



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290657

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

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

Product: 6475

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

Moisture 14.35%
 Dry Matter 85.65%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	8.32	9.38	4.95 - 16.48
AD-ICP	%DM	0.91	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	1.86	3.31	1.29 - 4.68
Protein Sol.	%CP	43.27	26.07	8.61 - 48.90
ADF	%DM	44.89	40.44	31.75 - 50.23
aNDF	%DM	67.67	60.92	48.19 - 72.71
aNDFom	%DM	65.49	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.78	6.52	3.94 - 9.40
Lignin	%NDFom	8.83		
NDFD 30	%NDFom	43.09	49.20	36.20 - 65.52
NDFD240	%NDFom	59.18	66.50	52.42 - 80.59
uNDFom30	%DM	37.27	28.34	14.70 - 40.90
uNDFom240	%DM	26.73	19.99	10.26 - 30.38
Starch	%DM	4.80	1.81	0.25 - 7.32
Fat (EE)	%DM	2.30	2.57	1.58 - 3.71
TFA (fat)	%DM	0.75	1.19	0.49 - 2.17
Ash	%DM	10.25	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	0.23	0.20	0.12 - 0.33
Potassium	%DM	1.49	1.82	0.69 - 3.03
Sulfur	%DM	0.22	0.14	0.07 - 0.25
Sugar (ESC)	%DM	5.20	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.66	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.20
NFC	%DM	16.05
NSC	%DM	11.46
RFV		74.00
RFQ		81.67
NDF kd rate Van Amb	%/hr	2.49
NDF kd rate MIR_P1	%/hr	4.41



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Report Date: 5/25/2021
 Sample No.: 003-2105-290658

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

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

Product: 6478

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

Moisture 14.58%
 Dry Matter 85.42%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	7.69	9.38	4.95 - 16.48
AD-ICP	%DM	1.02	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.37	3.31	1.29 - 4.68
Protein Sol.	%CP	37.71	26.07	8.61 - 48.90
ADF	%DM	46.32	40.44	31.75 - 50.23
aNDF	%DM	69.89	60.92	48.19 - 72.71
aNDFom	%DM	67.54	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.11	6.52	3.94 - 9.40
Lignin	%NDFom	9.05		
NDFD 30	%NDFom	40.18	49.20	36.20 - 65.52
NDFD240	%NDFom	57.30	66.50	52.42 - 80.59
uNDFom30	%DM	40.40	28.34	14.70 - 40.90
uNDFom240	%DM	28.84	19.99	10.26 - 30.38
Starch	%DM	5.31	1.81	0.25 - 7.32
Fat (EE)	%DM	1.75	2.57	1.58 - 3.71
TFA (fat)	%DM	0.49	1.19	0.49 - 2.17
Ash	%DM	9.96	9.35	6.12 - 13.03
Calcium	%DM	0.25	0.61	0.25 - 1.15
Phosphorus	%DM	0.20	0.22	0.11 - 0.35
Magnesium	%DM	0.17	0.20	0.12 - 0.33
Potassium	%DM	1.41	1.82	0.69 - 3.03
Sulfur	%DM	0.21	0.14	0.07 - 0.25
Sugar (ESC)	%DM	3.83	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.63	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	7.29
NFC	%DM	15.69
NSC	%DM	11.94
RFV		70.43
RFQ		73.14
NDF kd rate Van Amb	%/hr	2.27
NDF kd rate MIR_P1	%/hr	4.10



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Report Date: 5/25/2021
 Sample No.: 003-2105-290663

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

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

Product: ~~6489~~ 6479

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

Moisture 13.49%
 Dry Matter 86.51%

Mixed grass hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	8.12	9.38	4.95 - 16.48
AD-ICP	%DM	0.89	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.26	3.31	1.29 - 4.68
Protein Sol.	%CP	38.30	26.07	8.61 - 48.90
ADF	%DM	44.61	40.44	31.75 - 50.23
aNDF	%DM	65.93	60.92	48.19 - 72.71
aNDFom	%DM	63.42	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.85	6.52	3.94 - 9.40
Lignin	%NDFom	9.22		
NDFD 30	%NDFom	41.06	49.20	36.20 - 65.52
NDFD240	%NDFom	58.70	66.50	52.42 - 80.59
uNDFom30	%DM	37.38	28.34	14.70 - 40.90
uNDFom240	%DM	26.19	19.99	10.26 - 30.38
Starch	%DM	3.43	1.81	0.25 - 7.32
Fat (EE)	%DM	1.98	2.57	1.58 - 3.71
TFA (fat)	%DM	0.70	1.19	0.49 - 2.17
Ash	%DM	10.24	9.35	6.12 - 13.03
Calcium	%DM	0.29	0.61	0.25 - 1.15
Phosphorus	%DM	0.20	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	1.82	1.82	0.69 - 3.03
Sulfur	%DM	0.23	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.46	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.51	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.00
NFC	%DM	18.78
NSC	%DM	11.94
RFV		76.40
RFQ		82.64
NDF kd rate Van Amb	%/hr	2.36
NDF kd rate MIR_P1	%/hr	4.07



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Report Date: 5/25/2021
 Sample No.: 003-2105-290661

