

Account No. : 31810

NIR Analysis Report

LYTLE, RUSTY
22781 CROOKED CREEK RD
WALL SD 57790

Invoice No. : 1406950
Date Received : 07/28/2023
Date Reported : 08/01/2023

Lab Number : 5775

Results For : RUSTY LYTLE
Sample ID : 1-1ST CUTTING NR113
Description : HAY

	Analysis As Received	Analysis Dry Basis
Moisture, %	14.63	0.00
Dry Matter, %	85.37	100.00
PROTEIN		
Crude Protein, %	15.7	18.4
FIBERS		
Acid Detergent Fiber, %	23.3	27.3
Neutral Detergent Fiber, %	29.2	34.3
NDFD (digestibility) 48 hr, % of NDF		47
IVTDMD (in vitro true digestibility) 48 hr, %	71.6	83.9
ENERGIES		
TDN Est., %	52.8	61.9
Net Energy Lact, MCal/lb	0.5407	0.6334
Net Energy Maint, MCal/lb	0.5323	0.6236
Net Energy Gain, MCal/lb	0.3079	0.3607
QUALITY VALUE		
Relative Feed Value		184
Relative Forage Quality		190
MINERALS		
Calcium, % Ca	0.86	1.01
Phosphorus, % P	0.19	0.22
Potassium, % K	2.27	2.66
Magnesium, % Mg	0.24	0.28
Ash, %	7.53	8.82
OTHER ANALYSIS		
Fat, %	1.7	1.9
Starch, %	2.1	2.5
Lignin, %	5.45	6.38
Non Fiber Carbohydrates, %	33.0	38.6
Ethanol-Soluble Carbohydrates, %	7.5	8.8
Water-Soluble Carbohydrates, %	9.4	11.0

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Invoice No. : 1406950
Date Received : 07/28/2023
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Lab Number : 5781

Results For : RUSTY LYTLE
Sample ID : GARRISON S 1/2 - 156 S STOCK
Description : 1ST CUTTING ALFALFA

	Analysis As Received	Analysis Dry Basis
Moisture, %	13.76	0.00
Dry Matter, %	86.24	100.00
PROTEIN		
Crude Protein, %	16.4	19.1
FIBERS		
Acid Detergent Fiber, %	23.5	27.3
Neutral Detergent Fiber, %	27.9	32.4
NDFD (digestibility) 48 hr, % of NDF		50
IVTDMD (in vitro true digestibility) 48 hr, %	74.1	85.9
ENERGIES		
TDN Est., %	53.4	61.9
Net Energy Lact, MCal/lb	0.5464	0.6336
Net Energy Maint, MCal/lb	0.5379	0.6238
Net Energy Gain, MCal/lb	0.3112	0.3609
QUALITY VALUE		
Relative Feed Value		194
Relative Forage Quality		206
MINERALS		
Calcium, % Ca	1.43	1.66
Phosphorus, % P	0.19	0.22
Potassium, % K	2.47	2.86
Magnesium, % Mg	0.26	0.30
Ash, %	8.44	9.79
OTHER ANALYSIS		
Fat, %	1.8	2.0
Starch, %	1.7	2.0
Lignin, %	5.26	6.10
Non Fiber Carbohydrates, %	33.4	38.7
Ethanol-Soluble Carbohydrates, %	7.4	8.5
Water-Soluble Carbohydrates, %	9.0	10.4

Reviewed By : Rebecca Kern

8/1/2023

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WALL SD 57790

Invoice No. : 1405984
Date Received : 07/17/2023
Date Reported : 07/19/2023

Lab Number : 5214

Results For : RUSTY LYTLE
Sample ID : 1 & 3 1ST CUT 340
Description : ALFALFA

	Analysis As Received	Analysis Dry Basis
Moisture, %	13.14	0.00
Dry Matter, %	86.86	100.00
PROTEIN		
Crude Protein, %	17.4	20.1
FIBERS		
Acid Detergent Fiber, %	32.1	37.0
Neutral Detergent Fiber, %	39.8	45.8
NDFD (digestibility) 48 hr, % of NDF		48
IVTDMD (in vitro true digestibility) 48 hr, %	66.1	76.1
ENERGIES		
TDN Est., %	47.4	54.6
Net Energy Lact, MCal/lb	0.4800	0.5526
Net Energy Maint, MCal/lb	0.4453	0.5127
Net Energy Gain, MCal/lb	0.2252	0.2593
QUALITY VALUE		
Relative Feed Value		122
Relative Forage Quality		126
MINERALS		
Calcium, % Ca	1.10	1.27
Phosphorus, % P	0.22	0.25
Potassium, % K	2.23	2.57
Magnesium, % Mg	0.29	0.33
Ash, %	9.02	10.38
OTHER ANALYSIS		
Fat, %	1.5	1.7
Starch, %	0.7	0.9
Lignin, %	7.24	8.33
Non Fiber Carbohydrates, %	20.9	24.0
Ethanol-Soluble Carbohydrates, %	3.7	4.3
Water-Soluble Carbohydrates, %	5.1	5.8

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WALL SD 57790

Invoice No. : 1405984
Date Received : 07/17/2023
Date Reported : 07/19/2023

Lab Number : 5215

Results For : RUSTY LYTLE
Sample ID : GARRISON S1/2 278
Description : ALFALFA

	Analysis As Received	Analysis Dry Basis
Moisture, %	12.19	0.00
Dry Matter, %	87.81	100.00
PROTEIN		
Crude Protein, %	15.4	17.5
FIBERS		
Acid Detergent Fiber, %	24.2	27.6
Neutral Detergent Fiber, %	29.1	33.2
NDFD (digestibility) 48 hr, % of NDF		49
IVTDMD (in vitro true digestibility) 48 hr, %	74.5	84.8
ENERGIES		
TDN Est., %	54.1	61.6
Net Energy Lact, MCal/lb	0.5537	0.6306
Net Energy Maint, MCal/lb	0.5443	0.6198
Net Energy Gain, MCal/lb	0.3138	0.3573
QUALITY VALUE		
Relative Feed Value		189
Relative Forage Quality		199
MINERALS		
Calcium, % Ca	1.41	1.61
Phosphorus, % P	0.17	0.19
Potassium, % K	2.28	2.60
Magnesium, % Mg	0.27	0.31
Ash, %	8.66	9.86
OTHER ANALYSIS		
Fat, %	1.7	2.0
Starch, %	2.0	2.3
Lignin, %	5.25	5.98
Non Fiber Carbohydrates, %	34.7	39.5
Ethanol-Soluble Carbohydrates, %	7.6	8.6
Water-Soluble Carbohydrates, %	9.6	11.0

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