



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

Sample Date: 2022-12-13
 Sample No.: 003-2212-0904833
 Reference: sno1

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

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

Product: 2967

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

Moisture 13.40%
 Dry Matter 86.60%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.01	20.20	15.38 - 23.97
AD-ICP	%DM	1.43	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.55	2.89	1.63 - 4.06
Protein Sol.	%CP	37.93	37.11	27.47 - 47.14
ADF	%DM	35.29	32.35	25.50 - 41.78
aNDF	%DM	41.12	40.02	31.89 - 51.84
aNDFom	%DM	39.94	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.67	7.42	5.84 - 9.64
Lignin	%NDFom	19.20		
NDFD 30	%NDFom	39.38	39.57	31.30 - 48.12
NDFD240	%NDFom	44.99	51.00	41.46 - 61.86
uNDFom30	%DM	24.21	22.24	16.48 - 29.48
uNDFom240	%DM	21.97	19.65	12.95 - 27.75
Starch	%DM	2.60	1.88	0.28 - 3.74
Fat (EE)	%DM	2.41	2.41	1.77 - 3.35
TFA (fat)	%DM	1.16	1.29	0.81 - 2.33
Ash	%DM	10.03	11.16	9.15 - 13.82
Calcium	%DM	0.96	1.54	1.19 - 1.84
Phosphorus	%DM	0.36	0.31	0.23 - 0.39
Magnesium	%DM	0.30	0.32	0.25 - 0.41
Potassium	%DM	2.06	2.62	1.83 - 3.36
Sulfur	%DM	0.22	0.25	0.17 - 0.33
Chloride	%DM	0.72	0.52	0.16 - 1.13
Sugar (ESC)	%DM	6.35	6.03	2.71 - 9.16
Sugar (WSC)	%DM	8.46	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	20.01
NFC	%DM	30.41
NSC	%DM	11.06
RFV		139.01
RFQ		134.34
NDF kd rate Van Amb	%/hr	3.67
NDF kd rate MIR_P1	%/hr	7.06



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Sample Date: 2022-12-13
Sample No.: 003-2212-0905560
Reference: sno14

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

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

Product: 2970

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

Moisture	13.61%
Dry Matter	86.39%

Alfalfa hay statistics provided for comparison.

		Dry Basis	Median	90% Range
Crude Protein	%DM	19.48	20.20	15.38 - 23.97
AD-ICP	%DM	1.38	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.42	2.89	1.63 - 4.06
Protein Sol.	%CP	41.02	37.11	27.47 - 47.14
ADF	%DM	33.32	32.35	25.50 - 41.78
aNDF	%DM	39.51	40.02	31.89 - 51.84
aNDFom	%DM	38.41	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	6.82	7.42	5.84 - 9.64
Lignin	%NDFom	17.76		
NDFD 30	%NDFom	45.85	39.57	31.30 - 48.12
NDFD240	%NDFom	49.73	51.00	41.46 - 61.86
uNDFom30	%DM	20.80	22.24	16.48 - 29.48
uNDFom240	%DM	19.31	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.81	2.41	1.77 - 3.35
TFA (fat)	%DM	1.39	1.29	0.81 - 2.33
Ash	%DM	10.62	11.16	9.15 - 13.82
Calcium	%DM	1.04	1.54	1.19 - 1.84
Phosphorus	%DM	0.35	0.31	0.23 - 0.39
Magnesium	%DM	0.32	0.32	0.25 - 0.41
Potassium	%DM	1.96	2.62	1.83 - 3.36
Sulfur	%DM	0.18	0.25	0.17 - 0.33
Chloride	%DM	0.60	0.52	0.16 - 1.13
Sugar (ESC)	%DM	7.61	6.03	2.71 - 9.16
Sugar (WSC)	%DM	10.16	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	19.48
NFC	%DM	31.52
NSC	%DM	10.41
RFV		148.32
RFQ		155.65
NDF kd rate Van Amb	%/hr	4.39
NDF kd rate MIR_P1	%/hr	8.65



