2

2009 PASTORAL MONITORING

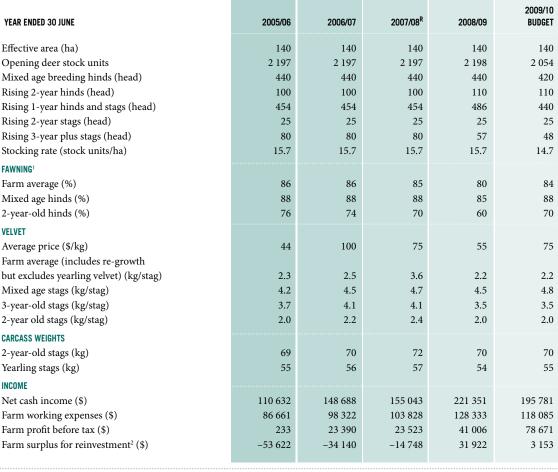
NORTH ISLAND DEER



KEY POINTS

- Venison prices per kilogram were two-thirds above their 10 year average and well above the "boom" prices of 2001. These high prices were driven by tight supply and continued demand.
- Strong venison prices and increased deer sales contributed to the model's net cash income increasing 43 percent from \$155 000 to \$221 400 in 2008/09. This improvement came despite a drought affected season that meant both fawning percentages and carcass weights were down on 2007/08.
- > Repeated drought events on the east coast of the North Island contributed to a 24 percent increase in total farm working expenses in 2008/09 to \$128 300.
- > The average velvet price in 2008/09 was down 27 percent to a net price of \$55 per kilogram. Industry sources attributed the disappointing result to poor velvet marketing structures and a lack of confidence in New Zealand velvet's main markets, Korea and China, due to the global financial slowdown.
- > Velvet stag numbers in the North Island deer model declined by almost 16 percent during 2008/09 as a result of farmers downsizing their velveting herds due to the recent poor and unstable velvet prices.
- > The model's cash surplus of \$49 000 in 2008/09 is a significant improvement on the 2007/08 surplus of \$4700.
- Deer farmers are optimistic and expect 10 to 20 cents per kilogram improvement in venison prices and at least a \$20 per kilogram improvement for velvet in 2009/10.









Notes

 $1\ \mbox{Fawning percentage}$ is live calves available for sale as a percentage of hinds mated.

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



>>> TABLE 2: NORTH ISLAND DEER MODEL BUDGET

			2008/09		CHANGE		
	WHOLE FARM (\$)	PER HECTARE (\$)	PER DEER Stock Unit (\$)	WHOLE FARM (\$)	PER HECTARE (\$)	PER DEER STOCK UNIT (\$)	BETWEEN 2008/09 AND 2009/10 (%)
REVENUE							
Deer sales	208 312	1 488	94.77	172 499	1 232	84.00	-17
Velvet (per stag stock unit)	18 090	129	0.00	25 440	182	44.21	41
Other farm income	5 000	36	2.27	10 000	71	4.87	100
LESS:							
Deer purchases	10 050	72	4.57	12 158	87	5.92	21
Net cash income	221 351	1 581	100.70	195 781	1 398	95.34	-12
Farm working expenses	128 333	917	58.38	118 085	843	57.50	-8
Cash operating surplus	93 018	664	42.32	77 696	555	37.84	-16
Interest	17 483	125	7.95	14 586	104	7.10	-17
Rent and/or leases	0	0	0.00	0	0	0.00	
Stock value adjustment	-28 620	-204	-13.02	21 034	150	10.24	-173
Minus depreciation	5 910	42	2.69	5 473	39	2.67	-7
Farm profit before tax	41 006	293	18.66	78 671	562	38.31	92
Taxation	5 414	39	2.46	19 847	142	9.67	267
Farm profit after tax	35 592	254	16.19	58 824	420	28.65	65
Add back depreciation	5 910	42	2.69	5 473	39	2.67	-7
Reverse stock value adjustment	28 620	204	13.02	-21 034	-150	-10.24	-173
Off-farm income	29 741	212	13.53	25 280	181	12.31	-15
Discretionary cash	99 863	713	45.43	68 543	490	33.38	-31
APPLIED TO							
Net capital purchases	3 000	21	1.36	0	0	0.00	-100
Development	2 500	18	1.14	2 500	18	1.22	0
Principal repayments	10 167	73	4.63	11 648	83	5.67	15
Drawings	38 200	273	17.38	40 110	287	19.53	5
New borrowings	3 000	21	1.36	0	0	0.00	-100
Introduced funds	0	0	0.00	0	0	0.00	
Cash surplus/deficit	48 996	350	22.29	14 285	102	6.96	-71
Farm surplus for reinvestment ¹	31 922	228	14.52	3 153	23	1.54	-90
ASSETS AND LIABILITIES							
Farm, forest and building (opening)	2 564 100	18 315	1166.51	2 307 690	16 484	1123.78	-10
Plant and machinery (opening)	39 398	281	17.92	36 488	261	17.77	-7
Stock valuation (opening)	318 426	2 274	144.86	444 154	3 173	216.29	39
Other farm related investments (opening)	0	0	0.00	0	0	0.00	
Total farm assets (opening)	2 921 924	20 871	1329.30	2 788 332	19 917	1357.84	-5
Total liabilities (opening)	218 532	1 561	99.42	208 365	1 488	101.47	-5
Total equity (assets-liabilities)	2 703 392	19 310	1229.88	2 579 967	18 428	1256.38	-5
Note							

