



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

Sample Date: 2022-12-12
Sample No.: 003-2212-0904198
Reference: h265

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

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

Product: 2930

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

Moisture 14.15%
 Dry Matter 85.85%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	7.50	9.38	4.95 - 16.48
AD-ICP	%DM	1.06	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.26	3.31	1.29 - 4.68
Protein Sol.	%CP	13.73	26.07	8.61 - 48.90
ADF	%DM	41.18	40.44	31.75 - 50.23
aNDF	%DM	63.72	60.92	48.19 - 72.71
aNDFom	%DM	59.93	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.45	6.52	3.94 - 9.40
Lignin	%NDFom	9.09		
NDFD 30	%NDFom	48.96	49.20	36.20 - 65.52
NDFD240	%NDFom	68.95	66.50	52.42 - 80.59
uNDFom30	%DM	30.59	28.34	14.70 - 40.90
uNDFom240	%DM	18.61	19.99	10.26 - 30.38
Starch	%DM	1.78	1.81	0.25 - 7.32
Fat (EE)	%DM	2.60	2.57	1.58 - 3.71
TFA (fat)	%DM	0.69	1.19	0.49 - 2.17
Ash	%DM	10.42	9.35	6.12 - 13.03
Calcium	%DM	0.59	0.61	0.25 - 1.15
Phosphorus	%DM	0.22	0.22	0.11 - 0.35
Magnesium	%DM	0.25	0.20	0.12 - 0.33
Potassium	%DM	1.39	1.82	0.69 - 3.03
Sulfur	%DM	0.13	0.14	0.07 - 0.25
Chloride	%DM	0.34	0.31	0.07 - 0.89
Sugar (ESC)	%DM	7.52	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.59	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	7.00
NFC	%DM	22.72
NSC	%DM	10.37
RFV		82.81
RFQ		102.74
NDF kd rate Van Amb	%/hr	3.04
NDF kd rate MIR_P1	%/hr	4.20



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904199
Reference: h266

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

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

Product: 2931

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

Moisture 14.20%
 Dry Matter 85.80%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.29	20.20	15.38 - 23.97
AD-ICP	%DM	1.17	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.86	2.89	1.63 - 4.06
Protein Sol.	%CP	33.18	37.11	27.47 - 47.14
ADF	%DM	31.43	32.35	25.50 - 41.78
aNDF	%DM	38.06	40.02	31.89 - 51.84
aNDFom	%DM	33.39	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	4.40	7.42	5.84 - 9.64
Lignin	%NDFom	13.18		
NDFD 30	%NDFom	51.48	39.57	31.30 - 48.12
NDFD240	%NDFom	56.57	51.00	41.46 - 61.86
uNDFom30	%DM	16.20	22.24	16.48 - 29.48
uNDFom240	%DM	14.50	19.65	12.95 - 27.75
Starch	%DM	0.78	1.88	0.28 - 3.74
Fat (EE)	%DM	3.71	2.41	1.77 - 3.35
TFA (fat)	%DM	1.54	1.29	0.81 - 2.33
Ash	%DM	12.75	11.16	9.15 - 13.82
Calcium	%DM	0.97	1.54	1.19 - 1.84
Phosphorus	%DM	0.37	0.31	0.23 - 0.39
Magnesium	%DM	0.35	0.32	0.25 - 0.41
Potassium	%DM	2.32	2.62	1.83 - 3.36
Sulfur	%DM	0.29	0.25	0.17 - 0.33
Chloride	%DM	0.75	0.52	0.16 - 1.13
Sugar (ESC)	%DM	8.23	6.03	2.71 - 9.16
Sugar (WSC)	%DM	11.00	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	19.29
NFC	%DM	34.89
NSC	%DM	11.78
RFV		157.30
RFQ		172.50
NDF kd rate Van Amb	%/hr	3.98
NDF kd rate MIR_P1	%/hr	8.16



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904200
Reference: h267

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

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

Product: 2933

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

Moisture 13.56%
 Dry Matter 86.44%

Mixed hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.96	19.89	13.73 - 23.91
AD-ICP	%DM	1.23	1.43	1.06 - 2.09
ND-ICP w/SS	%DM	2.29	2.95	1.47 - 4.24
Protein Sol.	%CP	34.96	36.28	26.07 - 46.05
ADF	%DM	34.41	32.66	25.78 - 41.61
aNDF	%DM	46.22	41.14	32.31 - 55.58
aNDFom	%DM	44.81	39.27	29.93 - 53.48
Lignin (Sulfuric Acid)	%DM	6.59	7.24	5.44 - 9.38
Lignin	%NDFom	14.71		
NDFD 30	%NDFom	49.61	41.30	32.13 - 54.72
NDFD240	%NDFom	57.73	53.49	43.03 - 70.69
uNDFom30	%DM	22.58	22.07	16.37 - 29.65
uNDFom240	%DM	18.94	19.32	12.22 - 28.78
Starch	%DM	1.46	2.03	0.29 - 3.75
Fat (EE)	%DM	2.58	2.53	1.88 - 3.44
TFA (fat)	%DM	1.06	1.38	0.87 - 2.47
Ash	%DM	10.04	10.98	8.88 - 13.76
Calcium	%DM	1.57	1.47	0.93 - 1.81
Phosphorus	%DM	0.26	0.31	0.24 - 0.39
Magnesium	%DM	0.43	0.31	0.23 - 0.40
Potassium	%DM	1.35	2.58	1.76 - 3.37
Sulfur	%DM	0.25	0.25	0.16 - 0.33
Chloride	%DM	0.39	0.48	0.13 - 1.12
Sugar (ESC)	%DM	7.97	6.35	3.04 - 9.57
Sugar (WSC)	%DM	9.67	7.34	3.67 - 10.53

Calculations

Adjusted Crude Protein	%DM	16.96
NFC	%DM	28.42
NSC	%DM	11.13
RFV		125.14
RFQ		131.25
NDF kd rate Van Amb	%/hr	4.19
NDF kd rate MIR_P1	%/hr	6.65



