



South Island Dairying
Development Centre

Accelerating
Environmentally Responsible,
Profitable Dairy Farming.

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2023/24 LUDF BUDGET

Stock

IC MA Cows Wintered	584 cows
With 3 % winter losses (normally 4%), peak milk	566 cows
Budget	565 cows

Target – TAD cows 500 kgMS less 5.7% (10 in 7) = 471 kgMS/cow

Production 22/23 Revised

Peak Cows	541 cows
Total	251,463
Per cow	465 kgMS
Per Ha	1,552 kgMS

Farm Operating Expenditure \$5.50 / kgMS (Farm Working \$5.42 /kgMS)

Production 23/24 Budget

Peak Cows	565
Total	265,550
Per cow	470 kgMS
Per Ha	1,552 kgMS

Farm Operating Expenditure \$5.51 / kgMS (Farm Working \$5.43 /kgMS)

Simple Budget		
LUDF	2023/24 Budget	2022/23 Actual
Production (kgMS)	266,115	247,291
Payout	\$ 6.75	\$ 8.20
Income	\$	\$
Milk income	1,796,276	2,027,786
+/- Changed in Milk Inc.		
Stock income	129,400	173,478
Other income	-	
Gross income	\$ 1,925,676	\$ 2,201,264
Expenses		
Wages	267,527	256,196
Contract Milker	-	
Fertiliser	148,446	162,836
Cropping	19,560	45,325
Supplement + Grazing	541,547	535,661
Breeding	61,698	63,643
Animal Health	73,450	76,429
Calf rearing	21,750	
General Farm Working	10,000	
Vehicles and fuel	26,531	24,073
Dairy shed	8,475	8,053
Contractors	10,000	
Freight	10,000	14,685
Dairy electricity	84,750	66,511
Weed and pest	23,347	1,463
Repairs and Maintenance	92,400	66,511
Irrigation		
Administration	15,000	14,843
Rates	15,792	13,553
DairyNZ	15,967	17,310
Support Lease	6,000	6,000
Insurance	-	
Farm working expenses	\$ 1,452,239	\$ 1,373,092
Operating Adjustments	19,600	19,600
Operating Expenditure	1,471,839	1,392,692
EBIT	453,837	808,572
Plus Fonterra Dividend		
Less Debt servicing	-	-
Capital	-	-
Principal repayments	-	-
Tax	-	-
Drawings/Dividend	-	-
Total Capital / Income expenses	\$ -	\$ -
Net Profit	\$ 453,837	\$ 808,572
Financial Indices		
EBIT	\$ 473,437	\$ 828,172
EBIT/ha	\$ 2,801	\$ 4,991
FWE/kgMS	\$ 5.46	\$ 5.55
Op Ex / kgMS	\$ 5.53	\$ 5.63
FWE: Gross farm income	75%	62%
Debt servicing:EBIT	0%	0%

Farm Details		2023/24
Farm name		LUDF
Effective area		160
Cows wintered		588
Peak cows milked		565
kgMS/cow		471
Total kgMS		266115
Milk Price (\$/kgMS)		\$6.75
R1 Heifers		145
R2 Heifers		143
Carryovers		0

Cost Comparison MRB 2021/22					
Expense	\$/cow or \$/ha			\$/kgMS	
	MRB	Farm Metric		MRB	Farm
Labour/Contract Milker	\$ 431	\$ 455	\$/cow	\$ 0.97	\$ 1.01
Animal health and breeding	\$ 194	\$ 230	\$/cow	\$ 0.43	\$ 0.51
Feed and grazing	\$ 719	\$ 922	\$/cow	\$ 1.59	\$ 2.04
Fertiliser and nitrogen	\$ 879	\$ 928	\$/ha	\$ 0.61	\$ 0.56
Repairs and Maintenance	\$ 434	\$ 578	\$/ha	\$ 0.30	\$ 0.35
Vehicles and Fuel	\$ 200	\$ 166	\$/ha	\$ 0.13	\$ 0.10
Electricity (irrig not included)	\$ 59	\$ 15	\$/cow	\$ 0.13	\$ 0.03
Overheads	\$ 356	\$ 192	\$/ha	\$ 0.25	\$ 0.12

Staffing	\$
Staffing Costs	317,527
Less Demonstration	-50,000
Total Farm Staff costs	267,527
Number of Farm Staff 3.5 *	
Ave Cost p.p.	76,436
* 1 x Farm Manager, 1 x 2IC, 1 x Farm Asst, 0.5 Casual/Calf Rearer	