Note

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

Symbol .. Not applicable.

>>> TABLE 3: NORTH ISLAND DEER MODEL EXPENDITURE

MINISE PER PER STOCKUMT STOCKUMT		2008/09				9/10 BUDGET	CHANGE	
Composition Composition								
Permanent wages								
Casual wages 6 528 47 2.97 6 528 47 3.18 0 ACC 152 1 0.07 176 1 0.09 16 Total labour expenses 6 680 48 3.04 6704 48 3.26 0 Animal health 6 680 48 3.04 6704 48 3.26 0 Breeding 900 6 0.41 1 008 7 0.49 12 Electricity 3 388 24 1.54 3490 25 1.70 3 Feed (feed crops) 7 306 52 3.32 5 845 42 2.85 -2.0 Feed (grazing) 0 0 0 0 0 0 0 0 Feed (grazing) 0	FARM WORKING EXPENSES							
ACC	Permanent wages	0	0	0.00	0	0	0.00	
ACC	· ·	6 528	47	2.97	6 528	47	3.18	0
Animal health 6.840 49 3.11 6.453 46 3.14 -6		152	1	0.07	176	1	0.09	16
Breeding	Total labour expenses	6 680	48	3.04	6 704	48	3.26	0
Electricity	Animal health	6 840	49	3.11	6 453	46	3.14	-6
Feed (hay and silage)	Breeding	900	6	0.41	1 008	7	0.49	12
Feed (feed crops)	Electricity	3 388	24	1.54	3 490	25	1.70	3
Feed (grazing)	Feed (hay and silage)	13 468	96	6.13	10 774	77	5.25	-20
Feed (other)	Feed (feed crops)	7 306	52	3.32	5 845	42	2.85	-20
Pertiliser	Feed (grazing)	0	0	0.00	0	0	0.00	
Lime	Feed (other)	6 125	44	2.79	4 900	35	2.39	-20
Freight (not elsewhere deducted)	Fertiliser	29 609	211	13.47	24 054	172	11.71	-19
Regrassing costs 4 800 34 2.18 5 100 36 2.48 6 Weed and pest control 2 640 19 1.20 2 376 17 1.16 -10 Fuel 10 200 73 4.64 9 690 69 4.72 -5 Vehicle costs (excluding fuel) 5 600 40 2.55 5 600 40 2.73 0 Repairs and maintenance 8 280 59 3.77 8 694 62 4.23 5 Total other working expenses 10 1936 728 46.37 91 948 657 44.78 -10 Communication costs (phone and mail) 2 750 20 1.25 2 805 20 1.37 2 Accountancy 2 970 21 1.35 3 119 22 1.52 5 Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Other administration 0 0 0.00 0 0.00 0	Lime	1 480	11	0.67	2 664	19	1.30	80
Weed and pest control 2 640 19 1.20 2 376 17 1.16 -10 Fuel 10 200 73 4.64 9 690 69 4.72 -5 Vehicle costs (excluding fuel) 5 600 40 2.55 5 600 40 2.73 0 Repairs and maintenance 8 280 59 3.77 8 694 62 4.23 5 Total other working expenses 101 936 728 46.37 91 948 657 44.78 -10 Communication costs (phone and mail) 2 750 20 1.25 2 805 20 1.37 2 Accountancy 2 970 21 1.35 3 119 22 1.52 5 Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Use administration 0 0 0.00 0 0 0.00 <td>Freight (not elsewhere deducted)</td> <td>1 300</td> <td>9</td> <td>0.59</td> <td>1 300</td> <td>9</td> <td>0.63</td> <td>0</td>	Freight (not elsewhere deducted)	1 300	9	0.59	1 300	9	0.63	0
Fuel	Regrassing costs	4 800	34	2.18	5 100	36	2.48	6