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904201
Reference: h268

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

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

Product: 2936

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

Moisture 15.98%
 Dry Matter 84.02%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	22.49	20.20	15.38 - 23.97
AD-ICP	%DM	1.99	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.72	2.89	1.63 - 4.06
Protein Sol.	%CP	22.10	37.11	27.47 - 47.14
ADF	%DM	34.88	32.35	25.50 - 41.78
aNDF	%DM	41.76	40.02	31.89 - 51.84
aNDFom	%DM	36.93	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.52	7.42	5.84 - 9.64
Lignin	%NDFom	20.36		
NDFD 30	%NDFom	36.83	39.57	31.30 - 48.12
NDFD240	%NDFom	42.49	51.00	41.46 - 61.86
uNDFom30	%DM	23.33	22.24	16.48 - 29.48
uNDFom240	%DM	21.24	19.65	12.95 - 27.75
Starch	%DM	1.57	1.88	0.28 - 3.74
Fat (EE)	%DM	2.82	2.41	1.77 - 3.35
TFA (fat)	%DM	0.92	1.29	0.81 - 2.33
Ash	%DM	12.63	11.16	9.15 - 13.82
Calcium	%DM	1.67	1.54	1.19 - 1.84
Phosphorus	%DM	0.36	0.31	0.23 - 0.39
Magnesium	%DM	0.41	0.32	0.25 - 0.41
Potassium	%DM	1.89	2.62	1.83 - 3.36
Sulfur	%DM	0.31	0.25	0.17 - 0.33
Chloride	%DM	0.41	0.52	0.16 - 1.13
Sugar (ESC)	%DM	4.36	6.03	2.71 - 9.16
Sugar (WSC)	%DM	5.70	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	22.49
NFC	%DM	29.75
NSC	%DM	7.27
RFV		137.34
RFQ		120.65
NDF kd rate Van Amb	%/hr	3.39
NDF kd rate MIR_P1	%/hr	6.83



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904202
Reference: h269

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

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

Product: 2938

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

Moisture 16.30%
 Dry Matter 83.70%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.22	9.38	4.95 - 16.48
AD-ICP	%DM	1.59	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	4.73	3.31	1.29 - 4.68
Protein Sol.	%CP	26.20	26.07	8.61 - 48.90
ADF	%DM	35.80	40.44	31.75 - 50.23
aNDF	%DM	60.76	60.92	48.19 - 72.71
aNDFom	%DM	56.24	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.17	6.52	3.94 - 9.40
Lignin	%NDFom	7.41		
NDFD 30	%NDFom	61.77	49.20	36.20 - 65.52
NDFD240	%NDFom	76.94	66.50	52.42 - 80.59
uNDFom30	%DM	21.50	28.34	14.70 - 40.90
uNDFom240	%DM	12.97	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	4.04	2.57	1.58 - 3.71
TFA (fat)	%DM	1.39	1.19	0.49 - 2.17
Ash	%DM	12.07	9.35	6.12 - 13.03
Calcium	%DM	0.48	0.61	0.25 - 1.15
Phosphorus	%DM	0.37	0.22	0.11 - 0.35
Magnesium	%DM	0.29	0.20	0.12 - 0.33
Potassium	%DM	2.25	1.82	0.69 - 3.03
Sulfur	%DM	0.25	0.14	0.07 - 0.25
Chloride	%DM	0.76	0.31	0.07 - 0.89
Sugar (ESC)	%DM	6.12	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.16	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	16.22
NFC	%DM	17.81
NSC	%DM	7.41
RFV		93.17
RFQ		137.77
NDF kd rate Van Amb	%/hr	4.10
NDF kd rate MIR_P1	%/hr	5.50



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904203
Reference: h270

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

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

Product: 2939

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

Moisture 14.70%
 Dry Matter 85.30%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	11.50	9.38	4.95 - 16.48
AD-ICP	%DM	1.05	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.52	3.31	1.29 - 4.68
Protein Sol.	%CP	26.70	26.07	8.61 - 48.90
ADF	%DM	39.51	40.44	31.75 - 50.23
aNDF	%DM	66.69	60.92	48.19 - 72.71
aNDFom	%DM	64.13	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.17	6.52	3.94 - 9.40
Lignin	%NDFom	8.06		
NDFD 30	%NDFom	50.46	49.20	36.20 - 65.52
NDFD240	%NDFom	68.28	66.50	52.42 - 80.59
uNDFom30	%DM	31.77	28.34	14.70 - 40.90
uNDFom240	%DM	20.34	19.99	10.26 - 30.38
Starch	%DM	1.03	1.81	0.25 - 7.32
Fat (EE)	%DM	3.01	2.57	1.58 - 3.71
TFA (fat)	%DM	0.97	1.19	0.49 - 2.17
Ash	%DM	9.32	9.35	6.12 - 13.03
Calcium	%DM	0.49	0.61	0.25 - 1.15
Phosphorus	%DM	0.28	0.22	0.11 - 0.35
Magnesium	%DM	0.28	0.20	0.12 - 0.33
Potassium	%DM	1.22	1.82	0.69 - 3.03
Sulfur	%DM	0.22	0.14	0.07 - 0.25
Chloride	%DM	0.31	0.31	0.07 - 0.89
Sugar (ESC)	%DM	8.60	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.88	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	11.50
NFC	%DM	15.60
NSC	%DM	10.91
RFV		81.10
RFQ		109.78
NDF kd rate Van Amb	%/hr	3.04
NDF kd rate MIR_P1	%/hr	4.55