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

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

Product: 6485 *64/80*

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

Moisture 12.73%
 Dry Matter 87.27%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	6.85	9.38	4.95 - 16.48
AD-ICP	%DM	0.88	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.78	3.31	1.29 - 4.68
Protein Sol.	%CP	39.12	26.07	8.61 - 48.90
ADF	%DM	46.10	40.44	31.75 - 50.23
aNDF	%DM	68.98	60.92	48.19 - 72.71
aNDFom	%DM	65.84	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.51	6.52	3.94 - 9.40
Lignin	%NDFom	8.37		
NDFD 30	%NDFom	50.30	49.20	36.20 - 65.52
NDFD240	%NDFom	66.66	66.50	52.42 - 80.59
uNDFom30	%DM	32.72	28.34	14.70 - 40.90
uNDFom240	%DM	21.95	19.99	10.26 - 30.38
Starch	%DM	2.45	1.81	0.25 - 7.32
Fat (EE)	%DM	1.82	2.57	1.58 - 3.71
TFA (fat)	%DM	0.62	1.19	0.49 - 2.17
Ash	%DM	10.32	9.35	6.12 - 13.03
Calcium	%DM	0.26	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	2.22	1.82	0.69 - 3.03
Sulfur	%DM	0.17	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.27	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.00	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	6.54
NFC	%DM	18.15
NSC	%DM	10.45
RFV		71.47
RFQ		88.33
NDF kd rate Van Amb	%/hr	3.07
NDF kd rate MIR_P1	%/hr	4.76



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Report Date: 5/25/2021
 Sample No.: 003-2105-290660

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

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

Product: 6482 6481

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	12.94	9.38	4.95 - 16.48
AD-ICP	%DM	1.52	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.00	3.31	1.29 - 4.68
Protein Sol.	%CP	31.99	26.07	8.61 - 48.90
ADF	%DM	40.20	40.44	31.75 - 50.23
aNDF	%DM	55.24	60.92	48.19 - 72.71
aNDFom	%DM	52.60	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.48	6.52	3.94 - 9.40
Lignin	%NDFom	12.32		
NDFD 30	%NDFom	47.24	49.20	36.20 - 65.52
NDFD240	%NDFom	61.01	66.50	52.42 - 80.59
uNDFom30	%DM	27.75	28.34	14.70 - 40.90
uNDFom240	%DM	20.51	19.99	10.26 - 30.38
Starch	%DM	0.93	1.81	0.25 - 7.32
Fat (EE)	%DM	2.37	2.57	1.58 - 3.71
TFA (fat)	%DM	0.86	1.19	0.49 - 2.17
Ash	%DM	8.44	9.35	6.12 - 13.03
Calcium	%DM	0.81	0.61	0.25 - 1.15
Phosphorus	%DM	0.26	0.22	0.11 - 0.35
Magnesium	%DM	0.25	0.20	0.12 - 0.33
Potassium	%DM	1.90	1.82	0.69 - 3.03
Sulfur	%DM	0.13	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.61	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.88	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	12.58
NFC	%DM	28.16
NSC	%DM	9.81
RFV		96.86
RFQ		125.88
NDF kd rate Van Amb	%/hr	3.30
NDF kd rate MIR_P1	%/hr	5.05



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 Sample No.: 003-2105-290660

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

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

Product: 6482

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	12.94	9.38	4.95 - 16.48
AD-ICP	%DM	1.52	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.00	3.31	1.29 - 4.68
Protein Sol.	%CP	31.99	26.07	8.61 - 48.90
ADF	%DM	40.20	40.44	31.75 - 50.23
aNDF	%DM	55.24	60.92	48.19 - 72.71
aNDFom	%DM	52.60	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.48	6.52	3.94 - 9.40
Lignin	%NDFom	12.32		
NDFD 30	%NDFom	47.24	49.20	36.20 - 65.52
NDFD240	%NDFom	61.01	66.50	52.42 - 80.59
uNDFom30	%DM	27.75	28.34	14.70 - 40.90
uNDFom240	%DM	20.51	19.99	10.26 - 30.38
Starch	%DM	0.93	1.81	0.25 - 7.32
Fat (EE)	%DM	2.37	2.57	1.58 - 3.71
TFA (fat)	%DM	0.86	1.19	0.49 - 2.17
Ash	%DM	8.44	9.35	6.12 - 13.03
Calcium	%DM	0.81	0.61	0.25 - 1.15
Phosphorus	%DM	0.26	0.22	0.11 - 0.35
Magnesium	%DM	0.25	0.20	0.12 - 0.33
Potassium	%DM	1.90	1.82	0.69 - 3.03
Sulfur	%DM	0.13	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.61	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.88	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	12.58
NFC	%DM	28.16
NSC	%DM	9.81
RFV		96.86
RFQ		125.88
NDF kd rate Van Amb	%/hr	3.30
NDF kd rate MIR_P1	%/hr	5.05





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 Sample No.: 003-2105-290661

