



FORAGE LAB AUSTRALIA

An Affiliate of Cumberland Valley Analytical Services USA

Farm: LIMERICK FARM
Desc: BOBS
Submitter: FORAGE LAB AUSTRALIA, .
Account: ACE LABORATORY SERVICES

Copies to:

Lab ID: 27525 069
Sampled: 12/01/2019
Arrived: 12/05/2019
Completed: 12/09/2019
Reported: 12/09/2019

BOBS

SAMPLE INFORMATION

Lab ID: 27525 069 Version: 1.0
Crop Year: Series:
Feed Type: MIXED FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.1
Dry Matter 88.9

PROTEINS

	% SP	% CP	% DM
Crude Protein			11.6
Adjusted Protein		97.6	11.3
Soluble Protein		36.9	4.3
Ammonia (CPE)	21.6	7.9	0.92
ADF Protein (ADICP)		12.4	1.44
NDF Protein (NDICP)		33.7	3.90
NDR Protein (NDRCP)			
Rumen Degr. Protein		68.4	7.9

FIBER

	% NDF	% DM
ADF	67.7	38.4
aNDF		56.7
aNDFom		54.7
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	7.74	4.39
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		38.7	9.0
Water Soluble CHO (WSC-Sugar)			12.4
Starch	10.5		2.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			1.77
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	10.7
Calcium (%DM)	0.60
Phosphorus (%DM)	0.31
Magnesium (%DM)	0.23
Potassium (%DM)	2.77
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

pH	
Equine TDN (%DM)	46.4
Equine DE (mcal/lb)	0.93
Net Energy Lactation (mj/kg)	5.39
Net Energy Maintenance (mj/kg)	3.46
Net Energy Gain (mj/kg)	1.21
ME (mj/kg)	9
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	5.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	97
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	1268
Dig. Organic Matter Index (kg/tonne)	
Non Fiber Carbohydrates (%DM)	23.20
Non Structural Carbohydrates (%DM)	14.8
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



Values in bold were analyzed by wet chemistry methods.



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FORAGE LAB AUSTRALIA

An Affiliate of Cumberland Valley Analytical Services USA

Farm: LIMERICK FARM
Desc: ROELANDS
Submitter: FORAGE LAB AUSTRALIA, .
Account: ACE LABORATORY SERVICES

Copies to:

Lab ID: 27525 070
Sampled: 12/01/2019
Arrived: 12/05/2019
Completed: 12/09/2019
Reported: 12/09/2019

ROELANDS

SAMPLE INFORMATION			
Lab ID:	27525 070	Version:	1.0
Crop Year:		Series:	
Feed Type:	MIXED FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	8.6
Dry Matter	91.4

PROTEINS	% SP	% CP	% DM
Crude Protein			8.5
Adjusted Protein		94.3	8.0
Soluble Protein		47.2	4.0
Ammonia (CPE)	18.9	8.9	0.76
ADF Protein (ADICP)		15.7	1.34
NDF Protein (NDICP)		30.1	2.57
NDR Protein (NDRCP)			
Rumen Degr. Protein		73.6	6.3

FIBER	% NDF	% DM
ADF	64.5	40.4
aNDF		62.6
aNDFom		61.3
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	7.83	4.90
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		44.5	10.0
Water Soluble CHO (WSC-Sugar)			14.8
Starch	11.0		2.5
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			1.70
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS	
Ash (%DM)	7.36
Calcium (%DM)	0.40
Phosphorus (%DM)	0.23
Magnesium (%DM)	0.20
Potassium (%DM)	1.83
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS	
pH	
Equine TDN (%DM)	44.4
Equine DE (mcal/lb)	0.89
Net Energy Lactation (mj/kg)	5.41
Net Energy Maintenance (mj/kg)	3.27
Net Energy Gain (mj/kg)	1.03
ME (mj/kg)	9
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	3.7
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	85
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	1110
Dig. Organic Matter Index (kg/tonne)	
Non Fiber Carbohydrates (%DM)	22.40
Non Structural Carbohydrates (%DM)	17.3
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



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FORAGE LAB AUSTRALIA

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Farm: LIMERICK FARM
Desc: HENTYDALE
Submitter: FORAGE LAB AUSTRALIA, .
Account: ACE LABORATORY SERVICES

Copies to:

Lab ID: 27525 071
Sampled: 12/01/2019
Arrived: 12/05/2019
Completed: 12/09/2019
Reported: 12/09/2019

HENTYDALE

SAMPLE INFORMATION			
Lab ID:	27525 071	Version:	1.0
Crop Year:		Series:	
Feed Type:	MIXED FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	9.0
Dry Matter	91.0