Nehicle costs (excluding fuel) 5 600 40 2.55 5 600 40 2.73 0 Repairs and maintenance 8 280 59 3.77 8 694 62 4.23 5 Total other working expenses 101 936 728 46.37 91 948 657 44.78 -10 Communication costs (phone and mail) 2 750 20 1.25 2 805 20 1.37 2 Accountancy 2 970 21 1.35 3 119 22 1.52 5 Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Other administration 0 0 0.00 0 0 0.00 0 Rates 6 174 44 2.81 6 483 46 3.16 5 Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0 0.00 0 Other expenditure 2 819 20 1.28 1923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI² 72% 60% EFS/total farm assets 19% 1% EFS less interest and lease/equity 0% 1% Interest+rent+lease/NCI 0% 0% 1%	Weed and pest control	2 640	19	1.20	2 376	17	1.16	-10
Repairs and maintenance	Fuel	10 200	73	4.64	9 690	69	4.72	-5
Total other working expenses 101 936 728 46.37 91 948 657 44.78 -10 Communication costs (phone and mail) 2 750 20 1.25 2 805 20 1.37 2 Accountancy 2 970 21 1.35 3 119 22 1.52 5 Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Other administration 0 0 0.00 0 0 0.00 . Rates 6 174 44 2.81 6 483 46 3.16 5 Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0 0.00 . Other expenditure¹ 2 819 20 1.28 1 923 14 0.94 -32 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -	Vehicle costs (excluding fuel)	5 600	40	2.55	5 600	40	2.73	0
Communication costs (phone and mail) 2 750 20 1.25 2 805 20 1.37 2 Accountancy 2 970 21 1.35 3 119 22 1.52 5 Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Other administration 0 0 0.00 0 0.000 Rates 6 174 44 2.81 6 483 46 3.16 5 Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0.00 Other expenditure ¹ 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.83 118 085 843 57.50 -8 Wa	Repairs and maintenance	8 280	59	3.77	8 694	62	4.23	5
Accountancy 2 970 21 1.35 3 119 22 1.52 5 Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Other administration 0 0 0.00 0 0 0.00 Rates 6 174 44 2.81 6 483 46 3.16 5 Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0.00 Other expenditure1 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2	Total other working expenses	101 936	728	46.37	91 948	657	44.78	-10
Legal and consultancy 1 485 11 0.68 1 515 11 0.74 2 Other administration 0 0 0.00 0 0 0.00 Rates 6 174 44 2.81 6 483 46 3.16 5 Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0 0.00 Other expenditure ¹ 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442	Communication costs (phone and mail)	2 750	20	1.25	2 805	20	1.37	2
Other administration 0 0 0.00 0 0.00 Rates 6 174 44 2.81 6 483 46 3.16 5 Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0.000 Other expenditure ¹ 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6	Accountancy	2 970	21	1.35	3 119	22	1.52	5
Rates 6 174 44 2.81 6 483 46 3.16 5 Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0 0.00 Other expenditure ¹ 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³	Legal and consultancy	1 485	11	0.68	1 515	11	0.74	2
Insurance 3 519 25 1.60 3 589 26 1.75 2 Water charges (irrigation) 0 0 0.00 0 0 0.00 Other expenditure¹ 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% 60% 60% EFS less interest and lease/equity 0% 1% 1%	Other administration	0	0	0.00	0	0	0.00	