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

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

Product: 6485 *6485*

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

Moisture 12.73%
 Dry Matter 87.27%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	6.85	9.38	4.95 - 16.48
AD-ICP	%DM	0.88	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.78	3.31	1.29 - 4.68
Protein Sol.	%CP	39.12	26.07	8.61 - 48.90
ADF	%DM	46.10	40.44	31.75 - 50.23
aNDF	%DM	68.98	60.92	48.19 - 72.71
aNDFom	%DM	65.84	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.51	6.52	3.94 - 9.40
Lignin	%NDFom	8.37		
NDFD 30	%NDFom	50.30	49.20	36.20 - 65.52
NDFD240	%NDFom	66.66	66.50	52.42 - 80.59
uNDFom30	%DM	32.72	28.34	14.70 - 40.90
uNDFom240	%DM	21.95	19.99	10.26 - 30.38
Starch	%DM	2.45	1.81	0.25 - 7.32
Fat (EE)	%DM	1.82	2.57	1.58 - 3.71
TFA (fat)	%DM	0.62	1.19	0.49 - 2.17
Ash	%DM	10.32	9.35	6.12 - 13.03
Calcium	%DM	0.26	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	2.22	1.82	0.69 - 3.03
Sulfur	%DM	0.17	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.27	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.00	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	6.54
NFC	%DM	18.15
NSC	%DM	10.45
RFV		71.47
RFQ		88.33
NDF kd rate Van Amb	%/hr	3.07
NDF kd rate MIR_P1	%/hr	4.76



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 24400 MN Hwy 22 South
 Litchfield, MN 55355

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

Product: 6485

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

Moisture 12.73%
 Dry Matter 87.27%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	6.85	9.38	4.95 - 16.48
AD-ICP	%DM	0.88	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.78	3.31	1.29 - 4.68
Protein Sol.	%CP	39.12	26.07	8.61 - 48.90
ADF	%DM	46.10	40.44	31.75 - 50.23
aNDF	%DM	68.98	60.92	48.19 - 72.71
aNDFom	%DM	65.84	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.51	6.52	3.94 - 9.40
Lignin	%NDFom	8.37		
NDFD 30	%NDFom	50.30	49.20	36.20 - 65.52
NDFD240	%NDFom	66.66	66.50	52.42 - 80.59
uNDFom30	%DM	32.72	28.34	14.70 - 40.90
uNDFom240	%DM	21.95	19.99	10.26 - 30.38
Starch	%DM	2.45	1.81	0.25 - 7.32
Fat (EE)	%DM	1.82	2.57	1.58 - 3.71
TFA (fat)	%DM	0.62	1.19	0.49 - 2.17
Ash	%DM	10.32	9.35	6.12 - 13.03
Calcium	%DM	0.26	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	2.22	1.82	0.69 - 3.03
Sulfur	%DM	0.17	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.27	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.00	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	6.54
NFC	%DM	18.15
NSC	%DM	10.45
RFV		71.47
RFQ		88.33
NDF kd rate Van Amb	%/hr	3.07
NDF kd rate MIR_P1	%/hr	4.76





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 Sample No.: 003-2105-290662

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

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

Product: 6488

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	13.01	9.38	4.95 - 16.48
AD-ICP	%DM	1.03	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.03	3.31	1.29 - 4.68
Protein Sol.	%CP	26.29	26.07	8.61 - 48.90
ADF	%DM	36.85	40.44	31.75 - 50.23
aNDF	%DM	56.48	60.92	48.19 - 72.71
aNDFom	%DM	54.85	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.82	6.52	3.94 - 9.40
Lignin	%NDFom	8.79		
NDFD 30	%NDFom	51.49	49.20	36.20 - 65.52
NDFD240	%NDFom	68.22	66.50	52.42 - 80.59
uNDFom30	%DM	26.61	28.34	14.70 - 40.90
uNDFom240	%DM	17.43	19.99	10.26 - 30.38
Starch	%DM	1.56	1.81	0.25 - 7.32
Fat (EE)	%DM	2.48	2.57	1.58 - 3.71
TFA (fat)	%DM	1.02	1.19	0.49 - 2.17
Ash	%DM	7.94	9.35	6.12 - 13.03
Calcium	%DM	0.55	0.61	0.25 - 1.15
Phosphorus	%DM	0.26	0.22	0.11 - 0.35
Magnesium	%DM	0.23	0.20	0.12 - 0.33
Potassium	%DM	1.37	1.82	0.69 - 3.03
Sulfur	%DM	0.17	0.14	0.07 - 0.25
Sugar (ESC)	%DM	9.63	6.34	2.16 - 10.37
Sugar (WSC)	%DM	10.55	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	13.01
NFC	%DM	26.21
NSC	%DM	12.11
RFV		98.92
RFQ		135.25
NDF kd rate Van Amb	%/hr	3.21
NDF kd rate MIR_P1	%/hr	4.76





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

Report Date: 5/25/2021
 Sample No.: 003-2105-290663

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

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

Product: 6489

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

Moisture 13.49%
 Dry Matter 86.51%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	8.12	9.38	4.95 - 16.48
AD-ICP	%DM	0.89	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.26	3.31	1.29 - 4.68
Protein Sol.	%CP	38.30	26.07	8.61 - 48.90
ADF	%DM	44.61	40.44	31.75 - 50.23
aNDF	%DM	65.93	60.92	48.19 - 72.71
aNDFom	%DM	63.42	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.85	6.52	3.94 - 9.40
Lignin	%NDFom	9.22		
NDFD 30	%NDFom	41.06	49.20	36.20 - 65.52
NDFD240	%NDFom	58.70	66.50	52.42 - 80.59
uNDFom30	%DM	37.38	28.34	14.70 - 40.90
uNDFom240	%DM	26.19	19.99	10.26 - 30.38
Starch	%DM	3.43	1.81	0.25 - 7.32
Fat (EE)	%DM	1.98	2.57	1.58 - 3.71
TFA (fat)	%DM	0.70	1.19	0.49 - 2.17
Ash	%DM	10.24	9.35	6.12 - 13.03
Calcium	%DM	0.29	0.61	0.25 - 1.15
Phosphorus	%DM	0.20	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	1.82	1.82	0.69 - 3.03
Sulfur	%DM	0.23	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.46	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.51	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.00
NFC	%DM	18.78
NSC	%DM	11.94
RFV		76.40
RFQ		82.64
NDF kd rate Van Amb	%/hr	2.36
NDF kd rate MIR_P1	%/hr	4.07