PROTEINS	% SP	% CP	% DM
Crude Protein			9.6
Adjusted Protein		95.9	9.2
Soluble Protein		43.3	4.2
Ammonia (CPE)	20.7	9.0	0.86
ADF Protein (ADICP)		14.1	1.35
NDF Protein (NDICP)		32.4	3.11
NDR Protein (NDRCP)			
Rumen Degr. Protein		71.6	6.9

FIBER	% NDF	% DM
ADF	65.6	38.5
aNDF		58.6
aNDFom		56.9
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	7.16	4.20
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		43.0	10.3
Water Soluble CHO (WSC-Sugar)			14.5
Starch	9.9		2.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			1.96
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS	
Ash (%DM)	8.95
Calcium (%DM)	0.48
Phosphorus (%DM)	0.27
Magnesium (%DM)	0.24
Potassium (%DM)	2.12
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS	
pH	
Equine TDN (%DM)	46.4
Equine DE (mcal/lb)	0.93
Net Energy Lactation (mj/kg)	5.55
Net Energy Maintenance (mj/kg)	3.53
Net Energy Gain (mj/kg)	1.27
ME (mj/kg)	9.3
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	93
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	1220
Dig. Organic Matter Index (kg/tonne)	
Non Fiber Carbohydrates (%DM)	24.00
Non Structural Carbohydrates (%DM)	16.8
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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FORAGE LAB AUSTRALIA

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Farm: LIMERICK FARM
Desc: BRUNSWICK
Submitter: FORAGE LAB AUSTRALIA, .
Account: ACE LABORATORY SERVICES

Copies to:

Lab ID: 27525 072
Sampled: 12/01/2019
Arrived: 12/05/2019
Completed: 12/09/2019
Reported: 12/09/2019

BRUNSWICK

SAMPLE INFORMATION

Lab ID: 27525 072 Version: 1.0
Crop Year: Series:
Feed Type: MIXED FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 9.5
Dry Matter 90.5

PROTEINS

	% SP	% CP	% DM
Crude Protein			9.6
Adjusted Protein		94.4	9.1
Soluble Protein		41.3	4.0
Ammonia (CPE)	17.8	7.4	0.71
ADF Protein (ADICP)		15.6	1.50
NDF Protein (NDICP)		29.5	2.84
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.7	6.8

FIBER

	% NDF	% DM
ADF	71.9	40.4
aNDF		56.2
aNDFom		54.0
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	9.35	5.25
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		38.1	9.7
Water Soluble CHO (WSC-Sugar)			13.3
Starch	9.5		2.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			1.45
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	10.2
Calcium (%DM)	0.67
Phosphorus (%DM)	0.27
Magnesium (%DM)	0.24
Potassium (%DM)	2.35
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

pH	
Equine TDN (%DM)	45
Equine DE (mcal/lb)	0.90
Net Energy Lactation (mj/kg)	5.64
Net Energy Maintenance (mj/kg)	3.31
Net Energy Gain (mj/kg)	1.07
ME (mj/kg)	8.7
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.9
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	95
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	1173
Dig. Organic Matter Index (kg/tonne)	
Non Fiber Carbohydrates (%DM)	25.40
Non Structural Carbohydrates (%DM)	15.7
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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Farm: LIMERICK FARM
Desc: PIVOT NTH
Submitter: FORAGE LAB AUSTRALIA, .
Account: ACE LABORATORY SERVICES

Copies to:

Lab ID: 27525 073
Sampled: 12/01/2019
Arrived: 12/05/2019
Completed: 12/09/2019
Reported: 12/09/2019

PIVOT NTH

SAMPLE INFORMATION

Lab ID: 27525 073 Version: 1.0
Crop Year: Series:
Feed Type: MIXED FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.0
Dry Matter 89.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			11.3
Adjusted Protein		96.0	10.8
Soluble Protein		35.7	4.0
Ammonia (CPE)	27.6	9.9	1.11
ADF Protein (ADICP)		14.0	1.58
NDF Protein (NDICP)		44.4	5.00
NDR Protein (NDRCP)			
Rumen Degr. Protein		67.9	7.6