Water charges (irrigation) 0 0 0.00 0 0.00 Other expenditure¹ 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS 2 60% 60% 4 16.74 4 16.74 Farm working expenses/NCl³ 72% 60% <	Rates	6 174	44	2.81	6 483	46	3.16	5
Other expenditure¹ 2 819 20 1.28 1 923 14 0.94 -32 Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% 60% 60% 60% EFS/total farm assets 19% 1 1% 1 <td>Insurance</td> <td>3 519</td> <td>25</td> <td>1.60</td> <td>3 589</td> <td>26</td> <td>1.75</td> <td>2</td>	Insurance	3 519	25	1.60	3 589	26	1.75	2
Total overhead expenses 19 717 141 8.97 19 433 139 9.46 -1 Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% 60% 60% EFS/total farm assets 19% 1% 1% EFS less interest and lease/equity 0% 1% 1% Interest+rent+lease/NCI 0% 7% 60%	Water charges (irrigation)	0	0	0.00	0	0	0.00	
Total farm working expenses 128 333 917 58.38 118 085 843 57.50 -8 Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% 60% 60% EFS/total farm assets 19% 1% 1% EFS less interest and lease/equity 0% 1% 1% Interest+rent+lease/NCI 0% 7% 7%	Other expenditure ¹	2 819	20	1.28	1 923	14	0.94	-32
Wages of management 60 219 430 27.40 58 883 421 28.67 -2 Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% EFS/total farm assets 19% 1% EFS less interest and lease/equity 0% 1% Interest+rent+lease/NCI 0% 7%	Total overhead expenses	19 717	141	8.97	19 433	139	9.46	-1
Depreciation 5 910 42 2.69 5 473 39 2.67 -7 Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% 60% 60% 60% EFS/total farm assets 19% 1% 1% 1% EFS less interest and lease/equity 0% 1% 7% 1% Interest+rent+lease/NCI 0% 7% 7% 1	Total farm working expenses	128 333	917	58.38	118 085	843	57.50	-8
Total farm operating expenses 194 462 1 389 88.47 182 442 1 303 83.00 -6 CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% EFS/total farm assets 19% 1% EFS less interest and lease/equity 0% 1% Interest+rent+lease/NCI 0% 7%	Wages of management	60 219	430	27.40	58 883	421	28.67	-2
CALCULATED RATIOS Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% EFS/total farm assets 19% 1% EFS less interest and lease/equity 0% 1% Interest+rent+lease/NCI 0% 7%	Depreciation	5 910	42	2.69	5 473	39	2.67	-7
Economic farm surplus (EFS²) -1 731 -12 -0.79 34 373 246 16.74 Farm working expenses/NCI³ 72% 60% EFS/total farm assets 19% 1% EFS less interest and lease/equity 0% 1% Interest+rent+lease/NCI 0% 7%	Total farm operating expenses	194 462	1 389	88.47	182 442	1 303	83.00	-6
Farm working expenses/NCI ³ 72% 60% EFS/total farm assets 19% 1% EFS less interest and lease/equity 0% 11% Interest+rent+lease/NCI 0% 7%	CALCULATED RATIOS							
EFS/total farm assets 19% 1% EFS less interest and lease/equity 0% 11% Interest+rent+lease/NCI 0% 7%	Economic farm surplus (EFS ²)	-1 731	-12	-0.79	34 373	246	16.74	
EFS less interest and lease/equity 0% 1% Interest+rent+lease/NCI 0% 7%	Farm working expenses/NCI ³	72%			60%			
Interest+rent+lease/NCI 0% 7%	EFS/total farm assets	19%			1%			
	EFS less interest and lease/equity	0%			1%			
EFS/NCI -21% 18%	Interest+rent+lease/NCI	0%			7%			
	EFS/NCI	-21%			18%			

