

FINANCIAL BUDGET MANUAL

2010



New Zealand's specialist
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**Lincoln
University**

Te Whare Wānaka o Aoraki

CHRISTCHURCH • NEW ZEALAND

FINANCIAL BUDGET MANUAL 2010

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PREFACE

The "Financial Budget Manual 2010" is an invaluable reference book for farmers and growers, consultants and students. It contains a wealth of up to date information on farm and orchard costs and prices, the profitability of different enterprises, and income taxation. Following its successful introduction in 1999, the electronic (CD) version of the Manual continues to be available as well as the book format.

Unless stated otherwise, the data contained in the Manual are that ruling in January 2010, and, unless stated otherwise, are quoted exclusive of GST. Prices do not remain stationary so the Manual should be used as a guide only. Market movements and exchange rate changes are just two of the factors which can rapidly alter costs and prices. The availability of discounts for bulk purchases, and deferred payment arrangements, may also affect final costs for budgeting purposes. In addition, some commodity price information is becoming increasingly sensitive and remains confidential between the client and the supplier and/or buyer. It is therefore unavailable for publication in this Manual.

Information quoted has been gathered from sources throughout New Zealand, but some variation may occur between regions. Trade names have been used for clarity and convenience; no preferential endorsement by the University is intended, nor is any criticism implied of any product which does not appear in the Manual.

To use the Manual effectively, readers are well advised to first consult the index (Section F) to identify the location of the information required.

Please note that each of the five sections is paged individually, for example, page A-40 refers to the 40th page of the first section; B-120 refers to the 120th page of the second section.

I would like to thank all the individuals, organisations and commercial firms who have provided information for our use. Without their co-operation, the production of the Financial Budget Manual would not be possible, and we sincerely appreciate the willingness of all those who have contributed. I wish to express my appreciation to the Assistant Editor, Virginia Askin, and Annmarie Baldwin for their efforts in gathering, collating and verifying the information.

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Any suggestions for the improvement of the Manual would be welcomed.

For readers' information the Faculty of Commerce at Lincoln University also produces a companion volume - the "Farm Technical Manual". It is a versatile reference book, which brings into one place all manner of essential technical information required by farmers and others involved in the farming industry.

Jane Pangborn
EDITOR
February 2010

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SECTION 6 - INDEX

SECTION 1

PRODUCT PRICES

Note: Before reading this section, please refer to the disclaimer in the Preface of this Manual.

1.1 MARKET PRICES

1.1.1 Impact of Exchange Rate on Product Prices

For pastoral farming, exchange rates can have a dominant effect on prices at the farm gate. The exchange rate is influenced by four main factors. These are the Government's fiscal policy (its spending behaviour), its monetary policy (how much money the Reserve Bank permits to circulate within the economy at any given time), the interest rate level (the cost of borrowing money on the domestic money market) and the inflation rate. The following table shows the estimated movements in farm gate prices for a 10% movement in trade-weighted exchange rates for a range of commodities. This movement in exchange rates effectively gives the same result as a price change at f.o.b.*.

In general the greater the processing and handling charges between the farm gate and f.o.b. as a proportion of the f.o.b. price the greater the impact of exchange rate movements in farm gate prices. Products such as wool, where the proportion of the value added between farm and ship is low relative to other pastoral products, show the least leveraged effect of exchange rate movements. Mutton at the other extreme shows the highest leveraged effect. In times of currency volatility, low added value products minimise exposure to appreciation of the currency, but minimise potential gains to producers from currency depreciation.

* *f.o.b.* - Free on Board (ship or aeroplane)

Farm Gate Prices - Effect of a 10% Movement in Trade Weighted Exchange Rates.

	Depreciation	Appreciation
Wool	+15%	-12%
Lamb	+18%	-15%
Mutton	+23%	-19%
Beef	+17%	-14%

Note: The figures assume the appreciation or depreciation is effective for the whole season. Fluctuations of lesser duration will have lesser effects.

Source: Meat and Wool New Zealand Economic Service.

1.1.2 Exchange Rate
(i) Major Currencies and TWI to \$NZ (2009)

2009	USA	UK	Aust	Japan	Euro	TWI
Jan 2009	0.5526	0.3815	0.8154	49.96	0.4160	54.9
Feb 2009	0.5151	0.3576	0.7938	47.64	0.4022	52.3
Mar 2009	0.5308	0.3739	0.7979	51.85	0.4067	53.8
Apr 2009	0.5709	0.3882	0.8006	56.42	0.4323	56.9
May 2009	0.5989	0.3891	0.7855	57.92	0.4394	58.0
Jun 2009	0.6374	0.3894	0.7953	61.63	0.4550	60.3
Jul 2009	0.6437	0.3932	0.8011	60.82	0.4573	60.6
Aug 2009	0.6754	0.4082	0.8089	64.14	0.4736	62.9
Sep 2009	0.7024	0.4304	0.8166	64.29	0.4827	64.3
Oct 2009	0.7383	0.4566	0.8157	66.58	0.4986	66.5
Nov 2009	0.7309	0.4400	0.7943	65.26	0.4900	65.2
Dec 2009	0.7162	0.4407	0.7929	64.15	0.4901	64.7

Source: Reserve Bank.

(ii) \$US to \$NZ (1974 to 2009)



Source: Reserve Bank.

1.2 SHEEP

1.2.1 Lamb Schedule (Export)

Meat which is destined for export is graded by individual companies reflecting the market's needs. The various grades are paid for according to Works' schedules, which are set every week during the killing season. Below is a schedule from a meat company for a week in December 2009. Weights shown are hot weights in kilograms.

Weight (kg)	Predicted base price*	Procurement Premium	New season total price
9.1 - 13.2	\$2.10	0.60	\$2.70
13.3 - 13.9	\$3.20	0.60	\$3.80
14.0 - 14.9	\$4.00	0.60	\$4.60
15.0 - 18.9	\$4.00	0.60	\$4.60
19.0 - 22.9	\$4.00	0.60	\$4.60
23.0 - 24.9	\$3.50	0.60	\$4.10

*P, Y and T grades. Also F (14.0 – 22.9kg)

C grades and remaining F grades are minus \$0.60. Wool included in meat schedule.

Additional quality presentation – shorn or bellied \$1.50 / head

1.2.2 Lamb Price Trends

(i) Average prices paid for YM lamb (13.3 to 17.0kg); and All Grades lamb: with 1kg woolpull

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
YM (\$/head)	\$59.15	\$62.68	\$53.27	\$52.14	\$56.91	\$80.55
This price comprises:						
- Average weight (kg)	15.46	15.54	15.53	15.45	15.31	15.57
- Baremeat schedule (c/kg)	355.4	378.7	327.9	325.2	351.30	502.40
- Pelt and wool (\$/hd)	\$4.19	\$3.84	\$2.36	\$1.91	\$3.11	\$2.31
All Grades Avge (\$/hd)	\$65.52	\$68.25	\$55.92	\$53.61	\$57.90	\$88.70
Average weight (kg)	17.43	17.54	17.18	16.90	16.49	17.39

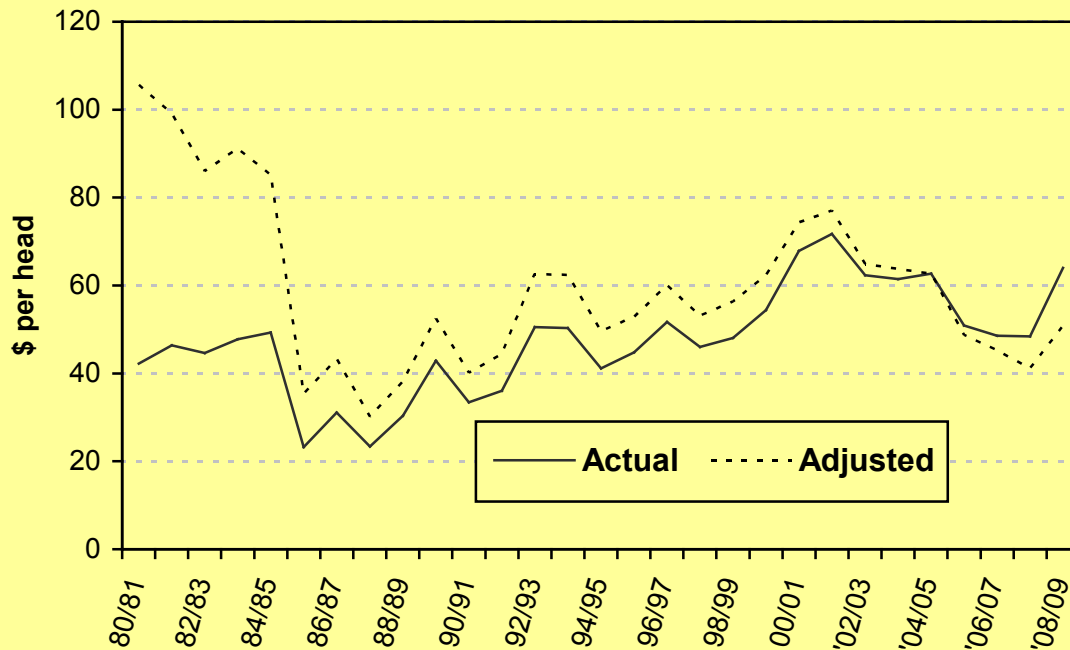
Notes: 1. Prices are at works, for year ended 30 September.

2. Figures may not add due to rounding.

Source: Meat and Wool New Zealand Economic Service.

(ii) Actual and Inflation Adjusted Lamb Prices, 1980 to 2009.

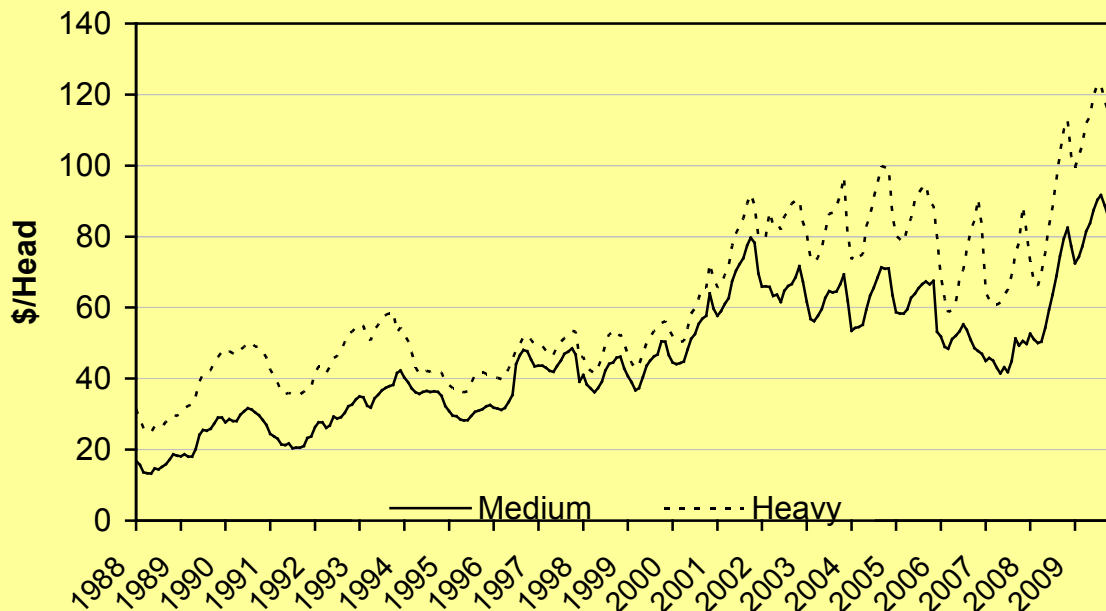
(YM Grade Export Lamb Price - September year) Base year 2004/05.



So

Source: Meat and Wool New Zealand Economic Service, Lincoln University

(iii) Average net export price paid for heavy and medium lambs with a 1 kg woolly pelt (monthly averages, January 1988 to December 2009).



Note: Until October 1993 categories were 13.5kg and 21kg. From November 1993 to June 1996 weights were 14kg and 18kg and from July 1996 onwards weights were 15kg and 18kg. From 2001, weights were 15kg and 21.0kg.

Source: "N.Z Farmer" January 1988 to April 2001, Meat Matters and Straight Furrow

(iv) Prime Lamb/Hogget Prices - Local Trade

(See Section 1.2.10)

(v) Store Lamb Prices

(See Section 1.2.11)

1.2.3 Lamb Skin Price Trends 1988 to 2009

The graph shows the "at works" price for shorn lamb skins (including 1 kg wool pull).



Source: Meat and Wool New Zealand Economic Service.

1.2.4 Lamb Supply Options

Most Meat Companies offer clients a range of supply options.

Silver Fern™ Farms' Backbone® programme

Farmer suppliers have the option of supplying under:

- Committed Supplier Programme
- Integrated Value Chain Programme

The committed supplier option has a paid weekly schedule and lambs must be Farm Assured.

Committed Supplier Programme

Stock class	Premium	Grades	Weights	Criteria
Lambs	\$0.10/kg	P and Y	14 to 22.9kg	Farm Assured A and B presentation

Other supplier premiums

Shorn or bellied and crutched premium	\$1.50/hd	Shorn: max wool length 25mm. Full removal of belly and scrotum wool and all socks. Bellied and crutched: min width 200mm down the midbelly. Max wool length 25mm
Volume quality supply premium		On supply volumes over 10,000su Paid on quality stock criteria in table above

Integrated Value Chain Programme options

Lamb	15-22.9kg, P & Y Grades	Operates for 12 months split
------	-------------------------	------------------------------

Backbone™	60 days Farm Assured	into
Partnership Club	A and B presentation No ram lambs after 31 March	1. Peak season Dec – May 2. Winter season Jun - Nov
M&S Lamb partnership	17 – 21.9kg P & Y grades 60 days Farm Assured A & B presentation Must be Primera™ lamb No ram lambs after 31 March	Operates from Dec to May
North American Lamb	15-22.9kg, P & Y Grades 60 days Farm Assured A & B presentation Antibiotic free from accredited farms No ram lambs after 31 March	Operates for 12 months split into 1. Peak season Dec – May 2. Winter season Jun - Nov
Organic Lamb	15-22.9kg, P & Y Grades 60 days Farm Assured A & B presentation Certified Organic No ram lambs after 31 March	Operates from Dec to May

Performance Premium Pools

Applicable to all the above supply options. Payable quarterly with 10% retention

Criteria include:

- market returns
 - proportion of stock supplied meeting quality specs(weights and grades)
 - meeting Backbone™ Committed Supply Plan numbers
 - quality attributes determined by X-ray carcass analysis where applicable
 - other specific market related criteria as required by customer eg compliance to environmental plan
-

Affco offer a straight option of across all the grades and weights, payouts are 100% and are paid within 7 to 14 days of slaughter.

1.2.5 Live Lamb and Sheep Shipments

The 2009 / 10 and 2007 / 2008 seasons have seen no change in the political climate so no shipments have been possible. It is also clear that there will be no joint shipments made with Australia, which was previously thought to be a possibility back in 2006. With the retirement of the older smaller capacity ships, NZ exporters are unlikely to be able to fill the new larger sized ships from current stock pools.

In 2003 approximately 36,000 sheep were exported, remaining constant since 2001.

1.2.6 Slink Skins

Prices paid by a North Island firm for lamb slink skins in 2009 and 2008 were \$1 for large skins only. All others had no commercial value. In 2006/07 prices were \$1.00 for large skins compared with 50c in 2005 and 80c in 2003.

Prices paid by *Slink Skins Ltd* in the South Island for lamb slink skins were 50c in 2009, 2008, 2007, 2006 and 2005, compared with 75c in the previous four seasons.

1.2.7 Mutton Schedule (Export)

The mutton schedule works in the same way as for lamb (refer to *Section 1.2.1*). Below is a schedule from a meat company for a week in December 2009. These are net prices offered to farmers for the various mutton grades.

Weight (kg)	Grade	Base Price
Up to 23.2	MX1, ML1	\$2.05 per kg
over 23.3	MX2, ML2	\$2.05 per kg
	MH, MP	\$1.65 per kg
	MF, MM	\$1.45 per kg

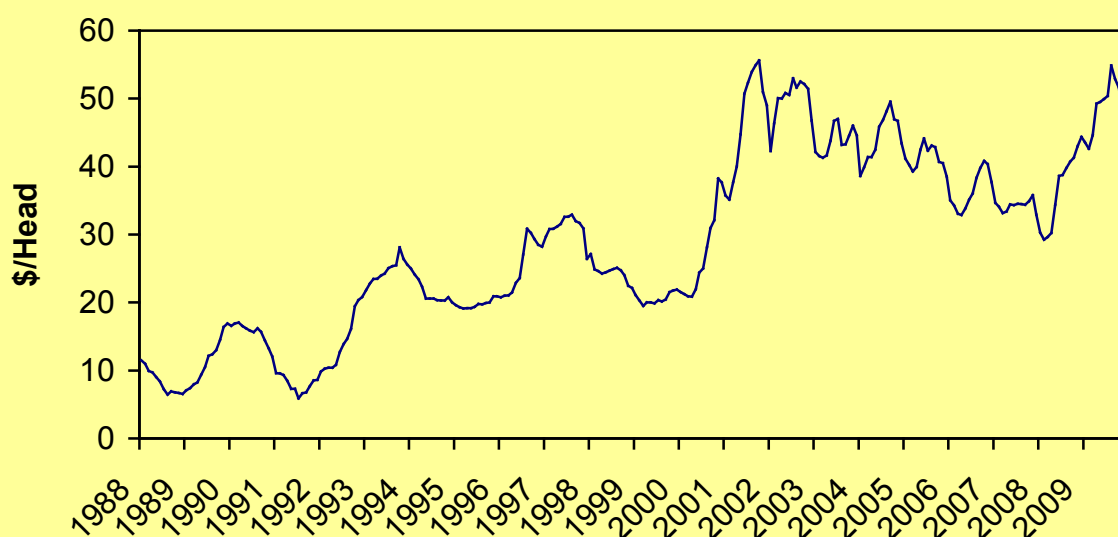
Wool included in meat schedule

1.2.8 Ewe Supply Options

Affco offer a straight option of across all the grades and weights, payouts are 100% and are paid within 7 to 14 days of slaughter.

1.2.9 Mutton Price Trends (Export)

Net Value of a 21kg Ewe with a 0.3kg Pelt (January 1989 to December 2009)



Source: *N.Z. Farmer* January 1989 to April 2001, *Meat Matters*, and *Straight Furrow*.

Average Prices Paid for <22kg Mutton; and "All Grades Average"

Prices are at works, for year ended 30 September.

	2004/05	2005/06	2006/07	2007/08	2008/09
MX1 Mutton < 22kg \$/head	\$42.85	\$36.74	\$34	\$32.66	\$45.05
Average weight (kg)	20.19	20.11	19.99	19.86	20.33
This price comprises					
Baremeat schedule (c/ kg)	188.4	167.40	157.40	150.30	212.30
Pelt and wool (\$/head)	\$4.88	\$3.09	\$2.54	\$2.81	\$1.90
All Grades Avge (\$/head)	\$47.02	\$40.35	\$36.26	\$34.08	\$57.31
Average weight (kg)	24.76	24.94	24.08	23.21	24.56

Source: *Meat and Wool New Zealand Economic Service*.

1.2.10 Sheep Prices - Prime Stock (Local Sales)

A large amount of meat is sold directly from farms to wholesale buyers, but the prime stock auction sales in main centres still set the market. The current situation can be determined from the weekly reports in the newspapers or www.agridata.co.nz. The following information should be used as a guide only.

Sales Information (three main sale centres) 2009:

Prices represent ranges from the prime sales at each centre over a two-month period.

(Average \$ per head)

	Feilding		Tuakau		Canterbury	
	Low	High	Low	High	Low	High
Jan/Feb						
Lambs	\$87	\$104	\$81	\$98	\$80	\$86
Hoggets	\$32	\$68	\$39	\$64	\$64	\$102
Ewes	\$41	\$50	\$44	\$55	\$46	\$59
Mar/Apr						
Lambs	\$92	\$105	\$80	\$99	\$89	\$106
Hoggets	-	-	\$54	\$68	-	\$59
Ewes	\$53	\$62	\$38	\$67	\$58	\$68
May/June						
Lambs	\$103	\$114	\$94	\$112	\$110	\$120
Hoggets	-	-	\$54	\$72	-	-
Ewes	\$55	\$64	\$60	\$67	\$69	\$77
July/Aug						
Lambs	\$105	\$124	\$102	\$118	\$116	\$129
Hoggets	80	\$112	\$54	\$69	-	-
Ewes	\$56	\$71	\$47	\$65	\$51	\$72
Sept/Oct						
Lambs	\$106	\$122	\$92	\$130	\$101	\$123
Hoggets	\$115	\$128	\$59	\$81	\$107	\$116
Ewes	\$64	\$78	\$48	\$66	\$61	\$69
Nov/Dec						
Lambs	\$82	\$94	\$77	\$89	\$88	\$100
Hoggets	\$75	\$98	\$56	\$89	\$91	\$109
Ewes	\$47	\$57	\$47	\$58	\$58	\$65

Note: The price range is the average priced stock (of each type, over a number of sales) for Feilding, Tuakau, and Canterbury.

Source: www.agridata.co.nz and PGG Wrightson Livestock.

1.2.11 Sheep Prices - Store and Breeding Stock

This information should be used as a guide only, as store and breeding sheep prices may vary markedly between districts, seasons and breeds. Sales are normally on a per kg basis.

(i) Average Prices for Store Stock (N.Z. Regions) 1999 to 2009 (\$ per head)

Store Lambs

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
1999/00	36.84	35.47	40.46	34.91	36.57
2000/01	56.56	53.45	59.20	47.43	46.02
2001/02	54.73	59.6	63.39	57.74	58.95
2002/03	50.02	50.51	54.35	51.66	48.81
2003/04	57.81	56.99	55.75	49.19	47.79
2004/05	52.54	68.03	61.03	56.10	53.48
2005/06	47.01	45.50	47.60	40.62	45.95
2006/07	35.82	40.47	41.02	41.16	45.13
2007/08	34.12	32.60	40.07	35.28	37.01
2008/09p	59.30	74.76	72.97	62.13	79.94

Store Two-Tooth Ewes

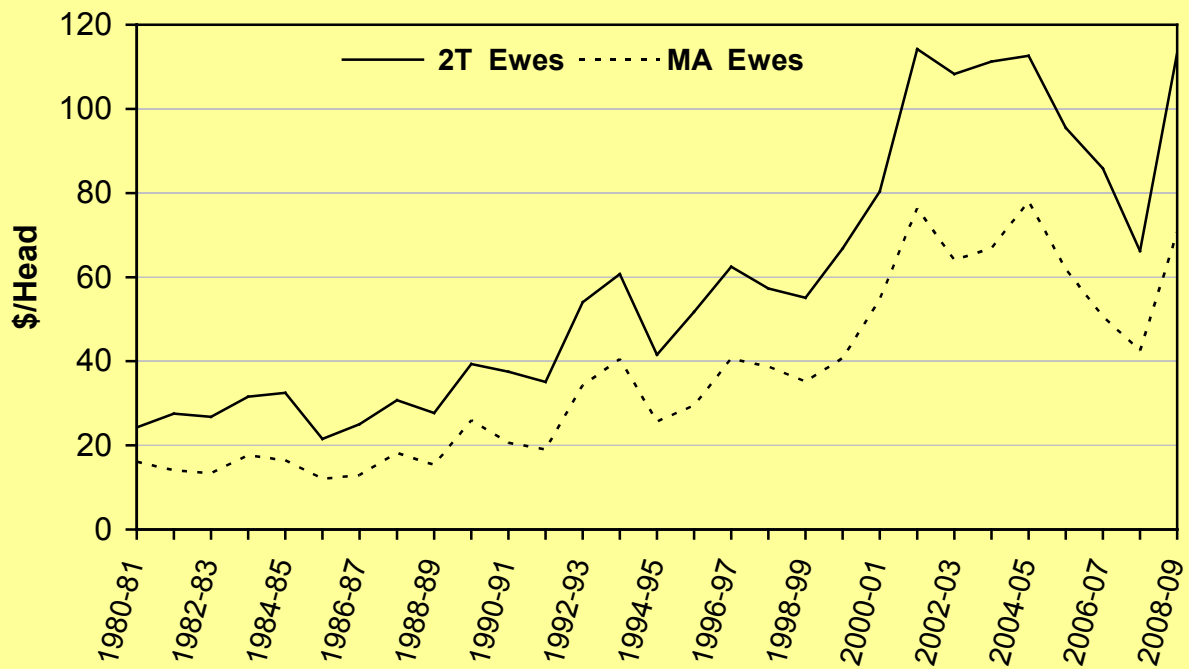
	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
1999/00	54.18	60.89	62.35	67.29	86.11
2000/01	73.69	73.99	76.38	82.26	82.36
2001/02	115.94	91.60	107.54	123.53	114.22
2002/03	86.43	78.51	94.71	109.54	156.78
2003/04	110.48	100.87	95.21	104.99	140.42
2004/05	107.66	89.57	106.33	123.96	111.15
2005/06	96.38	84.63	88.57	97.87	99.54
2006/07	68.19	74.10	76.29	94.40	89.14
2007/08	61.81	61.41	73.97	73.97	59.77
2008/09p	118.69	110.00	106.96	115.62	NA

Store Mixed Age Ewes

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
1999/00	38.82	39.81	40.54	38.26	52.71
2000/01	53.42	56.54	54.54	50.25	60.10
2001/02	62.11	72.29	77.96	73.32	90.84
2002/03	65.43	63.35	61.19	61.69	76.56
2003/04	676.68	70.67	72.41	63.68	77.09
2004/05	65.56	75.47	70.34	76.57	105.11
2005/06	63.81	68.75	60.48	56.09	45.82
2006/07	46.89	46.40	45.10	52.85	56.95
2007/08	40.20	42.06	34.53	43.78	44.95
2008/09p	79.35	65.95	64.72	64.99	90.36

Source: Meat and Wool New Zealand Economic Service. P=provisional

(ii) N.Z. Average Purchase Price for MA Ewes and Two-Tooths (1980 to 2009)
(\$ per head - All Regions Average)



Source: Meat and Wool New Zealand Economic Service.

