

2009 PASTORAL MONITORING

LOWER NORTH ISLAND DAIRY



THIS REPORT CONTAINS THE KEY RESULTS FROM THE MINISTRY OF AGRICULTURE AND FORESTRY'S 2009 PASTORAL MONITORING PROGRAMME.

This model represents approximately 1100 seasonal supply dairy farms in the bottom half of the North Island, including the regions of Manawatu, Horowhenua, Wairarapa and southern Hawkes Bay.

KEY POINTS

- Milk production rose 2 percent to 115 500 kilograms of milksolids in 2008/09 compared with the previous drought-affected year. Production for 2009/10 is expected to be similar due to the dry and then cold period leading into winter and the pressure to cut costs.
- > Net cash income fell by 30 percent to \$638 900 in 2008/09 as a result of the steep fall in milk payout. A further decline of 6 percent is expected in 2009/10, due to the milk payout falling further.
- > Farm working expenses rose by 9 percent to \$459 900 in 2008/09 due to higher prices for inputs and committing expenditure based on a much higher final payout. Little expenditure could be curtailed as the payout was revised downwards over the year. Farmers are expecting to reduce expenditure by 16 percent in 2009/10.
- The result of the reduced income and increasing expenditure was a cash deficit of about \$120 000 in 2008/09 despite significant cuts in discretionary expenditure. A small cash deficit of just under \$4000 is anticipated in 2009/10 as farmers slash expenditure in anticipation of a lower payout.
- A fairly sombre mood has developed due to these cash deficits, but there is general optimism for the medium to longer term viability of the industry, with the focus now on surviving the next two years.

>>> TABLE1: KEY PARAMETERS, FINANCIAL RESULTS AND BUDGET FOR THE LOWER NORTH ISLAND DAIRY MODEL1



YEAR ENDED 30 JUNE	2006/07	2007/08	2008/09	2009/10 BUDGET
Effective area (ha)	130	130	130	130
Cows wintered (head)	370	370	370	370
Replacement heifers (head)	85	85	85	85
Cows milked 15th December (head)	360	360	360	360
Stocking rate (cows/ha)	2.8	2.8	2.8	2.8
Total milksolids (kg)	114 400	113 500	115 500	115 500
Milksolids per ha (kg/ha)	880	873	888	888
Milksolids per cow milked (kg/cow)	318	315	321	321
MS advance to end June (\$/kg)	3.65	6.62	4.15	3.77
MS deferred payment (\$)	0.50	0.81	1.00	1.05
Net cash income (\$)	518 800	913 000	638 900	599 400
Farm working expenses (\$)	328 400	422 400	459 900	388 000
Farm profit before tax (\$)	36 000	310 800	2 400	40 700
Farm surplus for reinvestment ² (\$)	1 300	232 900	-84 800	32 700
Notes 1 Figures may not add to totals due to rounding.				

2 Farm surplus for reinvestment is the cash available from the farm business, after meeting living costs, which is available for investment on the farm or for principal repayments. It is calculated as discretionary cash less off-farm income and drawings.