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904204
Reference: h271

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

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

Product: 2941

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

Moisture 15.70%
 Dry Matter 84.30%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	10.99	9.38	4.95 - 16.48
AD-ICP	%DM	1.34	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.19	3.31	1.29 - 4.68
Protein Sol.	%CP	25.84	26.07	8.61 - 48.90
ADF	%DM	43.67	40.44	31.75 - 50.23
aNDF	%DM	69.45	60.92	48.19 - 72.71
aNDFom	%DM	65.51	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.05	6.52	3.94 - 9.40
Lignin	%NDFom	9.24		
NDFD 30	%NDFom	44.37	49.20	36.20 - 65.52
NDFD240	%NDFom	62.88	66.50	52.42 - 80.59
uNDFom30	%DM	36.44	28.34	14.70 - 40.90
uNDFom240	%DM	24.32	19.99	10.26 - 30.38
Starch	%DM	0.33	1.81	0.25 - 7.32
Fat (EE)	%DM	2.29	2.57	1.58 - 3.71
TFA (fat)	%DM	0.80	1.19	0.49 - 2.17
Ash	%DM	10.65	9.35	6.12 - 13.03
Calcium	%DM	0.45	0.61	0.25 - 1.15
Phosphorus	%DM	0.26	0.22	0.11 - 0.35
Magnesium	%DM	0.31	0.20	0.12 - 0.33
Potassium	%DM	1.46	1.82	0.69 - 3.03
Sulfur	%DM	0.23	0.14	0.07 - 0.25
Chloride	%DM	0.76	0.31	0.07 - 0.89
Sugar (ESC)	%DM	5.58	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.36	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	10.60
NFC	%DM	14.24
NSC	%DM	7.69
RFV		73.60
RFQ		89.99
NDF kd rate Van Amb	%/hr	2.63
NDF kd rate MIR_P1	%/hr	4.15



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904205
Reference: h272

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

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

Product: 2942

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

Moisture 15.96%
 Dry Matter 84.04%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.05	20.20	15.38 - 23.97
AD-ICP	%DM	1.35	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.96	2.89	1.63 - 4.06
Protein Sol.	%CP	35.01	37.11	27.47 - 47.14
ADF	%DM	38.02	32.35	25.50 - 41.78
aNDF	%DM	46.08	40.02	31.89 - 51.84
aNDFom	%DM	44.09	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.90	7.42	5.84 - 9.64
Lignin	%NDFom	15.65		
NDFD 30	%NDFom	43.57	39.57	31.30 - 48.12
NDFD240	%NDFom	48.97	51.00	41.46 - 61.86
uNDFom30	%DM	24.88	22.24	16.48 - 29.48
uNDFom240	%DM	22.50	19.65	12.95 - 27.75
Starch	%DM	0.75	1.88	0.28 - 3.74
Fat (EE)	%DM	2.56	2.41	1.77 - 3.35
TFA (fat)	%DM	1.11	1.29	0.81 - 2.33
Ash	%DM	11.40	11.16	9.15 - 13.82
Calcium	%DM	1.21	1.54	1.19 - 1.84
Phosphorus	%DM	0.34	0.31	0.23 - 0.39
Magnesium	%DM	0.37	0.32	0.25 - 0.41
Potassium	%DM	2.46	2.62	1.83 - 3.36
Sulfur	%DM	0.29	0.25	0.17 - 0.33
Chloride	%DM	0.82	0.52	0.16 - 1.13
Sugar (ESC)	%DM	6.05	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.08	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	18.05
NFC	%DM	27.31
NSC	%DM	7.83
RFV		119.48
RFQ		120.24
NDF kd rate Van Amb	%/hr	3.47
NDF kd rate MIR_P1	%/hr	7.48



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904206
Reference: h273

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

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

Product: 2943

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

Moisture 14.59%
 Dry Matter 85.41%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	14.63	20.20	15.38 - 23.97
AD-ICP	%DM	1.01	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.18	2.89	1.63 - 4.06
Protein Sol.	%CP	35.13	37.11	27.47 - 47.14
ADF	%DM	39.31	32.35	25.50 - 41.78
aNDF	%DM	51.96	40.02	31.89 - 51.84
aNDFom	%DM	49.57	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.40	7.42	5.84 - 9.64
Lignin	%NDFom	12.91		
NDFD 30	%NDFom	47.00	39.57	31.30 - 48.12
NDFD240	%NDFom	53.06	51.00	41.46 - 61.86
uNDFom30	%DM	26.27	22.24	16.48 - 29.48
uNDFom240	%DM	23.27	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.69	2.41	1.77 - 3.35
TFA (fat)	%DM	1.16	1.29	0.81 - 2.33
Ash	%DM	10.06	11.16	9.15 - 13.82
Calcium	%DM	1.04	1.54	1.19 - 1.84
Phosphorus	%DM	0.33	0.31	0.23 - 0.39
Magnesium	%DM	0.42	0.32	0.25 - 0.41
Potassium	%DM	2.97	2.62	1.83 - 3.36
Sulfur	%DM	0.24	0.25	0.17 - 0.33
Chloride	%DM	0.62	0.52	0.16 - 1.13
Sugar (ESC)	%DM	6.45	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.21	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	14.63
NFC	%DM	26.76
NSC	%DM	7.46
RFV		104.36
RFQ		111.45
NDF kd rate Van Amb	%/hr	3.39
NDF kd rate MIR_P1	%/hr	7.36



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904207
Reference: h274

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

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

Product: 2944

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

Moisture 15.74%
 Dry Matter 84.26%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	15.73	20.20	15.38 - 23.97
AD-ICP	%DM	1.22	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.98	2.89	1.63 - 4.06
Protein Sol.	%CP	34.97	37.11	27.47 - 47.14
ADF	%DM	38.65	32.35	25.50 - 41.78
aNDF	%DM	49.40	40.02	31.89 - 51.84
aNDFom	%DM	46.54	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.68	7.42	5.84 - 9.64
Lignin	%NDFom	14.35		
NDFD 30	%NDFom	46.13	39.57	31.30 - 48.12
NDFD240	%NDFom	51.68	51.00	41.46 - 61.86
uNDFom30	%DM	25.07	22.24	16.48 - 29.48
uNDFom240	%DM	22.49	19.65	12.95 - 27.75
Starch	%DM	1.70	1.88	0.28 - 3.74
Fat (EE)	%DM	2.55	2.41	1.77 - 3.35
TFA (fat)	%DM	1.03	1.29	0.81 - 2.33
Ash	%DM	11.36	11.16	9.15 - 13.82
Calcium	%DM	1.14	1.54	1.19 - 1.84
Phosphorus	%DM	0.33	0.31	0.23 - 0.39
Magnesium	%DM	0.41	0.32	0.25 - 0.41
Potassium	%DM	2.60	2.62	1.83 - 3.36
Sulfur	%DM	0.24	0.25	0.17 - 0.33
Chloride	%DM	0.53	0.52	0.16 - 1.13
Sugar (ESC)	%DM	6.69	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.50	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	15.73
NFC	%DM	27.32
NSC	%DM	9.20
RFV		110.74
RFQ		114.11
NDF kd rate Van Amb	%/hr	3.56
NDF kd rate MIR_P1	%/hr	7.57