1.3 WOOL

1.3.1 Wool Market Prices

Shorn Wool Sales – Auction and Private. (Clean price, \$ per kg)

Season	Month	Merino	Crossbred	Mid-Micron	Dags	Total
2008	Jul	7.69	3.60	5.41	1.85	3.80
2008	Aug	9.15	4.07	0.00	2.83	5.65
2008	Sept	13.92	4.29	0.00	2.15	9.12
2008	Oct	10.74	3.83	5.68	1.70	6.75
2008	Nov	10.31	3.52	5.59	1.41	4.78
2008	Dec	10.30	3.85	5.09	0.72	4.09
2009	Jan	5.28	3.05	4.73	0.99	3.09
2009	Feb	11.26	3.17	4.73	0.93	3.71
2009	Mar	17.17	3.10	4.66	1.39	3.48
2009	Apr	8.93	3.11	4.50	1.17	3.23
2009	May	9.71	3.18	4.46	1.33	3.43
2009	Jun	5.20	3.00	4.48	1.40	3.18
2008-09	Auction	11.03	3.32	4.88	1.35	4.15
2009	Jul	5.48	2.75	4.46	1.45	2.91
2009	Aug	8.45	3.01	4.46	1.79	3.51
2009	Sep	9.74	3.87	4.46	1.89	5.22
2009	Oct	10.95	3.06	4.60	1.53	5.25
2009-10	Auction	10.02	3.21	4.49	1.70	4.46

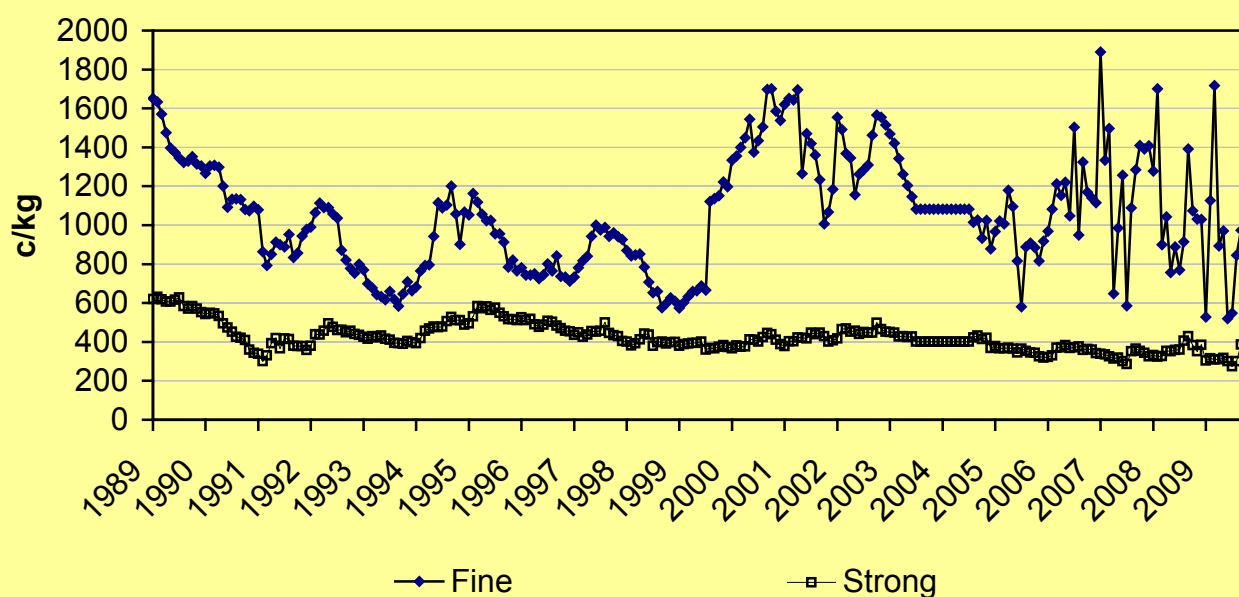
Source: Meat and Wool New Zealand Economic Service

1.3.2 Wool Price Trends

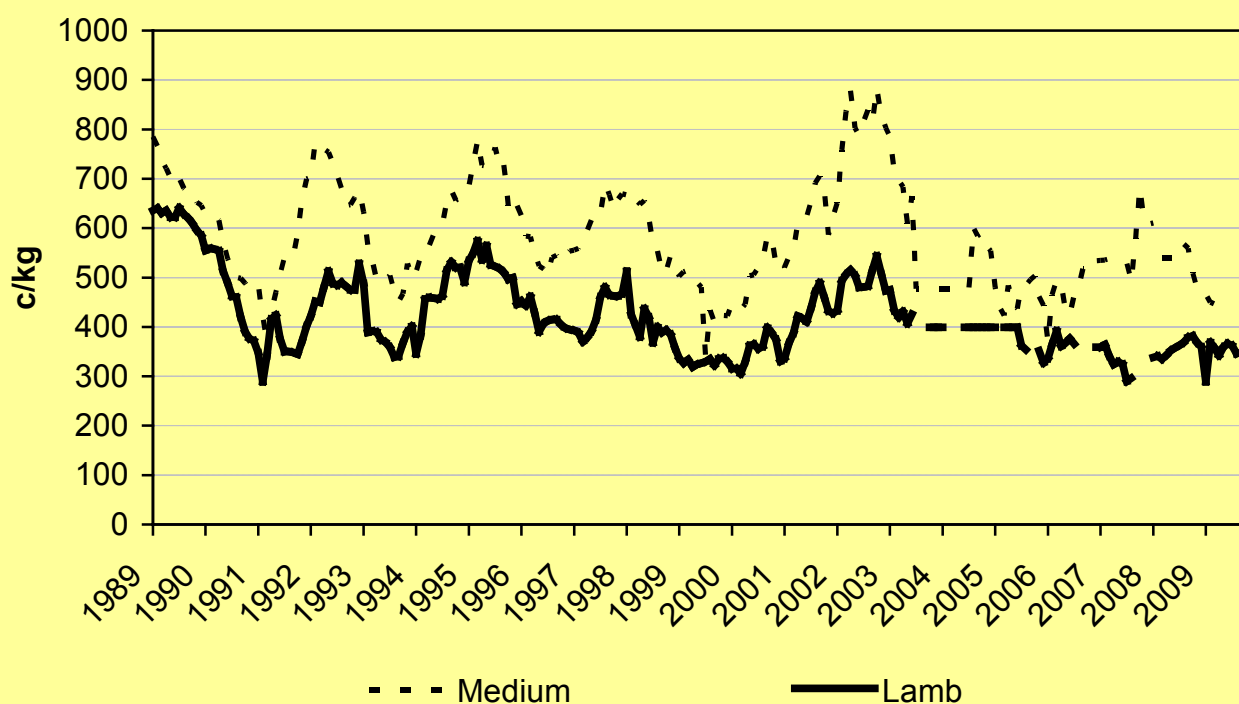
(i) Wool Market Indicator Prices.

Monthly Price Indicators, 1989 to 2009.

Price trends for four main segments of the New Zealand clip are shown on the graphs below:
 Fine = 18 to 24 micron; Medium = 25 to 31; Strong = 32 to 41; Lamb = 31.



Note: Monthly figures unavailable for 2003/04, an annual average has been substituted in these graphs. Also no lambs' wool data was available for Sep 2009 onwards.



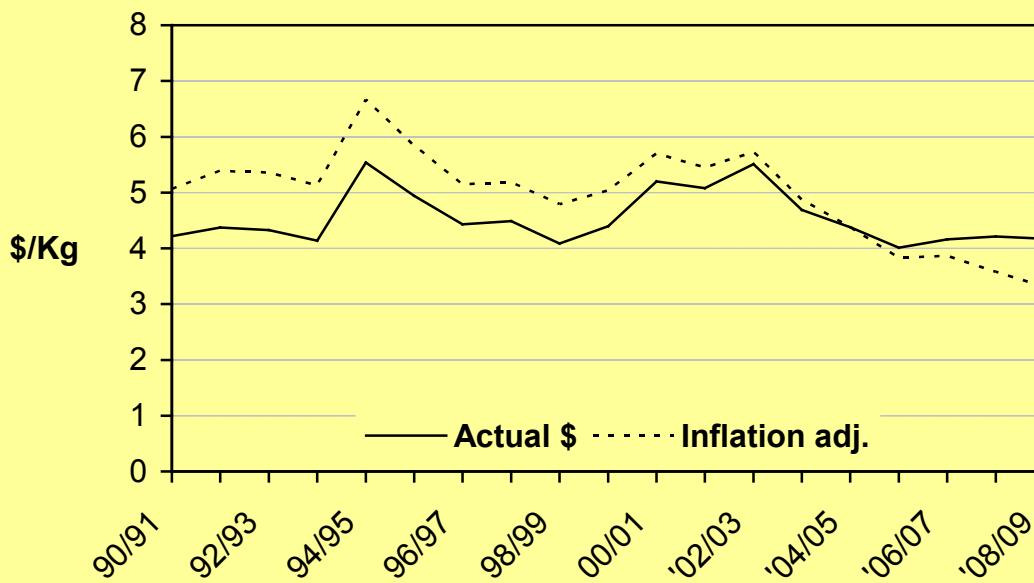
Source: *Straight Furrow, Lincoln University.*

Annual Average Price Indicators 1994/95 to 2008/09
(cents per kilogram clean)

	Fine	Medium	Strong
1994-95	1,230	598	464
1995-96	787	552	456
1996-97	806	489	393
1997-98	1,047	551	356
1998-99	737	432	362
1999-00	1,109	402	369
2000-01	1,543	519	405
2001-02	1,113	636	420
2002/03	1,462	718	443
2003/04	1,089	589	401
2004/05	992	534	387
2005/06	941	472	350
2006/07	1,225	514	341
2007/08	1,356	565	340
2008/09p	1,119	495	333

Source: *Meat and Wool New Zealand Economic Service, Straight Furrow*

(iii) Actual and Inflation Adjusted Clean Wool Price.



(Average Auction Price 1990/91 to 2008/09 - year ended June. Base year 2004/05).

Source: WoolPro, Meat and Wool New Zealand Economic Service.

1.4 CATTLE

1.4.1 Beef Schedule (Export)

The beef schedule works in the same way as for sheep (refer to *Section 1.2.1*).

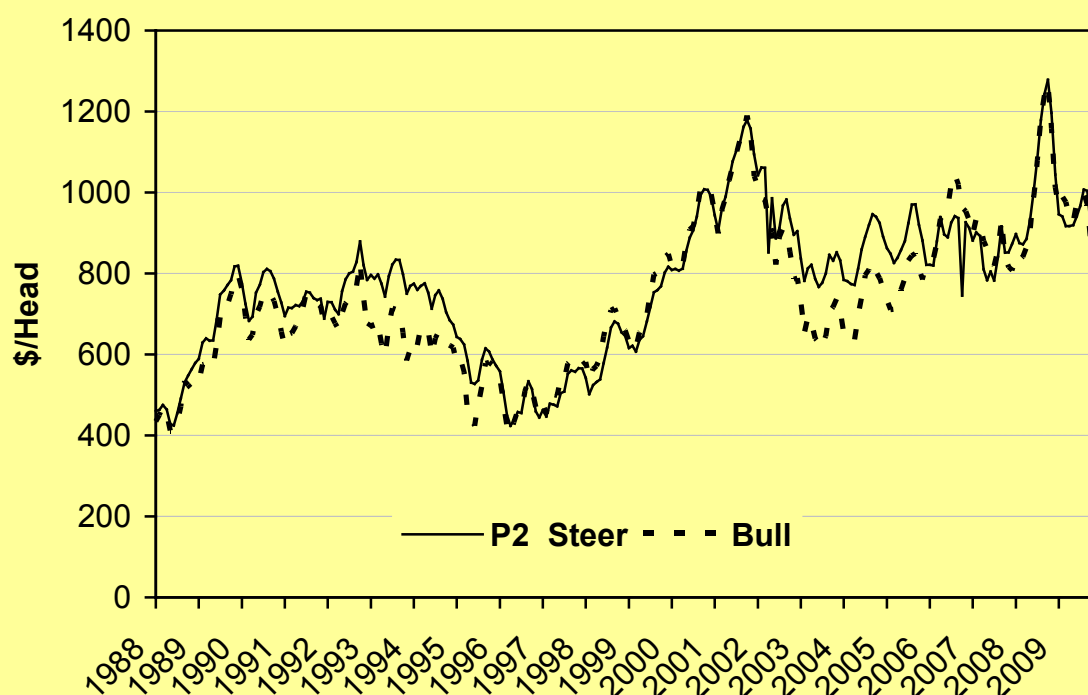
Below is a schedule of gross prices (per kg) for a week in December 2009 from a meat company. Charges and levies have not been deducted.

Steers / Heifers		Bulls		Prime Cows	
Weight kgs	P2 Price	Weight kgs	M2 Price	Carcass weight	P2 Price
145.5 - 195.0	\$1.65	145.5 - 195.0	\$1.30	Up to 195.0	\$1.70
195.5 - 220.0	\$2.15	195.5 - 220.0	\$1.85	195.5 - 220.0	\$1.85
220.5 - 245.0	\$2.55	220.5 - 245.0	\$2.35	220.5 - 245.0	\$1.90
245.5 - 270.0	\$2.75	245.5 - 270.0	\$2.40	245.5 - 270.0	\$1.95
270.5 - 295.0	\$2.85	270.5 - 295.0	\$2.65	270.5 - 295.0	\$2.00
295.5 - 320.0	\$2.85	295.5 - 320.0	\$2.70	295.5 and over	\$2.00
320.5 - 345.0	\$2.85	320.5 - 345.0	\$2.70		
345.5 - 370.0	\$2.85	345.5 - 445.0	\$2.70		
370.5 - 400.0	\$2.85	445.5 - 545.0	\$2.00		
400.5 and over	\$2.55	545.5 and over	\$1.70		
T & L grades minus \$0.10		TM grade minus \$0.05		T grade minus \$0.10	
F grade minus \$0.45				F grade minus \$0.45	
A grade minus \$0.20					
Quality premium (pH)\$20/hd					

Manufacturing Cows	
Weight kgs	M Price
Up to 145.0	\$1.20
145.0 – 170.0	\$1.40
170.5 – 195.0	\$1.70
195.5 – 220.0	\$1.75
220.5 and over	\$1.85

1.4.2 Beef Price Trends (Export)

(i) Net Price paid for 280 kg P2 Steer and 260kg / 300kg Bull (Jan 1988 to Nov 2009)



Note: From Dec 2005, bull weights changed to 300kg to reflect market trends better.

Source: "N.Z. Farmer" Issues January 1988 to April 2001, Meat Matters, Straight Furrow.

(ii) Cow Beef Schedule

(170 - 195 kg)	02/03	03/04	04/05	05/06	06/07	07/08	08/09
Cow M (cents/kg)	212	212.	237	243	211	238	238
Cow M (Avge \$/hd)	\$387	\$388	\$433	\$444	\$387	\$435	\$436

Prices are at works, for year ended 30 September.

Source: Meat and Wool New Zealand Economic Service.

(iii) Bull Beef Schedule

(270 - 295 kg)	02/03	03/04	04/05	05/06	06/07	07/08	08/09
M Bull (cents/kg)	277	288	309	304	308	312	349
Bull Grade (avge \$/hd)	\$784	\$816	\$876	\$862	\$873	\$884	\$989

Prices are at works, for year ended 30 September.

Source: Meat and Wool New Zealand Economic Service.

1.4.3 Beef Supply Options

Silver Fern™ Farms' Backbone® programme

Farmer suppliers have the option of supplying under:

- Committed supplier programme
- Integrated value chain programme

Committed Supplier premiums

Stock class	Premium	Grades	Weights	Criteria
Steer/heifer	\$0.05/kg	P	245.5 – 370kg	A and B presentation for all
Bull	\$0.05/kg	M	245.5 – 400kg	
Prime cow	\$0.05/kg	P	195.5kg +	
Manuf cow	\$0.05/kg	M	145kg +	

Other supplier premiums

Prime quality beef premium	\$20/hd	Stock with a pH measurement of 5.8 and under
Volume quality supply premium		On supply volumes over 10,000su
		Paid on quality stock criteria in table above

Backbone™ Integrated Value Chain Programme options

Backbone™ Prime Beef	245.5 – 370kg P grade steers/heifers Non-HGP, AHB tagged pH of 5.8 or less	Operates on a rolling qtrly basis Prices announced prior to commencement of supply quarter. Qrt1 Dec – Feb
Backbone™ Bull	245.5 – 400kg M grade bulls Non-HGP, AHB tagged	Qrt2 Mar – May Qrt3 Jun – Aug Qrt4 Sept - Nov
Backbone™ Cow	M Cow 145kg + P Cow 195.5kg+	
Backbone™ Angus	Non-HGP, AHB tagged Sired by 100% Angus bull and at least 50% Angus dam Non-HGP, AHB tagged	
Angus Prime beef, bull and cow options as for above except M cow.		

See section 1.2.4 for Performance Premium Pools

Affco offer a straight option of across all the grades and weights, payouts are 100% and are paid within 7 to 14 days of slaughter.

1.4.4 Calf Slink Skins

In the 2009 season a North Island company paid \$0.50 for both heavy and medium skins compared with \$1.50 for heavy skins in 2008 and \$1.00 for medium skins. The 2007 prices were \$2.50 for heavy skins, \$1 for medium and \$0.50 for light skins. The 2006 prices were \$3.00 for heavy skins, \$1.50 for medium, and \$0.50 for both light and slink skins. The 2005 prices were \$2 for heavy skins and \$0.50 for both medium and light skins compared with \$3, \$1 and \$0.50 for heavy, medium and light skins in 2004. In 2003 the company paid \$3 per skin for heavy skins, \$2 per skin for medium skins and 50c for light skins.

Slink Skins Ltd (South Island) 2009 saw no market value for calf skins. In 2008 prices for large skins were \$3 and \$1 for small. 2007, 2006 and 2005 prices were \$3 for large skins and 50c for small skins, compared with \$4 and \$1 in 2004, 2003 and 2002.

1.4.5 Cattle Prices - Prime Stock (Local Sales)

Sales Information (three main sale centres) 2009:

Prices represent ranges from the sales at each centre over a two-month period, and are cents per kg liveweight

	Tuakau		Frankton		Canterbury	
	Low	High	Low	High	Low	High
Jan/Feb						
Steers	150	198	145	194	158	195
Heifers	121	196	120	188	136	192
Cows	20	186	79	167	32	160
Mar/Apr						
Steers	156	192	144	197	151	196
Heifers	122	191	125	196	133	181
Cows	30	158	106	167	41	140
May/June						
Steers	162	200	160	194	153	197
Heifers	110	187	121	183	130	176
Cows	40	169	61	160	40	173
July/Aug						
Steers	168	210	160	226	165	211
Heifers	111	209	121	213	148	200
Cows	60	169	88	158	50	168
Sept/Oct						
Steers	156	202	148	225	147	205
Heifers	110	222	108	213	120	181
Cows	50	167	88	159	40	142
Nov/Dec						
Steers	145	182	140	288	130	185
Heifers	123	181	111	175	131	170
Cows	46	172	80	162	42	150

Note: The price range is the lowest and highest priced stock over a number of sales.
LWT range for steers is 480-650+kg, heifers 350-480kg and cows 350-650kg.

Source: www.agridata.co.nz and PGG Wrightson Livestock.

1.4.6 Store and Breeding Cattle Prices

The following tables are a guide to the average prices paid for store and breeding cattle throughout the country.

(i) Average Prices for Store Stock (N.Z. Regions) 2000 to 2009.

Store 2.5 Year Steers (\$ per head)

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
2000/01	974	945	865	809	-
2001/02	960	1,021	881	1,007	918
2002/03	842	786	808	822	688
2003/04	706	788	781	731	733
2004/05	723	786	771	744	756
2005/06	875	852	811	735	840
2006/07	851	883	801	676	793
2007/08	788	780	749	599	669
2008/09p	856	856	930	N/a	N/a

Store 1.5 Year Steers (\$ per head)

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
2000/01	794	823	770	704	769
2001/02	799	820	835	846	668
2002/03	621	617	633	609	504
2003/04	605	610	640	581	515
2004/05	645	696	641	607	635
2005/06	651	683	707	628	596
2006/07	673	660	674	628	546
2007/08	593	603	633	540	423
2008/09p	636	684	755	631	584

Store Weaner Steers (\$ per head)

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
2000/01	484	531	540	459	521
2001/02	486	577	562	579	469
2002/03	373	439	417	412	371
2003/04	393	487	456	523	287
2004/05	411	439	468	541	460
2005/06	419	469	426	434	396
2006/07	449	474	458	446	407
2007/08	355	410	368	347	338
2008/09p	453	501	484	375	387

P = provisional

Store Weaner Heifers (\$ per head)

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
2000/01	454	351	439	363	370
2001/02	477	433	506	456	496
2002/03	352	332	325	346	219
2003/04	358	378	382	300	284
2004/05	405	398	397	406	434
2005/06	398	388	399	368	377
2006/07	361	374	363	372	453
2007/08	291	342	291	270	270
2008/09p	392	445	368	322	321

Store 1.5 year Heifers (\$ per head)

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
2000/01	585	642	576	617	606
2001/02	617	650	662	593	592
2002/03	520	502	514	643	530
2003/04	470	463	472	502	336
2004/05p	542	535	483	565	577
2005/06	544	584	497	524	577
2006/07	555	517	577	540	448
2007/08	527	506	476	535	492
2008/09p	594	576	537	584	509

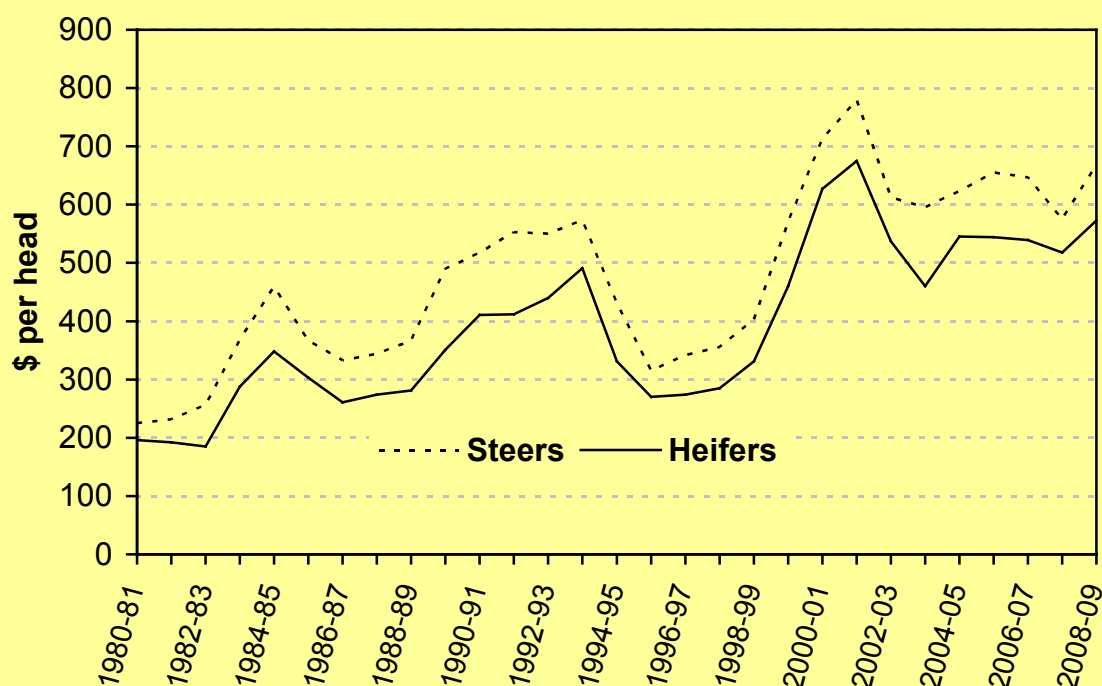
Store Cows (\$ per head)

	Northland/ Waikato/BOP	East Coast	Taranaki Manawatu	Marlborough Canterbury	Otago Southland
2000/01	784	847	838	795	706
2001/02	620	856	1,017	845	935
2002/03	546	545	590	555	658
2003/04	498	585	617	732	580
2004/05	817	670	662	704	525
2005/06	556	598	704	546	789
2006/07	609	559	649	595	523
2007/08	681	609	565	833	518
2008/09p	680	480	674	653	N/a

P = provisional

Source: Meat and Wool New Zealand Economic Service.

(ii) N.Z. Average Purchase Price for 18 Month Steers/Heifers (1980 to 2009)



Source: Meat and Wool New Zealand Economic Service.

1.4.7 T.B. Compensation

Subject to certain criteria, compensation is payable to the owners of cattle classified as TB reactors. For all TB cattle reactors, compensation will be payable at a rate of 65% of the fair market value of each reactor animal, up to the maximum allowable. A 35% top-up compensation payment will be paid to farmers who have a clear or high-risk infected status dairy herd and the reactor animal is found to have no visible lesions on slaughter.

The AHB updates its maximum values for the purposes of compensation through PGG Wrightson on a monthly basis. The following are based on current market values average price per Kg liveweight and valid from 1 Jan 2010. To obtain up to date values please contact the AHB on 0800 4 TB INFO (0800 4 824 636)

NB HERD OWNERS RECEIVE 65% OF THE AGREED VALUE

Beef wnr steers to 1 yr	Small av - 160kg \$2.40	Med av 161- 230kg \$2.45	Heavy av 230kg + \$2.30
Beef wnr hfrs to 1 yr	Small av - 160kg \$2.20	Med av 161-220kg \$2.20	Heavy av 220kg + \$2.10
Beef hfrs to 2yrs	Small av - 250kg \$1.70	Med av 300-380kg \$1.75	Heavy av 381kg + \$1.80
Beef Steers 1 to 2 yr	Light av 300 - 350kg \$2.05		
Beef Steers 1 to 2 yr	Small av 351- 420kg \$2.05	Med av 421-480kg \$2.00	Heavy av 481kg + \$2.00
Beef Breeding 2yr+ (Cows)	Small av 350-400kg \$1.30	Med av 401-470kg \$1.40	Heavy av 470kg + \$1.40

NB: In calf cows depending on stage of pregnancy add \$50 - \$70 per head

Beef Breeding est av livewgt	Ylg bulls av-380kg max value \$900	2yr bulls av-700kg max value \$1,800	aged bull 3yr av-800kg max value \$1,500
NB: For young bulls check if insured			
Dairy Beef			
Wnr Friesian bulls to 1 yr	Small av - 120kg \$3.00	Med av 121- 180kg \$2.10	Heavy av 180kg + \$2.30
Non Breeding bulls, Friesian etc. 1 to 2 yr	Small av 250-300kg \$2.00	Med av 301-360kg \$1.90	Heavy av 360kg + \$1.90
Fresian Steers to 1 yr	Small av 120kg \$2.00	Med av 121- 180kg \$1.85	Heavy av 181kg + \$1.85
R2 Friesian Steers	Small av 200-300kg \$1.65	Med av 301-360kg \$1.65	Heavy av 360kg + \$1.70
Dairy cross to 1yr	Small av - 120kg \$1.55	Med av 121- 180kg \$1.55	Heavy av 181kg + \$1.70
Dairy cross to 2yr	Small av 200 - 300kg \$1.70	Med av 301- 360kg \$1.75	Heavy av 360kg + \$1.75

No TB reactor compensation will be paid when:

- A farmer wishes to slaughter cattle which have been positive to an approved TB test and the animals are awaiting a retest, as directed by an inspector or authorised person;
- An owner wishes to retain the meat from a TB reactor for home consumption;
- The owner has not complied with a legal directive to slaughter a TB reactor;
- Pathological evidence of TB is detected in non-reactor cattle at slaughter.