>>> TABLE 2: LOWER NORTH ISLAND DAIRY MODEL BUDGET¹

NHORE PARM COW MISSURE PARM COW MISSURE CORROBAN COW MISSURE COW MISSURE CORROBAN COW COW		2008/09			20	CHANGE		
RYENUE Nillsolids 59,800 1 647 51,30 556,700 1 546 4.82 -6 Cattle 51 000 1 42 0.44 47,200 131 0.41 -6 Cattle 1 200 1 3 0.01 1 200 3 0.01 0 LESS: 2 1 0.05 5,700 16 0.05 -7 Net cash income 63800 1775 5.03 599400 1665 5,19 -6 Farm working expenses 459900 1278 3.98 388000 1078 3.36 -16 Cash operating surplus 17900 497 1.55 211400 587 1.83 18 Interest 142000 394 1.23 1388000 333 1.19 -3 Rent and/or leases 0 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 <								
Milksolids 592 80 1 647 5.13 556 700 1 546 4.82 -6 Cattle 51 000 142 0.44 47 200 131 0.41 -8 Other farm income 1 200 3 0.01 1 200 3 0.01 1 Ustra 5 200 1 7 0.05 5 700 16 0.05 -7 Net cash income 638 900 1 775 5.53 599 400 1665 5.19 -6 Farm working expenses 459 900 1 278 3.98 388 800 1078 3.36 -16 Cash operating surplus 19 000 497 1.25 211 400 587 1.83 118 Interest 142 000 394 1.23 138 800 383 1.19 -3 Rent and/or leases 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	2009/10 (%)
Cattle								
Description								
Cattle purchases 6								
Cattle purchases 6 200 17 0.05 5 700 16 0.05 -7 Net cash income 638 900 1 775 5.53 599 400 1 665 5.19 -6 Farm working expenses 459 900 1 278 3.38 388 000 1078 3.36 -16 Cash operating surplus 179 000 497 1.55 211 400 587 1.83 18 Interest 14 2000 394 1.23 138 000 383 1.19 -3 Rent and/or leases 0 0 0.00 0 0 0.00 0 0.00 Stock value adjustment 34 600 96 0.30 32 600 91 0.28 -6 Farm profit before tax 2400 7 0.02 40700 113 0.35 1-18 Farm profit after tax -59 300 -165 -0.51 58 100 161 0.50 198 Add back depreciation 34 600 96 0.30 32 600 91 0.28 -6 Farm profit after tax -59 300 -165 -0.51 58 100 161 0.50 198 Add back depreciation 34 600 96 0.30 32 600 91 0.28 -6 Reverse stock value adjustment 0 0 0.00 0 0 0.00 0 0		1 200	3	0.01	1 200	3	0.01	0
Net cash income	LESS:							
Parm working expenses	Cattle purchases	6 200	17	0.05	5 700	16	0.05	-7
Cash operating surplus 179 000 497 1.55 211 400 587 1.83 18 Interest 142 000 394 1.23 138 000 383 1.19 -3 Rent and/or leases 0 0 0 0.00 0 0 0.00 0	Net cash income	638 900	1 775	5.53	599 400	1 665	5.19	-6
Interest	Farm working expenses	459 900	1 278	3.98	388 000	1 078	3.36	-16
Rent and/or leases 0 0 0.00 0 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0 0.00 1.00	Cash operating surplus	179 000	497	1.55	211 400	587	1.83	18
Stock value adjustment 0 0 0.00 0 0.00 0.00 Minus depreciation 34 600 96 0.30 32 600 91 0.28 -6 Farm profit before tax 2 400 7 0.02 40 700 113 0.35 1581 Taxation 61 800 172 0.53 -17 400 -48 -0.15 -128 Farm profit after tax -59 300 -165 -0.51 58 100 161 0.50 198 Add back depreciation 34 600 96 0.30 32 600 91 0.28 -6 Reverse stock value adjustment 0 0 0.00 0 0 0.00 0 0.00 0	Interest	142 000	394	1.23	138 000	383	1.19	-3
Minus depreciation 34 600 96 0.30 32 600 91 0.28 -6	Rent and/or leases	0	0	0.00	0	0	0.00	
Parm profit before tax	Stock value adjustment	0	0	0.00	0	0	0.00	
Taxation 61 800 172 0.53 -17 400 -48 -0.15 -128 Farm profit after tax -59 300 -165 -0.51 58 100 161 0.50 198 Add back depreciation 34 600 96 0.30 32 600 91 0.28 -6 Reverse stock value adjustment 0 0 0.00 0 0 0.00 Off-farm income 3 000 8 0.03 3 000 8 0.03 0 Discretionary cash -21 800 -61 -0.19 93 800 260 0.81 530 APPUED To: Net capital purchases 17 000 47 0.15 10 000 28 0.09 -41 Development 11 1000 31 0.10 4 000 11 0.03 -64 Principal repayments 26 200 73 0.23 25 300 70 0.22 -3 Drawings 0 0 0.00 0	Minus depreciation	34 600	96	0.30	32 600	91	0.28	-6
Farm profit after tax -59 300 -165 -0.51 58 100 161 0.50 198 Add back depreciation 34 600 96 0.30 32 600 91 0.28 -6 Reverse stock value adjustment 0 0 0.00 0 0.00 0 0.00 Off-farm income 3 000 8 0.03 3 000 8 0.03 0 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0.01 150 0 0.00 0.01 10 0 0.00 0 0 0.00 -41 0 0 0.00 -41 0 0 0.00 -41 0 0 0.00 -41 0 0 0.00 0 0 0 0 0 0 0 0	Farm profit before tax	2 400	7	0.02	40 700	113	0.35	1581
Add back depreciation 34 600 96 0.30 32 600 91 0.28 -6 Reverse stock value adjustment 0 0 0 0.00 0.00 0 0 0 0.00 0.00 Off-farm income 3 000 8 0.03 3 000 8 0.03 0 Discretionary cash -21 800 -61 -0.19 93 800 260 0.81 530 APPLIED TO: Net capital purchases 17 000 47 0.15 10 000 28 0.09 -41 Development 11 000 31 0.10 4 000 11 0.03 -64 Principal repayments 26 200 73 0.23 25 300 70 0.22 -3 Drawings 60 000 167 0.52 58 000 161 0.50 -3 New borrowings 0 0 0 0.00 0 0 0 0.00 Introduced funds 16 000 45 0.14 0 0 0.00 -10 Cash surplus/deficit -119 900 -333 -1.04 -3600 -10 -0.03 97 Farm surplus for reinvestment84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 44 46 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1435 4.47 516 700 1435 4.47 0 Dairy company shares 654 500 18 18 5.67 522 000 1450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0 0.00 Total farm assets 5764 600 16013 49.91 5074 000 14 095 43.93 -12 Total liabilities (opening) 1500 000 4 167 12.99 1650 000 4583 14.29 10 Total equity (assets-liabilities) 4264 600 11846 36.92 3424 000 9511 29.65 -20	Taxation	61 800	172	0.53	-17 400	-48	-0.15	-128