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 Telephone: 320-240-1737
 Fax: 320-240-1838
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Report Date: 5/25/2021
 Sample No.: 003-2105-290663

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

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

Product: 6489 *6490*

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

Moisture 13.49%
 Dry Matter 86.51%

Mixed grass hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	8.12	9.38	4.95 - 16.48
AD-ICP	%DM	0.89	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.26	3.31	1.29 - 4.68
Protein Sol.	%CP	38.30	26.07	8.61 - 48.90
ADF	%DM	44.61	40.44	31.75 - 50.23
aNDF	%DM	65.93	60.92	48.19 - 72.71
aNDFom	%DM	63.42	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.85	6.52	3.94 - 9.40
Lignin	%NDFom	9.22		
NDFD 30	%NDFom	41.06	49.20	36.20 - 65.52
NDFD240	%NDFom	58.70	66.50	52.42 - 80.59
uNDFom30	%DM	37.38	28.34	14.70 - 40.90
uNDFom240	%DM	26.19	19.99	10.26 - 30.38
Starch	%DM	3.43	1.81	0.25 - 7.32
Fat (EE)	%DM	1.98	2.57	1.58 - 3.71
TFA (fat)	%DM	0.70	1.19	0.49 - 2.17
Ash	%DM	10.24	9.35	6.12 - 13.03
Calcium	%DM	0.29	0.61	0.25 - 1.15
Phosphorus	%DM	0.20	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	1.82	1.82	0.69 - 3.03
Sulfur	%DM	0.23	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.46	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.51	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.00
NFC	%DM	18.78
NSC	%DM	11.94
RFV		76.40
RFQ		82.64
NDF kd rate Van Amb	%/hr	2.36
NDF kd rate MIR_P1	%/hr	4.07





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 Sauk Rapids, MN 56379
 Telephone: 320-240-1737
 Fax: 320-240-1838
 Email: info@dairylandlabs.com

Report Date: 5/25/2021
 Sample No.: 003-2105-290664

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

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

Product: 6491

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

Moisture 20.47%
 Dry Matter 79.53%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.81	20.20	15.38 - 23.97
AD-ICP	%DM	1.94	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.52	2.89	1.63 - 4.06
Protein Sol.	%CP	32.10	37.11	27.47 - 47.14
ADF	%DM	38.68	32.35	25.50 - 41.78
aNDF	%DM	51.07	40.02	31.89 - 51.84
aNDFom	%DM	47.62	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.44	7.42	5.84 - 9.64
Lignin	%NDFom	15.62		
NDFD 30	%NDFom	47.88	39.57	31.30 - 48.12
NDFD240	%NDFom	53.99	51.00	41.46 - 61.86
uNDFom30	%DM	24.82	22.24	16.48 - 29.48
uNDFom240	%DM	21.91	19.65	12.95 - 27.75
Starch	%DM	1.19	1.88	0.28 - 3.74
Fat (EE)	%DM	2.71	2.41	1.77 - 3.35
TFA (fat)	%DM	1.00	1.29	0.81 - 2.33
Ash	%DM	12.85	11.16	9.15 - 13.82
Calcium	%DM	1.00	1.54	1.19 - 1.84
Phosphorus	%DM	0.43	0.31	0.23 - 0.39
Magnesium	%DM	0.30	0.32	0.25 - 0.41
Potassium	%DM	2.37	2.62	1.83 - 3.36
Sulfur	%DM	0.26	0.25	0.17 - 0.33
Sugar (ESC)	%DM	3.12	6.03	2.71 - 9.16
Sugar (WSC)	%DM	3.90	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	20.81
NFC	%DM	21.24
NSC	%DM	5.09
RFV		107.06
RFQ		110.73
NDF kd rate Van Amb	%/hr	3.99
NDF kd rate MIR_P1	%/hr	7.39



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 Sauk Rapids, MN 56379
 Telephone: 320-240-1737
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Report Date: 5/25/2021
 Sample No.: 003-2105-290665

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

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

Product: 6492

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

Moisture 13.99%
 Dry Matter 86.01%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.89	20.20	15.38 - 23.97
AD-ICP	%DM	1.75	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.95	2.89	1.63 - 4.06
Protein Sol.	%CP	32.65	37.11	27.47 - 47.14
ADF	%DM	32.85	32.35	25.50 - 41.78
aNDF	%DM	41.42	40.02	31.89 - 51.84
aNDFom	%DM	39.17	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.33	7.42	5.84 - 9.64
Lignin	%NDFom	18.71		
NDFD 30	%NDFom	34.01	39.57	31.30 - 48.12
NDFD240	%NDFom	40.52	51.00	41.46 - 61.86
uNDFom30	%DM	25.85	22.24	16.48 - 29.48
uNDFom240	%DM	23.30	19.65	12.95 - 27.75
Starch	%DM	3.23	1.88	0.28 - 3.74
Fat (EE)	%DM	2.29	2.41	1.77 - 3.35
TFA (fat)	%DM	1.10	1.29	0.81 - 2.33
Ash	%DM	10.62	11.16	9.15 - 13.82
Calcium	%DM	1.36	1.54	1.19 - 1.84
Phosphorus	%DM	0.32	0.31	0.23 - 0.39
Magnesium	%DM	0.33	0.32	0.25 - 0.41
Potassium	%DM	1.84	2.62	1.83 - 3.36
Sulfur	%DM	0.25	0.25	0.17 - 0.33
Sugar (ESC)	%DM	6.44	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.11	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	20.89
NFC	%DM	31.17
NSC	%DM	10.34
RFV		142.32
RFQ		121.82
NDF kd rate Van Amb	%/hr	2.71
NDF kd rate MIR_P1	%/hr	6.20





