SILVERMERE HOLSTEINS

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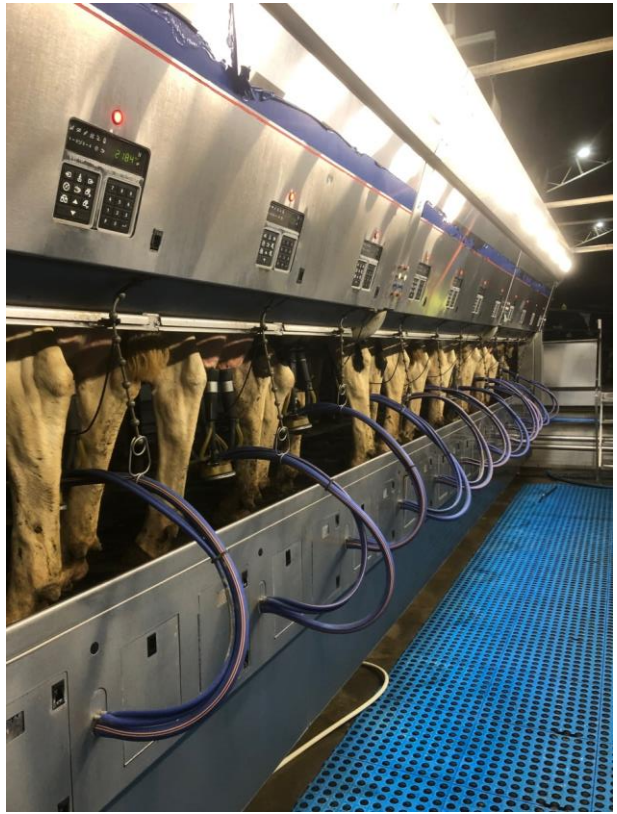
Cowra NSW

The Dairy

- 320 milkers
- 3 x milking per day
- Annual production: 4.5 million litres
- 7 Full time staff



Farm Size

• Total area:	372 ha
• Irrigation area:	160 ha
• Dryland Cropping:	150 ha


GEA


BEFORE AND AFTER
EVERY MILKING
OFF
60
10
ADAM


Supreme
INTERNATIONAL
7001
NEW HOLLAND

Ammonia (CPE)	6.9	4.5	0.92
ADF Protein (ADICP)		6.9	1.40
NDF Protein (NDICP)		8.4	1.72
NDR Protein (NDRCP)			
Rumen Degr. Protein		82.6	16.8
Rumen Deg. CP (Strep.G)			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			88.5	32.2
aNDF		34.6		36.4
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			20.2	7.34
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	43.1	14.9	41.0	14.9
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	46.6	16.1	44.3	16.1
NDF Digestibility (240 hr)	51.2	17.7	48.6	17.7
uNDF (30 hr)	56.9	19.7	59.0	21.5
uNDF (120 hr)	53.4	18.5	55.7	20.3
uNDF (240 hr)	48.8	16.9	51.4	18.7

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids		30.2	9.1
Ethanol Soluble CHO (Sugar)		9.6	2.9
Water Soluble CHO (Sugar)			3.8
Starch		5.1	1.5
Soluble Fiber		59.4	18.0
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			3.67
Fatty Acids (%Fat)			97.0
Crude Fat			3.78

Values in bold were analyzed by wet chemistry methods.

Definitions and explanation of report terms

Molybdenum (PPM)	

QUALITATIVE	
Total VFA (%DM)	9.13
Lactic Acid (%DM)	7.22
Lactic as % of Total VFA	79
Acetic Acid (%DM)	1.91
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	

Soil Contamination Probability	Probable moderate contamination
Nitrate Probability	
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS	
pH	4.19
TDN (%DM)	62.6
Net Energy Lactation (mj/kg)	5.88
Net Energy Maintenance (mj/kg)	5.70
Net Energy Gain (mj/kg)	3.28
ME (mj/kg DM)	9.8
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.77
NDF Dig. Rate (Kd, %HR, uNDF)	4.6
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	163
Relative Forage Quality (RFQ)	168
Milk per Ton (kg/tonne)	1473
Dig. Organic Matter Index (kg/tonne)	264
Non Fiber Carbohydrates (%DM)	30.20
Non Structural Carbohydrates (%DM)	4.4
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	7.8
Summative Index % (Mass Balance)	100.3

Additional sample information, source and lab pictures

Dry Matter			42.0

PROTEINS	% SP	% CP	% DM
Crude Protein			24.5
Adjusted Protein			
Soluble Protein		70.6	17.3
Ammonia (CPE)	4.6	3.2	0.79
ADF Protein (ADICP)		4.6	1.13
NDF Protein (NDICP)		5.2	1.29
NDR Protein (NDRCP)			
Rumen Degr. Protein		85.3	20.9
Rumen Deg. CP (Strep.G)			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			88.3	28.0
aNDF		31.1		31.7
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			18.8	5.95
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	47.3	14.7	46.4	14.7
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	51.5	16.0	50.5	16.0
NDF Digestibility (240 hr)	53.8	16.7	52.7	16.7
uNDF (30 hr)	52.7	16.4	53.6	17.0
uNDF (120 hr)	48.5	15.1	49.5	15.7
uNDF (240 hr)	46.3	14.4	47.3	15.0

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids		26.1	8.0
Ethanol Soluble CHO (Sugar)		10.8	3.3
Water Soluble CHO (Sugar)			4.8
Starch		3.5	1.1
Soluble Fiber		64.3	19.6

Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE	
Total VFA (%DM)	7.96
Lactic Acid (%DM)	6.64
Lactic as % of Total VFA	83
Acetic Acid (%DM)	1.32
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	

Soil Contamination Probability	Probable low to none
Nitrate Probability	Probable moderate nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS	
pH	4.47
TDN (%DM)	66.3
Net Energy Lactation (mj/kg)	6.27
Net Energy Maintenance (mj/kg)	6.22
Net Energy Gain (mj/kg)	3.75
ME (mj/kg DM)	10.3
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	5.46
NDF Dig. Rate (Kd, %HR, uNDF)	5.1
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	197
Relative Forage Quality (RFQ)	224
Milk per Ton (kg/tonne)	1634
Dig. Organic Matter Index (kg/tonne)	305
Non Fiber Carbohydrates (%DM)	30.50
Non Structural Carbohydrates (%DM)	4.4
DCAD (meq/100gdm)	

Feed Planner

Feeds	Milkers	Dry Cows & Heifers	Transition	Heifers 5-15 mths	Calves	Total Tonnes
No. of Head	**320**	**125**	**35**	**120**	**120**	
Cereal Silage	0	8.5	0	2	0	
Lucerne Hay	0	0	0	0	0.7	**475.4**
Lucerne Silage	6.5	0	0	2	0	**30.7**
Corn Silage	7.5	0	4	0	0	**846.8**
Oaten Hay	0	2	3.4	0	0.7	**927.1**
Straw	0.4	1.8	2.6	0	0	**165.3**
Total Forage	14.4	12.3	10	4	1.4	**162.1**
Grain	7	0	0	1	2.5	
Lupins	0	0	0	0	1	**883.7**
Canola	4.1	0	0.4	0.8	1.4	**18.3**
Cottonseed	0.5	0	0	0	0	**568.7**
Premix	1	0.5	0	0.3	0.2	**58.4**
Springer Mix	0	0	2.6	0	0	**161.5**
						33.2
Total	12.6	0.5	3	2.1	5.1	
Concentrate	27	12.8	13	6.1	6.5	
Total						

Milk Production