Reverse stock value adjustment 0	Farm profit after tax	-59 300	-165	-0.51	58 100	161	0.50	198
Off-farm income 3 000 8 0.03 3 000 8 0.03 0 Discretionary cash -21 800 -61 -0.19 93 800 260 0.81 530 APPLIED TO: Net capital purchases 17 000 47 0.15 10 000 28 0.09 -41 Development 11 000 31 0.10 4 000 11 0.03 -64 Principal repayments 26 200 73 0.23 25 300 70 0.22 -3 Drawings 60 000 167 0.52 58 000 161 0.50 -3 New borrowings 0 0 0.00 0 0 0.00 -3 New borrowings 16 000 45 0.14 0 0 0.00 -10 Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment ² -8 4800 -236 -0.73	Add back depreciation	34 600	96	0.30	32 600	91	0.28	-6
Discretionary cash -21 800 -61 -0.19 93 800 260 0.81 530	Reverse stock value adjustment	0	0	0.00	0	0	0.00	
APPLIED TO: Net capital purchases 17 000 47 0.15 10 000 28 0.09 -41 Development 11 000 31 0.10 4 000 11 0.03 -64 Principal repayments 26 200 73 0.23 25 300 70 0.22 -3 Drawings 60 000 167 0.52 58 000 161 0.50 -3 New borrowings 0 0 0.00 0 0 0.00 -3 New borrowings 16 000 45 0.14 0 0 0.00 -10 Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12	Off-farm income	3 000	8	0.03	3 000	8	0.03	0
Net capital purchases 17 000 47 0.15 10 000 28 0.09 -41 Development 11 000 31 0.10 4 000 11 0.03 -64 Principal repayments 26 200 73 0.23 25 300 70 0.22 -3 Drawings 60 000 167 0.52 58 000 161 0.50 -3 New borrowings 0 0 0.00 0 0 0.00 -3 New borrowings 16 000 45 0.14 0 0 0.00 -100 Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700	Discretionary cash	-21 800	-61	-0.19	93 800	260	0.81	530
Development	APPLIED TO:							
Principal repayments 26 200 73 0.23 25 300 70 0.22 -3 Drawings 60 000 167 0.52 58 000 161 0.50 -3 New borrowings 0 0 0.00 0 0 0.00 . Introduced funds 16 000 45 0.14 0 0 0.00 -100 Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company sha	Net capital purchases	17 000	47	0.15	10 000	28	0.09	-41
Drawings 60 000 167 0.52 58 000 161 0.50 -3 New borrowings 0 0 0.00 0 0 0.00 Introduced funds 16 000 45 0.14 0 0 0.00 -100 Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other	Development	11 000	31	0.10	4 000	11	0.03	-64
New borrowings 0 0 0.00 0 0.00 0.00 0.10 0.00 -100 Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 <td< td=""><td>Principal repayments</td><td>26 200</td><td>73</td><td>0.23</td><td>25 300</td><td>70</td><td>0.22</td><td>-3</td></td<>	Principal repayments	26 200	73	0.23	25 300	70	0.22	-3
Introduced funds 16 000 45 0.14 0 0 0.00 -100 Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0.00 . Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 <t< td=""><td>Drawings</td><td>60 000</td><td>167</td><td>0.52</td><td>58 000</td><td>161</td><td>0.50</td><td>-3</td></t<>	Drawings	60 000	167	0.52	58 000	161	0.50	-3
Cash surplus/deficit -119 900 -333 -1.04 -3 600 -10 -0.03 97 Farm surplus for reinvestment² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0.00 . Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 </td <td>New borrowings</td> <td>0</td> <td>0</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0.00</td> <td></td>	New borrowings	0	0	0.00	0	0	0.00	
Farm surplus for reinvestment ² -84 800 -236 -0.73 32 700 91 0.28 139 ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20	Introduced funds	16 000	45	0.14	0	0	0.00	-100
ASSETS AND LIABILITIES Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0 0 0 0 0 0 0 0 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities)	Cash surplus/deficit	-119 900	-333	-1.04	-3 600	-10	-0.03	97
Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20	Farm surplus for reinvestment ²	-84 800	-236	-0.73	32 700	91	0.28	139
Farm, forest and building (opening) 4 446 000 12 350 38.49 3 900 000 10 833 33.77 -12 Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20	ASSETS AND LIABILITIES							
Plant and machinery (opening) 147 500 410 1.28 135 400 376 1.17 -8 Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20	Farm, forest and building (opening)	4 446 000	12 350	38.49	3 900 000	10 833	33.77	-12
Stock valuation (opening) 516 700 1 435 4.47 516 700 1 435 4.47 0 Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20	0 1 0							
Dairy company shares 654 500 1 818 5.67 522 000 1 450 4.52 -20 Other farm related investments (opening) 0 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20	, - •							
Other farm related investments (opening) 0 0 0.00 0 0 0.00 Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20								
Total farm assets 5 764 600 16 013 49.91 5 074 000 14 095 43.93 -12 Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20								
Total liabilities (opening) 1 500 000 4 167 12.99 1 650 000 4 583 14.29 10 Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20								-12
Total equity (assets-liabilities) 4 264 600 11 846 36.92 3 424 000 9 511 29.65 -20								
			013				_>	