Cropping Program			
Costs		Dairy Farm	
		Ryegrass Pasture	Plantain Mix
Paddock names		N10	S6 + N
Area (ha)		8	16
Estimated kgDM/ha		0	0
Costs per ha			
Spray out		\$100	\$100
Cultivation		\$0	\$220
Seed		\$364	\$138
Slugbait		\$0	\$0
Starter fertiliser		\$0	\$0
Drilling		\$155	\$155
Urea		\$0	\$0
Post emergence herbicide		\$70	\$130
Insecticide/Fungicide		\$90	\$90
Total cost/ha		\$779	\$833
Total cost		\$779	\$13,328
Cost/kgDM		0	0
Contracting (cultivation and drilling)	\$7,240	\$1,240	\$6,000
Seed	\$5,120	\$2,912	\$2,208
Starter Fertiliser	\$0	\$0	\$0
Urea	\$0	\$0	\$0
Agrichemical	\$7,200	\$2,080	\$5,120
Total cropping cost	\$19,560	\$6,232	\$13,328

Regrassing Program

S6 – plantain early November - 7.6 ha
 NBlk January - 8 ha

Jackies Block

12 ha @ \$780 /ha
 Direct Drill Italian Autumn
 3 X nitrogen @ 40 kgN
 300 kg/ha Super

Supplement Budget as per Farmax					Support	
DM Offered tonnes	F2 Pasture	Silage bcNew Pasture	Total		Baillage	Total
Jun-23	1.68					
Jul-23	1.46		6.24			6.24
Aug-23	34.5		27.3			27.3
Sep-23	25.3		22.7			22.7
Oct-23	0.54					
Nov-23			31.3			31.3
Dec-23						
Jan-24	70.1					
Feb-24						
Mar-24	69.5					
Apr-24	80.3	16.1	19.4			19.4
May-24	57.8	14.5	25.6			25.6
Total	341	30.5	133			133
kg/Milker	604	54	379		60	379
Farmax Dairy 8.2.0.37						
Buffer (tDM)	0	0	0			
\$/t	\$ -	\$ -	\$ 200		\$ 230	
\$/tDM	\$ 480	\$ -	\$ 230		\$ 230	
Total cost	\$ 163,680	\$ -	\$ 30,590	\$ -	\$ -	\$ 208,070

Repairs and Maintenance	\$
Track	8,000
Water supply	1,000
Buildings	10,400
Trees	8,000
Cowshed	20,000
General	30,000
Plant	15,000
Total	92,400

Vehicles	\$
Tractor R&M	6,991
Vehicle R&M	1,340
Fuel & Oil	18,200
Total	26,531

Fertiliser Program and Costs							
Milking platform		160 ha					
Effluent area		0 ha					
Support Area		26 ha					
Cropping Area		0 ha					
Nitrogen		Area (ha)	kgN/ha	N %	\$/t	Total \$	\$/ha
Milking platform	Urea	160	160	46%	\$ 1,009	\$56,153	\$351
Milking platform	Ammo 36	160	25	36%	\$ 951	\$10,567	\$66
Effluent area	Urea	0	100	46%	\$ 1,009	\$0	\$0
Effluent area	Ammo 36	0	25	36%	\$ 951	\$0	\$0
Support Area	Urea	26	100	46%	\$ 1,009	\$5,703	\$219
Support Area	Ammo 36	26	25	46%	\$ 951	\$1,344	\$52
Total cost						\$73,767	
Lime/Dolomite		Area (ha)	t/ha	\$/t	Total \$	\$/ha	
Dairy	Lime	160	0	\$60	\$0	\$0.00	
Effluent area	Lime	0	0.5	\$37	\$0	\$0	
Support	Lime	26	0	\$60	\$0	\$0.00	
Total cost					\$0		
Maintenance		Area (ha)	kg/ha	\$/t	Total \$	\$/ha	
Milking platform	15% Potash Sulphur Su 160	160	400	\$ 713	\$45,632	\$285	
Effluent area	Sulphur Super 15	0	400	\$ 504	\$0	\$0	
Support Area	15% Potash Sulphur Su 26	26	400	\$ 713	\$7,415	\$285	
Total cost					\$53,047		
Other		Area (ha)	kg/ha	\$/t	Total \$	\$/ha	
Silage	Urea	0	80	\$ 1,009	\$0	\$0	
Selenium	Selenium Super	140	2	\$ 2,000	\$560	\$4	
Total Cost					\$560		
Cropping							
Total Cost					\$0		
Spreading		Area	Spreads	\$/ha	Total \$		
Milking platform		160	10	\$ 12	\$ 19,200		
Effluent area		123	0	\$ 35	\$ -		
Support Area		26	6	\$ 12	\$ 1,872		
Silage		0	1	\$ 12	\$ -		
Total Cost				\$	21,072		
Total Fertiliser cost						\$148,446	