Source: Animal Health Board.

1.5 DAIRY PRODUCE

1.5.1 Price paid for Milksolids

(i) Background.

Up until the end of the 2000/2001 season, dairy farmers received payment from the New Zealand Dairy Board through a system of advance and final payouts via dairy companies. Seasonal supply dairy companies passed on the Dairy Board advance rate to their suppliers in addition to a margin based on dairy company efficiency, product mix and investment policies; together known as the total payout.

The introduction of the Dairy Industry Restructuring Act 2001 opened the way for New Zealand's largest dairy companies, Kiwi Co-operative Dairies Ltd (Kiwi) and The New Zealand Co-operative Dairy Company Ltd to merge to form *Fonterra Co-operative Group Ltd*, and for the Dairy Board to become a company and a wholly-owned subsidiary of Fonterra. Further, the Act provided for the buy-out of shares in the Dairy Board held by three smaller dairy companies, The Tatua Co-operative Dairy Company Ltd, Westland Co-operative Dairy Co Limited and New Zealand's Premier Dairy Cooperative Limited. Also it regulated the activities of Fonterra which has facilitated the emergence of other companies such as Open Country Cheese, NZ Dairies Ltd, and starting in 2008 Synlait and Open Country Dairy.

Fonterra remains a co-operative, 100% owned and controlled by its shareholders suppliers. In November 2009 shareholders approved changes to Fonterra's capital structure. The changes, effective during the 2009/2010 season, focus on strengthening the share structure and adopting a restricted market valuation for the Fair Value Share. A further change is being considered involving farmer tradability of shares, with the goal of removing redemption risk from the co-operative.

The payments that *Fonterra* suppliers receive comprise a Milk Price (the price paid for raw milk supplied) and a Dividend (the amount of distributable profit actually paid to farmer shareholders in respect of any financial year). The Milk Price is revenues minus costs in Fonterra's commodity business. The Dividend comprises the amount of profit from Fonterra's business activities made available for distribution to farmer shareholders.

To support suppliers' seasonal cash flows, *Fonterra* advances a proportion of the final Milk Price for milk supplied each month. Typically these advance rates increase throughout the season as full year returns become more certain.

Source: LIC Dairy Statistics 2002/2003, Fonterra Co-operative Group Ltd.

(ii) Payments for Milksolids Supplied.

Fonterra's payments for milk (and Advance rates) expressed in \$ per kg of milksolids, represents the total money to be distributed to shareholders for the milksolids they supply the Co-operative when averaged over the total kg of milksolids supplied. This is not the actual amount paid for milk to individual shareholders, as actual payments are based on the composition of their individual raw milk.

Standard payments for milk are calculated by the formula

(a + b) + or - c where:

- a = cents per kg of the milkfat component contained in the milk (subject to Company grading).
- b = cents per kg of the protein component contained in the milk (subject to Company grading).
- c = volume adjustment in cents per litre of raw milk (subject to Company grading).

Payments for Fat and Protein (a + b)

The splitting of the Milk Price into separate payment rates for fat and protein is dependent on two key parameters:

The *Valued Component Ratio (VCR)* is the ratio of the value of milkfat compared with the value of protein. It reflects the relative returns achieved by Fonterra from milkfat and protein products sold in all markets.

This is set at the beginning of each season with the ratio for 2009/2010 being 0.33. This means that the payment for a kg of fat is 0.33 (or 33%) of the payment made per kg of protein. The ratio between the fat and protein payment rates is held constant throughout the season (including the final payment) regardless of the advance rate paid.

The *Component Composition Ratio (CCR)* is the ratio of the total amount of protein supplied to the company in the season versus the total amount of milkfat.

For the 2009/2010 season this has initially been estimated as 0.7547. This means that for every kg of fat supplied the company is expecting to receive 0.7547 kg of protein. This ratio is updated with the actual ratio at the end of the season when the figure is known. If the actual figure at the end of the season is greater than the initial estimate then the final fat and protein payment rates are both reduced so that on average the company still pays the announced payout.

This has to occur because the company would be paying out on a greater quantity of protein than originally estimated, and because protein is paid for at a higher rate, the company would end up paying out more money than it actually has available to distribute. Conversely, if the actual component ratio is less than the initial estimate, the final fat and protein rates are both increased so that, on average, the company still pays the announced payout.

Volume Adjustment (+ or - c)

The volume adjustment is used to adjust supplier payments depending on the milksolid content of their milk. The purpose of this adjustment is to reflect the higher operating costs incurred when transporting and processing low concentration milk. Suppliers whose milksolids content is greater than the company average, receive a positive adjustment for every litre of milk supplied. Conversely, if their milksolids content is less than the company average, they will receive a negative adjustment for every litre of milk supplied. Across Fonterra, this is a zero sum calculation. The amount charged to suppliers below the company average is equal to the amount paid to suppliers above the company average.

As the company average milksolids content is not known until the end of the season an estimate is used throughout the season until the actual number is known. For the 2009/2010 season the initial estimate is 8.63%. If the actual company average milksolids content at the end of the season is less than this estimate then all suppliers will receive an increase in their

volume adjustment payment (i.e. suppliers paid a positive volume adjustment will receive a more positive adjustment and suppliers paid a negative volume adjustment will receive a less negative adjustment). Conversely if the actual company average is more than the initial estimate, all suppliers will receive a decrease in their volume adjustment payment.

Capacity Adjustment

Further to the (a + b) +/-c formula, a capacity adjustment is also applied to the milk payment, and this reflects a shareholder's entitlement to supply milk during the peak period. The purpose of the capacity adjustment is to recognise that some suppliers who produce a greater than average volume of milk during the peak of the season relative to the rest of the season require a greater than average quantity of capital assets to process their milk (for example processing plants and other capital investment such as tankers). Like the volume adjustment, the capacity adjustment is a zero sum calculation across Fonterra.

A supplier is allocated a Peak Supply Entitlement (PSE), which is compared with their peak production, or Peak Standardised Litres (PSL). A positive capacity adjustment is made to the supplier in the situation where the PSL is less than their PSE. Conversely, a negative capacity adjustment is made where the number of PSLs is greater than a respective supplier's PSE. The PSLs are defined as the average daily litres supplied during the farm's highest 10 days of production within the company's 71 day peak period (30 days prior and 40 days after the company's peak day).

Following the changes to Fonterra's capital structure, from the 2010/2011 season, a supplier will be allocated a PSE in proportion to the number of kilograms of milksolids they supply during a season. The PSE is calculated as the product of the supplier's production for the season x Company Peak Supply Factor (CPSF). From the 2010/2011 season the CPSF will be the ratio of the milk supplied on the total suppliers' peak day to total milksolids production over the previous three seasons.

For the 2009/2010 season the PSE is proportionate to the supplier's shareholding, calculated as the product of the Shareholders Opening Capital x CPSF. The Shareholders Opening Capital is that which is held at the start of a season. For 2009/10 the CPSF is the ratio of milk supplied on the total suppliers' peak day to total Shareholders' opening capital over the previous three seasons. The CPSF is announced at the start of the season and for 2009/2010 is 5.88%.

In recognition that the capital costs associated with processing peak milk are affected by both milk volume and milksolids, a standardisation adjustment is applied to each farm's peak litres as follows:

$$\text{PSL} = 0.6 \times \frac{\text{Farm's Peak Period Composition}}{\text{Company's Peak Period Composition}} + 0.4$$

In this calculation, 40% reflects the actual capacity costs of collection, separation and evaporation of volume, and 60% reflects the processing costs to convert milksolids into dairy products.

Fonterra will apply the Capacity Adjustment for the 2009/2010 season at a rate of \$5.40 per PSL as follows:

$$\text{Capacity Adjustment} = (\text{PSE} - \text{PSL}) \times \$5.40$$

For the 2009/2010 season the Capacity Adjustment is applied to the 'February paid March' milk payment (i.e. payments for production in February, made in the following month of March). From the 2010/2011, season the Capacity Adjustment will be applied to the 'May paid June' milk payment (i.e. payments for production in May, made in the following month of June).

Calculation of Milk Payment Split

$$\text{Protein payment rate} = \frac{(1+\text{CCR}) \times \text{Advance Rate}}{(\text{VCR} + \text{CCR})}$$

$$\text{Milkfat payment rate} = \frac{(1+\text{CCR}) \times \text{Advance rate}}{(1/\text{VCR} \times \text{CCR} + 1)}$$

Where: CCR = Component Composition Ratio (company protein to milkfat ratio)

VCR = Valued Component Ratio (fat to protein value ratio)

Example: Where the CCR is 0.7547, the VCR is 0.33 and the advance rate is \$4.00 per kg MS.

$$\begin{aligned} \text{Protein payment rate} &= \frac{(1+0.7547) \times 4.00}{(0.33 + 0.7547)} \\ &= 6.4707 \text{ \$/kg} &&= 647.07 \text{ c/kg} \end{aligned}$$

$$\begin{aligned} \text{Milkfat payment rate} &= \frac{(1+0.7547) \times 4.00}{(1/0.33 \times 0.7547 + 1)} \\ &= 2.1353 \text{ \$/kg} &&= 213.53 \text{ c/kg} \end{aligned}$$

Supplier Payment Example:

Supplier details

Litres	Protein	Milkfat	Milksolids	Farm average milksolids	Farm protein to milkfat ratio
113,298	4,317.1	6,322.6	10,639.7	9.39%	0.6828

Company average milksolids 8.63 %

Company protein to milkfat ratio 0.7547

Component	Quantity	Rate (cents)	Total \$
Protein	4,317.1 kg	647.07 / kg	27,934.66
Milkfat	6,322.6 kg	213.53 / kg	13,500.65
Volume Adjustment	113,298 litres	$([9.39-8.63] / 8.63) * 2.78$ = 0.2448 / litre	277.35
Total paid to supplier			41,712.66

Total paid per kg ms: \$ 3.92

Company Advance Rate: \$ 4.00

In the above example, a positive Volume Adjustment is paid because the farm's average milksolids percentage is greater than the company's average milksolids percentage. However, the total paid per kg of milksolids is less than the company advance rate. This is because the farm's protein to fat ratio is less than the company's average (i.e. less protein has been produced per kg of milkfat compared to the company). The company's average milksolids percentage and protein to milkfat ratio are estimated at the beginning of the season and replaced with actual numbers at the end of the season. This impacts the split of the final payout into separate rates for milkfat and protein, and total volume adjustment paid for the season.

(iii) 2009/2010 Forecast Payments.

The *Fonterra* advance rates for the 2009/2010 season, as at 9 November 2009, were as follows:

Payment Month	\$ per milk solid equivalent
July 2009	\$2.90
August	\$2.90
September	\$2.90
October	\$3.25
November	\$3.25
December	\$4.00
January 2010	\$4.00
February	\$4.15
March	\$4.25
April	\$4.60
May	\$4.85
June	\$5.00
July	\$5.15
August	\$5.40
September	\$5.40
October	\$5.70

(iv) Dividend

In addition to the Milk Price, shareholders are eligible for a dividend payment each season. This reflects the profits from the value-add investments and activities of the business. The Dividend is paid on the basis of shares held in the co-operative, including Dry Shares. Prior to the 2009 capital structure changes, distributable profits were paid as a Value Return on the basis of milksolids supplied to the Co-operative backed by shares.

Fonterra's current policy is that any Dividend will be paid in two instalments, the first of which (the interim dividend) on shares held on March 31st and paid on April 20th. The second instalment (the final dividend) on shares held on May 31st and paid on October 20th. In normal circumstances the Board will target an interim dividend (to be paid in April) of around 30 per cent of the then forecast full-year dividend, with the residual as a final dividend (to be paid in October).

On 3 December 2009 the Fonterra Board announced a dividend policy. From 2010/2011, Fonterra will target a dividend payment ratio of 65-75 per cent of Distributable Profit, meaning 25-35 per cent of Distributable Profit would be retained to be reinvested in the business.

The Board will have full discretion on the dividend level in any year. The level of dividends in any year will take into account:

- any non-recurring items that affect Distributable Profit
- average dividends paid over the previous three years
- short-term earnings projections, investment priorities and gearing targets
- any other factors the Board considers relevant, including the level of milk payments to farmers and other existing or likely market conditions that may impact Fonterra or our shareholders.

For the 2009/2010 year the Fonterra Board is forecasting a Distributable Profit of between 35-45 cents per share, including non-recurring items. The Board is targeting a Dividend of 20-30 cents per share.

1.5.2 Milksolids Price Trends

(i) Milksolids in wholemilk for manufacture (cents per kg).

	93/94	94/95	95/96	96/97	97/98	98/99
NZDB-Final	290.00	300.00	360.00	318.00	300.00	325.00
Company margin	41.72	39.85	39.43	44.88	41.65	32.95
NZ weighted average	331.72	339.85	399.43	362.88	341.65	357.95
	99/00	00/01				
NZDB-Final	335.00	460.00				
Company margin	43.00	41.00				
NZ weighted average	378.00	501.00				
	01/02*	02/03	03/04	04/05	05/06	06/07
Milk Price (\$ per kg MS)	5.06	3.16	3.77	4.37	3.85	3.87
Value Return	0.22	0.47	0.48	0.22	0.25	0.59
Payout (\$ per kgMS)	5.33	3.63	4.25	4.59	4.10	4.46
	07/08**	08/09**	09/10***			
Milk Price (\$ per kg MS)	7.59	4.72	5.70			
Value Return/Dividend	0.07	0.48	0.20 to 0.30			
Milk Price + Value	7.66	5.20	5.90 to			

* Final payout for 2001/02 included payment from reserves of \$0.05

** Final payout for the 2007/08 and 2008/09 seasons is post retentions of 24 cents and 1 cent per kg MS respectively

*** This is the December 2009 forecast. A Dividend range is forecast from 2009/2010 following the 2009 capital structure changes.

Source: New Zealand Dairy Board, Livestock Improvement (1989-2001), Fonterra.

1.5.3 Deductions for Poor Quality Milk

Fonterra operates a daily demerit points scheme under which demerit points are incurred by a supplying shareholder for milk quality defects detected on a daily basis. The aim of the scheme is to ensure that supplying shareholders are held responsible for milk quality and incur milk payment deductions on the basis of downgrade milk supplied.

The company can reject milk that does not meet certain standards.

The Company can impose a maximum of 12 demerit points on a supplying shareholder in any one day except where inhibitory substances are involved, milk is rejected or in the first ten days of a season where there is a maximum of 20 demerits per collection day.

One demerit point equals a 5% deduction from payments. The demerit rates will be based on 90% of the opening payout forecast for the season.

Fonterra carries out a number of Raw Milk Quality Tests. For details refer to the Farm Technical Manual *Section 1.5.10.2*.

1.5.4 Premium Rates for Contract Winter Milk

The vast majority of winter milk contractors have standard *Fonterra* contracts, committing to supply of a daily quantity (kilograms milk solids per day) from 1 May to 31 July in the North Island and 16 May until 15 August in the South Island. Suppliers are required to pay damages to *Fonterra* for any shortfall in supply compared to their contract volume over these contract dates.

Farmers have a daily contract in kilograms of milksolids and are paid on a cents per kg milksolids basis. This payment is based on a factory price minus a transport differential which depends on the supplier's location in relation to their accepting factory.

There are tighter milk quality requirements for winter contract milk due to the nature of markets for which this milk is sourced.

Regional Premiums - winter 2009

Region	cents/kg milksolids
Takanini (Waikato North)	140
Longburn (Lower North Island)	155
Christchurch (Central South Island)	380
Cadbury (Lower South Island)	380

In addition to the winter premium, based on the 2009/2010 capacity charge, suppliers effectively receive 32 cents of capacity adjustment for milk supplied during this period.

In 2007 *Fonterra* introduced Winter Premium Milk. This refers to milk supplied between June 1 and July 15, which is not supplied under Winter Contract or any other specialty milk

contracts. Winter Premium Milk has been designed to provide additional flexibility to suppliers to respond to the higher value Fonterra receives for milk collected during this period. The payment for Winter Premium milk is 75 cents per kilogram of milk solids over and above standard payout, however this price is subject to seasonal variation.

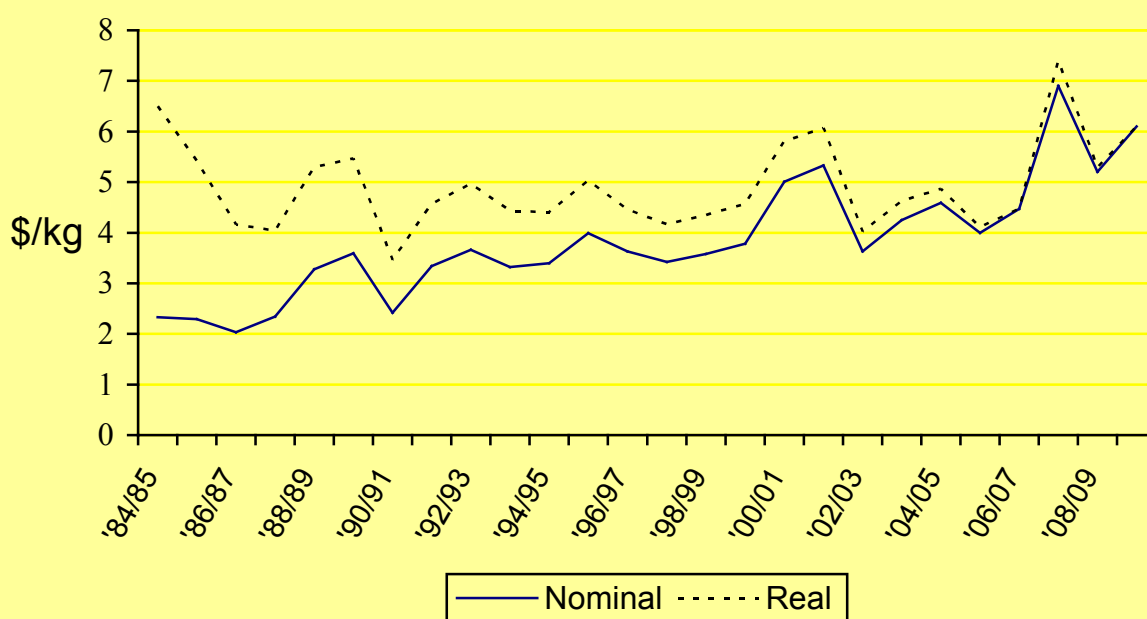
Specialty Milks

Further premiums are available for suppliers of Organic, Colostrum and Stolle milk. These specialty milks all have varying pricing mechanisms.

Source: Fonterra.

(ii) Average Payouts since 1984 in actual Dollars and in "Real" Dollars (based on the value of the dollar in December 2009 and adjusted for inflation).

Figures are in \$ per kg milksolids.



Note the 2009/10 figure is a forecast payout by Fonterra.

Source: New Zealand Dairy Board (data through to 2001), Lincoln University

1.5.5 Sire Proving Payments

The Livestock Improvement Corporation's sire proving payment for qualifying heifers that are milked this season, are:

\$52 for heifers herd tested under self-sample system

\$62 for heifers herd tested under standard assist.

Provisional payments are set at \$52.

1.5.6 Dairy Cattle Sales (2009)

Actual prices for Winter / Spring 2009 and estimates for 2010 for dairy cattle for six regions.

Waikato

Class		Winter/Spring 2009	Autumn 2010
MA Cows 110-120 BW	Friesian	\$1450/\$1500	\$1700
	Cross Bred	\$1450/\$1500	\$1700
	Jersey	\$1450/\$1500	\$1700
MA Cows 60-90 BW	Friesian	\$1300/\$1300	\$1500
	Cross Bred	\$1300/\$1300	\$1500
	Jersey	\$1300/\$1300	\$1500
Rsg 2yr heifers	Friesian	\$1100-\$1200	\$1200 to \$1300
	Cross Bred	\$1100-\$1200	\$1200 to \$1300
	Jersey	\$1100-\$1200	\$1200 to \$1300
Rsg 1yr heifers	Friesian	\$600/\$700	\$650
	Cross Bred	\$600/\$700	\$650
	Jersey	\$600/\$700	\$650

Note: Prices include a sales commission of approximately 7%. BW = breeding worth
 Prices are likely to stay strong for the 2010 autumn due to the lift in Fonterra payment and also due to the poor spring mating which is predicted to result in high empty cow rates for the autumn. There is now very little variation in price between breeds. Quality cows are attracting a premium.

Bay of Plenty

Class		2007	Winter/Spring 2008	2009	2010 est
MA cows	Friesian	\$1,100 to \$1,800	\$1,700 to \$3,200	\$1,000 to \$2,600	\$1,200 to \$1,600
	Jersey	\$1,000 to \$1,500	\$1,700 to \$2,800	\$1,000 to \$1,800	\$1,100 to \$1,500
Rsg 2yr heifers	Friesian	\$950 to \$1,350	\$1,650 to \$2,200	\$650 to \$1,600	\$1,000 to \$1,450
	Jersey	\$750 to \$1,300	\$1550 to \$2000	\$450 to \$1,350	\$1,000 to \$1,400
Rsg 1yr heifers	Friesian	\$550 to \$800	\$1000 to \$1300	\$550 to \$900	\$600 to \$900
	Jersey	\$450 to \$600	\$900 to \$1150	\$450 to \$650	\$450 to \$650

Taranaki

Class		2007	Winter/Spring 2008	2009	2010 est
MA cows	Friesian	\$1100 to \$1400	\$2200 to \$2800	\$1500 to \$1700	All to be
	Jersey	\$1000 to \$1500	\$2200 to \$2800	\$1400 to \$1500	similar to
Rsg 2yr heifers	Friesian	\$1000 to \$1200	\$1700 to \$2300	\$1400	2009
	Jersey	\$800 to \$1100	\$1700 to \$2100	\$1100	
Rsg 1yr heifers	Friesian	\$500 to \$600	\$1000 to \$1200	\$500	

	Jersey	\$500 to \$600	\$800 to \$1000	\$400
4 day hfr calves	Friesian	Up to \$250		\$100
	Jersey	Up to \$200		\$60

Manawatu/Wairarapa

Class	Winter / Spring			
		2007	2009	2010 estimate
MA cows	Friesian	\$1600 to \$3000	\$1200 to \$1400	\$1400 to \$1800
	Jersey	\$1700 to \$2600	\$900 to \$1400	\$1200 to \$1600
Rsg 2yr heifers	Friesian	\$1500 to \$2200	\$1080 to \$1250	\$1150 to \$1350
	Jersey	\$1400 to \$1800	\$950 to \$1000	\$1000 to \$1250
Rsg 1yr heifers	Friesian	\$700 to \$1100	\$450 to \$500	\$600 to \$700
	Jersey	\$500 to \$800	\$350 to \$400	\$450 to \$550
Heifer calves		\$250 to \$400	\$150 to \$250	\$250 to \$350

Canterbury

Class		Winter/Spring			
		2007	2008	2009	2010 est
MA cows	Friesian	\$900 to \$1,450	\$1,800 to \$2,500	\$1,200 to \$2,500	\$1,300 to \$1,600
	Jersey	\$800 to \$1,350	\$1,800 to \$2,400	\$1,100 to \$1,800	\$1,200 to \$1,500
Rsg 2yr heifers	Friesian	\$950 to \$1,200	\$1,600 to \$2,000	\$1,000 to \$1,800	\$1,000 to \$1,400
	Jersey	\$850 to \$1,150	\$1,500 to \$1,900	\$900 to \$1,500	\$900 to \$1,300
Rsg 1yr heifers	Friesian	\$550 to \$800	\$900 to \$1,200	\$400 to \$600	\$500 to \$750
	Jersey	\$400 to \$700	\$800 to \$1,200	\$350 to \$500	\$400 to \$650
Heifer calves – per BW		\$1.00 to \$1.10		\$0.70 to \$1.00	\$1.00 BW+

BW = breeding worth

Southland

Class		Winter/Spring			
		2007	2008 est	2009	2010 est
MA cows	Friesian	\$2000 to \$2400	\$1850 to \$2250	\$1400 to \$1900	\$1400 to \$2100
	Jersey	\$2000 to \$2400	\$1850 to \$2250	\$1400 to \$1900	\$1400 to \$2100
Rsg 2yr hfrs	Friesian	\$1700 to \$2000	\$1600 to \$1900	\$1150 to \$1400	\$1200 to \$1600
	Jersey	\$1650 to \$1950	\$1600 to \$1850	\$1150 to \$1400	\$1200 to \$1600
Rsg 1yr hfrs	Friesian	\$800 to \$975	\$800 to \$975	\$500 to \$700	\$500 to \$700
	Jersey	\$800 to \$975	\$800 to \$975	\$500 to \$700	\$500 to \$700

1.5.7 Dairy and Dairy-Cross Calves

(Refer also to *Sections 1.4.5 and 1.5.8*).

(i) Calves sold for rearing (Spring 2009):

The price is always very dependent on district, and sex, breed and weight of calves.

In Canterbury 2009 Friesian bull calves sold for rearing, achieved between \$50 and \$60 compared with \$50 and \$80 in 2007, \$100 in 2006 and \$70 to \$120 in 2005.