.. Not applicable.

Figures may not add to totals due to rounding.

Figures may not add to totals due to rounding.

Figures may not add to totals due to rounding.

Figures may not add to totals due to rounding.

Figures may not add to totals due to rounding.

Figures may not add to totals due to rounding.

>>> TABLE 3: LOWER NORTH ISLAND DAIRY MODEL EXPENDITURE¹

Per Per		2008/09				CHANGE		
Permanent wages 40 000 111 0.35 40 000 111 0.35 40 000 111 0.35 0 Casual wages 6 000 17 0.05 3 500 10 0.03 -42 ACC 900 3 0.01 120 3 0.01 2.8 Total labour expenses 46 900 130 0.41 44 700 124 0.39 -5 Animal health 25 200 70 0.22 23 000 64 0.20 -9 Breeding 14 800 41 0.13 14 200 39 0.12 -4 Dairy shed expenses 9000 25 0.08 9000 25 0.08 0 Electricity 13 700 38 0.12 14 70 41 0.13 7 Feed (hay and silage) 59 500 165 0.52 52 200 145 0.45 -12 Feed (fred crops) 7 200 20 0.06 7 20 0.								
Permanent wages 40 000 111 0.35 40 000 111 0.35 -0 Casual wages 6 000 17 0.05 3 500 10 0.03 -42 ACC 900 3 0.01 1 200 3 0.01 28 Total labour expenses 46 900 130 0.41 44 700 124 0.39 -5 Animal health 25 200 70 0.22 23 000 64 0.20 -9 Breeding 14 800 41 0.13 14 200 39 0.12 -4 Dairy shed expenses 9 000 25 0.08 9 000 25 0.08 0 Electricity 13 70 38 0.12 14 700 41 0.13 7 Feed (feed crops) 7 200 20 0.06 7 20 0.06 7 20 0.06 0 0 0 0 0 0 0 0 0 0 0 <th></th> <th>(\$)</th> <th>(\$)</th> <th>(\$)</th> <th>(\$)</th> <th>(\$)</th> <th>(\$)</th> <th>2009/10 (%)</th>		(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	2009/10 (%)
Casual wages 6000 17 0.05 3 500 10 0.03 -42 ACC 900 3 0.01 1 200 3 0.01 28 Total labour expenses 46 900 130 0.41 44 700 124 0.39 -5 Animal health 25 200 70 0.22 23 000 64 0.20 -9 Breeding 14 800 41 0.13 1 4 700 39 0.12 -4 Dairy shed expenses 9000 25 0.08 9900 25 0.08 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 2 2 0 0 1 0 0 1 0 0 1 0 0 0 0 1	FARM WORKING EXPENSES							
ACC 900 3 0.01 1 200 3 0.01 2 8 Total labour expenses 46 900 130 0.41 44 700 124 0.39 -5 Animal health 25 200 70 0.22 23 000 64 0.20 -9 Breeding 14 800 41 0.13 14 200 39 0.12 -4 Dairy shed expenses 9 900 25 0.08 9 000 25 0.08 0 Electricity 13 70 38 0.12 14 700 41 0.13 7 Feed (hay and silage) 59 500 165 0.52 52 200 145 0.45 -12 Feed (feed crops) 7 200 20 0.06 7 200 20 0.06 7 200 20 0.06 7 200 20 0.06 0.02 200 0.06 0.02 200 0.06 0.02 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <td>Permanent wages</td> <td>40 000</td> <td>111</td> <td>0.35</td> <td>40 000</td> <td>111</td> <td>0.35</td> <td>0</td>	Permanent wages	40 000	111	0.35	40 000	111	0.35	0
Total labour expenses 46 900 130 0.41 44 700 124 0.39 -5 Animal health 25 200 70 0.22 23 000 64 0.20 -9 Breeding 14 800 41 0.13 14 200 39 0.12 -4 Dairy shed expenses 9 900 25 0.08 9 000 25 0.08 0 Electricity 13 700 38 0.12 14 700 41 0.13 7 Feed (feed crops) 7 200 20 0.06 7 200 0.06 7 200 20 0.06 0 Feed (feed crops) 7 200 20 0.06 7 200 20 0.06 0	Casual wages	6 000	17	0.05	3 500	10	0.03	-42
Animal health 25 200 70 0.22 23 000 64 0.20 -9 Breeding 14 800 41 0.13 14 200 39 0.12 -4 Dairy shed expenses 9 000 25 0.08 9 000 25 0.08 0 Electricity 13 700 38 0.12 14 700 41 0.13 7 Feed (hay and silage) 59 500 165 0.52 52 200 145 0.45 -12 Feed (feed crosp) 7 200 20 0.06 7 200 20 0.06 0 Feed (grazing) 46 600 130 0.40 34 900 97 0.30 -25 Feed (other) 28 200 78 0.24 19 800 55 0.17 -30 Feet (ither) 28 200 78 0.24 19 800 55 0.17 -30 Feet (ither) 28 200 6 0.02 2200 6 0.02 0 0 <td< td=""><td>ACC</td><td>900</td><td>3</td><td>0.01</td><td>1 200</td><td>3</td><td>0.01</td><td>28</td></td<>	ACC	900	3	0.01	1 200	3	0.01	28
Breeding	•	46 900	130	0.41	44 700	124	0.39	-5
Dairy shed expenses 9000 25 0.08 9000 25 0.08 0 Electricity 13 700 38 0.12 14 700 41 0.13 77 Feed (hay and silage) 59 500 165 0.52 52 200 145 0.45 -12 Feed (feed crops) 7 200 20 0.06 7 200 20 0.06 0 Feed (grazing) 46 600 130 0.40 34 900 97 0.30 -25 Feed (other) 28 200 78 0.24 19 800 55 0.17 -30 Fertiliser 71 600 199 0.62 56 000 156 0.48 -22 Lime 22 00 6 0.02 200 6 0.02 110 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 11 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 11 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Animal health	25 200	70	0.22	23 000	64	0.20	-9
Electricity	o .	14 800	41		14 200	39	0.12	-4
Feed (hay and silage) 59 500 165 0.52 52 200 145 0.45 -12 Feed (feed crops) 7 200 20 0.06 7 200 20 0.06 0 Feed (grazing) 46 600 130 0.40 34 900 97 0.30 -25 Feed (other) 28 200 78 0.24 19 800 55 0.17 -30 Fertiliser 71 600 199 0.62 56 000 156 0.48 -22 Lime 2 200 6 0.02 2 200 6 0.02 0 Freight (not elsewhere deducted) 4 500 13 0.04 4 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 <tr< td=""><td>Dairy shed expenses</td><td>9 000</td><td>25</td><td>0.08</td><td>9 000</td><td>25</td><td>0.08</td><td>0</td></tr<>	Dairy shed expenses	9 000	25	0.08	9 000	25	0.08	0
Feed (feed crops) 7 200 20 0.06 7 200 20 0.06 0 Feed (grazing) 46 600 130 0.40 34 900 97 0.30 -25 Feed (other) 28 200 78 0.24 19 800 55 0.17 -30 Fertiliser 71 600 199 0.62 56 000 156 0.48 -22 Lime 2 200 6 0.02 2 200 6 0.02 0 Freight (not elsewhere deducted) 4 500 13 0.04 4 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 11 500 32 0.10 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500	Electricity	13 700	38	0.12	14 700	41	0.13	7