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Sample Date: 2022-12-13
 Sample No.: 003-2212-0905561
 Reference: sno15

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

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

Product: 2971

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

Moisture	14.16%
Dry Matter	85.84%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.53	20.20	15.38 - 23.97
AD-ICP	%DM	1.73	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.55	2.89	1.63 - 4.06
Protein Sol.	%CP	45.79	37.11	27.47 - 47.14
ADF	%DM	41.22	32.35	25.50 - 41.78
aNDF	%DM	47.52	40.02	31.89 - 51.84
aNDFom	%DM	45.74	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	8.57	7.42	5.84 - 9.64
Lignin	%NDFom	18.74		
NDFD 30	%NDFom	31.31	39.57	31.30 - 48.12
NDFD240	%NDFom	36.90	51.00	41.46 - 61.86
uNDFom30	%DM	31.42	22.24	16.48 - 29.48
uNDFom240	%DM	28.86	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.25	2.41	1.77 - 3.35
TFA (fat)	%DM	1.16	1.29	0.81 - 2.33
Ash	%DM	8.77	11.16	9.15 - 13.82
Calcium	%DM	1.06	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	1.61	2.62	1.83 - 3.36
Sulfur	%DM	0.21	0.25	0.17 - 0.33
Chloride	%DM	0.51	0.52	0.16 - 1.13
Sugar (ESC)	%DM	5.19	6.03	2.71 - 9.16
Sugar (WSC)	%DM	6.89	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	20.53
NFC	%DM	25.36
NSC	%DM	7.14
RFV		111.38
RFQ		93.91
NDF kd rate Van Amb	%/hr	2.51
NDF kd rate MIR_P1	%/hr	6.39



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Sample Date: 2022-12-13
Sample No.: 003-2212-0904834
Reference: sno2

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

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

Product: 2972

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

Moisture 16.25%
 Dry Matter 83.75%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.91	20.20	15.38 - 23.97
AD-ICP	%DM	1.63	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.91	2.89	1.63 - 4.06
Protein Sol.	%CP	48.21	37.11	27.47 - 47.14
ADF	%DM	39.29	32.35	25.50 - 41.78
aNDF	%DM	46.03	40.02	31.89 - 51.84
aNDFom	%DM	44.30	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.87	7.42	5.84 - 9.64
Lignin	%NDFom	17.77		
NDFD 30	%NDFom	42.78	39.57	31.30 - 48.12
NDFD240	%NDFom	47.72	51.00	41.46 - 61.86
uNDFom30	%DM	25.35	22.24	16.48 - 29.48
uNDFom240	%DM	23.16	19.65	12.95 - 27.75
Starch	%DM	0.47	1.88	0.28 - 3.74
Fat (EE)	%DM	2.30	2.41	1.77 - 3.35
TFA (fat)	%DM	1.19	1.29	0.81 - 2.33
Ash	%DM	10.86	11.16	9.15 - 13.82
Calcium	%DM	0.95	1.54	1.19 - 1.84
Phosphorus	%DM	0.39	0.31	0.23 - 0.39
Magnesium	%DM	0.27	0.32	0.25 - 0.41
Potassium	%DM	3.08	2.62	1.83 - 3.36
Sulfur	%DM	0.22	0.25	0.17 - 0.33
Chloride	%DM	0.44	0.52	0.16 - 1.13
Sugar (ESC)	%DM	3.69	6.03	2.71 - 9.16
Sugar (WSC)	%DM	5.66	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	20.91
NFC	%DM	24.65
NSC	%DM	6.13
RFV		117.94
RFQ		119.63
NDF kd rate Van Amb	%/hr	3.85
NDF kd rate MIR_P1	%/hr	7.69



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Sample Date: 2022-12-13
Sample No.: 003-2212-0904835
Reference: sno3