Bay of Plenty

	2009	2010 est
4 day Friesian bulls	\$30 to \$40	\$30 to \$40
4 day Friesian heifers rec	\$70 to \$150	\$100 to \$150
4 day Friesian heifers unrec	\$30	\$30 to \$50

In 2008 beef-cross dairy calves (Hereford x Friesian) were selling for: Bulls - \$60 to \$190 and Heifers - \$30 to \$120

(ii) Bobby Calves sold at Tuakau 2008/2009

	2008		2009	
	Minimum / head	Maximum / head	Minimum / head	Maximum / head
January	\$10	\$330	\$42	\$215
February	\$46	\$180	\$22	\$220
March	\$15	\$312	\$5	\$270
April	\$10	\$350	\$5	\$270
May	\$5	\$430	\$8	\$295
June	\$10	\$320	\$8	\$222
July	\$5	\$350	\$5	\$270
August	\$5	\$320	\$5	\$242
September	\$5	\$290	\$5	\$252
October	\$15	\$280	\$5	\$250
November	\$10	\$270	\$5	\$280
December	\$18	\$195	\$5	\$285

Source www.agridata.co.nz

(iii) Heifers sold for Live Export:

During the 2009 year the live export heifer market has seen a renewed interest and sales into China and the Asian markets and, from a negative viewpoint, nil sales into the Mexican / Central Americas markets.

The shipments over this period have been in the vicinity of 16,000 head and the sales would have been greater had suitable shipping been available.

For the forthcoming 2010 year the demand for China is expected to continue, however it should be noted that the Buyers are currently showing a strong preference for Rising 1 year, unmated cattle. The cattle need to be F12 to F16 and have full ancestry records. In effect this may reduce the demand pregnant rising two-year Holstein Friesian cattle.

The economic recession has had a major effect in the lack of sales into the Mexican market and this has been further affected by the increasing numbers entering Mexico from the USA.

To source and supply cattle into the current and emerging export markets is proving difficult due to the continued domestic demand for quality dairy cattle.

The farm-gate prices throughout the 2009 year have ranged from \$1,300 to \$1,450 for F12-F16 Holstein Friesian Heifers, vetted in calf; while the 12-15mth F12-F16 Holstein Friesian Heifers have ranged from \$650 to \$900

Indications for the 2010 year is that the demand will remain strong and the pricing will be similar, however this is fully dependent on both the foreign exchange position and changes to the world-wide commodity prices for milk products.

Source: PGG Wrightson

(iv) Bobby Calf Price at Farm Gate:

Blue Sky Meats Ltd – Prices are cents per kg hot carcass weight

Weight Range (kg)	2007	2008	2009
7.5 – 13.5	80	100	80
13.6 – 19.0	118	135	118
19.1 – 22.9	142	158	128
23.0 – 26.9	158	168	145
27kg and over	\$42.66 per head	\$48.50 per head	\$39.15 per head

The above prices are for payment in full 14 days after slaughter with the only deduction being cartage.

1.5.8 Dairy Beef Weaners

Refer also to *Section 1.4.6*

In Canterbury, 100 kg Friesian bull calves sold for between \$300 and \$340 in 2008. This compares with \$280 to \$330 per head in 2007. In November 2005 they achieved \$300 to \$340 per head.

Southland

	2009	2010 est
Weaner Friesian bulls	\$280 to \$320	\$280 to \$320
Weaner Beef cross bulls (100kg)	\$350 to \$380	\$350 to \$380
Weaner Bef cross heifers (100kg)	\$450 to \$800	\$450 to \$800

1.5.9 Cow Beef

Refer to *Section 1.4.3* for *Silver Fern Farms* supply options

1.5.10 TB Compensation

See *Section 1.4.7*

1.6 DEER PRODUCTION

1.6.1 Venison Schedule (Export)

The venison schedule works in the same way as for sheep (refer to *Section 1.2.1*).

Below is a schedule of gross prices for a week in December 2009 from a meat company. Charges and levies have not been deducted.

Weight (kg)	AP Price \$/kg
35.1 – 45.0	6.35
45.1 – 85.0	7.15
85.1 to 100.0	6.45
100.1 & over	5.75
Deductions	
Hinds minus	\$0.10
AF1 grade minus	\$1.35
AF2 grade minus	\$2.25
AFH grade minus	\$1.72 off 100.1 and over
PD grade minus	\$3.00
Manufacturing grade minus	\$3.00
Over 4 yrs minus	\$0.30

1.6.2 Venison Supply Options

Silver Fern™ Farms' Backbone® programme

Farmer suppliers have the option of supplying under:

- Committed supplier programme
- Integrated value chain programme

Committed supplier premiums:

Stock class	Premium	Grades	Weights	Criteria
Venison	\$0.05/kg	AP2 – AP5	45.1 – 85kg	A and B presentation

Backbone™ integrated value chain programme options:

Venison	45.1 – 85kg, AP grades only	Operates for total of 12 months split into: 1. Peak season Dec-May 2. Winter season June-Nov
Backbone™	A & B pres	
partnership club	Max age 3yrs	

See section 1.2.4 for Performance Premium Pools

1.6.3 Venison Price Trends

(i) Average Schedule Price 60 kg AP Stag.

Prices are \$ per kg

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	8.06	8.09	8.30	8.46	8.64	8.76	8.75	8.75	8.73	8.51	8.05	7.43
2008	6.48	6.56	6.60	6.72	7.11	7.42	7.93	8.46	9.38	9.55	9.31	8.55
2007	4.72	4.83	4.90	4.90	4.90	4.90	5.01	5.66	6.42	6.68	6.70	6.53
2006	3.50	3.45	3.46	3.60	3.92	4.33	4.69	5.24	5.79	5.85	5.46	4.88
2005	3.88	3.79	3.78	3.74	3.71	3.72	3.95	4.87	5.37	4.73	4.18	-
2004	4.06	3.85	3.85	3.85	3.92	4.04	4.34	5.13	5.37	5.02	4.46	4.09
2003	4.33	4.2	4.12	4.12	4.10	4.08	4.22	4.74	5.06	4.94	4.56	4.20

(ii) Venison Schedule prices 1997 to 2009

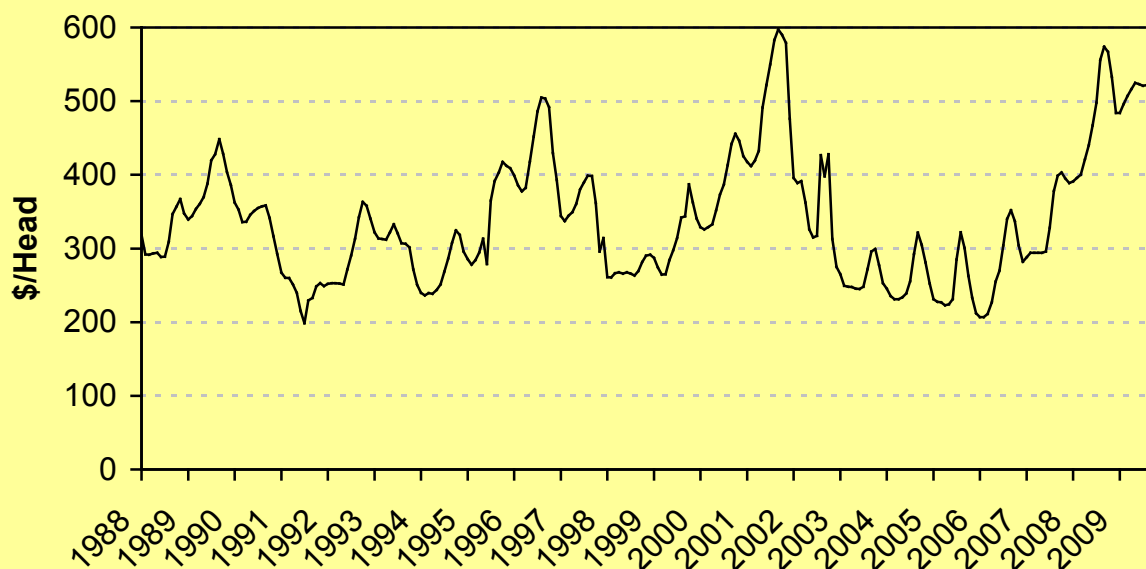
Prices are \$ per kg

1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
\$5.17	\$5.22	\$6.25	\$8.12	\$6.87	\$4.56	\$4.34	\$4.19	\$4.21	\$5.19	\$7.19	\$8.67

Note: The figures are based on the average weekly schedule for the year ending September.

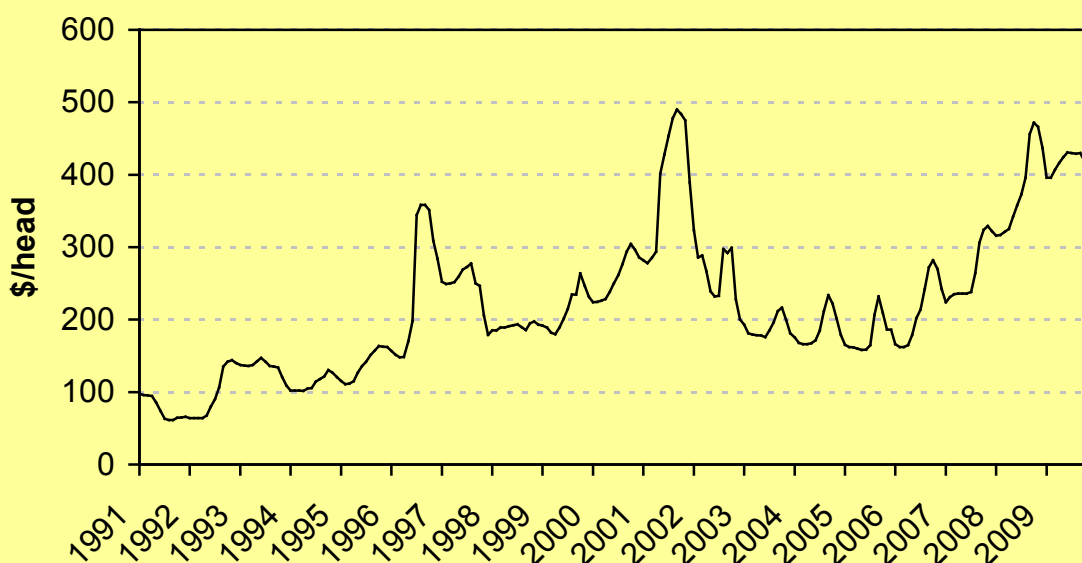
Source: *Deer Industry New Zealand*

(iii) Average Schedule Price for AP Grade (60 kg stag) 1988 to December 2009.



Source: *Lincoln University, "N.Z. Farmer" 1988 to April 2001, The Deer Farmer, Straight Furrow.*

(iv) Average Schedule Price for AP Grade (45kg / 50kg hind) 1991 to December 2009.



Weight changed from 45 to 50 kg in early 2002 and returned to 45kg at the end of 2003. From Dec 2005 weight changed to 50kg again. Prices are gross figures.

Source: *Lincoln University, "N.Z. Farmer" 1988 to 2001, The Deer Farmer, Straight*

Furrow.

1.6.4 Deer Live Sales

Livestock prices vary markedly throughout the year and between districts.

Apart from breeding stags, prices will be very dependent on feed availability, freezing works capacity and schedules. Adult hinds 2 year upwards are quoted as being pregnancy tested – in fawn. Livestock prices for each season from 2005 to 2009 are shown below.

Red Deer

	\$ per head				
	2005	2006	2007	2008	2009
Weaner hinds	70 to 110	80 to 100	100 to 120	140 to 160	180 to 200
Rising 2yr hinds	150 to 200	180 to 220	250 to 300	400 to 450	500 to 550
Mixed age hinds	200 to 250	220 to 280	280 to 350	475 to 500	540 to 580
CFA hinds	150	180	230	350	450
Weaner stags	100 to 150	120 to 150	130 to 180	180 to 220	220 to 280
Rising 2yr stags	150 to 200	180 to 220	300 to 350	450+	600+
MA velveting stags	300 to 350	330 to 350	350 to 450	500+	700+
Breeding stags	2,500	2,500	2,500	2,700	3,000

Weaner red deer can also be purchased on a per kilogram live weight basis.

	\$ per kg				
	2005	2006	2007	2008	2009
Weaner hinds	1.30 to 2.00	1.50	2.00 to 2.20	2.80 to 3.00	3.80 to 4.00
Weaner stags	1.40 to 2.00	1.80 to 2.00	2.50 to 2.75	3.80 to 4.00	4.30 to 4.50

Wapiti and Wapiti cross

	\$ per head				
	2005	2006	2007	2008	2009
Weaner hinds	100	130	150	200	150
Rsg 2yr hinds	200	220	320	500	320
MA hinds	250	280	460	550	460
Weaner stags	140	150	180 to 200	225 to 250	275 to 300
Rsg 2yr stags	280	300	400	550	650+
MA velveting stags	300 to 350	350+	450+	650	800+
Breeding stags	2,000	2,250	2,500	2,500	2,750

Source: PGG Wrightson.

1.6.5 Velvet

(i) Velvet Average Weighted Pool Prices by Grade (\$ per kg)

	2006/07	2007/08	2008/09
Super A	107 to 127	84 to 107	69 to 81
A 1 and 2	106 to 122	77 to 88	63 to 72
B 1 and 2	101 to 120	72 to 85	56 to 64
C 1 and 2	99 to 107	69 to 77	52 to 61
D 1 and 2	83 to 85	75 to 76	44 to 50
E	70 to 71	64 to 66	N/A

Manufacturing		14 to 111	11 to 98	9 to 90
Taiwan	1 to 3	86 to 99	64 to 92	65 to 78
Spiker	1 to 3	76 to 111	70 to 96	57 to 85
Regrowth		80 to 117	61 to 103	43 to 86
Overgrown		55 to 88	45 to 74	43 to 56
Damaged		78 to 105	56 to 73	44 to 61

These figures represent a range of prices paid over the November to January period in each season. Prices are net of *GIB/DINZ* Levy, handling/grading charges and commission.

Source: NZ Game Industry Board, Deer Industry New Zealand

(ii) Seasonal Average Prices for Red Grade Velvet.

	2005/06	2006/07	2007/08	2008/09
Average Weighted Pool Prices				
Super A	59.92	120.91	94.58	73.45
A	56.88	112.75	81.55	66.15
B	53.00	108.12	76.67	59.40
C	48.15	103.41	73.13	56.47
D	43.14	84.34	75.80	46.91
E	36.95	71.11	65.12	N/A
Taiwan	66.10	93.12	75.32	47.58
Spiker	49.66	93.65	79.17	72.75
Damaged	45.00	91.31	64.05	51.58
Manufacturing	44.61	64.75	52.87	47.29
Regrowth	48.78	99.75	84.09	65.84

Source: NZ Game Industry Board, Deer Industry NZ

(iii) Wapiti Velvet Prices 2006/07 to 2008/09

The following prices (\$ per kg) are from the South Island sales.

	2006/07	2007/08	2008/09
Supreme	144.47	131.60	91.08
EW1			
- long	129.51	94.75	71.69
- medium	133.08	105.00	71.12
- short	136.64	109.45	81.05
EW2			
- long	109.81	107.00	72.50
- medium	113.71	110.00	73.00
- short	126.09	90.17	74.37
EW3			
- long	106.60	98.01	71.50
- medium	106.80	98.25	71.50
- short	116.09	103.30	69.50
EW4			
- long	-	N/A	N/A
- medium	-	N/A	N/A
- short	-	N/A	N/A
EW overgrown	98 to 111	84 to 110	49 to 73

Source: New Zealand Game Industry Board, Deer Industry NZ.

1.6.6 T.B. Compensation

No compensation is paid to farmers for deer classified as TB reactors.

1.7 GOAT PRODUCTION

1.7.1 Introduction

Production from goats is divided into three categories: Meat (chevon), milk and fibre. In conjunction with these, goats can be employed as a viable alternative in weed control.

1.7.2 Goat Meat Prices (Chevon)

Schedule Prices - these prices are net of all charges, and are a guide only, subject to change. All prices are for December 2009.

Hellabys: (minimum weight 8 kg)

Weight	8 to 18 kg	18 to 21 kg
\$ per kg	\$3.35	\$1.00

Taylor Preston / C R Grace Ltd.:

Grade	Weight range (kg)	Cents per kg
GA	Under 4.0	0
GL1	4.0 to 6.0	50
GL2	6.1 to 8.0	200
GM1	8.1 to 13.0	305
GM2	13.1 to 16.0	305
GX1	16.1 to 18.0	305
GH1	18.1 to 21.0	205
GHH1	21.1 to 23.0	145
GHHH	23.1 and over	105

Meat NZ Levy 55c per head, MAF Inspection fee \$1.80 per head. Condemned charge \$9.90 per head. Payment of up to \$4.00 per head towards cartage.

Bernard Matthews: Progressive pay freight costs

Grade	Weight	Grade	\$ per head	Levies \$ per head
6		GL	13.60	2.27
8		GL	22.40	2.80
10		GL1	29.70	2.97
12		GM	35.80	2.98
14		GH	41.10	2.94
16		GH	48.80	3.05
18		GHH	55.60	3.09
20		GHH	28.20	1.41
22		GHH	32.30	1.47
24		GHH	36.40	1.52

Silver Fern Farms:

North Is Goat Meat Schedule

4.0 to 11.0 kg	GL	\$2.70/kg
11.1 to 18.0 kg	GM	\$3.70/kg
18.1 +	GH	\$1.80/kg

<i>South Is Schedule</i>		
Weight kg	Grade	Cents per kg
Under 4 kg	GA	Nil
4.0 to 11.0	GL	370
11.1 to 18.0	GM	370
18.1 and over	GH	270
4.0 to 11.0	GPL	50
11.1 to 18.0	GPM	50
18.0 and over	GPH	50

1.7.3 Meat Prices Trends

Prices are \$ per head.

	2008/09 Low	2008/09 High	2008/09 Avg	
15.0 kg	41.85	44.66	42.86	
	2007/08 Low	2007/08 High	2007/08 Avg	2006/07 Avg
15.0 kg	44.66	44.66	42.86	42.86

Source: *Straight Furrow 2008, 2009*. Only 15kg net goat prices available

1.7.4 Goat Milk

Payment for milk for processing has ranged from \$12 - \$13 per kg (milk solids basis) from 2001/2 to 2008/9. Most milk is converted to milk powder (mainly for export), UHT milk and specialized goat milk infant formula (powder). The industry is concentrated in the Waikato and Taranaki and is restricted to a limited number of suppliers. In other regions, production is limited and returns to individual producers vary widely, depending on local supply and demand.

1.7.5 Goat Fibre

(i) Mohair Sales

The following are the average pool prices (\$NZ per kg fleece) for mohair as at December in each year:

Grade	2009	2008	2006 / 07	2005 / 06	2004 / 05
A O Super Fine Kid (ASFK0)	\$38.00	\$32.00	\$30.00	\$28.00	\$28.00
A Super Fine Kid (ASFK1)	\$24.00	\$20.00	\$18.00	\$18.00	\$18.00
B Super Fine Kid (BSFK1)	\$12.00	\$10.00	\$9.00	\$8.00	\$8.00
A O Kid (AK0)	\$28.00	\$22.00	\$20.00	\$18.00	\$18.00
A Kid (AK1)	\$13.00	\$12.00	\$12.00	\$11.00	\$11.00
A 2nd Kid(AK2)discontinued			\$7.00	\$7.00	\$7.00
A O Young Goat (AYG0)	\$14.00	\$10.00	\$15.00	\$13.00	\$11.50

Grade	2009	2008	2006/07	2005 /06	2004 /05
A Young Goat (AYG1)	\$9.00	\$7.00	-	\$10.00	\$9.00
A 2nd Young Goat (AYG2)	\$6.00	\$6.00	-	\$6.00	\$6.00
B O Kid (BK0)			\$10.00	\$7.00	\$7.00
B Kid (BK1)			\$10.00	\$7.00	\$7.00

B O Young Goat (BYG0)			\$10.00	\$6.00	\$6.00
B Young Goat (BYG1)	\$10.00	\$7.00	\$10.00	\$6.00	\$6.00
B 2nd Young Goat (BYG2)			-	\$3.00	\$3.00
A Xbred Young Goat (AXBYG)	\$5.00	\$5.00	\$4.50	\$3.00	\$3.00
A O Adult (AH0) = (FAH)	\$9.00	\$8.00	-	\$10.00	\$8.00
A Adult (AH1)			-	\$5.00	\$5.00
BO Adult (BH0)			-	\$4.00	\$4.00
B Adult (BH1)			-	\$4.00	\$4.00
A 2nd Adult (AH2)			-	\$4.00	\$4.00
Inferior (XXB3)			-	\$0.50	\$0.50
Stained Mohair (STN)	\$5.00	\$4.50	\$4.00	\$3.50	\$3.50
Heavily Stained Mohair (HSTN)	\$2.50	\$2.00	-	\$1.00	\$1.00
Cotted (COTT)			\$4.00	\$3.50	\$3.50
Coloured Mohair (COLMO)			-	\$0.00	\$0.00

Source: Mohair Fibres Ltd.

Prices are \$NZ per kg fleece. An international shortage of Mohair means that there are some good niche markets opening:

Grade	2009
A O Super Fine Kid (ASFK0)	\$40.00
A Super Fine Kid (ASFK1)	\$35.00
B Super Fine Kid (BSFK1)/ B O Kid (BK0)	\$23.00
A O Kid (AK0)	\$27.00
A Kid (AK1)	\$20.00
A 2nd Kid (AK2)	-
A O Young Goat (AYG0)	\$14.00
A Young Goat (AYG1)	\$12.00
A 2nd Young Goat (AYG2)/B 2nd Young Goat(BYG2)	\$8.00
B Kid (BK1)	\$16.50
B O Young Goat (BYG0)	\$13.00
B Young Goat (BYG1)	\$11.00
A Xbred Young Goat (AXBYG)	\$3.50
A O Adult (AH0) = (FAH)	\$11.00
A Adult (AH1)	\$9.00
BO Adult (BH0)	\$10.00
B Adult (BH1)	\$8.50
Inferior (XXB3)	\$3.00
Stained Mohair (STN)	\$5.00
Heavily Stained Mohair (HSTN)	\$3.00
Cotted (COTT)	\$5.00

Source: Mohair NZ.

(ii) Cashgora Sales

There were no sales for the last two years of cashgora fibre. All prices are \$ per kg raw fibre.

Grade:	2006/07	2005/06	2004/05	2003	2002
Cashgora A	10.00	10.00	10.00	10.00	12.00
Cashgora B	8.00	8.00	8.00	8.00	10.00
Cashgora D	6.00	6.00	6.00	6.00	8.00
GY/BR (coloured) Cashgora	5.00	5.00	5.00	5.00	6.00

Note: Cashgora yields from G4 goats range from 0.7 to 1.5 kg per goat.

(iii) Cashmere Sales

There were no sales of cashmere fibre for the last two years. Feral goats are typically shearing a fleece of about 300 grams per head per year of which approximately 100 grams is saleable 'Down' cashmere (prices are \$ per kg).

	2006/07	2005/06	2004/05	2003	2002
WW1/WC1	100.00	100.00	100.00	100.00	100.00
WW2/WC2	80.00	80.00	80.00	80.00	80.00
GY1/GY2/BR1/BR2	60.00	60.00	60.00	60.00	60.00

Source: Mohair Fibres Ltd.

1.7.6 Goat Livestock Sales

Typical prices from 2007 to 2009 were as follows: (\$ per head)

Prices for Jan 2010 were expected to be identical to 2009.

		Jan 2007	Jan 2008	Jan 2009
Does				
Texan/Zim /NZ Angora	Adults	60 to 140	60 to 190	60 to 180
Purebreds	Kids	-	40 to 130	40 to 140
Commercial Angora		40 to 175	50 to 120	40 to 140
Boer Purebred	Adults	90 to 350	90 to 450	100 to 700
	Kids	60 to 90	60 to 440	80 to 450
Boer Crossbred	Adults	30 to 90	40 to 90	30 to 80
	Kids	30 to 90	20 to 55	20 to 40
Wethers (Angora)	Adults	20 to 45	30 to 50	20 to 45
	Kids	25 to 50	20 to 40	20 to 35
Wethers (Boer)	Adults	30 to 60	30 to 60	30 to 50
	Kids	30 to 50	20 to 50	20 to 40
Bucks				
Boer purebred (meat)		350 to 500	200 to 650	200 to 800
Boer crossbred		50 to 120	50 to 100	
Texan /Zim /NZ Angora	Adults	200 to 475	200 to 950	200 to 600
Purebred	Kids	40 to 175	40 to 100	40 or 50 to 170

1.8 PIG PRODUCTION

1.8.1 Pig Meat Prices

Schedule prices vary markedly during the year. Weight ranges and payments are based on "on hooks", "hot" carcass weight, cents per kg. A typical schedule from October 2009 is presented here.

CODES	A	B	C	D	E	F
Fat Measure	under 35.0 kg	35.5 to 40.0 kg	40.5 to 45.0 kg	45.5 to 50.0 kg	50.5 to 55.0 kg	55.5 to 60.0 kg
1 6 -9mm	370	410	410	410	410	390
2 10-12mm	370	410	410	410	410	390
3 13-15mm	240	240	240	240	280	355
4 16 - 18mm	190	190	190	190	190	260
5 19 - 21mm	190	190	190	190	190	190
6 22 - 24mm	190	190	190	190	190	190
7 over 24mm	190	190	190	190	190	190
Y grade	320	335	335	335	335	355

CODES	G	H	I	J	K	L
Fat Measure	60.5 to 65.0kg	65.5 to 70kg	70.5 to 75.0kg	75.5 to 80.0kg	80.5 to 85.0kg	85.5 to 90.0kg
1 6 -9mm	385	385	385	385	370	315
2 10 -12mm	385	385	385	385	370	315
3 13 - 15mm	355	355	355	355	340	285
4 16 - 18mm	260	260	260	255	255	255
5 19 - 21mm	200	200	200	195	195	195
6 22 - 24mm	190	190	190	185	185	185
7 over 24mm	190	190	190	185	185	185
Y grade	355	355	355	355	330	280

Y grade = One carcass fault

Carcasses over 90kg are paid at chopper price, which is \$1.85/kg (head, skin and feet off).