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904208
Reference: h275

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

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

Product: 2945

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

Moisture 17.11%
 Dry Matter 82.89%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	9.96	9.38	4.95 - 16.48
AD-ICP	%DM	1.31	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.79	3.31	1.29 - 4.68
Protein Sol.	%CP	23.19	26.07	8.61 - 48.90
ADF	%DM	45.20	40.44	31.75 - 50.23
aNDF	%DM	70.22	60.92	48.19 - 72.71
aNDFom	%DM	67.85	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.85	6.52	3.94 - 9.40
Lignin	%NDFom	8.62		
NDFD 30	%NDFom	45.56	49.20	36.20 - 65.52
NDFD240	%NDFom	63.43	66.50	52.42 - 80.59
uNDFom30	%DM	36.94	28.34	14.70 - 40.90
uNDFom240	%DM	24.81	19.99	10.26 - 30.38
Starch	%DM	0.89	1.81	0.25 - 7.32
Fat (EE)	%DM	2.44	2.57	1.58 - 3.71
TFA (fat)	%DM	0.65	1.19	0.49 - 2.17
Ash	%DM	10.14	9.35	6.12 - 13.03
Calcium	%DM	0.43	0.61	0.25 - 1.15
Phosphorus	%DM	0.25	0.22	0.11 - 0.35
Magnesium	%DM	0.24	0.20	0.12 - 0.33
Potassium	%DM	1.15	1.82	0.69 - 3.03
Sulfur	%DM	0.20	0.14	0.07 - 0.25
Chloride	%DM	0.74	0.31	0.07 - 0.89
Sugar (ESC)	%DM	6.71	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.51	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	9.46
NFC	%DM	13.19
NSC	%DM	9.40
RFV		71.17
RFQ		83.58
NDF kd rate Van Amb	%/hr	2.67
NDF kd rate MIR_P1	%/hr	4.29



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904209
Reference: h276

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

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

Product: 2946

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

Moisture 14.74%
 Dry Matter 85.26%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.27	9.38	4.95 - 16.48
AD-ICP	%DM	1.39	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.83	3.31	1.29 - 4.68
Protein Sol.	%CP	35.90	26.07	8.61 - 48.90
ADF	%DM	32.48	40.44	31.75 - 50.23
aNDF	%DM	54.17	60.92	48.19 - 72.71
aNDFom	%DM	51.32	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.44	6.52	3.94 - 9.40
Lignin	%NDFom	8.65		
NDFD 30	%NDFom	65.08	49.20	36.20 - 65.52
NDFD240	%NDFom	76.11	66.50	52.42 - 80.59
uNDFom30	%DM	17.92	28.34	14.70 - 40.90
uNDFom240	%DM	12.26	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	3.17	2.57	1.58 - 3.71
TFA (fat)	%DM	1.27	1.19	0.49 - 2.17
Ash	%DM	11.48	9.35	6.12 - 13.03
Calcium	%DM	0.64	0.61	0.25 - 1.15
Phosphorus	%DM	0.33	0.22	0.11 - 0.35
Magnesium	%DM	0.32	0.20	0.12 - 0.33
Potassium	%DM	2.18	1.82	0.69 - 3.03
Sulfur	%DM	0.25	0.14	0.07 - 0.25
Chloride	%DM	0.79	0.31	0.07 - 0.89
Sugar (ESC)	%DM	8.73	6.34	2.16 - 10.37
Sugar (WSC)	%DM	9.53	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	17.27
NFC	%DM	21.49
NSC	%DM	9.78
RFV		109.45
RFQ		152.03
NDF kd rate Van Amb	%/hr	4.88
NDF kd rate MIR_P1	%/hr	6.55



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904210
Reference: h277

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

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

Product: 2947

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

Moisture 12.60%
 Dry Matter 87.40%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	12.29	9.38	4.95 - 16.48
AD-ICP	%DM	0.97	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.34	3.31	1.29 - 4.68
Protein Sol.	%CP	32.06	26.07	8.61 - 48.90
ADF	%DM	37.39	40.44	31.75 - 50.23
aNDF	%DM	63.12	60.92	48.19 - 72.71
aNDFom	%DM	59.45	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.85	6.52	3.94 - 9.40
Lignin	%NDFom	8.16		
NDFD 30	%NDFom	61.16	49.20	36.20 - 65.52
NDFD240	%NDFom	75.59	66.50	52.42 - 80.59
uNDFom30	%DM	23.09	28.34	14.70 - 40.90
uNDFom240	%DM	14.51	19.99	10.26 - 30.38
Starch	%DM	0.40	1.81	0.25 - 7.32
Fat (EE)	%DM	2.63	2.57	1.58 - 3.71
TFA (fat)	%DM	0.82	1.19	0.49 - 2.17
Ash	%DM	10.85	9.35	6.12 - 13.03
Calcium	%DM	0.48	0.61	0.25 - 1.15
Phosphorus	%DM	0.31	0.22	0.11 - 0.35
Magnesium	%DM	0.21	0.20	0.12 - 0.33
Potassium	%DM	2.29	1.82	0.69 - 3.03
Sulfur	%DM	0.15	0.14	0.07 - 0.25
Chloride	%DM	0.67	0.31	0.07 - 0.89
Sugar (ESC)	%DM	5.39	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.17	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	12.29
NFC	%DM	18.93
NSC	%DM	7.57
RFV		88.03
RFQ		134.97
NDF kd rate Van Amb	%/hr	4.23
NDF kd rate MIR_P1	%/hr	5.61