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

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

Product: 2973

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

Moisture 17.84%
 Dry Matter 82.16%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	10.42	9.38	4.95 - 16.48
AD-ICP	%DM	1.07	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.19	3.31	1.29 - 4.68
Protein Sol.	%CP	32.05	26.07	8.61 - 48.90
ADF	%DM	38.78	40.44	31.75 - 50.23
aNDF	%DM	59.53	60.92	48.19 - 72.71
aNDFom	%DM	55.96	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.88	6.52	3.94 - 9.40
Lignin	%NDFom	8.72		
NDFD 30	%NDFom	43.98	49.20	36.20 - 65.52
NDFD240	%NDFom	67.42	66.50	52.42 - 80.59
uNDFom30	%DM	31.35	28.34	14.70 - 40.90
uNDFom240	%DM	18.23	19.99	10.26 - 30.38
Starch	%DM	6.32	1.81	0.25 - 7.32
Fat (EE)	%DM	3.73	2.57	1.58 - 3.71
TFA (fat)	%DM	1.65	1.19	0.49 - 2.17
Ash	%DM	9.44	9.35	6.12 - 13.03
Calcium	%DM	0.38	0.61	0.25 - 1.15
Phosphorus	%DM	0.32	0.22	0.11 - 0.35
Magnesium	%DM	0.16	0.20	0.12 - 0.33
Potassium	%DM	1.37	1.82	0.69 - 3.03
Sulfur	%DM	0.13	0.14	0.07 - 0.25
Chloride	%DM	1.01	0.31	0.07 - 0.89
Sugar (ESC)	%DM	5.43	6.34	2.16 - 10.37
Sugar (WSC)	%DM	6.14	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	10.38
NFC	%DM	23.72
NSC	%DM	12.46
RFV		91.90
RFQ		117.78
NDF kd rate Van Amb	%/hr	2.55
NDF kd rate MIR_P1	%/hr	3.58



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Sample Date: 2022-12-13
Sample No.: 003-2212-0904836
Reference: sno4

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

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

Product: 2976

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

Moisture 14.43%
 Dry Matter 85.57%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	25.71	20.20	15.38 - 23.97
AD-ICP	%DM	1.71	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.13	2.89	1.63 - 4.06
Protein Sol.	%CP	40.06	37.11	27.47 - 47.14
ADF	%DM	34.90	32.35	25.50 - 41.78
aNDF	%DM	40.63	40.02	31.89 - 51.84
aNDFom	%DM	39.37	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.43	7.42	5.84 - 9.64
Lignin	%NDFom	18.87		
NDFD 30	%NDFom	37.08	39.57	31.30 - 48.12
NDFD240	%NDFom	42.65	51.00	41.46 - 61.86
uNDFom30	%DM	24.77	22.24	16.48 - 29.48
uNDFom240	%DM	22.58	19.65	12.95 - 27.75
Starch	%DM	0.40	1.88	0.28 - 3.74
Fat (EE)	%DM	2.20	2.41	1.77 - 3.35
TFA (fat)	%DM	1.05	1.29	0.81 - 2.33
Ash	%DM	10.97	11.16	9.15 - 13.82
Calcium	%DM	0.95	1.54	1.19 - 1.84
Phosphorus	%DM	0.44	0.31	0.23 - 0.39
Magnesium	%DM	0.28	0.32	0.25 - 0.41
Potassium	%DM	2.58	2.62	1.83 - 3.36
Sulfur	%DM	0.28	0.25	0.17 - 0.33
Chloride	%DM	0.82	0.52	0.16 - 1.13
Sugar (ESC)	%DM	4.05	6.03	2.71 - 9.16
Sugar (WSC)	%DM	4.75	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	25.71
NFC	%DM	25.03
NSC	%DM	5.15
RFV		141.12
RFQ		129.31
NDF kd rate Van Amb	%/hr	3.19
NDF kd rate MIR_P1	%/hr	6.90



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Sample Date: 2022-12-13
Sample No.: 003-2212-0904837
Reference: sno5