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 Telephone: 320-240-1737
 Fax: 320-240-1838
 Email: info@dairylandlabs.com

Report Date: 5/25/2021
 Sample No.: 003-2105-290666

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

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

Product: 6493

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

Moisture 14.80%
 Dry Matter 85.20%

Alfalfa hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	23.43	20.20	15.38 - 23.97
AD-ICP	%DM	1.89	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.54	2.89	1.63 - 4.06
Protein Sol.	%CP	41.23	37.11	27.47 - 47.14
ADF	%DM	33.81	32.35	25.50 - 41.78
aNDF	%DM	41.05	40.02	31.89 - 51.84
aNDFom	%DM	39.66	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.41	7.42	5.84 - 9.64
Lignin	%NDFom	18.68		
NDFD 30	%NDFom	40.54	39.57	31.30 - 48.12
NDFD240	%NDFom	45.71	51.00	41.46 - 61.86
uNDFom30	%DM	23.58	22.24	16.48 - 29.48
uNDFom240	%DM	21.53	19.65	12.95 - 27.75
Starch	%DM	0.78	1.88	0.28 - 3.74
Fat (EE)	%DM	2.43	2.41	1.77 - 3.35
TFA (fat)	%DM	1.10	1.29	0.81 - 2.33
Ash	%DM	11.14	11.16	9.15 - 13.82
Calcium	%DM	1.37	1.54	1.19 - 1.84
Phosphorus	%DM	0.37	0.31	0.23 - 0.39
Magnesium	%DM	0.34	0.32	0.25 - 0.41
Potassium	%DM	2.36	2.62	1.83 - 3.36
Sulfur	%DM	0.26	0.25	0.17 - 0.33
Sugar (ESC)	%DM	4.20	6.03	2.71 - 9.16
Sugar (WSC)	%DM	4.73	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	23.43
NFC	%DM	28.21
NSC	%DM	5.51
RFV		141.61
RFQ		136.46
NDF kd rate Van Amb	%/hr	3.53
NDF kd rate MIR_P1	%/hr	7.39



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 Sauk Rapids, MN 56379
 Telephone: 320-240-1737
 Fax: 320-240-1838
 Email: info@dairylandlabs.com

Report Date: 5/25/2021
 Sample No.: 003-2105-290667

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

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

Product: 6494

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

Moisture 15.74%
 Dry Matter 84.26%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	11.65	9.38	4.95 - 16.48
AD-ICP	%DM	1.14	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.54	3.31	1.29 - 4.68
Protein Sol.	%CP	35.11	26.07	8.61 - 48.90
ADF	%DM	39.27	40.44	31.75 - 50.23
aNDF	%DM	58.12	60.92	48.19 - 72.71
aNDFom	%DM	55.55	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.28	6.52	3.94 - 9.40
Lignin	%NDFom	9.50		
NDFD 30	%NDFom	54.33	49.20	36.20 - 65.52
NDFD240	%NDFom	68.60	66.50	52.42 - 80.59
uNDFom30	%DM	25.37	28.34	14.70 - 40.90
uNDFom240	%DM	17.44	19.99	10.26 - 30.38
Starch	%DM	1.34	1.81	0.25 - 7.32
Fat (EE)	%DM	2.77	2.57	1.58 - 3.71
TFA (fat)	%DM	0.94	1.19	0.49 - 2.17
Ash	%DM	9.45	9.35	6.12 - 13.03
Calcium	%DM	0.64	0.61	0.25 - 1.15
Phosphorus	%DM	0.29	0.22	0.11 - 0.35
Magnesium	%DM	0.22	0.20	0.12 - 0.33
Potassium	%DM	2.01	1.82	0.69 - 3.03
Sulfur	%DM	0.13	0.14	0.07 - 0.25
Sugar (ESC)	%DM	7.23	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.20	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	11.65
NFC	%DM	24.95
NSC	%DM	10.54
RFV		93.12
RFQ		130.20
NDF kd rate Van Amb	%/hr	3.64
NDF kd rate MIR_P1	%/hr	5.32



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 Sauk Rapids, MN 56379
 Telephone: 320-240-1737
 Fax: 320-240-1838
 Email: info@dairylandlabs.com