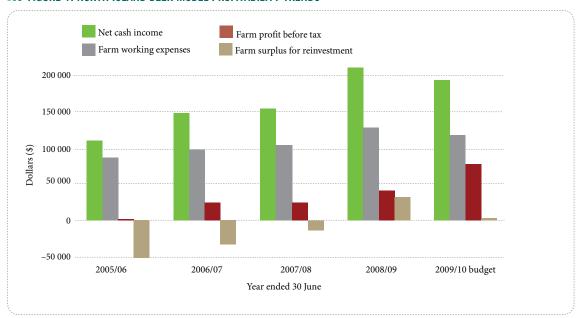
Includes the Accident Compensation Corporation (ACC) employer levy.

2 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: \$31 000 allowance for labour input plus 1 percent of opening total farm assets to a maximum of \$75 000.

3 Net cash income.

Symbol

.. Not applicable.



>>> FIGURE 1: NORTH ISLAND DEER MODEL PROFITABILITY TRENDS

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

The North Island deer model's cash operating surplus was up 82 percent from 2007/08 to \$93 000 (\$42 per stock unit) in 2008/09. Although this is a good result, the 24 percent increase in the model's total farm working expenses eroded a potentially larger cash operating surplus.



DROUGHT AFFECTS FAWNING PERCENTAGES AND CARCASS WEIGHTS

Farmers affected by drought noted a loss of condition in their deer, which lowered fawning percentages, particularly with first calving hinds. R2 hind fawning percentages for the 2008/09 North Island deer model were down 14 percent on 2007/08. Poor stock condition linked to the droughts also resulted in delayed killing times and carcass weights lighter by 1 to 3 kilograms. However, despite these production losses, a higher venison schedule, which remained high for longer than usual, meant most deer farmers still achieved good returns.

VENISON FARMERS ALL SMILES

A 43 percent increase in revenue from deer sales contributed to a similar lift in the model's net cash income. This boost of revenue was a result of both high venison prices and increased numbers of stock sold, as drought-affected farmers de-stocked taking advantage of high prices.

The venison schedule rose above its 10-year average, peaking at around \$8.30 per kilogram in the North Island. Post-Christmas prices, which typically drop significantly, also remained high at around \$7.20 per kilogram.

Deer breeders achieved sales for mixed-sex weaners up around the \$5.00 to \$6.00 per kilogram liveweight range in 2008/09. This was \$1.00 to \$1.50 per kilogram up on 2007/08 and resulted from the limited availability of weaners due to the culling of capital stock over the last few years.

VELVET PRICES REMAIN UNPREDICTABLE

Small velvet operators are becoming disenchanted with velvet due to unpredictable prices, both between velvet classes and from year to year. The North Island deer model's average net price for velvet in 2008/09 was \$55 per kilogram, compared with \$75 per kilogram in 2007/08. This was below the predicted national weighted average velvet price of \$61.50 per kilogram. The poorer outcome for the North Island deer model's velvet prices is likely due to the small scale of the model's velveting business, and because many monitored farms were experiencing drought conditions during 2008, which impacted on velvet weights. The North Island deer model's velvet farm average dropped from 3.6 kilogram per stag in 2007/08 to 2.2 per kilogram per stag in 2008/09.

Industry sources attributed the disappointing velvet returns to poor marketing structures and lack of confidence in New Zealand's main velvet markets in Asia. This is due to the global economic crisis.

Velvet sales contributed 9 percent of the North Island deer model's revenue for 2008/09 compared with 17 percent in 2007/08. At current prices farmers note that there is no incentive to boost velvet production. This is reflected in lower per head velvet weights, less re-growth being harvested and a drop in velveting stag numbers on the farms monitored.