Feed (grazing) 46 600 130 0.40 34 900 97 0.30 -25 Feed (other) 28 200 78 0.24 19 800 55 0.17 -30 Fertiliser 71 600 199 0.62 56 000 156 0.48 -22 Lime 2 200 6 0.02 2 200 6 0.02 0 Freight (not elsewhere deducted) 4 500 13 0.04 4 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33	Feed (hay and silage)	59 500	165	0.52	52 200	145	0.45	-12
Feed (other) 28 200 78 0.24 19 800 55 0.17 -30 Fertiliser 71 600 199 0.62 56 000 156 0.48 -22 Lime 2 200 6 0.02 2 200 6 0.02 0 Freight (not elsewhere deducted) 4 500 13 0.04 4 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1005 3.13 300 600 835 2.60	Feed (feed crops)	7 200	20	0.06	7 200	20	0.06	0
Fertiliser 71 600 199 0.62 56 000 156 0.48 -22 Lime 2 200 6 0.02 2 200 6 0.02 0 Freight (not elsewhere deducted) 4 500 13 0.04 4 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13	Feed (grazing)	46 600	130	0.40	34 900	97	0.30	-25
Lime 2 200 6 0.02 2 200 6 0.02 0 Freight (not elsewhere deducted) 4 500 13 0.04 4 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 <	Feed (other)	28 200	78	0.24	19 800	55	0.17	-30
Freight (not elsewhere deducted) 4 500 13 0.04 4 000 11 0.03 -11 Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 1 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000	Fertiliser	71 600	199	0.62	56 000	156	0.48	-22
Regrassing costs 8 000 22 0.07 7 000 19 0.06 -13 Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8	Lime	2 200	6	0.02	2 200	6	0.02	0
Weed and pest control 4 500 13 0.04 4 200 12 0.04 -7 Fuel 11 500 32 0.10 11 500 32 0.10 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0	Freight (not elsewhere deducted)	4 500	13	0.04	4 000	11	0.03	-11
Fuel 11 500 32 0.10 11 500 32 0.10 0 Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 . Rates 13 000 36 0.11 13 600 38 0.12 <td>Regrassing costs</td> <td>8 000</td> <td>22</td> <td>0.07</td> <td>7 000</td> <td>19</td> <td>0.06</td> <td>-13</td>	Regrassing costs	8 000	22	0.07	7 000	19	0.06	-13
Vehicle costs (excluding fuel) 13 500 38 0.12 12 500 35 0.11 -7 Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 . Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05<	Weed and pest control	4 500	13	0.04	4 200	12	0.04	-7
Repairs and maintenance 41 500 115 0.36 28 000 78 0.24 -33 Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 </td <td>Fuel</td> <td>11 500</td> <td>32</td> <td>0.10</td> <td>11 500</td> <td>32</td> <td>0.10</td> <td>0</td>	Fuel	11 500	32	0.10	11 500	32	0.10	0
Total other working expenses 361 700 1 005 3.13 300 600 835 2.60 -17 Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37	Vehicle costs (excluding fuel)	13 500	38	0.12	12 500	35	0.11	-7
Communication costs (phone and mail) 4 800 13 0.04 4 800 13 0.04 0 Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36	Repairs and maintenance	41 500	115	0.36	28 000	78	0.24	-33
Accountancy 5 000 14 0.04 5 000 14 0.04 0 Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0 </td <td>Total other working expenses</td> <td>361 700</td> <td>1 005</td> <td>3.13</td> <td>300 600</td> <td>835</td> <td>2.60</td> <td>-17</td>	Total other working expenses	361 700	1 005	3.13	300 600	835	2.60	-17
Legal and consultancy 6 500 18 0.06 4 500 13 0.04 -31 Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0	Communication costs (phone and mail)	4 800	13	0.04	4 800	13	0.04	0
Other administration 3 000 8 0.03 3 000 8 0.03 0 Water charges (irrigation) 0 0 0.00 0 0 0.00 Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0	Accountancy	5 000	14	0.04	5 000	14	0.04	0
Water charges (irrigation) 0 0 0.00 0 0 0.00 Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0	Legal and consultancy	6 500	18	0.06	4 500	13	0.04	-31
Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0	Other administration	3 000	8	0.03	3 000	8	0.03	0
Rates 13 000 36 0.11 13 600 38 0.12 5 Insurance 5 500 15 0.05 5 700 16 0.05 4 Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0	Water charges (irrigation)	0	0	0.00	0	0	0.00	
Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0		13 000	36	0.11	13 600	38	0.12	5
Other expenditure² 13 500 38 0.12 6 000 17 0.05 -55 Total overhead expenses 51 300 143 0.44 42 700 119 0.37 -17 Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0	Insurance	5 500	15	0.05	5 700	16	0.05	4
Total farm working expenses 459 900 1 278 3.98 388 000 1 078 3.36 -16 Wages of management 85 000 236 0.74 85 000 236 0.74 0	Other expenditure ²	13 500		0.12		17	0.05	-55
Wages of management 85 000 236 0.74 85 000 236 0.74 0	Total overhead expenses	51 300	143	0.44	42 700	119	0.37	-17
	Total farm working expenses	459 900	1 278	3.98	388 000	1 078	3.36	-16
	Wages of management	85 000	236	0.74	85 000	236	0.74	0
Depreciation 34 600 96 0.30 32 600 91 0.28 -6	Depreciation	34 600	96	0.30	32 600	91	0.28	-6
Total farm operating expenses 579 500 1 610 5.02 505 600 1 405 4.38 -13	Total farm operating expenses	579 500	1 610	5.02	505 600	1 405	4.38	-13
CALCULATED RATIOS								
Economic farm surplus (EFS ³) 59 400 165 0.51 93 800 260 0.81		59 400	165	0.51	93 800	260	0.81	
Farm working expenses/NCI ⁴ 72% 65%	• ` '							
EFS/total farm assets 1.0% 1.8%								
EFS less interest and lease/equity -1.9% -1.3%								
Interest+rent+lease/NCI 22% 23%	1 ,							
EFS/NCI 9% 16%								
Notes		7,0			10,0			

