 70.69
uNDFom30	%DM	30.96	22.07	16.37 - 29.65
uNDFom240	%DM	24.83	19.32	12.22 - 28.78
Starch	%DM	4.40	2.03	0.29 - 3.75
Fat (EE)	%DM	1.43	2.53	1.88 - 3.44
TFA (fat)	%DM	0.51	1.38	0.87 - 2.47
Ash	%DM	8.50	10.98	8.88 - 13.76
Calcium	%DM	1.50	1.47	0.93 - 1.81
Phosphorus	%DM	0.33	0.31	0.24 - 0.39
Magnesium	%DM	0.37	0.31	0.23 - 0.40
Potassium	%DM	2.19	2.58	1.76 - 3.37
Sulfur	%DM	0.20	0.25	0.16 - 0.33
Sugar (ESC)	%DM	1.94	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.50	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	16.00
NFC	%DM	22.97
NSC	%DM	6.90
RFV		87.47
RFQ		88.48
NDF kd rate Van Amb	%/hr	3.58
NDF kd rate MIR_P1	%/hr	5.42



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Report Date: 5/13/2021
 Sample No.: 003-2105-285333

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

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

Product: 5035 & 5036

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

Moisture 18.98%
 Dry Matter 81.02%

Mixed hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	20.60	19.89	13.73 - 23.91
AD-ICP	%DM	2.07	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.72	2.95	1.47 - 4.24
Protein Sol.	%CP	21.50	36.28	26.07 - 46.05
ADF	%DM	41.61	32.66	25.78 - 41.61
aNDF	%DM	55.63	41.14	32.31 - 55.58
aNDFom	%DM	52.84	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	7.61	7.24	5.44 - 9.38
Lignin	%NDFom	14.40		
NDFD 30	%NDFom	50.97	41.30	32.13 - 54.72
NDFD240	%NDFom	62.91	53.49	43.03 - 70.69
uNDFom30	%DM	25.91	22.07	16.37 - 29.65
uNDFom240	%DM	19.60	19.32	12.22 - 28.78
Starch	%DM	4.46	2.03	0.29 - 3.75
Fat (EE)	%DM	1.79	2.53	1.88 - 3.44
TFA (fat)	%DM	0.62	1.38	0.87 - 2.47
Ash	%DM	10.31	10.98	8.88 - 13.76
Calcium	%DM	1.43	1.47	0.93 - 1.81
Phosphorus	%DM	0.35	0.31	0.24 - 0.39
Magnesium	%DM	0.37	0.31	0.23 - 0.40
Potassium	%DM	2.15	2.58	1.76 - 3.37
Sulfur	%DM	0.27	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.19	6.35	3.04 - 9.57
Sugar (WSC)	%DM	2.84	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	20.58
NFC	%DM	20.35
NSC	%DM	7.30
RFV		94.59
RFQ		105.93
NDF kd rate Van Amb	%/hr	4.12
NDF kd rate MIR_P1	%/hr	5.63



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Report Date: 5/13/2021
 Sample No.: 003-2105-285334

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

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

Product: 5037 & 5038

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

Moisture 17.07%
 Dry Matter 82.93%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.18	19.89	13.73 - 23.91
AD-ICP	%DM	1.84	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.92	2.95	1.47 - 4.24
Protein Sol.	%CP	25.32	36.28	26.07 - 46.05
ADF	%DM	38.96	32.66	25.78 - 41.61
aNDF	%DM	54.37	41.14	32.31 - 55.58
aNDFom	%DM	51.95	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	6.52	7.24	5.44 - 9.38
Lignin	%NDFom	12.55		
NDFD 30	%NDFom	52.28	41.30	32.13 - 54.72
NDFD240	%NDFom	66.29	53.49	43.03 - 70.69
uNDFom30	%DM	24.79	22.07	16.37 - 29.65
uNDFom240	%DM	17.51	19.32	12.22 - 28.78
Starch	%DM	2.45	2.03	0.29 - 3.75
Fat (EE)	%DM	2.26	2.53	1.88 - 3.44
TFA (fat)	%DM	0.93	1.38	0.87 - 2.47
Ash	%DM	11.73	10.98	8.88 - 13.76
Calcium	%DM	1.21	1.47	0.93 - 1.81
Phosphorus	%DM	0.42	0.31	0.24 - 0.39
Magnesium	%DM	0.37	0.31	0.23 - 0.40
Potassium	%DM	2.80	2.58	1.76 - 3.37
Sulfur	%DM	0.26	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.60	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.40	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	20.18
NFC	%DM	20.13
NSC	%DM	5.85
RFV		100.31
RFQ		110.66
NDF kd rate Van Amb	%/hr	3.88
NDF kd rate MIR_P1	%/hr	5.27