CONSECUTIVE DROUGHTS INCREASE ON-FARM EXPENDITURE

Total farm working expenses rose by 24 percent to \$128 300 in 2008/09. This was driven by increased spending on feed, animal health, weed and pest, and regrassing. These expenses are symptomatic of farming through drought, with lighter animals requiring more animal health products (drench etc) and additional weed and pest management due to less pasture cover. Another result of the dry weather conditions was the need to buy in more feed. Feed expenses increased 75 percent to \$26 900 for the 2008/09 North Island deer model. This increase was both a result of high demand, driven from multiple regions in New Zealand affected by drought and pressure from the dairy boom. Increases in fuel costs and road user charges also contributed to the total feed bill rise.

Regrassing expenses have increased significantly, both as a result of unit cost increases and more area planted in fodder crops as a response to the drought, now needing to be regrassed.

Fertiliser expenses rose 27 percent (to \$13.47 per stock unit) from 2007/08, due to price increases rather than increases in fertiliser use. Higher fuel costs in recent years and a lower New Zealand dollar pushing up import prices increased fertiliser costs. Fertiliser volumes applied by farmers were similar to or less than the previous year. Deer farmers also note some interest in alternative fertiliser/plant health type products, such as HuMates (the active ingredients are bacteria and fungi which the product producers claim improves soil pH to support fertiliser use and allow more effective nutrient uptake by plants).

Total farm working expenses in 2008/09 at \$128 300 (\$58 per stock unit) represents 58 percent of the North Island deer model's \$221 400 net cash income.

NET RESULT PROVIDES DEER FARMERS WITH CASH IN THEIR POCKETS

Farm profit before tax is \$41 000 (\$19 per stock unit). This is up 74 percent compared with the 2007/08 North Island deer model and is part of an upward trend, with each year over the last five years all showing improvements with farm profit before tax and an increasingly more profitable deer sector.

BUDGET FINANCIAL PERFORMANCE OF THE NORTH ISLAND DEER MODEL IN 2009/10

The cash operating surplus in 2009/10 is expected to be \$77 700. This is down on the previous year's \$93 000 but up 52 percent on the 2006/07 year. The decline from the 2008/09 year results from the North Island deer model rebuilding its venison herd, rather than any decline in prices received. The 2009/10 cash surplus is also expected to be reduced by a higher tax bill due to the previous year's improved result.



FARMERS EXPECTED TO REBUILD VENISON HERDS

In response to the expectation of higher prices, the North Island deer model expects to retain weaners and begin rebuilding hind numbers in the 2009/10 season, to increase future venison production. This has impacted the 2009/10 model's revenue. The 2009/10 model's net cash income is expected to be down 12 percent compared with 2008/09 to \$195 800 (\$95.34 per stock unit).

Fawning percentages in the 2009/10 season are expected to improve to match pre-drought 2007/08 percentages. Yearling stag carcass weights are also expected to improve slightly (by 1 to 1.5 kilograms) as drought-affected farmers recover both condition scores and pasture covers.

Deer kill numbers are expected to slow in 2009/10 as herds are rebuilt. The industry has already noted a 45 percent decrease in the hind kill from April 2008 to April 2009 compared with the previous year to April. Total kill for 2009/10 is anticipated to be approximately 360 000 deer, which is 170 000 less than 2008/09. The kill pattern is also expected to be one month late as farmers hold off killing to try and gain extra weight with another good sustained schedule anticipated in 2009/10.

LOWER SUPPLIES ARE EXPECTED TO KEEP VENISON PRICES HIGH

The North Island deer model has dropped its stocking rate from 15.7 stock units per hectare to 14.7 stock units per hectare in 2009/10 to reflect the continued culling over the last few years. This has resulted in lower venison supply which is expected to help keep prices firm in 2009/10. In addition, success from the deer industries overseas marketing strategies are helping to extend the consumption period of venison which is contributing to on farm revenue as farmers have time to maximise liveweight gains selling both pre and post Christmas and still receive good prices. The 2009/10 North Island deer model expects a further price increase of 10–20 cents per kilogram for venison.

VELVET FUTURE UNCERTAIN

Fewer velvet producers and reduced stag numbers are expected to result in an undersupply of velvet boosting the velvet price in 2009/10 to an average of approximately \$75 or more per kilogram. This is \$20 per kilogram more than the 2008/09 price in the North Island deer model. No difference in price is expected between velvet classes in the model, reflecting farmers' lack of confidence in velvet grading and pricing.