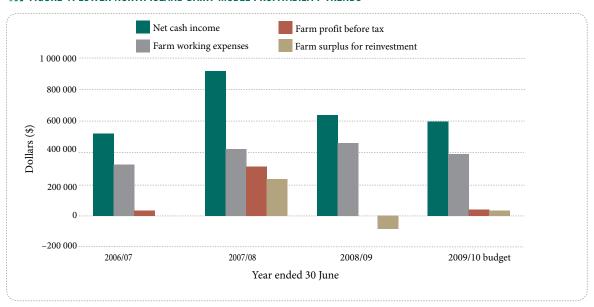
- Notes

 1 Figures may not add to totals due to rounding.
 2 Includes Dairy NZ levy and Accident Compensation Corporation (ACC) employer levy.
 3 EFS (or earnings before interest and tax) is calculated as follows: net cash income plus change in livestock values less farm working expenses less depreciation less wages of management (WOM). WOM is calculated as follows: \$38 000 allowance for labour input plus 1 percent of opening total farm assets to a maximum of \$85 000. 4 Net cash income.

Symbol

.. Not applicable.

>>> FIGURE 1: LOWER NORTH ISLAND DAIRY MODEL PROFITABILITY TRENDS



FINANCIAL PERFORMANCE OF THE LOWER NORTH ISLAND DAIRY MODEL FARM IN 2008/09

Most dairy farms in the lower North Island have a cash deficit for 2008/09, driven by the significant decline in payout during the season, and the higher cost structures that were difficult to change through the financial year. The cash operating surplus for the model farm was \$179 000, a decrease of 64 percent compared with \$490 700 in 2007/08. This reflects the reduction in the expected total payout to \$5.20 per kilogram of milksolids for milk supplied in 2008/09, compared with \$7.62 per kilogram of milksolids for the 2007/08 season.

REVENUE DECREASES BY 30 PERCENT

Net cash income on the lower North Island dairy model farm in 2008/09 was down by \$274 200 or 30 percent on the previous year to \$638 900. Milk revenue was down by \$251 200, or 30 percent to \$592 800. The key driver of this significant decline in milk income was the large decrease in payout through the season. The expected interim payout to the end of June 2009 is \$4.15 per kilogram of milksolids, with no value added payment in February. This is significantly less than 2007/08 at \$6.55 per kilogram of milksolids, plus 10 cents per kilogram of milksolids value added in February 2008.

MILK PRODUCTION UP BY 2 PERCENT

Overall, the model farm's milk production of 115 500 kilograms of milksolids for the 2008/09 season was 2 percent ahead of the previous year. Industry sources indicated that there was a significant range in individual farm performances from 15 percent behind the previous season, to farms that were 20 percent ahead. In general, production was up slightly in the west and down slightly in the east compared with 2007/08. The lower North Island had a difficult winter, spring and autumn with a drought developing in eastern areas. This compares with 2007/08 where the lower North Island suffered a major drought that had a significant impact on total milk production and farm expenditure.

Winter and spring 2008 was very wet and cool in the western regions, with record rainfall over this period. In the east there was an average winter and wet spring. The result was lower pasture growth rates and pasture utilisation. The late spring was dry, with only adequate rainfall and high temperatures in early summer. Very

good rainfall in February resulted in good pasture growth, with little or no supplement fed for six to eight weeks. However, there was little rainfall in March and April, resulting in low pasture growth rates and low pasture covers by late autumn. Adequate rainfall fell in May but was accompanied by cool temperatures, again suppressing pasture growth rates.



PRICES FOR CALVES AND SURPLUS COWS FALL

Stock income decreased by \$21 500, or 30 percent for the 2008/09 year. This decrease is largely due to significantly lower prices for surplus calves (bobby calves sold for \$16.50 in 2008/09 compared with \$40 a year earlier) and a 25 percent fall in mixed age cow prices. With the decline in livestock prices, there was little demand for "budget cows" (cull cows suitable for milking for a further season, rather than going to the works) in 2008/09. Increased cow deaths due to poorer condition post-drought, combined with the wet, cold spring meant there were fewer cows for sale.

CASH EXPENDITURE UP 9 PERCENT

Overall, total farm working expenses on the lower North Island dairy model farm in 2008/09 were up by \$37 500 on 2007/08 to \$460 000, an increase of 9 percent. This equates to \$3.98 per kilogram of milksolids compared with \$3.72 per kilogram of milksolids in 2007/08. Farm working expenses for the 30 monitored farms varied from \$1.76 to \$5.35 per kilogram of milksolids. Most of the variation can be explained by differences in expenditure on labour, feed costs including grazing, fertiliser and repairs and maintenance.

Labour expenditure on the model farm increased by 14 percent to \$47 000 in 2008/09 due to increased salary and wage rates resulting from the tight labour market and more use of casual labour in spring. Animal health expenditure rose by 27 percent to \$25 200, reflecting the difficult winter/spring; lighter cow condition and more prevalent animal health issues in spring; more expenditure aimed at getting cows back in calf; and more dry cow therapy. Animal breeding expenses increased by 25 percent to \$14 800 partly as a result of the uptake of new semen technologies.