Deductions (per pig):

<i>Pork Industry Board Levy</i>	\$4.45
<i>MAF Inspection Fees</i>	\$3.00
<i>MAF Pigcheck</i>	<u>\$0.15</u>
Total	<u>\$7.60</u>

Regional Schedule Prices

	Auckland/Waikato \$/kg	Manawatu \$/kg	Canterbury \$/kg
Pork (D1)	4.30 to 4.45	4.15 to 4.20	4.10 to 4.15
Bacon (H2)	4.10 to 4.15	4.05 to 4.10	3.80 to 3.85
Choppers 1	1.90 to 2.30	1.90 to 2.30	1.90 to 2.30

The chopper price variations reflect differences in trading policy (whether inclusive or exclusive of heads, feet and skins).

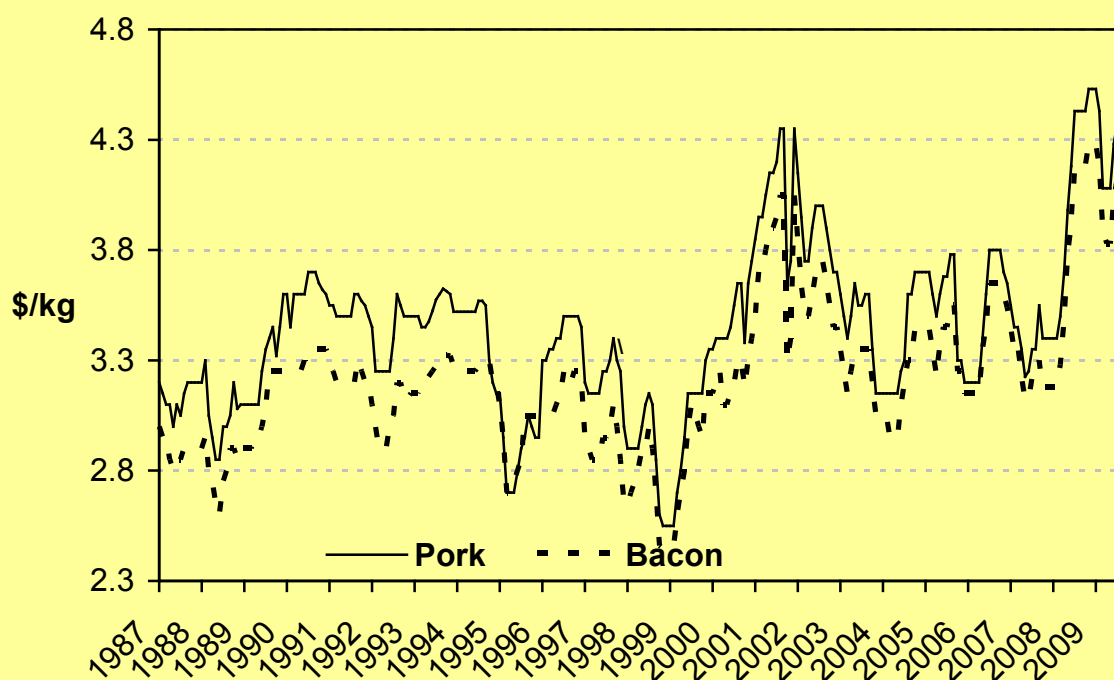
Note: Prices are quoted for the D1 schedule (45.1 to 50.0 kg weight range, 6 to 9 mm back fat) and the H2 schedule (65.1 to 70.0 kg carcass weight range, 10 to 12 mm back fat). Prices do not account for the volume or quality premiums, available from many buyers.

Source: *Pork Outlook, January 2010.*

1.8.2 Average Pigmeat Returns 1987 to 2009

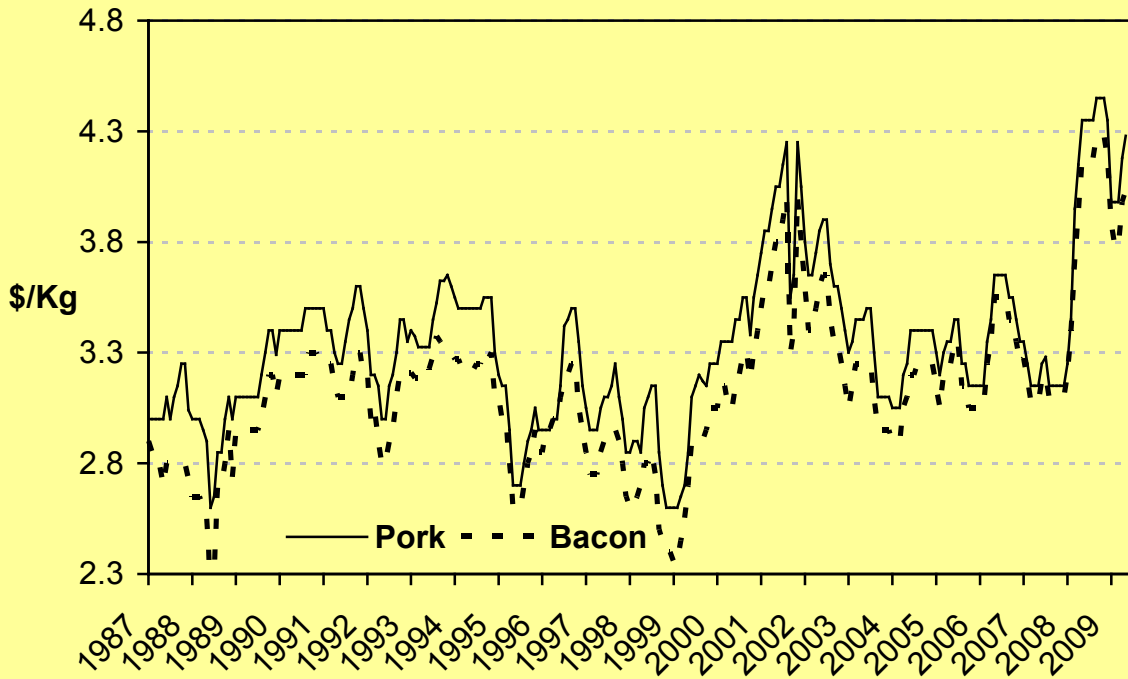
The following are average monthly return for pigs, on a per kg basis, sold in three regions from 1987 to 2009 (D1 Pork and H2 Bacon).

(i) Auckland / Waikato



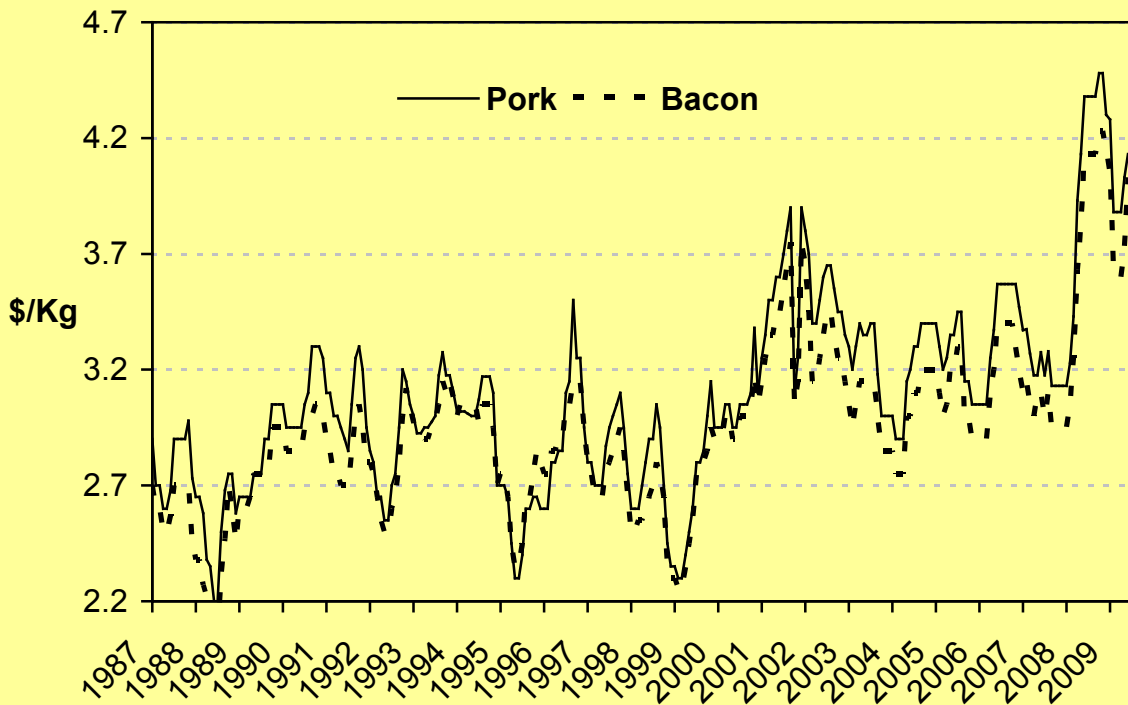
Source: *NZ Pork Industry Board*

(ii) Manawatu



Source: NZ Pork Industry Board

(iii) Canterbury



Source: NZ Pork Industry Board

1.8.3 Live Pig Price Trends

South Island

		2005/06	2006/07	2007/08	2008/09
		\$ per head	\$ per head	\$ per head	\$ per head
Weaners	- small	45 to 50	45 to 50	55 to 65	65 to 70
	- medium	50 to 60	50 to 60	65 to 70	70 to 75
	- large	60 to 65	60 to 65	70 to 75	75 to 80
Slips		70 to 80	70 to 75	75 to 80	80 to 90
Stores	- large	80 to 90	80 to 90	90 to 100	90 to 100
	- small	-	-	-	-
Porkers	- heavy	150 to 160	150 to 160	160 to 190	160 to 190
	- light	110 to 130	110 to 140	120 to 150	120 to 150
Bacon	- heavy	150 to 210	180 to 215	200 to 250	200 to 250
	- light	-	-	-	-
Sows		200 to 220	230 to 260	300 to 350	220 to 250
Choppers	- heavy	150 to 170	150 to 170	250 to 300	120 to 180
	- light	-	-	-	-
In Pig Sows		-	-	-	-

North Island

		2006	2007	2008	2009
		\$ per head	\$ per head	\$ per head	\$ per head
Weaners	- small	25 to 60	50 to 85	50 to 80	80 to 100
	- medium	45 to 65	60 to 85	60 to 90	90 to 110
	- large	70 to 85	85 to 95	80 to 95	110 to 130
Slips		90 to 120		100 to 130	130 to 150
Stores	- large	90 to 130	90 to 140	90 to 140	120 to 150
	- small	70 to 85	70 to 95	80 to 100	100 to 120
Porkers	- heavy	120 to 180	140 to 180	150 to 180	160 to 200
	- light	90 to 140	110 to 150	100 to 150	140 to 160
Bacon	- heavy	170 to 200	170 to 220	170 to 200	220 to 250
	- light	160 to 190	170 to 200	170 to 200	190 to 210
Sows					
Choppers	- heavy	100 to 150	100 to 220	120 to 200	150 to 250
	- light	60 to 120	50 to 130	30 to 150	30 to 180
Mated Sows		180 to 400	180 to 450	180 to 350	180 to 420

The trend over most years shows a drop in prices from January to March, levelling through to August, and then increasing through to Christmas.

Source: PGG Wrightson

1.9 CAMELIDS

Section provided by Alpaca and Llama Association of New Zealand.

1.9.1 Introduction

Established as livestock animals in the developed world for just over fifteen years (after a century long ban on export from their continent of origin, South America), alpacas and llamas are farmed primarily for fleece and as companion animals. In South America they are also harvested for meat. Llamas are also used there as “beasts of burden”. Both species of camelid are still in the breeding phase in most developed countries.

1.9.2 Fibre Prices

(i) Alpaca

This is sold primarily in three grades. Grade 1 (the finest micron) is from the saddle, Grade 2 from the shoulders and flanks, and Grade 3 is the rest (the poorest micron). These grades all suffer from vegetable contamination as the animals roll daily in dust baths. Good camelid management in clean paddocks free of loose hay can result in quality fleeces. Baby (cria) fleece is the finest and usually commands greater prices. Prices range from \$50 per kg to only a few dollars per kg, depending on micron, colour and fleece contamination. Solid coloured fleeces are more valuable than those that are multi-coloured. Up to two kg of fine fleece can be obtained from adult animals shorn once per year. Fleece strand diameter usually ranges from 20 to over 40 microns and depends on age, nutrition, and genetics of the animals surveyed.

(ii) Llama

Generally regarded to be of lesser value than alpaca fleece because of the presence of coarser guard hairs.

1.9.3 Livestock Prices

Generally speaking, animals of Peruvian rather than Chilean descent are considered more valuable. In the case of alpaca this is because of the greater density and fineness of fleece and in llama because of greater variety of distinctive fleece colouration. Prices have fallen slightly since December 2001 and have remained pretty much unchanged.

(i) Alpaca

Young females (solid colours)	\$1,000 to \$8,000
Young females (multi-colour, skewbald etc)	\$1,000 to \$2,000
Old females (approximately 10 years, solid colour)	\$1,500 to \$3,000
Old females (multi-colour)	\$2,000
Certified breeding males (white, off white, Peruvian)	\$3,000+
Certified breeding males (coloured, non-white, Chilean)	\$2,000 to \$5,000
Wethers (any colour)	\$300 to \$1,000

(ii) Llama

Young females	\$1,000 to \$4,000
Old females	\$800 to \$3,000
Breeding Males	\$800 to \$5,000
Wethers	\$300 to \$1,500

1.10 CROPS

1.10.1 Wheat

(i) Contract prices

Milling Wheat - South Island Contracts for 2010

Contracts delivered to *Goodman Fielder NZ Ltd*.

Protein %	\$ per tonne Premium: Domino, Conquest	\$ per tonne Milling: Sage, Torlesse, Saracen, Bakker Gold, Vanquest	\$ per tonne Gristing: Amarok, Raffles.
13.2 +	445	440	375
13.0 – 13.1	443	438	375
12.8 – 12.9	441	436	375
12.6 – 12.7	440	435	375
12.4 – 12.5	439	434	375
12.2 – 12.3	438	433	375
12.0 – 12.1	437	432	375
11.8 – 11.9	436	431	375
11.6 – 11.7	435	430	375
11.4 – 11.5	434	429	365
11.2 – 11.3	433	428	365
11.0 – 11.1	430	425	365
10.8 – 10.9	425	420	365
10.6 – 10.7	420	415	365
10.4 – 10.5	415	410	365
10.2 – 10.3	410	405	365
10.0 – 10.1	405	400	365

A storage increment of 9 cents per tonne per day will be paid from 1 May in year of harvest.

At the request of the Breeders of milling wheat, a royalty charge on payment weight plus GST will be deducted by the mill and paid to the Breeder.

Purple Wheat - South Island Contracts

The contract price for Amethyst wheat delivered to *Goodman Fielder NZ Ltd* was \$500 per tonne for the 2010 harvest.

A storage increment of 9 cents per tonne per day will be paid from 1 May 2010.

Soft Wheat - South Island Contracts

Contract price for wheat delivered to *Goodman Fielder NZ Ltd* in 2010 is as follows:

Protein %	Claire / Robigus / Consort
Up to 10.5	\$395 per tonne
10.6 and above	\$385 per tonne
Over 350 Falling Number additional \$20 per tonne	

A storage increment of 9 cents per tonne per day will be paid from 1 May 2010.

Milling Wheat - North Island Contracts for 2010

(Delivered to Christchurch) *Goodman Fielder NZ Ltd*

Protein %	\$ per tonne
Milling, Conquest, Sage, Torlesse, Saracen, Bakker Gold, Vanquish	
13.2 and above	\$418
13.0 to 13.1	\$416
12.8 to 12.9	\$414
12.6 to 12.7	\$413
12.4 to 12.5	\$412
12.2 to 12.3	\$411
12.0 to 12.1	\$410
11.8 to 11.9	\$409
11.6 to 11.7	\$408
11.4 to 11.5	\$407
11.2 to 11.3	\$406
11.0 to 11.1	\$403
10.8 to 10.9	\$398
10.6 to 10.7	\$393
10.4 to 10.5	\$388
10.2 to 10.3	\$383
10.0 to 10.1	\$378

A storage increment of 9 cents per tonne per day will be paid from 1 May 2010.

At the request of the Breeders of milling wheat, a royalty charge on payment weight plus GST will be deducted by the mill and paid to the Breeder.

PGG Wrightson offered milling wheat contract prices of \$422 at 12% Prt in 2009/10 compared to \$517 per tonne at 12% Prt in 2008/09.

Source: PGG Wrightson

Feed Wheat

Canterbury contract price for 2009/10 was \$340 per tonne, down from the 2008/09 price of \$450 per tonne. The 2007/2008 was \$300 per tonne. compared with the 2005/2006 price of \$240 per tonne, and 2003/2004 price of \$250 per tonne.

Source: PGG Wrightson

Seed Wheat

Seed crops will usually be based on milling or biscuit wheat contract prices with a premium of \$25 to \$40 per tonne (MD) over the milling price for 1st generation and for basic seed, if it meets specification.

Royalties may be payable on grain for seed. See *Section 2.10.11* for details.

Biscuit Wheat

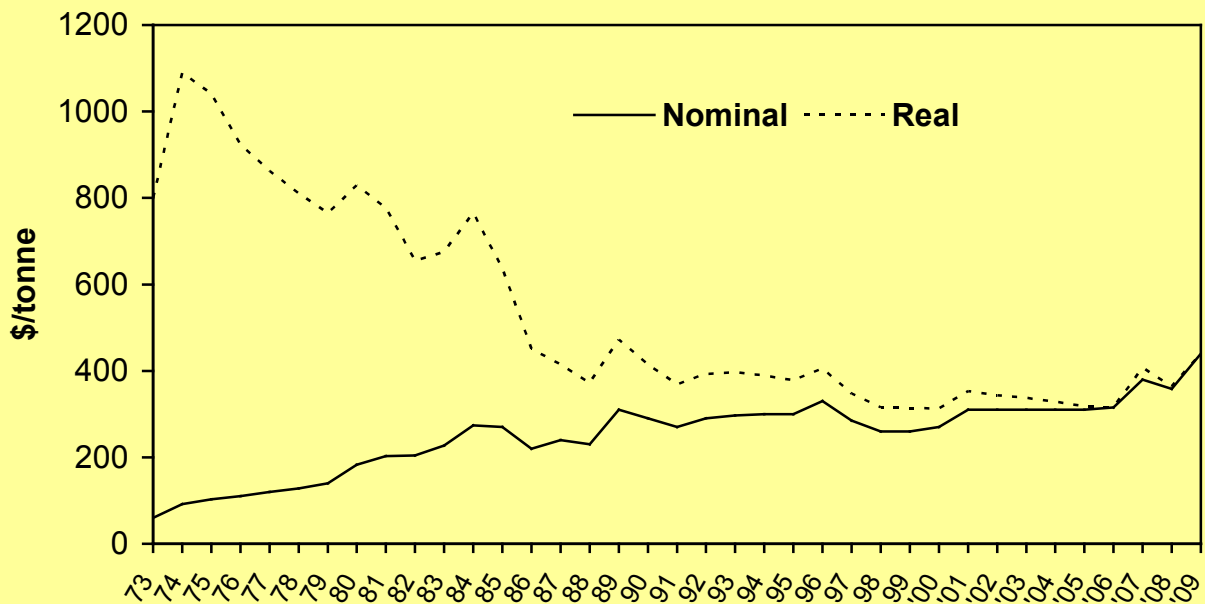
PGG Wrightson offered biscuit wheat contract prices of \$385 at >10% Prt in 2009/10 compared to \$460 per tonne at >10% Prt in 2008/09.

Source: PGG Wrightson

(ii) Wheat Price Trends

New Zealand Milling Wheat Prices 1973 to 2009 (Harvest Years)

The "Nominal" prices are the contract price paid to South Island growers at harvest in each year. The "Real" prices are based on the value of the \$NZ in December 2009 and are adjusted for inflation using C.P.I. figures, for each calendar year, as published by the *Reserve Bank of New Zealand*.



Source: Lincoln University.

1.10.2 Barley

(i) 2010 Contract Prices:

Malting

Malteurop NZ Ltd contract price for malting barley in the South Island for the 2010 harvest was \$396.55 / tonne at 0% moisture, \$345 at 13% moisture, net delivered to the Ashburton depot. Prices in 2008 were \$373.56 / tonne at 0% moisture, (\$325 / tonne at 13% moisture). This compares with \$294.25 / tonne at 0% and \$256 / tonne at 13% in 2006, \$301 / tonne at 0% and \$262.50 / tonne at 13% in 2005, and \$293.10 / tonne at 0% and \$250 / tonne at 13% in 2004.

The North Island 2010 contract price was \$459.30 / tonne at 0% moisture, \$395 at 14% moisture, net delivered to Marton. In 2006 prices were \$310 at 13% moisture delivered to Marton. (2005 North Island prices not available). 2004 prices were \$354.65 / tonne at 0% moisture and \$305.00 at 14% moisture.

In the event of the company requiring the grower to store the barley, the company shall pay to the grower an increment of 5c per tonne per day from and including 1st April through to and including 31st December. For barley with a screening percentage greater than 5% a deduction of \$1 per tonne per percentage over and above 5% shall apply up to a maximum of 10% screenings. Barley delivered must conform to a varietal purity specification of 99% and a minimum germination of 95%.

Maximum allowances permitted are as under:

Screenings (2.37mm 6A screen)	5%
Skinned and broken	5%
Growth splits	3%
Foreign matter (chaff, straw etc)	0.5%
Foreign seeds (wild oats, wheat etc)	10 seeds per 500gm of barley
Protein (nitrogen 2.00%)	12.5%
Moisture	14.0%

Feed Barley

The contract price for feed barley in 2009/10 was \$260, down from the 2008/09 price of \$400 per tonne. The 2007/2008 was \$300 compared with \$235 per tonne in 2005 and \$230 per tonne in 2004. The 2003 contract price was \$260 per tonne, while it was \$220 per tonne in 2001/2002.

Source: PGG Wrightson.

Seed

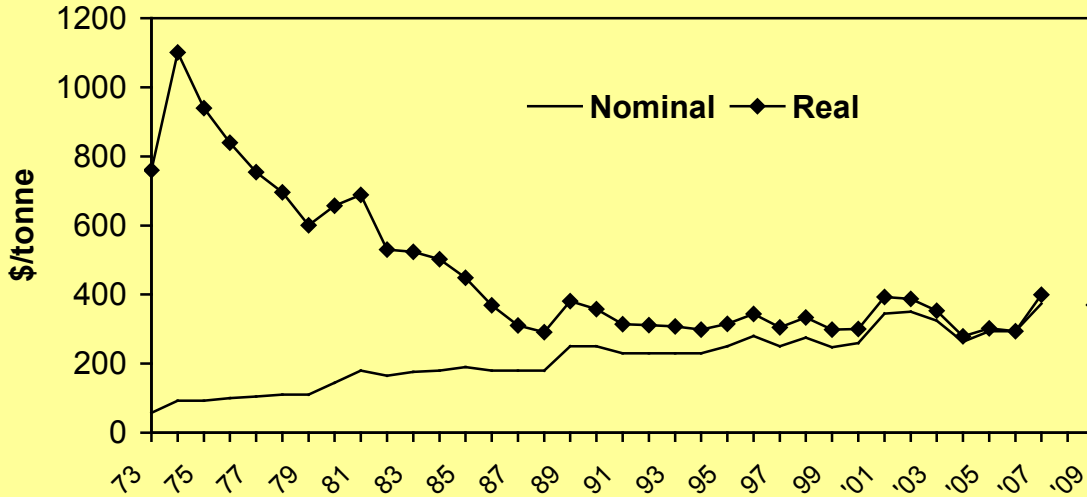
Malteurop New Zealand Ltd South Island seed contract price for 2010 is the same as the malting contract, plus a premium paid on the machine dressed weight as follows:

Breeders to basic	\$60 per tonne premium (MD)
Basic to first generation	\$55 per tonne premium (MD)
1 st to 2 nd generation	\$45 per tonne premium (MD)

(ii) Barley Price Trends 1973 to 2009

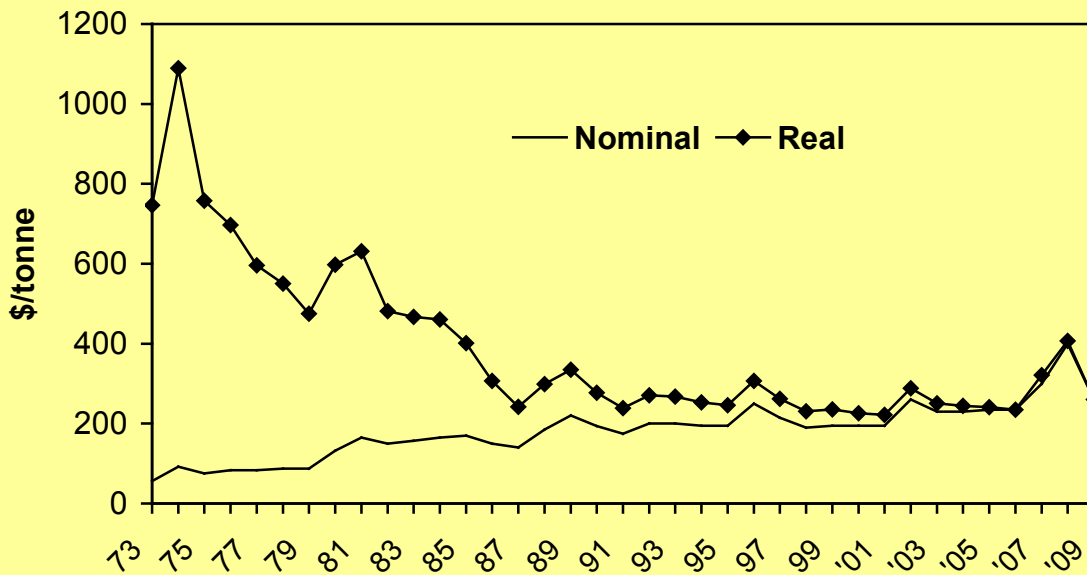
In the following two graphs the "Nominal" prices are the contract prices paid to South Island growers at harvest each year. The "Real" prices are based on the value of the \$NZ in December 2009, and are adjusted for inflation using C.P.I. figures for each calendar year, as published by the *Reserve Bank of New Zealand*.