The future for velvet remains uncertain. If variability and inconsistent velvet pricing is not rectified, it is likely the family farm will move further away from velvet, leaving it to the larger specialised producers. Farmers report they need \$100 to \$120 per kilogram from velvet to make it worthwhile. Some progress is being made in consolidating the New Zealand velvet industry with a proposed joint venture between

Tasman Velvet Processors Ltd and PGG Wrightson Ltd to form the NZ Velvet Marketing Company Ltd (NZVM) for the purposes of marketing New Zealand velvet overseas. Farmers hope this signals a long awaited unity in the velvet industry, which has the potential to lead to better marketing disciplines and controls.

The North Island deer model shows a slight increase in velvet weight for the mixed aged stags as the season's weather patterns are expected to return to normal and past culling strategies improve average weights gained.

FARM EXPENSES EXPECTED TO EASE

Total farm working expenses are expected to drop 8 percent in the 2009/10 year to \$118 000. This is a reflection of fewer animal health expenses (down 6 percent to \$6500); feed costs (down 20 percent to \$21 500); weed and pest expenditure (down 10 percent to \$2400) associated with a non-drought year; and cheaper fuel (down 5 percent to \$9700).

Cheaper oil prices have helped lower fertiliser prices. Farmers are expected to continue with the same tonnage but actual price per tonne is expected to be down 19 percent. Repairs and maintenance (up 5 percent to \$8700) reflects work deferred from previous years is now expected to be completed given improving returns.

Total expected farm working expenses for 2009/10 at \$118 100 (\$57.50 per stock unit) represent 60 percent of the North Island deer model's \$195 800 net cash income.

TAX LIABILITIES AND STOCK PURCHASES EXPECTED TO IMPACT CASH SURPLUSES IN 2009/10

The 2009/10 North Island deer model's farm profit before tax is expected to increase by 92 percent to \$78 700 (\$38 per stock unit) compared with \$41 000 in 2008/09. This is a result of a drop in farm expenditure, increases in velvet income and revenue from other livestock used for pasture management and an increase in the value of the herd.

The North Island deer model is expected to have a cash surplus of \$14 300 (\$6.96 per stock unit) in 2009/10. Compared with 2008/09 this is a poorer result, and reflects both lower opening stock numbers meaning fewer progeny, and therefore less revenue from sales, as well as increased costs associated with deer purchases, as capital stock numbers are rebuilt. The model's cash surplus is also expected to be reduced by a significant increase in tax liabilities at \$9.67 per stock unit for 2009/10 compared with only \$2.46 per stock unit in 2008/09.

INFORMATION ABOUT THE MODEL

The North Island deer model farm is a small stand-alone deer farm that is big enough to support a family, does not run sheep and beef cattle but includes on-farm income from grazing as part of the farm's pasture management. In response to the majority of North Island deer farms running mixed stock types for pasture management purposes, the 2008/09 North Island deer model now includes on-farm grazing income. Caution should be taken when comparing years prior to 2009. The model farm is theoretically situated in the central North Island/East Coast/Hawkes Bay region.

Weaner hinds and stags are carried over the winter and sold to slaughter. Half of the breeding hinds are mated to a cross-bred stag. The farming programme aims to get yearling stock to target slaughter weights in late spring when market prices for chilled venison traditionally peak. Each year, 25 yearling stags are retained as replacements to enter the velveting herd of 80 mixed aged stags.

The North Island deer model is created from information drawn from 20 deer farms and a wide cross-section of agribusiness representatives. The aim of the North Island deer model is to typify an average stand alone deer farm for the North Island. Budget figures are averaged from the contributing properties and adjusted to represent a real deer farm. Income figures include off-farm income, new borrowing and other cash income.

For more information on the model contact: Deborah.Hackell@maf.govt.nz

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Ministry of Agriculture and Forestry PO Box 2526, Wellington 6140, New Zealand Tel +64 4 894 0100 or Freephone 0800 008 333

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