Report Date: 5/25/2021
 Sample No.: 003-2105-290668

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

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

Product: 6495

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

Moisture 16.83%
 Dry Matter 83.17%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	15.92	20.20	15.38 - 23.97
AD-ICP	%DM	2.18	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.56	2.89	1.63 - 4.06
Protein Sol.	%CP	35.36	37.11	27.47 - 47.14
ADF	%DM	44.72	32.35	25.50 - 41.78
aNDF	%DM	54.06	40.02	31.89 - 51.84
aNDFom	%DM	50.95	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	9.60	7.42	5.84 - 9.64
Lignin	%NDFom	18.84		
NDFD 30	%NDFom	37.94	39.57	31.30 - 48.12
NDFD240	%NDFom	44.61	51.00	41.46 - 61.86
uNDFom30	%DM	31.62	22.24	16.48 - 29.48
uNDFom240	%DM	28.22	19.65	12.95 - 27.75
Starch	%DM	0.84	1.88	0.28 - 3.74
Fat (EE)	%DM	2.04	2.41	1.77 - 3.35
TFA (fat)	%DM	0.79	1.29	0.81 - 2.33
Ash	%DM	10.92	11.16	9.15 - 13.82
Calcium	%DM	1.15	1.54	1.19 - 1.84
Phosphorus	%DM	0.34	0.31	0.23 - 0.39
Magnesium	%DM	0.29	0.32	0.25 - 0.41
Potassium	%DM	2.14	2.62	1.83 - 3.36
Sulfur	%DM	0.14	0.25	0.17 - 0.33
Sugar (ESC)	%DM	3.41	6.03	2.71 - 9.16
Sugar (WSC)	%DM	4.78	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	14.98
NFC	%DM	24.98
NSC	%DM	5.62
RFV		93.03
RFQ		85.33
NDF kd rate Van Amb	%/hr	3.27
NDF kd rate MIR_P1	%/hr	6.44



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 Sauk Rapids, MN 56379
 Telephone: 320-240-1737
 Fax: 320-240-1838
 Email: info@dairylandlabs.com

Report Date: 5/25/2021
 Sample No.: 003-2105-290669

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

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

Product: 6496

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

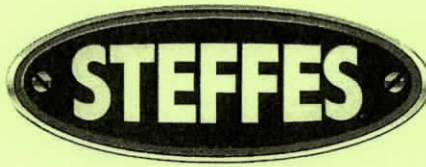
Moisture 15.30%
 Dry Matter 84.70%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	12.32	9.38	4.95 - 16.48
AD-ICP	%DM	1.10	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.30	3.31	1.29 - 4.68
Protein Sol.	%CP	36.04	26.07	8.61 - 48.90
ADF	%DM	40.59	40.44	31.75 - 50.23
aNDF	%DM	59.54	60.92	48.19 - 72.71
aNDFom	%DM	56.61	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.86	6.52	3.94 - 9.40
Lignin	%NDFom	8.59		
NDFD 30	%NDFom	50.70	49.20	36.20 - 65.52
NDFD240	%NDFom	66.33	66.50	52.42 - 80.59
uNDFom30	%DM	27.91	28.34	14.70 - 40.90
uNDFom240	%DM	19.06	19.99	10.26 - 30.38
Starch	%DM	3.84	1.81	0.25 - 7.32
Fat (EE)	%DM	3.01	2.57	1.58 - 3.71
TFA (fat)	%DM	1.23	1.19	0.49 - 2.17
Ash	%DM	10.83	9.35	6.12 - 13.03
Calcium	%DM	0.23	0.61	0.25 - 1.15
Phosphorus	%DM	0.33	0.22	0.11 - 0.35
Magnesium	%DM	0.13	0.20	0.12 - 0.33
Potassium	%DM	2.51	1.82	0.69 - 3.03
Sulfur	%DM	0.17	0.14	0.07 - 0.25
Sugar (ESC)	%DM	4.61	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.11	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	12.32
NFC	%DM	21.31
NSC	%DM	9.95
RFV		89.69
RFQ		115.97
NDF kd rate Van Amb	%/hr	3.12
NDF kd rate MIR_P1	%/hr	4.90



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290670

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

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

Product: 6498

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

Moisture 14.79%
 Dry Matter 85.21%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	13.09	9.38	4.95 - 16.48
AD-ICP	%DM	1.09	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.08	3.31	1.29 - 4.68
Protein Sol.	%CP	26.51	26.07	8.61 - 48.90
ADF	%DM	38.91	40.44	31.75 - 50.23
aNDF	%DM	61.29	60.92	48.19 - 72.71
aNDFom	%DM	58.63	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.44	6.52	3.94 - 9.40
Lignin	%NDFom	7.57		
NDFD 30	%NDFom	52.29	49.20	36.20 - 65.52
NDFD240	%NDFom	70.68	66.50	52.42 - 80.59
uNDFom30	%DM	27.97	28.34	14.70 - 40.90
uNDFom240	%DM	17.19	19.99	10.26 - 30.38
Starch	%DM	0.71	1.81	0.25 - 7.32
Fat (EE)	%DM	2.71	2.57	1.58 - 3.71
TFA (fat)	%DM	0.98	1.19	0.49 - 2.17
Ash	%DM	10.86	9.35	6.12 - 13.03
Calcium	%DM	0.29	0.61	0.25 - 1.15
Phosphorus	%DM	0.30	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	1.82	1.82	0.69 - 3.03
Sulfur	%DM	0.21	0.14	0.07 - 0.25
Sugar (ESC)	%DM	5.91	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.87	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	13.09
NFC	%DM	19.52
NSC	%DM	8.58
RFV		89.02
RFQ		116.97
NDF kd rate Van Amb	%/hr	3.12
NDF kd rate MIR_P1	%/hr	4.56