N.Z. Malting Barley Prices 1973 to 2009 (Harvest Years):



Source: Lincoln University

N.Z. Feed Barley Prices 1973 to 2009 (Harvest Years):



Source: Lincoln University.

1.10.3 Oats / Oaten Hay

The South Island contract price for 2010 was \$410 and 2009 was \$500 per tonne delivered to Dunedin. In 2008 it was \$340, compared with \$293 per tonne in 2005, 2006 and 2007. In 2003 the on-farm price was \$300 or \$320 delivered to Dunedin.

The actual price payable is determined by reference to the Quality Index, deductions being made for high screening and low kernel weight.

Mid Canterbury Contracts.

Cates Grain and Seed offered prices of \$430 per tonne for field dressed oats in 2009/10 and \$500 in 2008/09. They were \$320 per tonne in 2007/08, \$290 per tonne in 2006/07 and \$285 to \$290 per tonne for the 2005/06 season for field dressed oats. Prices were \$300.00 per tonne for the 2004 harvest.

PGG Wrightson offered oat contracts of \$425 per tonne for the 2009/10 season compared to \$500 per tonne in 2008/09. Prices were \$330 per tonne for the 2007/2008 season, delivered to the buyer's nominated consolidation points at Ashburton, Christchurch or Timaru. The price for 2005 and 2004 was \$290 per tonne, compared with the 2003 season's price of \$315 per tonne.

Source: PGG Wrightson.

Prices for oat hay in the South Island as at January 2010 were \$5 for a conventional bale and \$50 for the medium squares (10-bale equivalent), down from the previous season. Prices will depend on the quality and colour. Oaten hay made currently would be a very small percentage of cereal hay made. There is a limited market for oaten hay, being very susceptible to vermin damage unless used within 3 to 4 months of baling.

1.10.4 Peas

(i) Field Peas

Prices offered for peas in bulk, grown under contract, delivered:

Maple Peas	\$700 per tonne in 2009/10
	\$850 per tonne in 2008/09
	\$500 per tonne 2007/2008
	None contracted 2006/2007 or 2005/2006
	\$370 per tonne 2004/2005
	\$370 per tonne 2003/2004
Prussian Peas	\$600 per tonne in 2009/10
	\$700 per tonne in 2008/09
	\$450 per tonne 2007/2008
	\$400 per tonne 2006/2007
	\$350 per tonne 2005/2006
	\$400 per tonne 2004/2005
	\$380 per tonne 2003/2004
Marrowfat Peas	Avg price as large price range on quality \$1,000 per tonne in 2009/10
	\$1,100 per tonne in 2008/09
	\$600 minimum per tonne (0-5% bleach) 2007/2008
	\$600 per tonne (6-12% bleach) 2007/2008
	\$600 per tonne (0-5% bleach) 2006/07
	\$600 per tonne (6-12% bleach) 2006/07
	\$650 per tonne (0-5% bleach) 2005/2006
	\$570 per tonne (6-12% bleach) 2005/2006
	\$510 per tonne (13-18% bleach) 2005/2006
	\$450 per tonne (19-25% bleach) 2005/2006
	\$400 per tonne (26-30% bleach) 2005/2006
	\$300 per tonne (>30% bleach) 2005/2006
	\$520 per tonne (0-5% bleach) 2004/2005
	\$520 per tonne (6-12% bleach) 2004/2005
	\$450 per tonne (13-30% bleach) 2004/2005
	\$280 per tonne (31+% bleach) 2004/2005
	\$680 per tonne (0-5% bleach) 2003/2004
	\$600 per tonne (6-12% bleach) 2003/2004
	\$520 per tonne (13-30% bleach) 2003/2004
	\$330 per tonne (>30% bleach) 2003/2004
White Peas	\$500 per tonne in 2009/10
	\$700 per tonne in 2008/09
	\$400 per tonne 2007/2008
	\$350 per tonne 2006/2007
	\$280 per tonne 2005/2006
	\$350 per tonne 2004/2005
	\$340 per tonne 2003/2004

Pea payments are on a split payment basis (60% March / 40% July) or payment in full 20th April 2010.

Source: *Cates Grain and Seed*.

Field Pea Price Trends

	2007 Harvest	2008 Harvest	2009 Harvest	2010 Harvest
Prussian Peas	\$350	\$420	\$700	\$600
Rondo	\$350	\$420		
Maple	\$350	\$420	\$850	\$700
White	\$320	\$400	\$700	\$500
Marrowfat	\$650	\$750	\$1,100	\$1,000
Feed	\$ 300	\$375	\$500	\$400

(ii) Garden Peas - Canterbury

	\$ per tonne machine dressed		
	2007	2008	2009
Freezer varieties	\$625 to \$675	\$1000	\$1025
Onwards	\$625	\$1000	\$1025
Masseys	\$625 to \$650	\$1000	\$1025
Alderman	\$700	\$1100	\$1125

(iii) Feed Peas

PGG Wrightson offered \$400 per tonne for the 2009/10 season, compared to \$500 per tonne in 2008/09. Prices were \$320 per tonne for feed peas under contract for the 2007/2008 season compared with \$250 per tonne in the 2005/2006 season.

Source: PGG Wrightson

1.10.5 Maize/Maize Silage

(i) Maize

Grower Price per tonne at 14% moisture (net of FAR levy) \$/tonne

	Waikato/ King Country	Bay of Plenty	East Coast/ Gisborne	Manawatu/ Wairarapa
2009/10 forecast	\$320 across North Island			
2008/09	From over \$400/t to no market - unsaleable			
2007/08 contract	\$325	-	-	-
2006/07 actual	\$245 to \$270 across all regions (contract price)			
2005/06 actual in paddock price	-	-	\$210 to \$230	-
Dryer price	\$275 to \$280	\$275 to \$280	\$235 to \$275	\$275
2004/05 actual in paddock price	-	-	-	-
Dryer price	\$275 to \$280	\$275 to \$280	-	\$275

(ii) Maize Silage

Sale price ranges (per kilogram DM) in paddock

	North Island	South Island
2009/10 forecast	16 to 22 cents / kg DM	
2008/09	10 to 30 cents / kg DM	
2007/08	+40 to <20cents / kg DM	
2006/07	14 to 15 cents / kg DM	18 to 20 cents / kg DM
2005/06	14 to 16 cents / kg DM	14 to 19cents / kg DM
2004/05	16 to 19 cents / kg DM	15 to 17 cents / kg DM

Note: These prices are indicators only. Prices vary between regions. 07/08 and 08/09 prices have been extremely volatile for both grain and silage growers.

1.10.6 Ryecorn

South Island: Prices for 2009/10 were \$510 per tonne delivered, down from \$650 per tonne delivered in 2008/09. In 2007/08 prices were \$365 per tonne, and \$345 per tonne in 2006/07. In 2005/2006 the price was \$300 per tonne, compared with \$400 per tonne in 2004/05. The 2003/2004 contract price was \$350 per tonne, unchanged from 2002/2003.

Source: Cates Grain and Seed

Goodman Fielder NZ Ltd was offering \$520 per tonne for Amilo ryecorn in 2010.

A storage increment of 9 cents per tonne per day will be paid from 1 May 2010.

1.10.7 Lentils

Cates Grain and Seed paid \$1300 per tonne delivered, for both the 2009/10 and 2008/09 seasons. It was \$700 per tonne for the 2007/08, 2006/07 and 2005/06 seasons, compared with \$430 per tonne for the 2004/05 season and \$550 per tonne for the 2003/04 season. In 2002/03 the minimum price was \$500 to \$550 per tonne for red lentils and \$600 to \$650 per tonne for yellow lentils.

1.10.8 Triticale

For the 2009/10 season the price was \$330 per tonne delivered, down from \$450 in 2008/09. In the 2007/08 season the price was \$280 per tonne, and in 2006/07 the price was \$260 per tonne. For the 2005/2006 season prices were \$230 per tonne, \$250 per tonne in 2004/05 and \$280 per tonne in 2003/2004 and 2002/2003.

Source: Cates Grain and Seed

1.10.9 Lupins

The price for blue lupins in the 2008/09 season was \$850 to \$900 per tonne (field dressed). Demand continues to outstrip supply. Growers are still pulling out of growing blue lupins. Some end users are now looking at alternatives e.g. Mustard varieties. The 2007/2008 season was \$800 to \$850 per tonne (field dressed) compared to \$650 to \$700 per tonne for the 2006/2007 season (machine dressed). Prices were \$650 to \$670 per tonne in 2005/2006 (machine dressed).

White lupins in the 2008/09 season sold for \$700 per tonne (field dressed). The 2007/08 season saw prices of \$650 to \$750 per tonne (machine dressed) same as the 2006/2007 and 2005/2006 seasons prices of \$650 to \$750 per tonne (machine dressed). Specialist growers

continue to grow white lupins where there is a higher risk for return. When demand and price is acceptable the majority of the South Island crop is exported. The area grown is static with previous years.

Stevens Seeds Ltd paid \$700 per tonne for field dressed Hamburg (PVR) white lupins for both the 2009/10 and 2008/09 seasons. It was \$500 per tonne (field dressed) in the 2007/2008 season and \$400/tonne (field dressed) in the 2006/07 season.

1.10.10 Linseed

Growers in 2009/10 received \$800 per tonne delivered, down from \$1,100 in 2008/09. In the 2007/08 season prices were \$700 per tonne, up from \$620 in the 2006/07 season. Prices received in the 2005/06 season were \$580 per tonne, and \$550 in the 2004/05 season. The 2003/2004 and 2002/2003 seasons prices were \$580 per tonne.

Source: Cates Grain and Seed

1.10.11 Evening Primrose

Prices paid to growers for 2009 were \$4.00 per kg. No contracts were offered in 2008. The price paid to growers for the 2007 harvest was \$3.00 per kg. None was grown in 2006 or 2005. The 2004 harvest was \$3.00 per kg.

1.10.12 Borage

No contract borage has been grown for the last two seasons. Borage prices for the 2007/08 season were \$7.40 per kg compared with \$7.20 per kg in 2006/07. In 2002/03 it was \$6.10 per kg compared with \$6 in the 2000/01 and 2001/02 seasons. For the intervening years no information has been available.

1.10.13 Oilseed Rape / Canola

No contracts were given for the 2009/10 season however hybrid canola grown for seed in 2008/09 had prices as high as \$3,150 per tonne (dressed), compared to \$2,150 per tonne (dressed) in the 2007/08 season. Prices for the 2007/08 season for oilseed rape were \$400 - \$500 per tonne, whereas oilseed rape crushed for bio-diesel production had prices of approximately \$550 per tonne.

Biodiesel NZ were paying \$700 per tonne for the 2009/10 season of winter oilseed rape, (field dressed) and paid half of transport to plant.

1.11 Small Seeds

The price paid for small seeds, is based on machine dressed weight, which depends on the purity of the seed line. Prices are variable and depend on the region and season. The following prices for 2011 are for first generation certified seed, minimum 99% purity / 90% germination. Prices given are base payments, which are supplemented in some cases by later payments.

1.11.1 Pasture Grasses

	\$ per kg
Ryegrasses	
Italian – All proprietary cultivars	1.75
Hybrid – All proprietary cultivars	1.80
Perennial – All proprietary cultivars	2.05
Perennial –Tetraploids	2.05
Grasslands Nui	1.15
Grasslands Ruanui	1.25
Grasslands Manawa	1.50
Grasslands Moata	1.50
Grasslands Tama	1.50
Italian	1.30
Timothy	
Grasslands Kahu	4.75
Cocksfoot	3.50
Fescues	
Fescue Forage	4.50
Brome	2.00
Crested Dogstail	4.50
Plantain	3.25

1.11.2 Turf / Amenity Species

	\$ per kg
Browntop proprietaries	9.50
Yarrow	12.00
Turf Fescues	2.20
Tall Fescue	3.00
Chewings Fescue	3.50
White Mustard	2.00
Yorkshire Fog	7.50

1.11.3 Legumes

	\$ per kg
(i) White Clover	
Grasslands Huia	4.00
Proprietary White Clover (depending on leaf size)	5.00 to 5.50
Uncertified	3.00

(ii) Red Clover	
Grasslands Pawera	7.50
Uncertified	5.00
(iii) Lucerne	8.00 to 8.50
(iv) Lotus	10.00
<hr/>	
1.11.4 Chicory	
Proprietary cultivars	8.00 per kg
<hr/>	
1.11.5 Brassicas	
	\$ per kg
Kale	3.40
Swedes	2.40
Turnips	2.20
Forage Rape	2.00
<hr/>	

Source: New Zealand Grain and Seed Trade Association Inc.

1.12 FRUIT PRODUCTION

1.12.1 Fruit Prices - General

The prices paid to growers for fruit vary markedly (sometimes by several hundred percent) both within and between seasons and between districts. They are seasonal, vary daily and are very much dependent on climate and its subsequent effects on both availability and quality of fruit offered.

The location of the property in relation to population centres and the amount of produce that an individual producer provides over the course of a season also influences prices received. Whether the produce is for local consumption or for export is another major influence for a range of fruit. Labour shortages also impact the ability of the grower to pick the fruit. Wholesale prices paid at auction and details of contracts for process fruit, particularly that which is grown organically, is generally confidential and in many cases is negotiated with growers on an individual basis. Again, prices vary markedly with district and season.

1.12.2 Apples

(i) Export

Hawke's Bay Apple Export Returns - \$ per tray carton equivalent (TCE – 18.5kg)			
	2007	2008	2009 budget
Braeburn	\$15.15	\$25.25	\$20.50
Fuji	\$26.81	\$26.90	\$28.00
Granny Smith	\$17.52	\$21.40	\$22.00
Jazz	\$30.26	\$30.30	\$31.00
Pacific Beauty	\$21.30	\$24.35	\$28.60
Pacific Queen	\$22.89	\$27.00	\$40.00
Pacific Rose	\$21.24	\$24.10	\$28.00
Pink Lady	\$26.31	\$29.50	\$29.00
Royal Gala	\$19.71	\$22.25	\$21.90

Source: MAF Horticulture and Arable Monitoring Report 2009

Nelson Apple Export Returns (\$ per TCE)			
	2007	2008	2009 budget
Braeburn	\$16.90	\$24.00	\$21.00
Royal Gala	\$18.65	\$22.60	\$20.95
Cox Orange	\$23.33	\$21.60	\$24.50
Jazz	\$27.44	\$30.30	\$30.90
Other apples	\$23.60	\$27.30	\$27.30

Source: MAF Horticulture and Arable Monitoring Report 2009

(ii) Local Market Price

	Hawkes Bay non-export \$/TCE		Nelson non-export \$/TCE	
	2008 actual	2009 budget	2008 actual	2009 budget
Braeburn	\$1.85	\$1.25	\$2.00	\$1.30
Cox Orange			\$1.00	\$0.95
Fuji	\$1.65	\$1.05		
Granny Smith	\$3.00	\$1.35		
Jazz	\$0.90	\$0.30	\$0.90	\$0.70
Pacific Beauty	\$2.30	\$1.00		

Pacific Queen	\$7.50	\$0.25		
Pacific Rose	\$8.60	\$8.65		
Pink Lady	\$1.00	\$2.30		
Royal Gala	\$1.80	\$1.05	\$1.10	\$0.70

Source: MAF Horticulture and Arable Monitoring Report 2009

1.12.3 Avocados

(i) Local Market

The New Zealand domestic market prices at first point of sale, including processing, in 2008/09 were \$2.50/kg, in 2007/08 they were \$1.33/kg and in 2006/07 they were \$2.82/kg.

Source: New Zealand Avocado Growers Association and Avocado Industry Council Ltd Annual Report 2009.

(ii) Export Market

The FOB value for export prices in 2008/09 were \$4.15/kg, in 2007/08 prices were \$3.33/kg and in 2006/07 prices were \$5.16/kg.

Source: New Zealand Avocado Growers Association and Avocado Industry Council Ltd Annual Report 2009.

1.12.4 Berryfruit

(i) Strawberries

Returns to growers for both local and export markets for 2008/09 were approximately \$4.07 per kg, \$4.18 per kg in 2007/08 and \$4.25 per kg in 2006/07.

Export prices FOB were \$7.91 per kg for 2008/09, \$6.79 per kg in 2007/08 and \$5.98 per kg for the 2006/07 season. In 2003/04, returns were approximately \$6 per kg compared with \$5.00 per kg for the 2002/2003 and 2001/2002 seasons.

Source: MAF Horticulture and Arable Monitoring Report 2009

(ii) Blueberries

Returns to growers for local market and exported fresh blueberries in the 2008/09 season were approximately \$9.67 per kg, \$9.30 per kg in 2007/08, and in 2006/07 were \$10.34 per kg. In 2003/04 they averaged \$13 per kg, down from \$14.80 per kg for the 2002/2003 season. In 2001/2002 the price was \$14 per kg.

Export values FOB for 2008/09 were \$19.04 per kg, \$16.62 per kg in 2007/08 and \$17.65 per kg in 2006/07.

Frozen blueberries returns to growers for local and export markets for the 2008/09 season were approximately \$4 per kg, \$7 per kg in 2007/08 and 2006/07, \$5.30 in 2005/06 and \$4.80 in the 2003/04 season. This was similar to the \$4.50 per kg paid in 2001/2002, unchanged from the previous season.

Export prices were lower due to high stocks of frozen blueberries. In 2008/09 prices were FOB \$8 per kg, \$7.86 in 2007/08 and \$6.70 in 2006/07.

Source: MAF Horticulture and Arable Monitoring Report 2009

(iii) Blackcurrants

Growers received returns in the region of \$1.24 per kg for local and export markets in the 2008/09 and 2007/08 and 2006/07 seasons, up from \$1 per kg in the 2005/06 and 2004/05 seasons. No prices were available for the 2003/04 season. Prices for the 2001/2002 season

were \$1.75 per kg, unchanged from the previous season.

Export prices FOB for 2008/09 were \$8.22 per kg, \$6.89 in 2007/08 and \$7.75 in 2006/07.

Source: MAF Horticulture and Arable Monitoring Report 2009

(iv) Boysenberries

Returns to growers for local and export markets for 2008/09 were approximately \$1.77 per kg, \$2.16 per kg in 2007/08 and \$2.01 per kg in 2006/07 and 2005/06.

Export prices FOB were \$4.04 per kg for 2008/09, \$5.14 per kg in 2007/08 and \$4.41 per kg for the 2006/07 season.

Source: MAF Horticulture and Arable Monitoring Report 2009

1.12.5 Citrus

(i) Grapefruit

No information was available in 2008 or 2009

Orchard gate returns for 2005/06 were 40 cents per kg, unchanged from 2004/05. This has changed very little compared with 45 cents per kg in 2003/04.

(ii) Lemons

Returns to growers for local and export markets for 2008/09 and 2007/08 were approximately \$1.05 per kg, and \$1.08 per kg in 2006/07.

Export prices FOB were \$1.88 per kg for 2008/09, \$2.27 per kg in 2007/08 and \$2.05 per kg for the 2006/07 season.

Source: MAF Horticulture and Arable Monitoring Report 2009

(iii) Mandarins

Returns to growers for local and export markets for 2008/09 and 2007/08 were approximately \$1.15 per kg, and \$1.12 per kg in 2006/07.

Export prices FOB were \$3.85 per kg for 2008/09, \$3.21 per kg in 2007/08 and \$3.00 per kg for the 2006/07 season.

Source: MAF Horticulture and Arable Monitoring Report 2009

(iv) Oranges

No information was available in 2008 or 2009

Orchard gate returns for the 2005/06 season were 35 cents per kg, down from the 45 cents per kg in the 2004/05 and 2003/04 seasons. 2002/2003 prices averaged 50 cents per kg.

(v) Tangelos

No information was available in 2008 or 2009. The orchard gate returns for 2005/06 were 40cents per kg, up slightly from the 2004/05 price of 38c per kg, but down from 45c per kg in 2003/04.

Source: MAF Horticulture and Arable Monitoring Report 2009

1.12.6 Feijoa 2008/09

Source: Tim Harper – President, NZFGA.

(i) Local Market.

Fresh fruit sales total about 500 tonnes annually. Demand for large sized premium grade

fruit is increasing faster than supply. This is largely due to marketing and promotional initiatives of the *Feijoa Growers Association*. In recent years wholesale prices (exclusive of GST) for premium grade fruit have been:

Large (90+g)	\$6 per kg in March and early April, falling to \$1.5 per kg in the peak of the season, in early May.
Medium (65 to 90g)	\$5 per kg in March and early April, falling to \$1 per kg in the peak of the season, in early May.
Small	Prices can be good early in the season with \$3, but fall away quickly to around \$.50 to .90 per kg.

Prices for mediocre and poor fruit are normally much less.

(ii) Export

Fresh fruit sales total about 40 tonnes annually. Most goes to North America where the main demand is for medium sized fruit. Prices paid to growers varied from \$40 per tray early in the season to \$18 to \$25 per 3kg tray mid season in 2009. This is similar to previous years. Tray weights range from around 2.4 kg for small fruit (39 count) to a little over 3 kg for large fruit.

(iii) Processing

Processed volumes are steadily increasing and last year totalled about 450 tonnes. Most of the fruit goes into blended juices and wines. Prices received by growers (at the gate prices) vary from around \$1.20 to \$1.00 per kg depending on the size and quality of the fruit. There is a rapidly increasing demand for organic product, which cannot be met from current supply.

1.12.7 Grapes

Bulk Grapes for Wine Production

2009 Average Grape Prices \$ per tonne (Category 111 – large winery)

Variety	Auckland	Waikato/ BOP	Gisborne	Hawkes Bay	Wellington/ Wairarapa	Marlborough	Nelson	Waipara	Canterbury	Central Otago	NZ Average
Albanys Surprise						1,950					1,950
Chardonnay – Mendoza&Clone 15			1,041	1,454		1,725					1,226
Chardonnay		960		880							928
Clones 4 &5											
Chardonnay- All other clones		969		1,477		1,658	1,500	1,450			1,206
Chenin Blanc		600		1,676							796
Gewurztraminer		1,359		1,500		1,560		1,500			1,397
Muller Thurgau		531		500							530
Muscat Varieties		606		580							605
Pinot-Gris		1,410		1,602		1,850	1,500	1,643			1,511
Reichensteiner		609									609
Riesling				1,350	1,800	1,802		1,812			1,782
Sauvignon Blanc		1,139		1,368		1,670	1,500	1,663	1,700		1,647
Semillon		810		1,214		1,607					962
Viognier		1,688		1,931		2,392					1,819
Other White Wines				2,000							2,000
Cabernet Franc				1,796							1,796
Cabernet Sauvignon				2,050		1,650					2,002
Malbec		1,100		1,634							1,615
Merlot		1,338		1,662		1,650					1,604
Montepulciano						1,803					1,803
Pinotage		1,100									1,100
Pinot Noir sparkling		901		920		1,403					956
Pinot Noir- table				2,682	2,800	2,940	1,954	2,970		3,197	2,953
Syrah		2,502		2,075							2,099

Source: New Zealand Winegrowers

2008 Average Grape Price \$ per tonne

Variety	Auckland /Nthland	Waikato/ BOP	Gisborne	Hawkes Bay	Wellington/ Wairarapa	Marlborough	Nelson	Waipara	Canterbury	Central Otago	NZ Average
Breidecker						1,000.00					1000.00
Cabernet Franc	2,049.91			2,028.56	2,974.29	2,800.00	2,500.68				2,067.50
Cabernet Sauvignon	2,002.74			1,869.95	2,538.11	2,123.63	1,527.70				1,929.71
Chambourcin	1,955.74										1,955.74
Chardonnay – Mendoza&Clone 15	1,972.50		1,158.93	1,672.81	2,844.22	2,222.18	1,530.18	3,000.00		2,614.94	1,532.59
Chardonnay	1,650.00		1,342.90	1,423.27		2,099.15	1,800.00			2,300.00	1,470.81
Clones 4 &5											
Chardonnay- All other clones	2,155.91		1,071.73	1,672.65	2,795.40	2,102.14	1,571.54	2,355.31	1,853.30	2,209.51	1,586.89
Chenin Blanc			600.00	1,885.82							964.12
Flora	1,995.68					2,642.10	2,012.31			1,898.97	1,940.46
Gewurztraminer			1,874.82	1,715.42		2,000.00				2,649.18	2,196.06
Kolor						2,202.14					2,000.00
Malbec	1,959.70		1,400.00	1,719.36		2,363.40	1,800.00				1,719.05
Merlot	2,000.86		1,371.01	1,816.77	2,778.95	1,802.00	2,320.24	2,000.00			1,769.47
Montepulciano											1,802.00
Muller Thurgau			589.99	576.88							589.53
Muscat Varieties			574.12	604.37							577.28
Pinot Blanc				1,931.22		2,879.85	1,800.00				2,187.90
Pinot-Gris	2,087.30		1,810.31	1,961.31	2,793.13	2,267.94	2,182.38	2,524.60	2,020.00	2,910.39	2,122.32
Pinot Meunier						2,000.00				3,798.00	2,813.18
Pinot Noir sparkling						1,620.98				1,934.43	1,085.07
Pinot Noir- table	1,744.37		897.94	910.18	3,395.38	2,978.83	2,356.32	3,004.55	2,353.94	3,463.10	3,056.51
Pinotage	2,053.56		1,256.14	2,220.00	3,224.04			3,006.82			1,280.99
Reichensteiner			640.53								640.53
Riesling				1,427.60	2,042.06	1,913.64	1,535.30	1,754.51	1,315.99	2,716.49	1,852.19
Sauvignon Blanc	1,700.00	1,417.09	1,282.64	1,709.03	2,465.03	2,363.38	2,045.19	2,341.78	2,200.11	2,447.72	2,322.30
Semillon			1,028.19	1,639.11		2,193.58					1,450.86
Syrah	2,720.56		1,295.00	2,199.30	3,720.06	2,666.14	1,866.25	2,810.64			2,213.56
Vioigner	2,627.07		2,220.27	2,324.38	2,500.00	2,963.07	2,200.00				2,343.52
Other White Wines			3,000.00								3,000.00
Other Reds				2,200.00							2,200.00

Source: New Zealand Winegrowers Statistical Annual 2008

1.12.8 Kiwifruit

(i) Export Returns (per tray)

	02/03	03/04	04/05	05/06	06/07	07/08	08/09
Gross Returns	\$8.37	\$8.99	\$7.59	\$6.82	\$8.07	\$6.93	\$7.76
Orchard gate returns	\$5.84	\$6.61	\$4.60	\$3.90	\$4.39	\$3.46	\$4.13

Source: ZESPRI International Ltd.