FEED PRICES UP

Supplementary feed expenses increased by 3 percent to \$142 000. The difficult spring saw farmers feed higher levels of supplement than usual, including significant quantities of palm kernel, to recover cow condition and boost production in light of the anticipated payout. The cost of dry cow grazing in winter 2008 increased significantly following the widespread drought (\$23 per head per week versus \$16 per head per week a year earlier); however fewer cows were able to be grazed out.

Less hay and pasture silage was made due to the poor spring conditions and less maize silage was purchased at the generally higher prevailing prices. Following the difficult spring, there were low levels of supplement on hand over the summer and early autumn, and as a result more palm kernel was used over this period at lower average prices. The price of palm kernel decreased significantly throughout the season from around \$390 per tonne down to \$240 per tonne, with some forward contracts being taken out over the summer at \$210 per tonne.

The yields of maize silage were very high, associated with warm temperatures and timely rainfall. Initially, maize was being contracted at around 33 cents to 35 cents per kilogram of dry matter (kgDM), however, with declining payouts the spot price of maize silage in the late autumn was down to around 22 cents per kgDM landed on farm. Some dairy farmers walked away from contracts and a significant quantity of maize silage grown was un-contracted.

In the lower North Island dairy model feed expenses were \$393 per cow compared with \$383 per cow in

2007/08. The average for the monitored farms was \$389 per cow with a range of \$137 to \$813 per cow.

FERTILISER EXPENDITURE INCREASES BUT LESS APPLIED

Fertiliser expenditure increased by 10 percent to \$71 600. This reflects a significant reduction in fertiliser and nitrogen use, given most fertilisers doubled in price. Only three-quarters of maintenance phosphate was applied in 2008/09. Less nitrogen was used over the spring, due to high urea prices (\$1100 per tonne) and wet ground conditions making it difficult to apply.



Repairs and maintenance increased by 14 percent to \$41 500. Higher expenditure was incurred through the first half of the season before the significant cuts to the payout forecast were made. Total overhead expenses also increased by 22 percent to \$51 300.

NET RESULT FALLS FROM RECORD LEVELS OF PREVIOUS YEAR

Farm profit before tax on the lower North Island dairy model farm is down 99 percent to \$2400 in 2008/09, from \$310 900 in 2007/08. This is a result of the sharp reduction in payout and continuing increase in farm working expenses.

Taxation is expected to increase by 21 percent to \$61 800, due largely to terminal tax liabilities from 2007/08 (around \$44 000). This is despite revising provisional tax to reflect the reduced income in 2008/09.

Interest expenses fell by 2 percent to \$142 000; from \$1.28 to \$1.23 per kilogram of milksolids. However, interest as a percentage of net cash income increased to 21 percent compared with 16 percent in 2007/08 due to the drop in income. Average mortgage interest rates fell by 0.2 percent to 8.8 percent. Earlier in 2008/09 some mortgages were being rolled over onto relatively high rates even though interest rates fell rapidly later in the year. However, the majority of farm mortgages tend to be fixed for longer terms and so the benefit from lower interest rates is slow to be realised. The model farm has an opening debt ratio of 26 percent in 2008/09. The opening overdraft was eliminated by the large cash surplus achieved in 2007/08 but grew during the year as the payout fell below early expectations.

Personal expenditure reduced by 3 percent to \$60 000, and capital and development expenditure fell by 40 percent to \$28 000, reflecting lower incomes and discretionary cash. There was no major change in principal repayments or new borrowings. Off-farm income fell slightly, however there is little reliance on this by farmers.

The lower North Island dairy model farm redeemed some surplus or "dry" Fonterra shares, given the reduced share value. The budget includes \$16 000 of income from share redemption shown as introduced funds.

Overall, there is a cash deficit of \$119 900 on the lower North Island dairy model farm even after allowing for the decrease in discretionary expenditure. This has been reflected in significantly higher overdrafts at the end of the year. The farm surplus for reinvestment for the model farm was a deficit of \$84 800 in 2008/09, a \$317 700 reduction from the surplus in 2007/08.

Few farm sales in the lower North Island means it is difficult to give a good indication of farm values. Some farms have sold very well, similar in price to last season, while some other farm sales have been significantly less than last season. The best estimate for the southern North Island is a decrease of around \$5 per kilogram of milk solids; from an average of around \$45 per kilogram of milksolids (for land, buildings and shares), to an average of under \$40 per kilogram of milksolids. The value of land and buildings on the model farm has fallen by 12 percent to \$3 900 000 at the end of June 2009.



BUDGET FINANCIAL PERFORMANCE OF THE LOWER NORTH ISLAND DAIRY MODEL FARM IN 2009/10

The cash operating surplus on the lower North Island dairy model farm is expected to increase by \$32 400 to \$211 400 for the 2009/10 year. This is an 18 percent increase reflecting major cost savings and reductions in farm expenditure. Farmers are tending to decrease the number of cows in milk and focus on per cow production and feeding, along with reducing fertiliser applications and closely scrutinising all spending.

MILK REVENUE EXPECTED TO FALL BY 6 PERCENT

Milk revenue is expected to decline by \$36 100, or 6 percent, to \$556 700. This reflects the lower milk payout to June 2010 of \$3.60 per kilogram of milksolids plus 20 cents value added to be paid in April 2010. Farmers expect a total payment for 2008/09 of \$5.20 per kilogram of milksolids including a value added payment, giving a deferred payment of \$1.05.