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904211
Reference: h278

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

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

Product: 2948

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

Moisture 15.12%
 Dry Matter 84.88%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	21.12	20.20	15.38 - 23.97
AD-ICP	%DM	1.40	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.01	2.89	1.63 - 4.06
Protein Sol.	%CP	42.14	37.11	27.47 - 47.14
ADF	%DM	35.02	32.35	25.50 - 41.78
aNDF	%DM	41.61	40.02	31.89 - 51.84
aNDFom	%DM	38.15	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.75	7.42	5.84 - 9.64
Lignin	%NDFom	17.69		
NDFD 30	%NDFom	41.73	39.57	31.30 - 48.12
NDFD240	%NDFom	46.37	51.00	41.46 - 61.86
uNDFom30	%DM	22.23	22.24	16.48 - 29.48
uNDFom240	%DM	20.46	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.61	2.41	1.77 - 3.35
TFA (fat)	%DM	1.10	1.29	0.81 - 2.33
Ash	%DM	13.03	11.16	9.15 - 13.82
Calcium	%DM	1.62	1.54	1.19 - 1.84
Phosphorus	%DM	0.33	0.31	0.23 - 0.39
Magnesium	%DM	0.41	0.32	0.25 - 0.41
Potassium	%DM	2.18	2.62	1.83 - 3.36
Sulfur	%DM	0.29	0.25	0.17 - 0.33
Chloride	%DM	0.69	0.52	0.16 - 1.13
Sugar (ESC)	%DM	4.97	6.03	2.71 - 9.16
Sugar (WSC)	%DM	6.60	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	21.12
NFC	%DM	28.61
NSC	%DM	6.85
RFV		137.57
RFQ		130.65
NDF kd rate Van Amb	%/hr	3.61
NDF kd rate MIR_P1	%/hr	7.80



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904212
Reference: h279

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

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

Product: 2949

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

Moisture 18.30%
 Dry Matter 81.70%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	22.07	20.20	15.38 - 23.97
AD-ICP	%DM	1.64	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.19	2.89	1.63 - 4.06
Protein Sol.	%CP	34.30	37.11	27.47 - 47.14
ADF	%DM	35.22	32.35	25.50 - 41.78
aNDF	%DM	41.26	40.02	31.89 - 51.84
aNDFom	%DM	39.68	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.98	7.42	5.84 - 9.64
Lignin	%NDFom	17.59		
NDFD 30	%NDFom	41.66	39.57	31.30 - 48.12
NDFD240	%NDFom	47.45	51.00	41.46 - 61.86
uNDFom30	%DM	23.15	22.24	16.48 - 29.48
uNDFom240	%DM	20.85	19.65	12.95 - 27.75
Starch	%DM	0.64	1.88	0.28 - 3.74
Fat (EE)	%DM	2.50	2.41	1.77 - 3.35
TFA (fat)	%DM	1.07	1.29	0.81 - 2.33
Ash	%DM	10.82	11.16	9.15 - 13.82
Calcium	%DM	1.67	1.54	1.19 - 1.84
Phosphorus	%DM	0.34	0.31	0.23 - 0.39
Magnesium	%DM	0.43	0.32	0.25 - 0.41
Potassium	%DM	1.97	2.62	1.83 - 3.36
Sulfur	%DM	0.34	0.25	0.17 - 0.33
Chloride	%DM	0.40	0.52	0.16 - 1.13
Sugar (ESC)	%DM	4.32	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.04	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	22.07
NFC	%DM	28.55
NSC	%DM	7.68
RFV		138.64
RFQ		137.10
NDF kd rate Van Amb	%/hr	3.57
NDF kd rate MIR_P1	%/hr	7.13



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904213
Reference: h280

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

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

Product: 2950

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

Moisture 12.00%
 Dry Matter 88.00%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	13.34	9.38	4.95 - 16.48
AD-ICP	%DM	1.01	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.23	3.31	1.29 - 4.68
Protein Sol.	%CP	35.01	26.07	8.61 - 48.90
ADF	%DM	36.69	40.44	31.75 - 50.23
aNDF	%DM	62.71	60.92	48.19 - 72.71
aNDFom	%DM	59.65	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.51	6.52	3.94 - 9.40
Lignin	%NDFom	7.56		
NDFD 30	%NDFom	65.83	49.20	36.20 - 65.52
NDFD240	%NDFom	79.16	66.50	52.42 - 80.59
uNDFom30	%DM	20.38	28.34	14.70 - 40.90
uNDFom240	%DM	12.43	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	2.69	2.57	1.58 - 3.71
TFA (fat)	%DM	0.90	1.19	0.49 - 2.17
Ash	%DM	9.77	9.35	6.12 - 13.03
Calcium	%DM	0.53	0.61	0.25 - 1.15
Phosphorus	%DM	0.31	0.22	0.11 - 0.35
Magnesium	%DM	0.23	0.20	0.12 - 0.33
Potassium	%DM	1.96	1.82	0.69 - 3.03
Sulfur	%DM	0.19	0.14	0.07 - 0.25
Chloride	%DM	0.54	0.31	0.07 - 0.89
Sugar (ESC)	%DM	6.19	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.25	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	13.34
NFC	%DM	18.57
NSC	%DM	8.50
RFV		89.31
RFQ		147.46
NDF kd rate Van Amb	%/hr	4.74
NDF kd rate MIR_P1	%/hr	6.04