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 Email: info@dairylandlabs.com

Report Date: 5/13/2021
 Sample No.: 003-2105-285335

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

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

Product: 5039

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

Moisture 16.60%
 Dry Matter 83.40%

Mixed hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	15.16	19.89	13.73 - 23.91
AD-ICP	%DM	2.14	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.72	2.95	1.47 - 4.24
Protein Sol.	%CP	13.85	36.28	26.07 - 46.05
ADF	%DM	46.07	32.66	25.78 - 41.61
aNDF	%DM	66.26	41.14	32.31 - 55.58
aNDFom	%DM	62.73	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.50	7.24	5.44 - 9.38
Lignin	%NDFom	13.55		
NDFD 30	%NDFom	41.43	41.30	32.13 - 54.72
NDFD240	%NDFom	61.34	53.49	43.03 - 70.69
uNDFom30	%DM	36.74	22.07	16.37 - 29.65
uNDFom240	%DM	24.25	19.32	12.22 - 28.78
Starch	%DM	1.54	2.03	0.29 - 3.75
Fat (EE)	%DM	1.67	2.53	1.88 - 3.44
TFA (fat)	%DM	0.38	1.38	0.87 - 2.47
Ash	%DM	10.53	10.98	8.88 - 13.76
Calcium	%DM	0.80	1.47	0.93 - 1.81
Phosphorus	%DM	0.29	0.31	0.24 - 0.39
Magnesium	%DM	0.21	0.31	0.23 - 0.40
Potassium	%DM	1.52	2.58	1.76 - 3.37
Sulfur	%DM	0.21	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.50	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.10	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	14.16
NFC	%DM	15.92
NSC	%DM	4.64
RFV		74.38
RFQ		62.77
NDF kd rate Van Amb	%/hr	2.82
NDF kd rate MIR_P1	%/hr	3.81



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Report Date: 5/13/2021
 Sample No.: 003-2105-285336

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

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

Product: 5040

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

Moisture 20.96%
 Dry Matter 79.04%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	14.82	19.89	13.73 - 23.91
AD-ICP	%DM	2.12	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	5.85	2.95	1.47 - 4.24
Protein Sol.	%CP	12.62	36.28	26.07 - 46.05
ADF	%DM	46.29	32.66	25.78 - 41.61
aNDF	%DM	68.34	41.14	32.31 - 55.58
aNDFom	%DM	63.86	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	8.07	7.24	5.44 - 9.38
Lignin	%NDFom	12.64		
NDFD 30	%NDFom	42.78	41.30	32.13 - 54.72
NDFD240	%NDFom	63.95	53.49	43.03 - 70.69
uNDFom30	%DM	36.54	22.07	16.37 - 29.65
uNDFom240	%DM	23.02	19.32	12.22 - 28.78
Starch	%DM	1.35	2.03	0.29 - 3.75
Fat (EE)	%DM	1.48	2.53	1.88 - 3.44
TFA (fat)	%DM	0.27	1.38	0.87 - 2.47
Ash	%DM	11.21	10.98	8.88 - 13.76
Calcium	%DM	0.71	1.47	0.93 - 1.81
Phosphorus	%DM	0.27	0.31	0.24 - 0.39
Magnesium	%DM	0.22	0.31	0.23 - 0.40
Potassium	%DM	1.06	2.58	1.76 - 3.37
Sulfur	%DM	0.21	0.25	0.16 - 0.33
Sugar (ESC)	%DM	2.50	6.35	3.04 - 9.57
Sugar (WSC)	%DM	3.36	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	13.80
NFC	%DM	14.69
NSC	%DM	4.71
RFV		72.09
RFQ		60.61
NDF kd rate Van Amb	%/hr	2.84
NDF kd rate MIR_P1	%/hr	3.75