FIBER

	% NDF	% DM
ADF	63.7	39.8
aNDF		62.4
aNDFom		59.9
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	7.61	4.75
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		36.2	7.8
Water Soluble CHO (WSC-Sugar)			12.0
Starch	12.7		2.7
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.20
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	7.66
Calcium (%DM)	0.53
Phosphorus (%DM)	0.27
Magnesium (%DM)	0.26
Potassium (%DM)	1.65
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

pH	
Equine TDN (%DM)	46.5
Equine DE (mcal/lb)	0.93
Net Energy Lactation (mj/kg)	5.58
Net Energy Maintenance (mj/kg)	3.49
Net Energy Gain (mj/kg)	1.23
ME (mj/kg)	9.3
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.3
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	86
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	1280
Dig. Organic Matter Index (kg/tonne)	
Non Fiber Carbohydrates (%DM)	21.50
Non Structural Carbohydrates (%DM)	14.8
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



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Farm: LIMERICK FARM
Desc: TRISKELL WINDMILL PDK
Submitter: FORAGE LAB AUSTRALIA, .
Account: ACE LABORATORY SERVICES

Copies to:

Lab ID: 27525 074
Sampled: 12/04/2019
Arrived: 12/05/2019
Completed: 12/09/2019
Reported: 12/09/2019

TRISKELL WINDMILL PDK

SAMPLE INFORMATION			
Lab ID:	27525 074	Version:	1.0
Crop Year:		Series:	
Feed Type:	MIXED FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	11.7
Dry Matter	88.3

PROTEINS	% SP	% CP	% DM
Crude Protein			10.7
Adjusted Protein		95.7	10.2
Soluble Protein		33.7	3.6
Ammonia (CPE)	26.1	8.8	0.94
ADF Protein (ADICP)		14.3	1.53
NDF Protein (NDICP)		47.7	5.09
NDR Protein (NDRCP)			
Rumen Degr. Protein		66.9	7.1

FIBER	% NDF	% DM
ADF	61.5	42.2
aNDF		68.6
aNDFom		66.6
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	7.28	5.00
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		38.0	6.8
Water Soluble CHO (WSC-Sugar)			11.7
Starch	12.5		2.2
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			1.99
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS	
Ash (%DM)	5.93
Calcium (%DM)	0.44
Phosphorus (%DM)	0.25
Magnesium (%DM)	0.23
Potassium (%DM)	1.33
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS	
pH	
Equine TDN (%DM)	43.9
Equine DE (mcal/lb)	0.88
Net Energy Lactation (mj/kg)	5.49
Net Energy Maintenance (mj/kg)	3.17
Net Energy Gain (mj/kg)	0.93
ME (mj/kg)	9.2
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	76
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	1197
Dig. Organic Matter Index (kg/tonne)	
Non Fiber Carbohydrates (%DM)	17.90
Non Structural Carbohydrates (%DM)	14.0
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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FORAGE LAB AUSTRALIA

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Farm: LIMERICK FARM
Desc: BRUNSWICK ROLLS
Submitter: FORAGE LAB AUSTRALIA, .
Account: ACE LABORATORY SERVICES

Copies to:

Lab ID: 27525 075
Sampled: 12/03/2019
Arrived: 12/05/2019
Completed: 12/09/2019
Reported: 12/09/2019

BRUNSWICK ROLLS

SAMPLE INFORMATION			
Lab ID:	27525 075	Version:	1.0
Crop Year:		Series:	
Feed Type:	MIXED FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	11.7
Dry Matter	88.3

PROTEINS	% SP	% CP	% DM
Crude Protein			10.5
Adjusted Protein		93.7	9.9
Soluble Protein		32.2	3.4
Ammonia (CPE)	13.9	4.5	0.47
ADF Protein (ADICP)		16.3	1.71
NDF Protein (NDICP)		38.8	4.08
NDR Protein (NDRCP)			
Rumen Degr. Protein		66.1	6.9

FIBER	% NDF	% DM
ADF	67.4	44.0
aNDF		65.3
aNDFom		62.4
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	9.55	6.24
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		30.5	5.5
Water Soluble CHO (WSC-Sugar)			9.1
Starch	14.8		2.7
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			1.91
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS	
Ash (%DM)	8.40
Calcium (%DM)	0.56
Phosphorus (%DM)	0.28
Magnesium (%DM)	0.23
Potassium (%DM)	1.84
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS	
pH	
Equine TDN (%DM)	41.9
Equine DE (mcal/lb)	0.84
Net Energy Lactation (mj/kg)	5.09
Net Energy Maintenance (mj/kg)	2.88
Net Energy Gain (mj/kg)	0.66
ME (mj/kg)	8.5
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.5
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	78
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	1088
Dig. Organic Matter Index (kg/tonne)	
Non Fiber Carbohydrates (%DM)	17.90
Non Structural Carbohydrates (%DM)	11.7
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



Values in bold were analyzed by wet chemistry methods.



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