FARMAX		Compare Physical Summary			
		<i>Jun 21 - May 22</i>			
		2023/24 Plan	2022/23 Revised	2021/22A	
Farm	Effective Area	160	160	160	ha
	Stocking Rate	3.5	3.4	3.5	cows/ha
	Potential Pasture Growth	18.1	17.3	17.9	t DM/ha
	Nitrogen Use per farm ha	180	172	161	kg N/ha
	Feed Conversion Efficiency (eaten)	11.0	11.0	11.0	kg DM eaten/kg MS
Herd	Cow Numbers (1st July)	565	561	560	cows
	Peak Cows Milked	565	541	557	cows
	Days in Milk	280	273	285	days
	Avg. BCS at calving	5.0	5.0	5.1	BCS
	Liveweight per farm ha	1,699	1,618	1,663	kg/ha
Production (to Factory)	Milk Solids total	266,157	251,583	258,855	kg
	Milk Solids per farm ha	1,663	1,572	1,618	kg/ha
	Milk Solids per cow	471	465	465	kg/cow
	Peak Milk Solids production	2.05	2.04	2.10	kg/cow/day
	Milk Solids as % of live weight	97.9	97.2	97.3	%
Feeding	Pasture Eaten per cow *	4.0	4.0	3.8	t DM/cow
	Supplements Eaten per cow *	0.5	0.5	0.6	t DM/cow
	Off-farm Grazing Eaten per cow *	0.6	0.6	0.7	t DM/cow
	Total Feed Eaten per cow *	5.2	5.1	5.1	t DM/cow
	Pasture Eaten per farm ha	14.2	13.4	14.3	t DM/ha
	Supplements Eaten per farm ha	2.0	1.8	2.8	t DM/ha
	Off-farm Grazing Eaten per farm ha	4.8	4.8	4.5	t DM/ha
	Total Feed Eaten per farm ha	21.0	20.0	21.6	t DM/ha
	Supplements and Grazing / Feed Eaten *	22.2	22.6	25.7	%
	Bought Feed / Feed Eaten *	13.1	13.5	15.6	%

(*) feed eaten by females > 20 months old / peak cows milked
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FARMAX		Supplement Feeding for LUDF DSM			
		<i>Jun 23 - May 24</i>			
DM Offered tonnes	F2 Pasture Silage bought	F2 Pasture Silage	Plantain	New Pasture	Total
Jun 23	1.68				1.68
Jul 23	1.46				1.46
Aug 23	34.5				34.5
Sep 23	25.3				25.3
Oct 23	0.54				0.54
Nov 23					
Dec 23					
Jan 24	70.1				70.1
Feb 24					
Mar 24	69.5				69.5
Apr 24	80.3	16.1			96.4
May 24	57.8	14.5			72.3
Total	341	30.5			372
<i>kg/Milker</i>	<i>604</i>	<i>54.0</i>			<i>658</i>

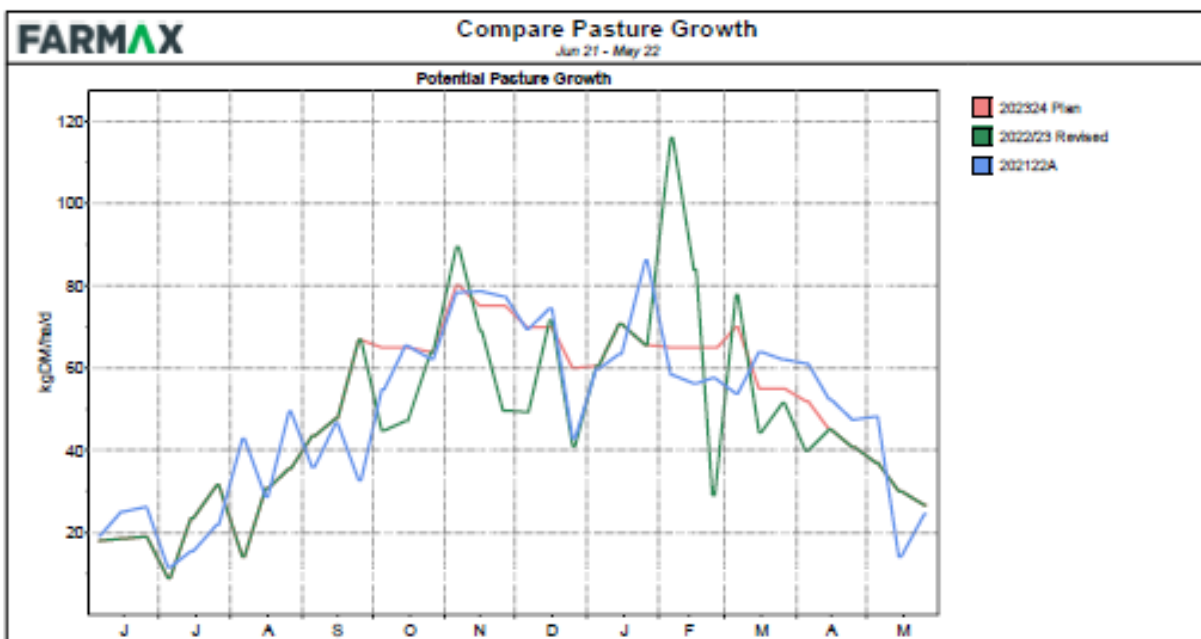
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FARMAX Supplement Feeding for LUDF DSM <i>Jun 22 - May 23</i>				
DM Offered tonnes	F2 Pasture Silage bought	F2 Pasture Silage	Plantain	Total
Jun 22	1.26			1.26
Jul 22	1.08			1.08
Aug 22	31.9			31.9
Sep 22	48.5			48.5
Oct 22	22.4			22.4
Nov 22				
Dec 22	43.1			43.1
Jan 23	11.9			11.9
Feb 23				
Mar 23	59.2			59.2
Apr 23	71.6	15.3		86.8
May 23	40.4			40.4
Total	331	16.3		347
kg/Milker	013	20.3		041