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

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

Product: 2977

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

Moisture 13.52%
 Dry Matter 86.48%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.98	9.38	4.95 - 16.48
AD-ICP	%DM	1.20	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	2.99	3.31	1.29 - 4.68
Protein Sol.	%CP	37.93	26.07	8.61 - 48.90
ADF	%DM	37.50	40.44	31.75 - 50.23
aNDF	%DM	57.34	60.92	48.19 - 72.71
aNDFom	%DM	53.13	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	4.38	6.52	3.94 - 9.40
Lignin	%NDFom	8.24		
NDFD 30	%NDFom	55.88	49.20	36.20 - 65.52
NDFD240	%NDFom	74.03	66.50	52.42 - 80.59
uNDFom30	%DM	23.44	28.34	14.70 - 40.90
uNDFom240	%DM	13.80	19.99	10.26 - 30.38
Starch	%DM	0.25	1.81	0.25 - 7.32
Fat (EE)	%DM	3.21	2.57	1.58 - 3.71
TFA (fat)	%DM	1.54	1.19	0.49 - 2.17
Ash	%DM	11.83	9.35	6.12 - 13.03
Calcium	%DM	0.52	0.61	0.25 - 1.15
Phosphorus	%DM	0.39	0.22	0.11 - 0.35
Magnesium	%DM	0.23	0.20	0.12 - 0.33
Potassium	%DM	2.15	1.82	0.69 - 3.03
Sulfur	%DM	0.21	0.14	0.07 - 0.25
Chloride	%DM	0.78	0.31	0.07 - 0.89
Sugar (ESC)	%DM	5.36	6.34	2.16 - 10.37
Sugar (WSC)	%DM	7.12	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	16.98
NFC	%DM	18.51
NSC	%DM	7.37
RFV		96.71
RFQ		126.34
NDF kd rate Van Amb	%/hr	3.61
NDF kd rate MIR_P1	%/hr	4.77



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Sample Date: 2022-12-13
 Sample No.: 003-2212-0904838
 Reference: sno6

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

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

Product: 2978

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

Moisture 15.08%
 Dry Matter 84.92%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	18.78	20.20	15.38 - 23.97
AD-ICP	%DM	1.63	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.71	2.89	1.63 - 4.06
Protein Sol.	%CP	38.02	37.11	27.47 - 47.14
ADF	%DM	34.86	32.35	25.50 - 41.78
aNDF	%DM	40.55	40.02	31.89 - 51.84
aNDFom	%DM	38.98	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	7.18	7.42	5.84 - 9.64
Lignin	%NDFom	18.42		
NDFD 30	%NDFom	40.28	39.57	31.30 - 48.12
NDFD240	%NDFom	44.66	51.00	41.46 - 61.86
uNDFom30	%DM	23.28	22.24	16.48 - 29.48
uNDFom240	%DM	21.57	19.65	12.95 - 27.75
Starch	%DM	0.25	1.88	0.28 - 3.74
Fat (EE)	%DM	2.95	2.41	1.77 - 3.35
TFA (fat)	%DM	1.42	1.29	0.81 - 2.33
Ash	%DM	10.06	11.16	9.15 - 13.82
Calcium	%DM	1.03	1.54	1.19 - 1.84
Phosphorus	%DM	0.33	0.31	0.23 - 0.39
Magnesium	%DM	0.30	0.32	0.25 - 0.41
Potassium	%DM	1.85	2.62	1.83 - 3.36
Sulfur	%DM	0.17	0.25	0.17 - 0.33
Chloride	%DM	0.69	0.52	0.16 - 1.13
Sugar (ESC)	%DM	9.26	6.03	2.71 - 9.16
Sugar (WSC)	%DM	10.10	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	18.78
NFC	%DM	32.47
NSC	%DM	10.35
RFV		141.67
RFQ		139.80
NDF kd rate Van Amb	%/hr	3.60
NDF kd rate MIR_P1	%/hr	7.87



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Sample Date: 2022-12-13
Sample No.: 003-2212-0904839
Reference: sno7