(ii) Progress Payments for 2008/2009 compared with the previous season

Pattern of progress payments is for the average grower of Class 1 ZESPRI™ GREEN Kiwifruit.

		\$/tray 2007/08	\$/tray 2008/09
Orchard gate returns per tray (green only)		3.11	3.68
Paid to Date:	Submit Price (including materials and packing)	2.25	2.25
	Paid to FOB shipping		
Month	July	0.15	0.40
	August	0.15	0.20
	September	0.15	0.16
	October	0.15	0.18
	November	0.05	0.15
	December / January	0.16	0.35
	February	0.11	0.20
	March	0.48	0.19
	April	0.03	0.06
	May	0.12	0.13
	STP payment	0.08	0.06
	Kiwistart	0.24	0.29
	Taste ZESPRI™	0.98	1.08
	Low Pest	0.09	0.09
	OK Korean	0.02	0.02
	Pack	0.19	0.21
	Time	0.92	0.96
Loyalty premium	0.10	0.17	
Total available for distribution to growers		6.40	7.14

Note: Amounts are for ZESPRI™ GREEN Kiwifruit (Class 1) only.

Source: ZESPRI International Ltd.

(iii) Organic Kiwifruit prices

Class 1 Green Organic

	\$/tray 2007/08	\$/tray 2008/09
Orchard gate returns per tray	5.32	6.27

	Submit Price (including materials and packing)	2.25	2.25
Progress Payments			
Month	July	0.15	0.39
	August	0.15	0.20
	September	0.15	0.88
	October	0.15	0.52
	November	0.45	0.15
	December / January	0.65	0.45
	February	0.32	0.32
	March	0.59	0.33
	April	0.12	0.08
	May	0.09	0.20
	STP Payment	0.13	0.13
	Kiwistart	0.29	0.65
	Taste ZESPRI™	1.70	1.81
	Low Pest	0.14	0.18
	OK Korean	0.02	0.01
	Pack	0.10	0.12
	Time	0.70	0.61
	Loyalty premium	0.10	0.17
	Total available for distribution to growers	8.25	9.43

Source: Zespri International

(iv) Gold Kiwifruit prices

		\$/tray 2007/08	\$/tray 2008/09
	Orchard gate returns per tray	4.45	5.41
	Submit Price (including materials and packing)	2.80	2.80
Progress Payments			
Month	July	0.30	0.65
	August	0.29	0.30
	September	0.15	0.04
	October	0.15	0.03
	November	0.03	0.21
	December / January	0.20	0.14
	February	0.10	0.22
	March	0.26	0.21
	April	0.12	0.09
	May	0.10	0.23
	STP Payment	0.17	0.16
	Kiwistart	0.31	0.46
	Taste ZESPRI™	2.10	2.21
	Low Pest	0.09	0.10
	OK Korean	0.04	0.05

Pack	0.78	0.79
Time	0.81	1.01
Loyalty premium	0.10	0.17
Total available for distribution to growers	8.91	9.86

Source: Zespri International

(v) Kiwifruit Price Trends

Total Revenue (OGR \$ per tray)

	2007/08	2008/09	2009/10 budget
Green Kiwifruit	\$3.11	\$3.68	\$3.68
Gold Kiwifruit	\$4.45	\$5.41	\$6.41

Source: MAF Horticulture and Arable Monitoring Report 2009

1.12.9 Olives

Olives sold to processors for pressing in 2009 returned approximately \$9 per litre to the grower. The processors were selling bulk-unbottled oil at around \$20 to \$30 per litre, wholesale in 2009. Various marketers pay differing prices for oil from growers but the average price in 2007 was \$12 - \$15 per litre. . In 2003/04 New Zealand oil was selling wholesale at around \$40 per litre.

Source: Graham Keen, a Canterbury grower and processor.

1.12.10 Pears

Total Export Return for Pears (\$/TCE) - Nelson

2006	2007	2008	2009 budget
\$33.44	\$29.58	\$29.60	\$29.60

Source: MAF Horticulture and Arable Monitoring Report 2009

1.12.11 Stone Fruit

(i) Apricots

Returns to growers in 2008/09 were approximately \$2.88 per kg, \$2.67 per kg in 2007/08 and \$2.38 per kg in 2006/07.

Export prices FOB were \$5.63 per kg for 2008/09, \$5.26 per kg in 2007/08 and \$4.62 per kg for the 2006/07 season.

Source: MAF Horticulture and Arable Monitoring Report 2009

(ii) Cherries

Returns to growers in 2008/09 were approximately \$8.39 per kg, \$7.52 per kg in 2007/08 and \$7.18 per kg in 2006/07.

Export prices FOB were \$14.42 per kg for 2008/09, \$12.30 per kg in 2007/08 and \$12.14 per kg for the 2006/07 season.

Source: MAF Horticulture and Arable Monitoring Report 2009

1.13 VEGETABLE PRODUCTION

1.13.1 Vegetable Prices - General

As with fruit, the prices paid to growers for vegetables vary markedly (sometimes by several hundred percent) both within and between years and between districts. They vary daily and are very much dependent on climate and its subsequent effects on both availability and quality of vegetables offered.

Again, as with fruit, the location of the property in relation to population centres and the amount of produce that an individual producer provides over the course of a season, also influences prices received. Whether the produce is for local consumption or for export is another major influence for a small range of vegetables.

Wholesale prices paid at auction and details of contracts for process vegetables are often confidential, especially those for organically grown crops.

1.13.2 Asparagus

(i) Fresh

For the 2008/09 season growers received \$2.85 per kg for fresh asparagus. In the 2007/08 season it was \$2.15, and in the 2006/07 and 2005/06 seasons growers received \$2.30 per kg.

(ii) Process

For the 2008/09 season, processors offered \$2.75 per kg to secure supply. In the 2006/07 season growers received \$2.10 per kg, similar to prices in 2005 and 2003/04, which were approximately \$2 per kg.

(iii) Export

Export prices FOB were \$9.47 per kg for 2008/09, \$6.54 per kg in 2007/08 and \$6.51 per kg for the 2006/07 season.

Source: MAF Horticulture and Arable Monitoring Report 2009

1.13.3 Broccoli

Broccoli Price Trends

Average Price (\$ per vegetable crate)						
2009	2008	2007	2006	2005	2004	2003
\$14.40	\$11.90	\$16.00	\$16.00	\$16.50	\$16.80	\$13.00

Source: MAF Horticulture and Arable Monitoring Report 2009

1.13.4 Capsicum

The following table shows a range of prices for fresh greenhouse capsicums from one grower for 2008/2009 season. These are averages for green, red, yellow and orange capsicum. Prepacks and selling per capsicum will inflate values compared with a grower packing only fruit sold per kg.

2008	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
\$/kg	9.88	8.36	8.15	6.62	4.80	5.61	6.32	5.64	5.78	5.44	6.90

Capsicums exported to the end of June 2009, had a value FOB of \$7.17 per kg assisted by favourable movements in the exchange rate.

Source: Horticulture and Arable Monitoring Report 2009.

1.13.5 Carrots

Fresh

No prices were available for the 2008 or 2009 seasons. For the year ended 31 March 2007, 8675 tonnes were exported with an FOB value of \$6 million (\$691 per tonne). Prices in the 2004/05 season were \$360 per tonne, which was similar to the 2003/04 season. Lower North Island prices for washed and crowned carrots for 2002/2003 were \$140 per tonne.

Source: Horticulture and Arable Monitoring Report 2009.

1.13.6 Cauliflower

Cauliflower Price Trends

Average Price (\$ per vegetable crate)						
2009	2008	2007	2006	2005	2004	2003
\$9.40	\$8.50	\$10	\$7.00	\$10	\$8.50	\$7.70

Source: MAF Horticulture and Arable Monitoring Report 2009

1.13.7 Kabocha (Squash)

(i) Local

Returns to growers for local and export markets for 2008/09 were approximately \$500 per tonne, \$450 per tonne in 2007/08 and \$400 per tonne in 2006/07, 2005/06 and 2004/05.

(ii) Export

Squash Price Trends

Price (\$ per tonne FOB)				
2009	2008	2007	2006	2005
\$789	\$696	\$572	\$694	\$680

Source: MAF Horticulture and Arable Monitoring Report 2009.

1.13.8 Lettuce

Lettuce Price Trends

Average Price (\$ per crate)						
2009	2008	2007	2006	2005	2004	2003
\$8.25	\$8.75	\$9.00	\$8.50	\$8.00	\$9.00	\$9.40

Source: MAF Horticulture and Arable Monitoring Report 2009

1.13.9 Onions

(i) Fresh

Onion Price Trends

Average Price (\$ per tonne)					
Approx returns to growers	2008/09	2007/08	2006/07	2005/06	2004/05
Pukekohe	\$345	\$350	\$440	\$350	\$220
Canterbury	\$375	\$350	\$425	\$300	\$200

Source: MAF Horticulture and Arable Monitoring Report 2009

Prices for bulk onions for most size grades in Manawatu, were:			
	2009	2008	2007
January to March	\$450 tonne	\$400 tonne	\$575 tonne
April to October	\$550 tonne	\$500 tonne	\$500 tonne
November to December	\$700 tonne	\$600 tonne	\$700 tonne

Source: Morgan Laurensen Ltd.

(ii) Export

A Canterbury grower expects to receive \$9 per 20kg bag for 2010, having received \$8 per 20kg (55mm – 65mm) for the 2009 season compared with \$6 per 20kg bag in 2007/08.

Export Price (\$ per tonne FOB)				
2008/09	2007/08	2006/07	2005/06	2004/05
\$584	\$553	\$648	\$510	\$382

Source: Horticulture and Arable Monitoring Report 2009.

1.13.10 Peas

Process

Returns to growers for local and export markets for 2008/09 were approximately \$370 per tonne, \$265 per tonne in 2007/08 and 2006/07 and \$330 per tonne in 2005/06.

Export Price frozen peas (\$ per tonne FOB)				
2008/09	2007/08	2006/07	2005/06	2004/05
\$1,590	\$1,337	\$1,274	\$1,130	\$1,073

Source: Horticulture and Arable Monitoring Report 2009.

1.13.11 Potatoes

(i) Main Crop Potatoes

Price Trends for fresh potatoes from South Auckland / Waikato:

Average Price for Main Crop Potatoes (\$ per tonne)						
2008/09	2007/08	2006/07	2005/06	2004/05	2003/04	2002/03
\$360	\$570	\$330	\$330	\$285	\$300	\$300

Source: MAF Horticulture and Arable Monitoring Report 2009.

Manawatu

2009	\$200 to \$400 per tonne brushed potatoes
2008	\$400 to \$500 per tonne brushed potatoes
2007	\$350 to \$425 per tonne brushed potatoes
2006	\$350 to \$425 per tonne brushed potatoes
2005	\$150 to \$275 per tonne brushed potatoes
2005	\$300 to \$500 per tonne washed potatoes
2004	\$375 to \$425 per tonne brushed potatoes
2004	\$475 to \$550 per tonne washed potatoes
2003	\$225 to \$350 per tonne brushed potatoes

Source: Morgan Laurensen Ltd.

Canterbury

The 2008/2009 season saw returns of about \$12 per 20kg bag at the peak, down to \$8 per 20kg bag in winter. Local market prices for potatoes from one South Island company were \$12 per 20kg bag early in the 2007/08 season but the price dropped to \$5 per bag in the winter. They were \$500 per tonne early in the 2006 season, but in October 2005, were only \$150 per tonne.

Southland

Main crop potatoes in 2009 and 2008 ranged in price from \$400 to \$450 per tonne, same as prices in 2007 and 2006. In 2005 they were ranging from \$200 to \$250 per tonne.

(ii) Process

Average price for process potatoes were as follows (per tonne) NI = North Is, SI = South Is

2008/09	2007/08	2006/07	2005/06	2004/05
\$230	\$165	\$165	\$170	\$170 SI / \$220 NI

NB Prices from 2005/06 onwards are for Canterbury only.

Source: MAF Horticulture and Arable Monitoring Report 2009

(iii) Export

	Export Price for Potatoes (\$ per tonne FOB)				
	2008/09	2007/08	2006/07	2005/06	2004/05
Fresh potatoes	\$592	\$620	\$519	\$424	\$449
Processed potatoes	\$1,076	\$910	\$940	\$934	\$931

Source: MAF Horticulture and Arable Monitoring Report 2009

The 2010 returns are not yet set but growers may expect \$300 to a maximum of \$350 per tonne. A Canterbury grower received \$280 per tonne for the 2008/2009 season compared with \$350 per tonne in 2007/08.

1.13.12 Sweet Corn

Process

Returns to growers in 2008/09 were approximately \$225 per tonne, \$175 per tonne in 2007/08 and \$170 per tonne in 2006/07. The 2005/06 prices were \$150 per tonne, same as the 2004/05 season.

Export Price for frozen sweetcorn (\$ per tonne FOB)				
2008/09	2007/08	2006/07	2005/06	2004/05
\$1,833	\$1,578	\$1,600	\$1,608	\$1,494

Source: MAF Horticulture and Arable Monitoring Report 2009

1.13.13 Tomatoes

Fresh

For the year ending 30 June 2009, export earnings for fresh tomatoes were on average \$2.95 per kg FOB. In May 2007 prices on the local market were high at \$4 to \$6 per kg.

Typically they ranged between \$3 to \$3.50 per kg. Export prices for the year ended 31 March 2007, were \$2.65 per kg, with 2939 tonnes exported for a value of \$7.8 million.

Source: MAF Horticulture and Arable Monitoring Report 2009.

1.14 CUT FLOWERS

1.14.1 Local Market

(i) 2009 Auction Prices – Auckland

(Prices are \$ per stem, 5 or 10 as stated)

	Jan	Feb	Mar	Apr	May/June	July
Achillea (per 5)	1.26	1.26	-	-	-	-
Agapanthus var (per 5)	1.01-2.00	1.24-1.83	-	2.10	2.51	1.98
Agonis (per 5)	-	-	-	-	1.10	1.12
Aloe (per stem)	0.90	0.83	0.85	0.83	0.98	-
Alstromeria (per 5)	2.26	2.23	1.94	2.60	4.14	3.36
Amaranthus (per 5)	-	-	-	2.28	1.52	-
Amaryllus (per stem)	-	-	-	-	-	-
(per plant)	-	-	-	-	-	-
Ammi Majus (per10)	2.02	-	-	-	-	-
(per 5)	-	-	-	-	-	-
Anemone (per 10)	-	-	-	-	-	4.16
Anthurium (per stem)	1.72-1.81	1.76-1.94	1.53-1.76	1.46-1.51	1.87-1.94	1.94-2.17
(per3)	3.96	3.36	2.97	3.20	4.43	4.16
Anthur Leaves (per 5)	4.18	3.12	4.70	3.56	3.59	3.10
Antirrhinum (per 5)	-	2.35	3.01	2.80-3.30	3.57-3.77	3.44
Aralia leaves (per 5)	2.95	2.57	2.52	2.01	1.99	2.06
Artichoke (per stem)	1.36	-	-	-	-	-
Arum Lillies (per 5)	-	-	-	-	-	1.30
Asparagus fern(per 5)	4.20	3.21	3.47	2.20	2.95	2.91
Aspidistra (per 5)	3.89	3.77	3.73	3.87	3.47	2.68
AstarteaFoliage(per5)	-	1.36	1.36	1.36	1.36	-
Aster (per 5)	-	1.93	2.06	1.60	2.11	2.46
Astilbe var (per 5)	-	-	-	-	-	-
Banksia (per stem)	-	-	-	-	-	-
Bear Grass (per 25)	2.83	2.65	2.50	2.41	2.64	2.54
Bromeliad (per stem)	1.11	0.83	0.81	0.95	1.24	1.34
Brunia (per stem)	2.86	2.19	-	-	-	-
Camellia (per 5)	1.48	1.84	1.35	1.94	1.52	1.31
Celosia var (per 5)	4.12-5.00	2.24-3.82	3.63-3.74	3.90-4.15	3.86-5.44	-
Chrysanth. var (per 5)	3.92	3.79	3.11-3.31	2.94-3.32	4.09-6.09	6.14-8.50
Chrys Green (per 5)	4.17	4.08	4.03	4.63	5.34	6.05
Copper Beech (per 5)	1.93	-	-	-	-	-
Cornus (per 5)	-	-	-	-	2.30	1.70
Curcuma (per stem)	-	1.42	1.29	1.21	1.21	-
Cymbidium var (per stem)	3.90	1.89-3.77	4.80-4.90	3.75-5.64	3.20-6.85	2.89-3.57
Cytisus (per 5)	1.30	0.95	1.41	1.30	1.30	1.13
Daffodils (per 10)	-	-	-	-	2.12-3.68	0.86-1.82
Delphinium var (per3)	2.78	1.56	2.44	1.91	2.63	3.36
Del.Belladonna (per5)	3.34	1.73	2.43	3.02	4.11	2.69
Dianthus var (per 10)	3.63-3.69	4.04-4.46	4.27-4.65	4.94-5.83	8.62-9.20	8.19-8.30
(per 5)	-	-	-	-	-	2.15
Eucalyptus (per 5)	1.78	1.03	1.96	2.06	1.98	2.14
Eustoma (Lisianthus)(per 5)	5.36	3.25	4.61-5.38	4.63-5.52	6.34-7.12	-
Freesia (per 10)	-	-	-	-	-	6.86
Gerbera (per 5)	1.48-3.35	1.61-3.09	1.86-3.58	2.68-4.78	4.12-6.30	3.29-5.72
Gladioli (per 5)	2.78-3.57	3.37-4.61	2.58-4.40	4.14-4.40	5.22	-
Green Goddess (per 5)	-	-	-	-	-	1.57
Gypsophila var (per 200g)	4.97	6.54	10.40	10.20	14.49-	8.27-9.22
(per 5)	4.72	4.08	4.30	7.20	13.43	-

Hebe Foliage (per 5)	1.90	2.08	2.33	1.75	1.39	-
Helianthus (per 5)	4.17	3.43	3.74	4.75	5.69	2.94
Helianthus (per stem)	1.86-2.12	1.13-1.26	1.84-2.12	1.33-2.12	1.63	1.98
Heliconia var (per stem)	-	-	2.01-4.07	2.21-3.58	1.63-4.82	2.25-6.30
Hosta Leaf (per 5)	2.73-3.19	-	-	-	-	-
Hyacinth Plant	-	-	-	-	3.28	-
Hydrangea (per stem)	1.97	1.87	1.86	1.82	1.60	1.40
Foliage (per 5)	2.13	2.29	1.97	2.32	2.50	
Idesia Berries (per 5)	3.23	3.23	-	3.04	2.49	3.38
Iris (per 5)	1.11-2.47	2.47	-	2.86	3.86-5.54	4.05-4.83
Ivy (per 5)	2.47	1.95	2.21	1.81	1.60	1.22
Lavender (per 25)	1.80	1.80	1.80	1.80	-	-
Leather Fern (per 10)	1.11	1.16	1.09	1.08	1.07	1.06
Leaves General (per 5)	1.70	1.70	0.90	0.42	-	1.96
Leuco var (per 5)	2.30-2.73	1.61-2.30	1.53-1.67	1.30-1.46	1.57-2.20	1.24-1.84
(per stem)	1.86	1.35	1.41	1.17	1.05	0.88
Lily var. (per stem)	0.58-1.11	0.56-2.44	0.66-3.12	0.69-2.58	1.33-3.12	0.83-2.12
Limon var (per 5)	2.86	3.11	4.09	3.28	5.58	6.70
Magnolia (per 5)	2.04	1.88	2.04	2.07	2.09	1.76
Matthiola (per 5)	-	4.25-5.51	4.67-6.29	3.73-4.93	3.60-3.62	3.78-4.46
Moluccella (per 5)	2.88-2.96	3.38-4.40	5.35	5.50	4.07	4.46
Moss (per bag)	0.90	0.90	0.90	1.50	1.76	1.35
Paeony Var (per stem)	0.66	-	-	-	-	-
Phalaenopsis (per plant)	19.63	-	-	-	32.50	15.44
(per stem)	3.89	5.00	-	5.90	4.98	3.49
Phormium (per 5)	1.78-1.86	1.63-1.88	1.52-1.64	1.53-1.62	1.43-1.71	1.35-1.53
Pittosporum var (per 5)	1.20	1.20	0.97	1.09	1.11	1.41
Poppy var (per 10)	1.49	1.15	1.15	1.80	2.08	2.30
Protea (per 3)	2.38-3.28	1.84-2.67	1.78-1.89	1.33-1.56	1.48-2.33	1.79-2.30
Protea (Queen/King per stem)	1.21/1.74	-/1.58	1.46/1.57	0.80/1.22	0.90 /1.09	1.38/1.76
Ranunculus (per 5)	-	-	-	-	-	3.58
Rose varieties (per 10)	3.93-9.94	4.26-18.65	4.05-9.46	4.41-10.00	8.37-13.34	8.15-14.48
Rose Spray (per 5)	3.03-3.74	2.90-3.79	3.44-4.22	3.62-4.59	6.04-7.08	6.05-6.89
Rosemary (per 5)	1.63	1.47	1.31	1.07	1.53	1.62
Ruscus (per 5)	2.18-2.50	-	-	-	1.49-1.75	2.23-2.28
Salal (per 10)	2.62	2.40	2.40	2.30	2.43	2.85
Serruria (per 5)	-	-	-	-	-	3.63
Solidago (per 5)	3.30	2.93	3.22	3.31	6.11	2.30
Stachys Lanata (per 5)	2.01	2.36	2.60	2.99	-	-
Strelitzia (per stem)	3.23	2.50	2.19	2.02	2.07	2.13
Succulent fl (per stem)	1.95	0.93	1.10	0.86	1.07	1.02
Sweet Pea (per 5)	1.30-1.44	1.00-1.24	-	-	-	1.90
Thrypomene (per 5)	-	-	-	-	-	1.25
Trop. Water Lily (per 5)	-	3.21	3.79	3.82	-	-
Tulip (per 5)	-	1.79	2.93	3.30	3.36-4.72	3.92-4.18
Tweedia	-	-	-	-	2.08	2.08
TwistedWillow (per 5)	3.08	3.08	2.08	1.98	2.82	1.76
Viburnum (per 5)	1.59	1.23	1.09	1.61	1.62	2.00
Vibur Berries (per 3)	2.13	2.12	2.56	3.07	1.89	1.70
Vinca Vine (per 10)	2.12	1.84	2.03	2.77	2.38	1.50
Zanted var (per 5)	2.60-3.99	2.20-3.27	3.44-4.93	4.10-6.13	3.79-4.83	1.50

2009 Auction Prices – Auckland (continued)

	Aug	Sep	Oct	Nov	Dec
Achillea Yellow (per 5)	-	-		1.13	0.85
Agapanthus var (per 5)	1.10	2.07		1.40	1.21
Agonis (per 5)	-	-		-	-
Aloe (per stem)	-	-		-	-
Alstromeria (per 5)	2.75	1.28		1.54	2.23
Amaryllus (per stem)	2.76-3.81	2.37		1.66-2.21	1.05-1.43
(per plant)				11.29-12.09	12.23-12.51
Ammi Majus (per 5)	-	-		2.10	2.39
Anemone (per 10)	4.02	3.51		-	-
Anthurium (per stem)	1.59-1.73	1.36-1.61		1.39-2.01	1.54-2.31
(per 3)	3.36	3.03		2.95	3.10
Anthurium leaves (per5)	4.03	3.86		3.08	2.77
Antirrhinum (per 5)	2.70	2.26		1.89-2.16	1.73-2.18
Aralia leaves (per 5)	2.23	1.80		1.70	1.82
Artichoke (per stem)	-	-		1.67	1.50
Arum Lilies (per 5)	1.06	1.65		0.46	1.23
Asparagus Fern (per 5)	1.80	2.80		3.27	3.48
Aspidistra (per 5)	2.40	2.67		3.49	3.54
Astartea (per 5)	-	-		-	-
Aster (per 5)	-	-		-	-
Astilbe var	-	-		-	-
Banksia (per stem)	-	-		-	-
Bear Grass (per 25)	2.71	2.64		2.21	2.31
Berzelia (per 5)	-	-		-	-
Boronia (per 5)	-	-		2.71	3.35
Brassica (per stem)	1.34	0.92		-	-
Bromeliad (per stem)	1.10	2.10		1.78	2.44
Broom (per 10)	-	-		-	-
Brunia (per 5)	-	-		-	-
Camellia (per 5)	1.50	1.53		1.53	1.50
Childsiana (per 5)	-	-		0.91	0.80
Chrysanth. (per 5)	5.26-8.33	4.98-8.50		-	-
Chysant Green (per 5)	5.73	-		-	-
Copper Beech (per 5)	-	-		-	2.06
Cornus (per 5)	1.63	1.48		2.30	-
Cyclamen plant	-	-		-	-
Cymbidium (per stem)	1.55-2.13	1.22-1.99		2.36-3.21	2.43-2.74
Cytisus (per 5)	1.04	1.30		-	-
Daffodils (per 10)	1.16-1.93	1.30-1.50		-	-
Del.Belladonna (per 5)	1.86	2.20		1.63	1.40
Delphinium var (per 3)	1.76	1.58		2.36	2.39
Dianthus Var (per 10)	4.47-5.78	3.41-4.30		3.23-4.29	4.11-5.01
(per 5)	1.97	1.50		2.28	0.99
Eucalyptus (per 5)	2.26	2.24		-	-
Euphorbia (per 5)	1.43	1.81		2.03	2.03
Eustoma var (per	-	-		8.95	7.26
5)Lisianth					
Foliage General Ass	-	-		-	-
Freesia (per 5)	5.12	4.93		3.98	3.19-3.98
Gerbera (per 5)	3.43-4.07	1.76-3.46		1.64-3.54	1.40-4.14
Gladioli (per 5)				-	4.90
Green Goddess (per 5)	1.40	0.94		1.21	-
Gypsophila (per 200g)	8.87-9.55	10.47-10.58		3.98-11.13	4.09-6.07-