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904214
Reference: h281

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

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

Product: 2952

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

Moisture 14.27%
 Dry Matter 85.73%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	4.05	9.38	4.95 - 16.48
AD-ICP	%DM	1.39	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.63	3.31	1.29 - 4.68
Protein Sol.	%CP	5.00	26.07	8.61 - 48.90
ADF	%DM	45.11	40.44	31.75 - 50.23
aNDF	%DM	67.19	60.92	48.19 - 72.71
aNDFom	%DM	61.43	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.22	6.52	3.94 - 9.40
Lignin	%NDFom	10.13		
NDFD 30	%NDFom	42.73	49.20	36.20 - 65.52
NDFD240	%NDFom	61.63	66.50	52.42 - 80.59
uNDFom30	%DM	35.18	28.34	14.70 - 40.90
uNDFom240	%DM	23.57	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	2.71	2.57	1.58 - 3.71
TFA (fat)	%DM	0.62	1.19	0.49 - 2.17
Ash	%DM	15.25	9.35	6.12 - 13.03
Calcium	%DM	0.51	0.61	0.25 - 1.15
Phosphorus	%DM	0.21	0.22	0.11 - 0.35
Magnesium	%DM	0.23	0.20	0.12 - 0.33
Potassium	%DM	2.02	1.82	0.69 - 3.03
Sulfur	%DM	0.10	0.14	0.07 - 0.25
Chloride	%DM	0.53	0.31	0.07 - 0.89
Sugar (ESC)	%DM	7.79	6.34	2.16 - 10.37
Sugar (WSC)	%DM	8.84	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	2.47
NFC	%DM	20.28
NSC	%DM	9.09
RFV		74.60
RFQ		65.42
NDF kd rate Van Amb	%/hr	2.59
NDF kd rate MIR_P1	%/hr	4.01



Dairyland Laboratories
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Telephone: 320-240-1737
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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904215
Reference: h282

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

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

Product: 2953

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	7.42	9.38	4.95 - 16.48
AD-ICP	%DM	1.56	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.62	3.31	1.29 - 4.68
Protein Sol.	%CP	14.56	26.07	8.61 - 48.90
ADF	%DM	43.98	40.44	31.75 - 50.23
aNDF	%DM	66.10	60.92	48.19 - 72.71
aNDFom	%DM	61.58	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.53	6.52	3.94 - 9.40
Lignin	%NDFom	10.60		
NDFD 30	%NDFom	34.69	49.20	36.20 - 65.52
NDFD240	%NDFom	54.89	66.50	52.42 - 80.59
uNDFom30	%DM	40.22	28.34	14.70 - 40.90
uNDFom240	%DM	27.78	19.99	10.26 - 30.38
Starch	%DM	1.35	1.81	0.25 - 7.32
Fat (EE)	%DM	2.13	2.57	1.58 - 3.71
TFA (fat)	%DM	0.57	1.19	0.49 - 2.17
Ash	%DM	12.36	9.35	6.12 - 13.03
Calcium	%DM	0.50	0.61	0.25 - 1.15
Phosphorus	%DM	0.18	0.22	0.11 - 0.35
Magnesium	%DM	0.21	0.20	0.12 - 0.33
Potassium	%DM	0.91	1.82	0.69 - 3.03
Sulfur	%DM	0.10	0.14	0.07 - 0.25
Chloride	%DM	0.26	0.31	0.07 - 0.89
Sugar (ESC)	%DM	7.87	6.34	2.16 - 10.37
Sugar (WSC)	%DM	10.11	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	6.11
NFC	%DM	19.69
NSC	%DM	11.46
RFV		77.09
RFQ		74.60
NDF kd rate Van Amb	%/hr	1.98
NDF kd rate MIR_P1	%/hr	3.39



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

Sample Date: 2022-12-12
Sample No.: 003-2212-0904216
Reference: h283

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

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

Product: 2954

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

Moisture 13.62%
 Dry Matter 86.38%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	19.92	20.20	15.38 - 23.97
AD-ICP	%DM	1.16	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.25	2.89	1.63 - 4.06
Protein Sol.	%CP	36.90	37.11	27.47 - 47.14
ADF	%DM	31.85	32.35	25.50 - 41.78
aNDF	%DM	38.69	40.02	31.89 - 51.84
aNDFom	%DM	37.57	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.31	7.42	5.84 - 9.64
Lignin	%NDFom	16.80		
NDFD 30	%NDFom	41.50	39.57	31.30 - 48.12
NDFD240	%NDFom	47.11	51.00	41.46 - 61.86
uNDFom30	%DM	21.98	22.24	16.48 - 29.48
uNDFom240	%DM	19.87	19.65	12.95 - 27.75
Starch	%DM	1.53	1.88	0.28 - 3.74
Fat (EE)	%DM	2.52	2.41	1.77 - 3.35
TFA (fat)	%DM	1.22	1.29	0.81 - 2.33
Ash	%DM	9.53	11.16	9.15 - 13.82
Calcium	%DM	1.39	1.54	1.19 - 1.84
Phosphorus	%DM	0.32	0.31	0.23 - 0.39
Magnesium	%DM	0.37	0.32	0.25 - 0.41
Potassium	%DM	1.91	2.62	1.83 - 3.36
Sulfur	%DM	0.30	0.25	0.17 - 0.33
Chloride	%DM	0.57	0.52	0.16 - 1.13
Sugar (ESC)	%DM	7.44	6.03	2.71 - 9.16
Sugar (WSC)	%DM	9.56	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	19.92
NFC	%DM	33.01
NSC	%DM	11.09
RFV		154.01
RFQ		152.14
NDF kd rate Van Amb	%/hr	3.45
NDF kd rate MIR_P1	%/hr	7.21



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904217
Reference: h284

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

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

Product: 2959

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

Moisture 13.10%
 Dry Matter 86.90%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.29	20.20	15.38 - 23.97
AD-ICP	%DM	1.56	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.16	2.89	1.63 - 4.06
Protein Sol.	%CP	23.62	37.11	27.47 - 47.14
ADF	%DM	41.14	32.35	25.50 - 41.78
aNDF	%DM	49.46	40.02	31.89 - 51.84
aNDFom	%DM	47.39	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.89	7.42	5.84 - 9.64
Lignin	%NDFom	16.65		
NDFD 30	%NDFom	38.28	39.57	31.30 - 48.12
NDFD240	%NDFom	44.46	51.00	41.46 - 61.86
uNDFom30	%DM	29.25	22.24	16.48 - 29.48
uNDFom240	%DM	26.32	19.65	12.95 - 27.75
Starch	%DM	2.32	1.88	0.28 - 3.74
Fat (EE)	%DM	2.07	2.41	1.77 - 3.35
TFA (fat)	%DM	0.76	1.29	0.81 - 2.33
Ash	%DM	9.84	11.16	9.15 - 13.82
Calcium	%DM	1.48	1.54	1.19 - 1.84
Phosphorus	%DM	0.29	0.31	0.23 - 0.39
Magnesium	%DM	0.38	0.32	0.25 - 0.41
Potassium	%DM	1.75	2.62	1.83 - 3.36
Sulfur	%DM	0.28	0.25	0.17 - 0.33
Chloride	%DM	0.10	0.52	0.16 - 1.13
Sugar (ESC)	%DM	3.19	6.03	2.71 - 9.16
Sugar (WSC)	%DM	4.87	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	18.29
NFC	%DM	25.88
NSC	%DM	7.19
RFV		107.09
RFQ		99.46
NDF kd rate Van Amb	%/hr	2.98
NDF kd rate MIR_P1	%/hr	6.69