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

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

Product: 2979

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

Moisture 13.86%
 Dry Matter 86.14%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	8.87	9.38	4.95 - 16.48
AD-ICP	%DM	1.21	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	1.62	3.31	1.29 - 4.68
Protein Sol.	%CP	28.86	26.07	8.61 - 48.90
ADF	%DM	39.43	40.44	31.75 - 50.23
aNDF	%DM	60.44	60.92	48.19 - 72.71
aNDFom	%DM	57.50	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	6.08	6.52	3.94 - 9.40
Lignin	%NDFom	10.57		
NDFD 30	%NDFom	35.03	49.20	36.20 - 65.52
NDFD240	%NDFom	57.81	66.50	52.42 - 80.59
uNDFom30	%DM	37.36	28.34	14.70 - 40.90
uNDFom240	%DM	24.26	19.99	10.26 - 30.38
Starch	%DM	2.50	1.81	0.25 - 7.32
Fat (EE)	%DM	2.72	2.57	1.58 - 3.71
TFA (fat)	%DM	1.12	1.19	0.49 - 2.17
Ash	%DM	8.12	9.35	6.12 - 13.03
Calcium	%DM	0.62	0.61	0.25 - 1.15
Phosphorus	%DM	0.22	0.22	0.11 - 0.35
Magnesium	%DM	0.24	0.20	0.12 - 0.33
Potassium	%DM	0.50	1.82	0.69 - 3.03
Sulfur	%DM	0.10	0.14	0.07 - 0.25
Chloride	%DM	0.27	0.31	0.07 - 0.89
Sugar (ESC)	%DM	11.12	6.34	2.16 - 10.37
Sugar (WSC)	%DM	12.47	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.35
NFC	%DM	25.01
NSC	%DM	14.97
RFV		89.75
RFQ		99.31
NDF kd rate Van Amb	%/hr	2.01
NDF kd rate MIR_P1	%/hr	3.16



Dairyland Laboratories
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Email: info@dairylandlabs.com

Sample Date: 2022-12-13
Sample No.: 003-2212-0904840
Reference: sno8

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

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

Product: 2980

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

Moisture 17.27%
 Dry Matter 82.73%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	16.54	20.20	15.38 - 23.97
AD-ICP	%DM	1.40	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.58	2.89	1.63 - 4.06
Protein Sol.	%CP	43.17	37.11	27.47 - 47.14
ADF	%DM	44.35	32.35	25.50 - 41.78
aNDF	%DM	53.47	40.02	31.89 - 51.84
aNDFom	%DM	52.27	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	8.05	7.42	5.84 - 9.64
Lignin	%NDFom	15.40		
NDFD 30	%NDFom	40.94	39.57	31.30 - 48.12
NDFD240	%NDFom	45.90	51.00	41.46 - 61.86
uNDFom30	%DM	30.87	22.24	16.48 - 29.48
uNDFom240	%DM	28.28	19.65	12.95 - 27.75
Starch	%DM	0.62	1.88	0.28 - 3.74
Fat (EE)	%DM	2.20	2.41	1.77 - 3.35
TFA (fat)	%DM	0.99	1.29	0.81 - 2.33
Ash	%DM	9.64	11.16	9.15 - 13.82
Calcium	%DM	0.78	1.54	1.19 - 1.84
Phosphorus	%DM	0.34	0.31	0.23 - 0.39
Magnesium	%DM	0.28	0.32	0.25 - 0.41
Potassium	%DM	1.93	2.62	1.83 - 3.36
Sulfur	%DM	0.15	0.25	0.17 - 0.33
Chloride	%DM	0.49	0.52	0.16 - 1.13
Sugar (ESC)	%DM	4.25	6.03	2.71 - 9.16
Sugar (WSC)	%DM	5.63	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	16.54
NFC	%DM	22.14
NSC	%DM	6.25
RFV		94.38
RFQ		93.25
NDF kd rate Van Amb	%/hr	3.14
NDF kd rate MIR_P1	%/hr	7.55



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Email: info@dairylandlabs.com