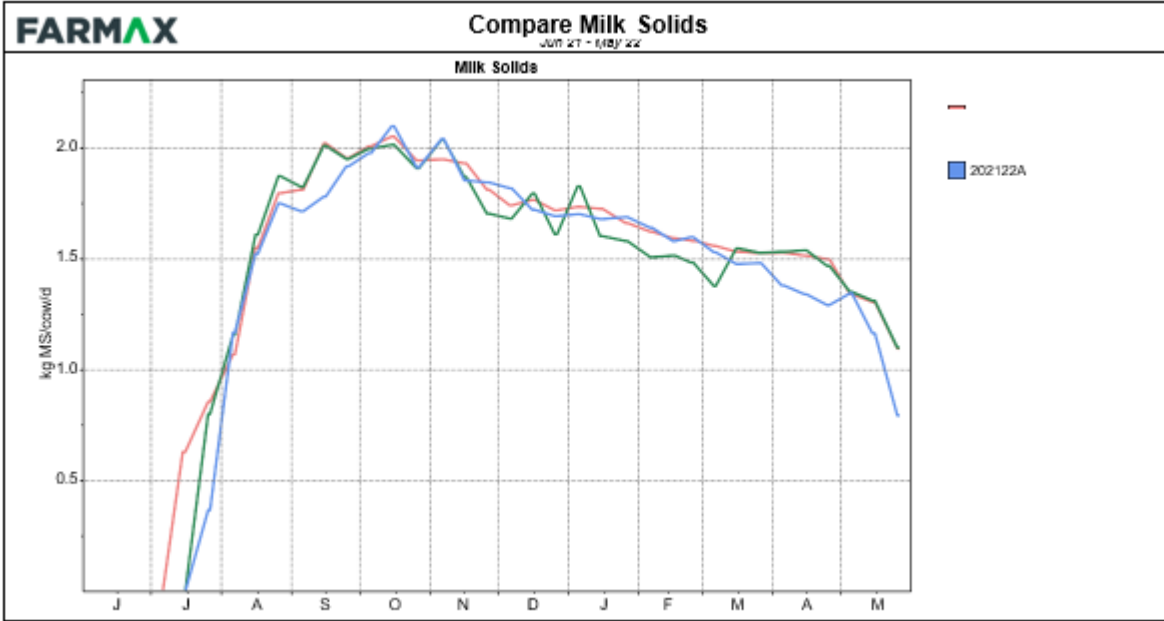
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FARMAX Supplement Feeding for LUDF DSM <i>Jun 21 - May 22</i>				
DM Offered tonnes	F2 Pasture Silage bought	New Pasture		Total
Jun 21	1.15			1.15
Jul 21	0.90			0.90
Aug 21	18.8			18.8
Sep 21	58.0			58.0
Oct 21				
Nov 21				
Dec 21				
Jan 22	86.0			86.0
Feb 22	67.9			67.9
Mar 22	66.8			66.8
Apr 22	83.2			83.2
May 22	40.0			40.0
Total	428			428
kg/Milker	769			769

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Farmax Dairy 8.2.0.37



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