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904218
Reference: h285

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

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

Product: 2960

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

Moisture 12.40%
 Dry Matter 87.60%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	8.86	9.38	4.95 - 16.48
AD-ICP	%DM	0.83	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.41	3.31	1.29 - 4.68
Protein Sol.	%CP	33.41	26.07	8.61 - 48.90
ADF	%DM	40.72	40.44	31.75 - 50.23
aNDF	%DM	63.53	60.92	48.19 - 72.71
aNDFom	%DM	61.08	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.54	6.52	3.94 - 9.40
Lignin	%NDFom	9.07		
NDFD 30	%NDFom	52.75	49.20	36.20 - 65.52
NDFD240	%NDFom	69.94	66.50	52.42 - 80.59
uNDFom30	%DM	28.86	28.34	14.70 - 40.90
uNDFom240	%DM	18.36	19.99	10.26 - 30.38
Starch	%DM	1.49	1.81	0.25 - 7.32
Fat (EE)	%DM	2.88	2.57	1.58 - 3.71
TFA (fat)	%DM	1.04	1.19	0.49 - 2.17
Ash	%DM	7.90	9.35	6.12 - 13.03
Calcium	%DM	0.49	0.61	0.25 - 1.15
Phosphorus	%DM	0.28	0.22	0.11 - 0.35
Magnesium	%DM	0.21	0.20	0.12 - 0.33
Potassium	%DM	1.99	1.82	0.69 - 3.03
Sulfur	%DM	0.15	0.14	0.07 - 0.25
Chloride	%DM	0.35	0.31	0.07 - 0.89
Sugar (ESC)	%DM	5.92	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.88	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.86
NFC	%DM	22.53
NSC	%DM	9.37
RFV		83.78
RFQ		119.54
NDF kd rate Van Amb	%/hr	3.43
NDF kd rate MIR_P1	%/hr	4.76



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904219
Reference: h286

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

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

Product: 2962

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

Moisture 17.26%
 Dry Matter 82.74%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.07	9.38	4.95 - 16.48
AD-ICP	%DM	0.94	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.30	3.31	1.29 - 4.68
Protein Sol.	%CP	29.00	26.07	8.61 - 48.90
ADF	%DM	34.19	40.44	31.75 - 50.23
aNDF	%DM	57.45	60.92	48.19 - 72.71
aNDFom	%DM	54.68	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	2.77	6.52	3.94 - 9.40
Lignin	%NDFom	5.07		
NDFD 30	%NDFom	69.35	49.20	36.20 - 65.52
NDFD240	%NDFom	82.97	66.50	52.42 - 80.59
uNDFom30	%DM	16.76	28.34	14.70 - 40.90
uNDFom240	%DM	9.31	19.99	10.26 - 30.38
Starch	%DM	0.94	1.81	0.25 - 7.32
Fat (EE)	%DM	3.30	2.57	1.58 - 3.71
TFA (fat)	%DM	1.23	1.19	0.49 - 2.17
Ash	%DM	10.93	9.35	6.12 - 13.03
Calcium	%DM	0.67	0.61	0.25 - 1.15
Phosphorus	%DM	0.41	0.22	0.11 - 0.35
Magnesium	%DM	0.35	0.20	0.12 - 0.33
Potassium	%DM	1.90	1.82	0.69 - 3.03
Sulfur	%DM	0.31	0.14	0.07 - 0.25
Chloride	%DM	0.54	0.31	0.07 - 0.89
Sugar (ESC)	%DM	5.09	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.76	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	18.07
NFC	%DM	17.39
NSC	%DM	7.70
RFV		100.89
RFQ		152.85
NDF kd rate Van Amb	%/hr	4.60
NDF kd rate MIR_P1	%/hr	6.12



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Sample Date: 2022-12-12
Sample No.: 003-2212-0904220
Reference: h287

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

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

Product: 2963

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

Moisture 15.28%
 Dry Matter 84.72%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.21	20.20	15.38 - 23.97
AD-ICP	%DM	1.24	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.49	2.89	1.63 - 4.06
Protein Sol.	%CP	37.07	37.11	27.47 - 47.14
ADF	%DM	38.54	32.35	25.50 - 41.78
aNDF	%DM	47.20	40.02	31.89 - 51.84
aNDFom	%DM	45.43	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.60	7.42	5.84 - 9.64
Lignin	%NDFom	16.73		
NDFD 30	%NDFom	37.46	39.57	31.30 - 48.12
NDFD240	%NDFom	43.43	51.00	41.46 - 61.86
uNDFom30	%DM	28.41	22.24	16.48 - 29.48
uNDFom240	%DM	25.70	19.65	12.95 - 27.75
Starch	%DM	0.98	1.88	0.28 - 3.74
Fat (EE)	%DM	2.09	2.41	1.77 - 3.35
TFA (fat)	%DM	0.81	1.29	0.81 - 2.33
Ash	%DM	8.70	11.16	9.15 - 13.82
Calcium	%DM	1.55	1.54	1.19 - 1.84
Phosphorus	%DM	0.27	0.31	0.23 - 0.39
Magnesium	%DM	0.40	0.32	0.25 - 0.41
Potassium	%DM	1.55	2.62	1.83 - 3.36
Sulfur	%DM	0.25	0.25	0.17 - 0.33
Chloride	%DM	0.44	0.52	0.16 - 1.13
Sugar (ESC)	%DM	5.86	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.22	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	17.21
NFC	%DM	29.34
NSC	%DM	8.20
RFV		115.93
RFQ		107.31
NDF kd rate Van Amb	%/hr	2.93
NDF kd rate MIR_P1	%/hr	6.73