Sample Date: 2022-12-13
Sample No.: 003-2212-0905562
Reference: sno16

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

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

Product: 7581

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

Moisture	13.48%
Dry Matter	86.52%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	8.77	9.38	4.95 - 16.48
AD-ICP	%DM	0.99	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	1.40	3.31	1.29 - 4.68
Protein Sol.	%CP	33.07	26.07	8.61 - 48.90
ADF	%DM	43.21	40.44	31.75 - 50.23
aNDF	%DM	66.29	60.92	48.19 - 72.71
aNDFom	%DM	62.31	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.47	6.52	3.94 - 9.40
Lignin	%NDFom	8.78		
Lignin input (uNDF/2.4)	%DM	9.55		
NDFD12	%NDFom	22.52	30.40	21.40 - 45.10
NDFD 24	%NDFom	37.19	44.47	31.08 - 58.96
NDFD 30	%NDFom	41.66	49.20	36.20 - 65.52
NDFD 48	%NDFom	47.57	53.28	40.58 - 67.44
NDFD240	%NDFom	63.20	66.50	52.42 - 80.59
uNDFom12	%DM	48.28	38.70	24.80 - 48.50
uNDFom24	%DM	39.14	31.41	18.71 - 43.44
uNDFom30	%DM	36.35	28.34	14.70 - 40.90
uNDFom48	%DM	32.67	25.19	12.84 - 35.91
uNDFom240	%DM	22.93	19.99	10.26 - 30.38
Starch	%DM	3.42	1.81	0.25 - 7.32
Fat (EE)	%DM	2.27	2.57	1.58 - 3.71
TFA (fat)	%DM	0.91	1.19	0.49 - 2.17
16:0 Palmitic	%TFA	17.58	24.05	18.05 - 36.79
18:0 Stearic	%TFA	5.49	6.16	3.37 - 10.76
18:1 Oleic	%TFA	7.69	8.70	4.24 - 26.61
18:2 Linoleic	%TFA	13.19	12.66	3.64 - 26.39
18:3 Linolenic	%TFA	54.95	47.06	8.75 - 59.69
Ash	%DM	11.44	9.35	6.12 - 13.03
Calcium	%DM	0.38	0.61	0.25 - 1.15
Phosphorus	%DM	0.24	0.22	0.11 - 0.35
Magnesium	%DM	0.16	0.20	0.12 - 0.33
Potassium	%DM	1.00	1.82	0.69 - 3.03
Sulfur	%DM	0.15	0.14	0.07 - 0.26



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Sample Date: 2022-12-13
Sample No.: 003-2212-0905562
Reference: sno16

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

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

Product: 7581

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

Chloride	%DM	0.79	0.31	0.07 - 0.89
Sugar (ESC)	%DM	10.34	6.34	2.16 - 10.37
Sugar (WSC)	%DM	11.50	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	8.59		
NFC	%DM	16.97		
NSC	%DM	14.92		
RFV		77.51		
RFQ		85.93		
NDF kd rate Van Amb	%/hr	2.59		
NDF kd rate MIR_P1	%/hr	3.71		

		ADF	OARDC	MLK 2013
TDN	%DM	55.24	52.52	42.52
Nel 3x	Mcal/cwt	56.14	53.03	48.88
Neg	Mcal/cwt	23.75	22.58	8.31
Nem	Mcal/cwt	48.92	47.65	32.48
Milk per ton	lbs/ton			1718



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Sample Date: 2022-12-13
Sample No.: 003-2212-0905419
Reference: sno12