Milk production on the lower North Island dairy model farm for 2009/10 is expected to be similar to the previous season at 115 500 kilograms of milksolids. This is closer to an average season but production will be constrained by lighter cows, lower winter pasture covers and an early and cold start to winter.

Stock revenue (sales less purchases) is expected to decrease by \$3400 to \$41 500, reflecting lower mixed age cow and heifer prices. Net cash income is expected to decrease by \$39 500 (6 percent) to \$599 400 for the 2009/10 season.

EXPENDITURE CUT BY 16 PERCENT

Overall, the model's farm working expenses are expected to decrease by \$71 900 or 16 percent to \$388 000. The area of major reduction is repairs and maintenance, expected to fall by a third, to \$28 000, reflecting the pressure to reduce farm expenditure. Fertiliser expenditure is also anticipated to decrease by 22 percent to \$56 000, reflecting lower product prices and the application of only two-thirds of maintenance phosphate.

FALLING PRICES HELP REDUCE FEED EXPENDITURE

The other area of significant reduction is feed expenditure, falling by 19 percent to \$114 200 (or \$317 per cow). This is due to declining costs, mainly for maize silage and palm kernel and also for dry cow grazing, and to a lesser extent, heifer grazing. With declining payouts and tighter financial positions, more cows are being wintered on dairy farms, and for the first time in a number of years the supply of dry cow grazing is higher than demand. The price of dry cow grazing has decreased to around \$18 per head per week.

Those with tighter financial positions due to their higher debt levels are expected to make even deeper cuts to fertiliser and feed expenditure. Farmers will be hoping for a return to more average seasonal conditions requiring fewer supplementary feed inputs.

SMALLER CUTS TO MOST CATEGORIES OF EXPENDITURE

Other areas of expenditure that are expected to fall include a 42 percent cut to casual labour (to \$3500) due to reduced use of relief milkers and more family labour being expected in the cow shed. Freight expenditure is also likely to decrease as more animals are grazed on farm. Most other costs have been trimmed by 5 to 10 percent as farmers try to get farm working expenditure nearer \$3 per kilogram of milksolids. All expenditure is being closely scrutinised as to its contribution to improving profit and farmers are being cautious about committing to expenditure before they are more confident about the final payout.

The ACC employers' levy expense falls in line with the previous year's reduced income, falling from \$9600 in 2008/09 to just \$1900 in 2009/10.

NET RESULT EXPECTED TO IMPROVE

Farm profit before tax is expected to recover somewhat to \$40 800 in 2009/10, compared with just \$2400 in 2008/09. This will only be achieved by careful control of expenses.

A tax refund of \$17 400 is expected, due to the sharp reduction in income in 2008/09. Interest expenditure is expected to reduce by 3 percent to \$138 000, or \$1.19 per kilogram of milksolids. The average mortgage interest rate is expected to fall by 0.6 percent to 8.2 percent.

As farmers attempt to balance their cash position, drawings on the model farm are expected to be cut by \$2000. A significant decline in development and capital expenditure is expected, and the model shows it halving, from \$28 000 to \$14 000 in 2009/10. Principal repayments are expected to be largely unchanged but given high overdraft levels, \$100 000 has been transferred to interest-only term debt. The opening overdraft has increased by \$50 000.

The lower North Island dairy model farm expects a small cash deficit of \$3600 in 2009/10, a significant improvement from the deficit of \$119 900 in the previous financial year. This is the result of significantly reduced cash expenditure to offset the lower anticipated payout and high overdraft levels.

This model represents approximately 1100 seasonal supply dairy farms in the bottom half of the North Island, including the regions of Manawatu, Horowhenua, Wairarapa and southern Hawkes Bay. The dairy farms supply the Fonterra Co-operative Dairy Company.

Generally, they are well-developed farms, have good soil fertility levels, and a modest level of well-maintained buildings, plant and equipment. On average, the farms are 130 effective hectares in size, milking 360 cows. They have an additional run-off of 15 hectares.

Most of the lower North Island has reliable summer rainfall. However, many farms in the Manawatu and East Coast are somewhat drought prone by New Zealand standards. Approximately 300 farms have irrigation, mainly in south Wairarapa, Hawkes Bay and Manawatu.

The model budget is prepared for an owner-operator farm, with labour employed, and represents an estimated 70 to 80 percent of dairy farms – the other 20 to 30 percent fit into the sharemilking or partnership categories.

The model is created from information drawn from 30 dairy farms and a wide cross section of agribusiness representatives. The aim of the model is to typify an average dairy farm for the lower North Island. Budget figures are averaged from the contributing properties and adjusted to represent a real dairy farm. Income figures include off-farm income, new borrowing, and other cash income.

For more information on the model contact: Gillian.Mangin@maf.govt.nz

PUBLISHER

Ministry of Agriculture and Forestry PO Box 2526, Wellington 6140, New Zealand Tel +64 4 894 0100 or Freephone 0800 008 333 Email: policy.publications@maf.govt.nz

Web: www.maf.govt.nz

ISBN 978-0-478-35128-6 (Online)

© Crown copyright - Ministry of Agriculture and Forestry 2009

This report can be downloaded from www.maf.govt.nz

DISCLAIMER

The information in this report by the Ministry of Agriculture and Forestry is based on the best information available to the the Ministry at the time it was drawn up and all due care was exercised in its preparation. As it is not possible to foresee all uses of this information or to predict all future developments and trends, any subsequent action that relies on the accuracy of the information in this report is the sole commercial decision of the user and is taken at his/her own risk. Accordingly, the Ministry of Agriculture and Forestry disclaims any liability whatsoever for any losses or damages arising out of the use of this information, or in respect of any actions taken.

New Zealand Government