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290671

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

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

Product: 6499

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

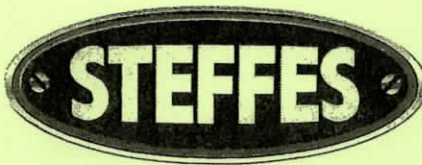
Moisture 16.44%
 Dry Matter 83.56%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	9.33	9.38	4.95 - 16.48
AD-ICP	%DM	1.32	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.58	3.31	1.29 - 4.68
Protein Sol.	%CP	22.72	26.07	8.61 - 48.90
ADF	%DM	41.52	40.44	31.75 - 50.23
aNDF	%DM	65.39	60.92	48.19 - 72.71
aNDFom	%DM	62.84	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.50	6.52	3.94 - 9.40
Lignin	%NDFom	8.75		
NDFD 30	%NDFom	48.25	49.20	36.20 - 65.52
NDFD240	%NDFom	68.44	66.50	52.42 - 80.59
uNDFom30	%DM	32.52	28.34	14.70 - 40.90
uNDFom240	%DM	19.83	19.99	10.26 - 30.38
Starch	%DM	2.00	1.81	0.25 - 7.32
Fat (EE)	%DM	2.77	2.57	1.58 - 3.71
TFA (fat)	%DM	0.98	1.19	0.49 - 2.17
Ash	%DM	8.77	9.35	6.12 - 13.03
Calcium	%DM	0.36	0.61	0.25 - 1.15
Phosphorus	%DM	0.21	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	0.91	1.82	0.69 - 3.03
Sulfur	%DM	0.12	0.14	0.07 - 0.25
Sugar (ESC)	%DM	7.24	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.72	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.71
NFC	%DM	21.66
NSC	%DM	11.72
RFV		80.67
RFQ		109.27
NDF kd rate Van Amb	%/hr	2.89
NDF kd rate MIR_P1	%/hr	4.14



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290671

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

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

Product: 6499 *WS00*

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

Moisture 16.44%
 Dry Matter 83.56%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	9.33	9.38	4.95 - 16.48
AD-ICP	%DM	1.32	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.58	3.31	1.29 - 4.68
Protein Sol.	%CP	22.72	26.07	8.61 - 48.90
ADF	%DM	41.52	40.44	31.75 - 50.23
aNDF	%DM	65.39	60.92	48.19 - 72.71
aNDFom	%DM	62.84	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.50	6.52	3.94 - 9.40
Lignin	%NDFom	8.75		
NDFD 30	%NDFom	48.25	49.20	36.20 - 65.52
NDFD240	%NDFom	68.44	66.50	52.42 - 80.59
uNDFom30	%DM	32.52	28.34	14.70 - 40.90
uNDFom240	%DM	19.83	19.99	10.26 - 30.38
Starch	%DM	2.00	1.81	0.25 - 7.32
Fat (EE)	%DM	2.77	2.57	1.58 - 3.71
TFA (fat)	%DM	0.98	1.19	0.49 - 2.17
Ash	%DM	8.77	9.35	6.12 - 13.03
Calcium	%DM	0.36	0.61	0.25 - 1.15
Phosphorus	%DM	0.21	0.22	0.11 - 0.35
Magnesium	%DM	0.18	0.20	0.12 - 0.33
Potassium	%DM	0.91	1.82	0.69 - 3.03
Sulfur	%DM	0.12	0.14	0.07 - 0.25
Sugar (ESC)	%DM	7.24	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.72	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.71
NFC	%DM	21.66
NSC	%DM	11.72
RFV		80.67
RFQ		109.27
NDF kd rate Van Amb	%/hr	2.89
NDF kd rate MIR_P1	%/hr	4.14



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290672

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

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

Product: 6501

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

Moisture 14.25%
 Dry Matter 85.75%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	9.61	9.38	4.95 - 16.48
AD-ICP	%DM	1.40	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.68	3.31	1.29 - 4.68
Protein Sol.	%CP	24.66	26.07	8.61 - 48.90
ADF	%DM	41.95	40.44	31.75 - 50.23
aNDF	%DM	64.79	60.92	48.19 - 72.71
aNDFom	%DM	62.45	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.72	6.52	3.94 - 9.40
Lignin	%NDFom	9.16		
NDFD 30	%NDFom	47.48	49.20	36.20 - 65.52
NDFD240	%NDFom	66.58	66.50	52.42 - 80.59
uNDFom30	%DM	32.80	28.34	14.70 - 40.90
uNDFom240	%DM	20.87	19.99	10.26 - 30.38
Starch	%DM	1.39	1.81	0.25 - 7.32
Fat (EE)	%DM	2.59	2.57	1.58 - 3.71
TFA (fat)	%DM	0.87	1.19	0.49 - 2.17
Ash	%DM	9.18	9.35	6.12 - 13.03
Calcium	%DM	0.57	0.61	0.25 - 1.15
Phosphorus	%DM	0.19	0.22	0.11 - 0.35
Magnesium	%DM	0.17	0.20	0.12 - 0.33
Potassium	%DM	1.08	1.82	0.69 - 3.03
Sulfur	%DM	0.11	0.14	0.07 - 0.25
Sugar (ESC)	%DM	6.93	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.00	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.91
NFC	%DM	21.57
NSC	%DM	10.39
RFV		80.63
RFQ		105.90
NDF kd rate Van Amb	%/hr	2.87
NDF kd rate MIR_P1	%/hr	4.23