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

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

Product: 7582

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

Moisture 14.78%
 Dry Matter 85.22%

Alfalfa hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	20.74	20.20	15.38 - 23.97
AD-ICP	%DM	1.72	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	2.58	2.89	1.63 - 4.06
Protein Sol.	%CP	45.52	37.11	27.47 - 47.14
ADF	%DM	39.24	32.35	25.50 - 41.78
aNDF	%DM	46.15	40.02	31.89 - 51.84
aNDFom	%DM	45.23	37.38	29.26 - 48.46
Lignin (Sulfuric Acid)	%DM	8.49	7.42	5.84 - 9.64
Lignin	%NDFom	18.77		
NDFD 30	%NDFom	34.62	39.57	31.30 - 48.12
NDFD240	%NDFom	39.40	51.00	41.46 - 61.86
uNDFom30	%DM	29.57	22.24	16.48 - 29.48
uNDFom240	%DM	27.41	19.65	12.95 - 27.75
Starch	%DM	0.64	1.88	0.28 - 3.74
Fat (EE)	%DM	1.93	2.41	1.77 - 3.35
TFA (fat)	%DM	1.07	1.29	0.81 - 2.33
Ash	%DM	9.52	11.16	9.15 - 13.82
Calcium	%DM	1.16	1.54	1.19 - 1.84
Phosphorus	%DM	0.33	0.31	0.23 - 0.39
Magnesium	%DM	0.28	0.32	0.25 - 0.41
Potassium	%DM	1.96	2.62	1.83 - 3.36
Sulfur	%DM	0.19	0.25	0.17 - 0.33
Chloride	%DM	0.43	0.52	0.16 - 1.13
Sugar (ESC)	%DM	5.50	6.03	2.71 - 9.16
Sugar (WSC)	%DM	6.94	7.14	3.32 - 10.19

Calculations

Adjusted Crude Protein	%DM	20.74
NFC	%DM	25.02
NSC	%DM	7.58
RFV		117.56
RFQ		104.06
NDF kd rate Van Amb	%/hr	2.92
NDF kd rate MIR_P1	%/hr	7.15



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Sample Date: 2022-12-13
Sample No.: 003-2212-0905420
Reference: sno13

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

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

Product: 7583

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

Moisture 13.97%
 Dry Matter 86.03%

Mixed grass hay statistics provided for comparison.

		<u>Dry Basis</u>	<u>Median</u>	<u>90% Range</u>
Crude Protein	%DM	10.72	9.38	4.95 - 16.48
AD-ICP	%DM	1.23	1.15	0.62 - 1.79
ND-ICP w/SS	%DM	1.63	3.31	1.29 - 4.68
Protein Sol.	%CP	37.03	26.07	8.61 - 48.90
ADF	%DM	43.30	40.44	31.75 - 50.23
aNDF	%DM	65.03	60.92	48.19 - 72.71
aNDFom	%DM	61.37	57.38	43.04 - 68.85
Lignin (Sulfuric Acid)	%DM	5.57	6.52	3.94 - 9.40
Lignin	%NDFom	9.08		
NDFD 30	%NDFom	41.06	49.20	36.20 - 65.52
NDFD240	%NDFom	63.39	66.50	52.42 - 80.59
uNDFom30	%DM	36.17	28.34	14.70 - 40.90
uNDFom240	%DM	22.47	19.99	10.26 - 30.38
Starch	%DM	1.82	1.81	0.25 - 7.32
Fat (EE)	%DM	2.29	2.57	1.58 - 3.71
TFA (fat)	%DM	1.00	1.19	0.49 - 2.17
Ash	%DM	13.70	9.35	6.12 - 13.03
Calcium	%DM	0.43	0.61	0.25 - 1.15
Phosphorus	%DM	0.24	0.22	0.11 - 0.35
Magnesium	%DM	0.16	0.20	0.12 - 0.33
Potassium	%DM	1.02	1.82	0.69 - 3.03
Sulfur	%DM	0.15	0.14	0.07 - 0.25
Chloride	%DM	0.86	0.31	0.07 - 0.89
Sugar (ESC)	%DM	9.13	6.34	2.16 - 10.37
Sugar (WSC)	%DM	10.10	8.25	3.29 - 12.93

Calculations

Adjusted Crude Protein	%DM	10.47
NFC	%DM	13.84
NSC	%DM	11.92
RFV		79.12
RFQ		81.32
NDF kd rate Van Amb	%/hr	2.35
NDF kd rate MIR_P1	%/hr	3.54