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904221
Reference: h288

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

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

Product: 2964

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

Moisture 12.92%
 Dry Matter 87.08%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.63	20.20	15.38 - 23.97
AD-ICP	%DM	1.01	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.77	2.89	1.63 - 4.06
Protein Sol.	%CP	31.24	37.11	27.47 - 47.14
ADF	%DM	31.90	32.35	25.50 - 41.78
aNDF	%DM	41.68	40.02	31.89 - 51.84
aNDFom	%DM	40.67	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.05	7.42	5.84 - 9.64
Lignin	%NDFom	17.33		
NDFD 30	%NDFom	39.05	39.57	31.30 - 48.12
NDFD240	%NDFom	46.89	51.00	41.46 - 61.86
uNDFom30	%DM	24.79	22.24	16.48 - 29.48
uNDFom240	%DM	21.60	19.65	12.95 - 27.75
Starch	%DM	2.02	1.88	0.28 - 3.74
Fat (EE)	%DM	2.35	2.41	1.77 - 3.35
TFA (fat)	%DM	1.07	1.29	0.81 - 2.33
Ash	%DM	8.40	11.16	9.15 - 13.82
Calcium	%DM	1.72	1.54	1.19 - 1.84
Phosphorus	%DM	0.27	0.31	0.23 - 0.39
Magnesium	%DM	0.46	0.32	0.25 - 0.41
Potassium	%DM	2.28	2.62	1.83 - 3.36
Sulfur	%DM	0.31	0.25	0.17 - 0.33
Chloride	%DM	0.58	0.52	0.16 - 1.13
Sugar (ESC)	%DM	5.64	6.03	2.71 - 9.16
Sugar (WSC)	%DM	7.51	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	18.63
NFC	%DM	33.00
NSC	%DM	9.53
RFV		143.00
RFQ		134.79
NDF kd rate Van Amb	%/hr	3.20
NDF kd rate MIR_P1	%/hr	6.06



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Email: info@dairylandlabs.com

Sample Date: 2022-12-12
Sample No.: 003-2212-0904222
Reference: h289

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

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

Product: 2965

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

Moisture 15.62%
 Dry Matter 84.38%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	15.08	9.38	4.95 - 16.48
AD-ICP	%DM	1.37	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	3.69	3.31	1.29 - 4.68
Protein Sol.	%CP	38.79	26.07	8.61 - 48.90
ADF	%DM	39.97	40.44	31.75 - 50.23
aNDF	%DM	58.90	60.92	48.19 - 72.71
aNDFom	%DM	55.20	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.79	6.52	3.94 - 9.40
Lignin	%NDFom	10.49		
NDFD 30	%NDFom	62.05	49.20	36.20 - 65.52
NDFD240	%NDFom	72.74	66.50	52.42 - 80.59
uNDFom30	%DM	20.95	28.34	14.70 - 40.90
uNDFom240	%DM	15.05	19.99	10.26 - 30.38
Starch	%DM	1.82	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	10.78	9.35	6.12 - 13.03
Calcium	%DM	1.04	0.61	0.25 - 1.15
Phosphorus	%DM	0.34	0.22	0.11 - 0.35
Magnesium	%DM	0.45	0.20	0.12 - 0.33
Potassium	%DM	2.18	1.82	0.69 - 3.03
Sulfur	%DM	0.24	0.14	0.07 - 0.25
Chloride	%DM	0.45	0.31	0.07 - 0.89
Sugar (ESC)	%DM	5.09	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.78	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	15.08
NFC	%DM	20.77
NSC	%DM	8.60
RFV		91.34
RFQ		131.79
NDF kd rate Van Amb	%/hr	4.96
NDF kd rate MIR_P1	%/hr	6.50



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

Sample Date: 2022-12-12
Sample No.: 003-2212-0904223
Reference: h290

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

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

Product: 2966

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

Moisture 16.09%
 Dry Matter 83.91%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	17.32	20.20	15.38 - 23.97
AD-ICP	%DM	1.41	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.77	2.89	1.63 - 4.06
Protein Sol.	%CP	41.40	37.11	27.47 - 47.14
ADF	%DM	40.62	32.35	25.50 - 41.78
aNDF	%DM	48.34	40.02	31.89 - 51.84
aNDFom	%DM	46.92	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	8.66	7.42	5.84 - 9.64
Lignin	%NDFom	18.46		
NDFD 30	%NDFom	36.72	39.57	31.30 - 48.12
NDFD240	%NDFom	42.07	51.00	41.46 - 61.86
uNDFom30	%DM	29.69	22.24	16.48 - 29.48
uNDFom240	%DM	27.18	19.65	12.95 - 27.75
Starch	%DM	0.77	1.88	0.28 - 3.74
Fat (EE)	%DM	1.76	2.41	1.77 - 3.35
TFA (fat)	%DM	0.79	1.29	0.81 - 2.33
Ash	%DM	9.36	11.16	9.15 - 13.82
Calcium	%DM	1.53	1.54	1.19 - 1.84
Phosphorus	%DM	0.28	0.31	0.23 - 0.39
Magnesium	%DM	0.37	0.32	0.25 - 0.41
Potassium	%DM	1.84	2.62	1.83 - 3.36
Sulfur	%DM	0.22	0.25	0.17 - 0.33
Chloride	%DM	0.28	0.52	0.16 - 1.13
Sugar (ESC)	%DM	4.49	6.03	2.71 - 9.16
Sugar (WSC)	%DM	6.07	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	17.32
NFC	%DM	27.38
NSC	%DM	6.84
RFV		110.08
RFQ		100.85
NDF kd rate Van Amb	%/hr	3.13
NDF kd rate MIR_P1	%/hr	6.99