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290673

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

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

Product: 6502

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

Moisture 15.11%
 Dry Matter 84.89%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	12.58	9.38	4.95 - 16.48
AD-ICP	%DM	1.31	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.34	3.31	1.29 - 4.68
Protein Sol.	%CP	24.40	26.07	8.61 - 48.90
ADF	%DM	36.57	40.44	31.75 - 50.23
aNDF	%DM	52.94	60.92	48.19 - 72.71
aNDFom	%DM	47.94	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	3.41	6.52	3.94 - 9.40
Lignin	%NDFom	7.11		
NDFD 30	%NDFom	54.42	49.20	36.20 - 65.52
NDFD240	%NDFom	69.46	66.50	52.42 - 80.59
uNDFom30	%DM	21.85	28.34	14.70 - 40.90
uNDFom240	%DM	14.64	19.99	10.26 - 30.38
Starch	%DM	2.73	1.81	0.25 - 7.32
Fat (EE)	%DM	3.22	2.57	1.58 - 3.71
TFA (fat)	%DM	1.22	1.19	0.49 - 2.17
Ash	%DM	14.06	9.35	6.12 - 13.03
Calcium	%DM	0.47	0.61	0.25 - 1.15
Phosphorus	%DM	0.27	0.22	0.11 - 0.35
Magnesium	%DM	0.21	0.20	0.12 - 0.33
Potassium	%DM	1.45	1.82	0.69 - 3.03
Sulfur	%DM	0.19	0.14	0.07 - 0.25
Sugar (ESC)	%DM	11.11	6.34	2.16 - 10.37
Sugar (WSC)	%DM	13.00	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	12.50
NFC	%DM	27.54
NSC	%DM	15.73
RFV		106.30
RFQ		135.66
NDF kd rate Van Amb	%/hr	3.24
NDF kd rate MIR_P1	%/hr	5.19



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290674

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

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

Product: 7449

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

Moisture 20.24%
 Dry Matter 79.76%

Alfalfa hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	22.04	20.20	15.38 - 23.97
AD-ICP	%DM	2.04	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.23	2.89	1.63 - 4.06
Protein Sol.	%CP	37.02	37.11	27.47 - 47.14
ADF	%DM	33.52	32.35	25.50 - 41.78
aNDF	%DM	43.32	40.02	31.89 - 51.84
aNDFom	%DM	39.55	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.52	7.42	5.84 - 9.64
Lignin	%NDFom	19.01		
NDFD 30	%NDFom	36.56	39.57	31.30 - 48.12
NDFD240	%NDFom	42.53	51.00	41.46 - 61.86
uNDFom30	%DM	25.09	22.24	16.48 - 29.48
uNDFom240	%DM	22.73	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.60	2.41	1.77 - 3.35
TFA (fat)	%DM	1.07	1.29	0.81 - 2.33
Ash	%DM	12.22	11.16	9.15 - 13.82
Calcium	%DM	1.31	1.54	1.19 - 1.84
Phosphorus	%DM	0.31	0.31	0.23 - 0.39
Magnesium	%DM	0.28	0.32	0.25 - 0.41
Potassium	%DM	2.03	2.62	1.83 - 3.36
Sulfur	%DM	0.22	0.25	0.17 - 0.33
Sugar (ESC)	%DM	6.16	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.07	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	22.04
NFC	%DM	28.35
NSC	%DM	7.32
RFV		134.83
RFQ		115.47
NDF kd rate Van Amb	%/hr	3.06
NDF kd rate MIR_P1	%/hr	6.66



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

Report Date: 5/25/2021
 Sample No.: 003-2105-290675

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

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

Product: 7450

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

Moisture 20.92%
 Dry Matter 79.08%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.96	20.20	15.38 - 23.97
AD-ICP	%DM	1.63	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	4.32	2.89	1.63 - 4.06
Protein Sol.	%CP	32.78	37.11	27.47 - 47.14
ADF	%DM	30.86	32.35	25.50 - 41.78
aNDF	%DM	40.09	40.02	31.89 - 51.84
aNDFom	%DM	38.78	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.04	7.42	5.84 - 9.64
Lignin	%NDFom	18.15		
NDFD 30	%NDFom	40.92	39.57	31.30 - 48.12
NDFD240	%NDFom	46.96	51.00	41.46 - 61.86
uNDFom30	%DM	22.91	22.24	16.48 - 29.48
uNDFom240	%DM	20.57	19.65	12.95 - 27.75
Starch	%DM	2.43	1.88	0.28 - 3.74
Fat (EE)	%DM	2.58	2.41	1.77 - 3.35
TFA (fat)	%DM	1.22	1.29	0.81 - 2.33
Ash	%DM	9.86	11.16	9.15 - 13.82
Calcium	%DM	1.30	1.54	1.19 - 1.84
Phosphorus	%DM	0.31	0.31	0.23 - 0.39
Magnesium	%DM	0.34	0.32	0.25 - 0.41
Potassium	%DM	1.75	2.62	1.83 - 3.36
Sulfur	%DM	0.23	0.25	0.17 - 0.33
Sugar (ESC)	%DM	8.30	6.03	2.71 - 9.16
Sugar (WSC)	%DM	9.23	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	20.96
NFC	%DM	32.50
NSC	%DM	11.66
RFV		150.33
RFQ		145.26
NDF kd rate Van Amb	%/hr	3.48
NDF kd rate MIR_P1	%/hr	6.96