(per 5)				
Hebe Foliage (per 5)	-	-	-	-
Helianthus (per 5)	2.50	4.07	4.55	3.16
(per stem)	1.42	1.72	1.25	0.61
Heliconia (per stem)	2.60-4.03	2.52-3.77	-	-
Hydrangea (stem)	-	-	2.06	1.23
Foliage (per 5)	-	-	-	-
Hypericum (per 5)	-	-	6.97	6.43
Idesia Berries (per 5)	3.21	2.97	-	-
Iris (per 5)	1.28-2.47	1.28-1.39	2.51	-
Ivy (per 5)	1.46	0.92	1.63	1.58
Laurus (per 3)	-	-	-	-
Lavender (per 25)	-	-	-	-
Leather Fern (10 stem)	1.32	1.73	1.70	1.85
Leaves General (per 5)	-	-	-	-
Leuco Var (per 3 or 5)	1.27-1.66	1.47-1.88	1.37-1.73	2.01-2.43
Leuco Argen (per stem)	1.23	1.23	1.80	1.10
Lily var (per 5)	-	-	-	-
(per stem)	0.76-2.08	0.42-1.89	0.65-1.75	0.54-1.32
Limon var (per 5)	4.47	2.39	2.38	2.71
Longi (per 3 bud stem)	-	-	-	-
Magnolia (per 5)	2.39	2.71	2.88	3.36
Matthiola var (per 5)	2.81-3.48	2.15-2.88	3.57-3.77	4.95-5.38
Moluccella (per 5)	3.79	3.16	3.11	2.92
Moss (per bag)	1.44	1.41	1.34	1.34
Nandina (per 5)	-	-	-	-
Narcissus var (per 10)	-	-	-	-
Nerines (per 10)	-	-	-	-
Oncidium (per stem)	-	-	-	-
Paeony var (per stem)	-	-	1.09-1.55	1.02-1.53
Palm (per 5)	-	-	-	-
Leaf (per stem)	-	-	-	-
Phalaenopsis Plant	11.37	13.20	3.66	2.76
Per Stem	3.40	3.56	-	-
Philo Leaves (per 5)	-	-	-	-
Phormium (per 5)	1.22-1.61	1.30-1.32	1.58	1.32
Phyllica (per 5)	-	-	-	-
Pieris Japonica (per 5)	2.88	2.68	-	-
Pittosporum (per 5)	-	-	-	-
Plant Cyclamen	-	-	-	-
Pot Plant (Asstd)	-	-	-	-
Poppy (per 10)	-	-	-	-
Protea (per 3)	1.55-1.75	1.14-1.84	2.69	2.70
per stem King/Queen	1.69 /1.57	1.29 /1.20	1.29/1.10	1.42/1.10
Ranunculus (per 5)	1.05	1.05	-	-
Rose var (per 10)	8.14-14.84	5.94-13.85	4.44-7.82	4.18-7.41
Spray (per 5)	4.93-5.98	4.19-5.53	3.32-4.34	3.06-3.85
Rosemary (per 5)	1.28	1.19	1.73	1.75
Ruscus (per 5)	2.18-2.33	1.77-2.22	1.68-2.04	2.05-2.35
Salal (per 10)	2.76	2.53	2.28	2.35
Salix (per 5)	1.00	1.00	-	-
Strelitzia (per stem)	1.63	1.34	1.48	1.61
Succulent Flower	0.88	0.68	1.00	0.98
Sweet Pea (per 5)	1.87	1.74	1.68	1.55
Thrypomene (per 5)	1.60	2.30	-	-
Tulip (per 5)	2.46-3.12	1.58-2.28	2.00-2.45	1.30-1.40

Tweedia (per 5)	1.47	1.21	-	1.20
Twisted Willow (per 5)	1.93	1.91	3.62	5.04
Viburnum (per 5)	2.18	1.91	2.62	2.40
Viburnum Berries(per 3)	1.99	1.81	2.34	1.62
Vinca Vine (per 10)	1.20	2.31	-	-
Waratah (per stem)	1.62	1.19	-	-
Zanted var (per 5)	-	3.80	2.09-4.85	2.66-3.02

Source: Horticulture News/Lifestyle Farmer - 2009 Issues

(ii) 2008 Auction Prices – Auckland

(Prices are \$ per stem, 5 or 10 as stated)

	Jan	Feb	Mar	Apr/ May	Jun	July
Agapanthus (per 5)	1.90	1.75	1.90	1.90	2.75	2.44
Agonis (per 5)	-	-	-	-	1.23	1.23
Aloe (per stem)	2.30	0.70	1.28	0.94	0.81	0.44
Alstromeria (per 5)	2.91	3.47	3.34	2.62	4.09	4.38
Amaranthus (per 5)	-	-	2.11	1.29	1.20	-
Amaryllus (per stem)	0.70-1.60	3.04	1.60	-	-	-
(per plant)	7.67					
Ammi Majus (per10)	2.02	2.02	-	-		
(per 5)					2.14	2.63
Anthurium var						
(per stem)	1.51-2.17	1.85-2.96	1.65-2.29	1.43-2.06	2.00-2.34	2.27-2.90
(per3)			3.76	3.13	3.08	3.25
Anthur Leaves(per 5)	1.50	4.60	1.90	3.23	3.38	4.53
Antirrhinum(per5/10)	-	-	3.13/3.73	2.42/2.52	2.67-2.76	3.23-3.45
Aralia leaves (per 5)	2.21	2.66	2.52	2.50	2.24	2.50
Arum Lillies (per 5)	1.05	-	-	-	-	-
Asparagus fern(per 5)	3.62	3.65	3.12	2.63	1.95	3.69
Aspidistra (per 5)	2.12	3.78	3.12	3.74	3.46	3.48
AstarteaFoliage(per5)	0.70	0.80	-	-	-	-
Aster (per 5)	2.49	2.15	1.93	1.34	2.73	-
Astilbe var (per 5)	-	-	-	-	-	-
Banksia (per stem)	1.62	1.26	-	-	-	-
Bear Grass (per 25)	2.17	2.68	-	-	2.63	2.42
Brassica (per stem)	-	-	1.95	1.44	1.35	1.19
Bromeliad (per stem)	1.85	1.67	1.24	1.22	1.25	1.22
Broom (per 10)	1.22	1.18	-	-	-	-
Brunia (per stem)	2.64	2.85	3.23	-	3.75	2.95
Callicarpia (per 5)	-	-	-	2.40	-	-
Camellia (per 5)	2.53	2.32	1.97	1.64	1.74	2.24
Celosia var (per 5)	-	3.31-5.94	-	-	-	-
Childsiana (per 5)	-	-	-	-	-	1.72
Chrysanth. var (per 5)	2.86	3.45	4.09	3.20	3.41-7.65	3.54-8.25
Chrysanth Green (per 5)	4.39-4.80	4.11-5.25	5.60-5.84	4.09-5.89	4.51-6.26	5.33-6.47
Cornus (per 5)	-	-	2.32	2.79	2.12	2.38
Curcuma (per stem)	-	-	1.48	1.02	-	-
Cybister (per stem)	-	0.90	-	-	-	-
Cyclamen Plant			2.63	2.60	3.51	1.91
Cymbidium var (per stem)	1.26-2.12	3.85-4.47	3.97-5.50	3.54-4.62	2.31-4.67	1.83-3.46
Delphinium var(per3)	1.68	1.98	2.06	3.30	3.40	4.85
Del.Belladonna(per5)	2.98	3.01	4.00	4.09	4.11	5.60
Dianthus var (per 10)	2.23-2.63	2.43-6.25	4.63-5.88	4.39-5.78	5.48-7.18	5.92-8.52
Elegia (per 5)	1.47	1.00	-	-	-	-

Erica (per 5)	-	-	1.83	1.13	1.75	1.43
Eucalyptus (per 5)	2.13	2.60	2.37	1.93	2.90	3.21
Euphorbia (per 5)	2.45	2.45	1.62	-	-	-
Eustoma (Lisianthus) (per 5)	3.83	5.10	4.65-4.81	5.26-5.61	4.72	5.70
Foliage General Ass	1.51	1.92	1.82	1.68	1.46	1.58
Freesia (per 10)	-	-	-	5.97	-	-
Gentian (per5)	-	-	3.40-3.94	3.40-4.93	-	-
Gerbera (per 5)	1.12-1.83	2.21-3.18	2.30-3.41	2.37-3.34	3.40-4.65	3.37-4.69
Gladioli (per 5)	-	2.96	3.08	3.69	-	-
Green Goddess (per 5)	1.56	-	-	-	3.90	2.69
Grisilinia	-	-	-	-	-	-
Gypsophila var (per 200g)	3.88-4.70	10.02- 12.34	9.48- 10.74	6.89- 11.68	11.92- 14.86	14.92-15.17
Hebe Foliage (per 5)	3.17	2.63	3.17	1.10	1.46	1.87
Helianthus (per 5)	3.48	3.79 1.89-	5.12	3.65	5.26	-
Helianthus (per stem)	1.54-1.79	1.91	1.61-1.64	1.32-1.93	1.38-1.81	1.81-2.36
Heliconia var (per stem)	1.56-7.63	1.43-7.63	1.55-2.32	1.30-2.51	1.60-2.17	1.63
Hydrangea (per stem)	-	-	2.49	2.55	2.89	-
Foliage (per 5)	2.35	2.89	2.03	2.24	1.10	-
Hypericum (per 5)	-	-	-	-	-	5.68
Idesia Berries (per 5)	4.19	4.19	3.32	3.65	3.50	3.05
Iris (per 5)	1.83	1.78	1.69-1.82	1.61-1.80	1.84-2.13	1.92-1.94
Ivy (per 5)	1.81	1.68	1.79	1.88	1.18	1.84
Laurus (per 5)	-	-	-	-	2.40	2.68
Lavender (per 25)	2.06	2.06	-	-	-	-
Leather Fern (per 10)	1.20	1.37	1.15	1.20	1.07	1.12
Leaves General (per 5)	0.80	0.80	1.26	2.25	1.45	1.96
Leuco var (per 3)	2.27	1.86	1.68	1.54	1.35	1.70
(per 5)	2.19-2.93	2.26-2.99	1.51-2.01	1.54-1.64	1.45-1.66	1.44-1.70
Lily var. (per stem)	0.83-1.49	1.20-2.23	0.62-2.52	1.20-1.82	0.99-2.15	0.94-2.21
(per 5)	2.63-3.26	5.26-6.16	4.12-5.13	3.63-5.02	-	-
Limon var (per 5)	1.88	2.87	3.21	3.46	4.04	4.85
Magnolia (per 5)	2.59	2.83	2.24	2.55	2.87	3.30
Matthiola (per 5)	3.20-3.56	4.94-4.98	4.32-4.63	2.74-3.43	4.38-4.97	5.11-4.72
Moluccella (per 5)	4.74-4.86	2.97-5.10	-	-	4.21	3.36
Moss (per bag)	0.80	1.78	2.16	1.21	1.81	1.64
Narcissus (per 10)	-	-	-	-	1.67-2.71	1.22-1.98
Nerines (per 10)	-	-	-	1.24	1.24	-
Oncidium (per stem)	-	-	5.77	4.60	4.95	-
Paeony Var (per stem)	1.15-1.25	-	-	-	-	-
Palm Leaf (per stem)	0.88	1.63	1.20	1.20	-	-
Phalaenopsis (per plant)	24.01	26.28	23.71	26.55	27.89	18.63
(per stem)	3.69-4.89	4.60-5.20	4.42-4.89	5.23-5.77	4.48-5.21	4.12-4.18
Philo Leaves (per 5)	2.73	2.73	2.73	2.73	-	-
Phormium (per 5)	1.56	1.76	1.20-1.99	1.40-1.98	1.24-2.14	1.00-1.53
Phylica (per 5)	-	-	-	-	1.01	1.72
Pieris Japonica (per 5)	2.32	2.32	4.18	2.87	2.28	2.85
Pittosporum var (per 5)	1.05	1.38	1.67	1.21	0.98	1.38
Poppy var (per 10)	2.21	2.21	1.28	0.98	2.98	2.50
Protea (per 3)	3.60	3.43	1.39	1.53	2.00	2.67
Protea (Queen/King per stem)	1.99 / 2.27	1.99 /1.76	1.49 / 2.14	1.10 /1.46	1.03 /1.82	2.03 /2.42
Rose varieties (per 10)	3.85-10.09	3.98-21.37	4.10-10.86	4.93-10.00	5.41-10.43	7.87-15.14
Rose Spray (per 5)	2.14-3.12	3.19-3.54	3.88-4.21	3.92-4.57	4.64-5.08	5.63-6.25

Rosemary (per 5)	-	-	1.66	1.42	1.70	1.77
Salal (per 10)	2.78	2.86	2.88	2.93	2.55	2.82
Serruria (per 5)	-	-	-	-	4.66	4.66
Solidago (per 5)	2.53	3.27	4.90	3.54	4.77	4.57
Stachy Lanata (per 5)	1.94	3.22	2.93	2.34	-	-
Strelitzia (per stem)	3.10	2.93	2.39	2.69	2.41	2.44
Succulent fl (per stem)	-	-	-	-	0.98	1.15
Sweet Pea (per 5)	1.02-1.10	-	1.63-1.70	-	1.65-2.40	2.21-2.30
Sympho Berries (per 5)	-	-	3.87	3.80	-	-
Tulip (per 5)	-	2.99-3.76	4.12-5.23	3.32-4.63	3.09-5.01	3.00-3.26
Twisted Willow (per 5)	5.43	5.26	3.61	4.50	3.33	2.46
Viburnum (per 5)	2.35	1.86	1.71	2.75	2.06	2.36
Vibur Berries(per stem)	2.63	1.88	2.62	3.14	2.30	2.30
Vinca Vine (per 10)	2.84	2.35	2.54	2.95	1.90	1.97
Zanted var (per 5)	2.68-2.70	3.36	2.70-3.99	2.96-5.98	4.68-5.37	4.44-5.58

2008 Auction Prices – Auckland - continued

	Aug	Sep	Oct	Nov
Achillea Yellow (per 5)	-	-	-	1.16
Agapanthus (per 5)	1.96	1.66	1.39	1.01-1.26
Agonis (per 5)	1.46	1.00	1.00	-
Aloe (per stem)	0.88	1.20	0.90	0.63
Alstromeria (per 5)	4.30	2.03	1.31	1.39
Ammi Majus (per 5)	2.36	2.49	2.13	1.83
Anemone (per 5)	-	-	-	-
Anthurium (per stem)	1.86-2.80	1.74-2.28 4.03	1.58-1.79 3.03	1.38-1.45
(per 3)	2.90			2.47
Anthurium leaves (per5)	4.53	4.02	4.06	3.12
Antirrhinum (per 5)	3.09-3.18	2.45-2.57	1.42-1.73	1.67-1.68
Aralia leaves (per 5)	2.18	2.26	2.00	1.78
Artichoke (per stem)	-	-	-	1.33
Arum Lillies (per 5)	-	-	-	1.08
Asparagus Fern (per 5)	2.96	4.03	3.11	3.76
Aspidistra (per 5)	3.64	3.64	3.59	3.60
Astartea (per 5)	-	-	-	-
Aster (per 5)	-	-	-	-
Astilbe var	-	-	-	-
Banksia (per stem)	-	-	-	-
Bear Grass (per 25)	2.46	2.85	2.52	2.46
Berzelia (per 5)	-	2.58	2.76	2.76
Brassica (per stem)	1.34	1.03	0.65	0.86
Bromeliad (per stem)	1.28	1.30	1.68	1.17
Broom (per 10)	-	-	-	-
Brunia (per 5)	2.19	-	-	-
Camellia (per 5)	1.65	2.04	2.04	1.85
Childsiana (per 5)	1.36	1.08	0.98	0.82
Chrysanth. (per 5)	5.26	3.53	2.59	3.14
Chysant Green (per 5)	5.33	5.40	4.25-4.85	4.85
Copper Beech (per 5)	-	-	-	1.93
Cornus (per 5)	1.91	2.63	2.45	2.70
Cyclamen plant	1.87	2.36	2.36	-
Cymbidium (per stem)	1.62-2.64	1.83-2.22	1.67-3.03	2.39-3.68
Del.Belladonna (per 5)	5.43	4.94	4.26	3.36
Delphinium var (per 3)	4.85	4.82	4.10	5.10

Dianthus Var (per 10)	6.10-8.41	5.40-6.02	2.80-4.25	2.90-3.22
Elegia (per 5)	-	-	-	-
Erica (per 5)	1.13	1.50	1.50	-
Eucalyptus (per 5)	3.45	2.72	2.72	2.20
Euphorbia (per 5)	-	-	-	2.26
Eustoma var (per 5) Lisianth	5.70	-	6.20	6.83
Foliage General Ass	-	-	-	-
Freesia (per 5)	4.64	4.43	4.94	5.27
Gerbera (per 5)	3.29-4.87	1.83-3.47	1.31-1.90	1.32-2.05
Green Goddess (per 5)	2.23	1.48	1.22	1.53
Gypsophila (per 200g)	16.04-16.24	13.48-14.34	13.48-16.97	5.72
(per 5)				3.35
Hebe Foliage (per 5)	1.81	1.83	1.10	1.72
Helianthus (per 5)	-	-	-	4.16
(per stem)	2.14-2.78	1.93-2.12	1.12-1.19	1.12-1.74
Heliconia (per stem)	1.41-2.55	0.82-2.23	0.82-1.57	-
Hosta Leaf (per 5)	-	-	-	2.73-3.19
Hydrangea (per stem)	-	2.32	2.32	1.52
Foliage (per 5)	-	3.23	1.48	1.63
Hypericum (per 5)	5.68	-	-	-
Idesia Berries (per 5)	2.41	3.18	3.43	3.23
Iris (per 5)	1.41-1.59	1.06-1.08	0.88-0.96	1.11-1.19
Ivy (per 5)	2.11	2.56	2.17	0.97
Laurus (per 3)	1.87	2.21	1.68	-
Lavender (per 25)	-	-	-	1.80
Leather Fern (10 stem)	1.13	1.11	1.12	1.16
Leaves General (per 5)	2.20	1.77	1.37	1.70
Leuco Var (per 3 or 5)	1.53-1.94	1.76-2.09	1.46-1.94	1.25-2.30
Leuco Argen (per stem)	1.63	2.05	1.39	1.38
Liatrus (per 5)	-	-	-	-
Lily var (per 5)	-	-	-	-
(per stem)	0.87-2.25	0.83-1.97	0.93-1.47	0.70-1.72
Limon var (per 5)	5.68	3.85	2.44	3.18
Longi (per 3 bud stem)	-	-	-	-
Magnolia (per 5)	3.28	3.88	3.89	3.78
Matthiola var (per 5)	4.22-4.43	3.55-3.69	2.59-2.68	3.06-3.20
Moluccella (per 5)	3.26	3.75	3.57	2.46-3.32
Moss (per bag)	2.26	2.76	2.27	1.46
Nandina (per 5)	-	-	-	-
Narcissus var (per 10)	1.25-1.86	1.69-3.40	0.92	-
Nerines (per 10)	-	-	-	-
Oncidium (per stem)	-	-	-	-
Paeony var (per stem)	-	-	1.62-2.32	0.95-1.44
Palm (per 5)	-	-	-	-
Leaf (per stem)	-	-	-	-
Phalaenopsis Plant	20.69	17.79	14.26	19.63
Per Stem	3.81-4.81	3.20-5.94	3.26-3.96	3.91
Philo Leaves (per 5)	-	-	-	-
Phormium (per 5)	1.44-1.62	1.60-1.81	1.26-1.50	1.58-2.04
Phyllica (per 5)	1.29	1.18	1.20	-
Pieris Japonica (per 5)	2.82	3.32	2.86	2.56
Pittosporum (per 5)	1.08	1.03	1.14	1.20
Plant Cyclamen	-	-	-	-
Pot Plant (Asstd)	-	-	-	-
Poppy (per 10)	-	-	-	-
Protea (per 3)	1.77	2.70	2.16	1.30

per stem King/Queen	2.14 /2.34	1.21 /2.10	1.07 /1.25	1.34 /1.90
Rose var (per 10)	7.58-15.01	6.81-14.57	4.48-11.23	3.85-9.70
Spray (per 5)	4.81-5.63	4.27-4.81	2.86-3.56	2.74-3.32
Rosemary (per 5)	1.18	1.05	1.59	1.63
Ruscus (per 5)	-	2.86	2.76	2.13-2.50
Salal (per 10)	2.67	3.03	3.05	2.72
Serruria (per 5)	4.66	4.66	-	-
Solidago (per 5)	4.14	2.60	3.27	2.99
Stachys Lanata. (per 5)	-	-	1.75	2.03
Statice (per 5)	-	-	-	-
Stock Double (per 5)	-	-	-	-
Strelitzia (per stem)	3.45	2.17	1.48	1.71
Succulent Flower	1.15	1.15	1.32	1.11
Sweet Pea (per 5)	2.12-2.25	1.81-2.26	1.51-1.56	1.35-1.93
Tulip (per 5)	2.70-2.95	2.33-2.94	2.68-3.02	2.53-3.03
Twisted Willow (per 5)	1.86	2.17	3.31	2.98
Viburnum (per 5)	2.53	2.45	1.94	3.20
Viburnum Berries(per 3)	2.19	2.09	1.63	2.16
Vinca Vine (per 10)	1.90	2.07	2.23	2.59
Waratah (per stem)	-	-	-	-
Zanted var (per 5)	3.43-3.86	3.77-4.72	4.30	2.97-4.99

Source: Horticulture News - 2008 Issues

1.15 APICULTURAL PRODUCTION

1.15.1 Honey

Honey

Prices for 2006/07 to 2008/09 Year ended 30 June.

FOB- purchaser pays freight and insurance

Colour/grade	\$/kg (f.o.b.)		
	2006/2007	2007/2008	2008/2009
Light (clover type)	\$2.20 to \$3.90	\$2.80 to \$3.75	\$3.50 to \$5.60
Light amber	\$3.50 to \$3.90	\$2.80 to \$3.00	\$3.70 to \$4.00
Dark / Honeydew	\$2.90 to \$3.90	\$2.80 to \$3.70	\$4.50 to \$5.00
Manuka *	\$8.50 to \$11.50	\$8.50 to \$13.25	\$7.00 to \$12.00
Thyme			\$6.00 to \$7.00
Tawari - Kamahi			\$3.65 to \$5.00

- In comparison the bulk price for active manuka (usually at above 10 points) ranged from \$12.50 to \$56.00 /kg depending on activity level. Only small amounts of high activity manuka are available.
- *These prices are for non-active manuka honey.

Source: Horticulture and Arable Monitoring Report – 2009

1.15.2 Beeswax

Prices for 2006/07 to 2008/09

	\$/kg (f.o.b.)		
	2006/2007	2007/2008	2008/2009
Light	\$6.00 to \$6.50	\$6.50 to \$7.00	\$7.00 to \$8.10
Dark	\$4.50 to \$5.20	\$5.00 to \$5.20	\$4.00 to \$5.20

Source: Horticulture and Arable Monitoring Report - 2009

1.15.3 Pollen

Prices for 2006/07 to 2008/09

	\$/kg (f.o.b.)		
	2006/2007	2007/2008	2008/2009
Not dried nor cleaned	\$14.00 to \$16.00	\$16.00 to \$18.00	\$18.00 to \$20.00
Cleaned and dried	\$20.00 to \$35.00	\$20.00 to \$30.00	\$25.00 to \$31.00

Source: Horticulture and Arable Monitoring Report – 2009

1.15.4 Propolis

Prices for 2006/07 to 2008/09

	\$/kg (f.o.b.)		
	2006/2007	2007/2008	2008/2009
Purity 15 – 19%			\$160.00
Purity 20 – 24%			\$190.00
Purity greater than 25%			\$230.00

Source: Horticulture and Arable Monitoring Report – 2009

1.15.5 Pollination

Beekeepers received the following returns from hire of their hives to orchardists for pollination of fruit crops.

	2006/2007	\$ per hive 2007/2008	2008/2009
Pipfruit, stonefruit, berries	\$60.00 to \$90.00	\$60.00 to \$96.00	\$55.00 to \$96.00
Kiwifruit*:			
Hawkes Bay	\$110.00 to \$150.00	\$110.00 to \$170.00	\$140.00 to \$160.00
Auckland/Waikato	\$100.00 to \$185.00	\$110.00 to \$150.00	\$115.00 to \$150.00
Bay of Plenty	\$102.00 to \$175.00	\$110.00 to \$160.00	
Gold Kiwifruit			\$110.00 to \$145.00
Green Kiwifruit			\$130.00 to \$160.00
Nelson	\$100.00 to \$120.00	\$100.00 to \$120.00	\$125.00 to \$145.00
Canola & Brassicas	\$120.00	\$120.00	\$120.00 to \$140.00
Small seeds (carrots)		\$150.00	\$150.00 to \$180.00

* Prices at lower end are for hives delivered to depot sites. Higher end prices included delivery to orchard and sugar for three 1-litre feeds to stimulate bees to collect pollen.

Source: *MAF Horticulture and Arable Monitoring Report 2009*.

Canterbury: One beekeeper gave these pollination prices.

Vegetable seeds i.e. Cabbage, Cauliflower and Radish	\$125 per hive
Clover	\$110 per hive
Carrot	\$160 per hive

1.15.6 Live Bees

Prices for live bees held steady in 2008/09 with exporters receiving around \$22 per kilogram for bees and \$25 per queen. Over 30,000 one kilogram packages of bees were sent to Canada in 2008, along with 3 000 extra queens surpassing the record set in 2007 by 25%. Canada's record import of New Zealand bees is a reflection of recent lifts in world honey prices and a favourable exchange rate with the US dollar.

A small number of queen bees were sent to the UK but difficulties in complying with European Union (EU) certification requirements meant there were no package bee exports to Europe.

From 2003 to 2006 bulk or package bees were sold for \$20 delivered, plus \$20 for the queen.

In 2005/06 and 2004/05 queen bees sold for \$20 to \$24 each on the local market, with some up to \$27. However a new strain of 75% pure Carnolian bees, from selected breeders, sold for between \$500 and \$1,000 in 2005/06 compared to \$500 in 2004/05.

Source: *Horticulture and Arable Monitoring Reports 2006/07 and 2009*

A Canterbury beekeeper's price for a single box hive in 2009 was \$150.

1.16 LOGS

1.16.1 Indicative Log Prices

The prices and rates shown are guidelines only, being subject to a wide range of factors including location and size of woodlot, access and internal roading, log quality and changing market conditions. Log prices are for Radiata Pine unless shown otherwise.

(i) Export Log Prices (per quarter \$NZ JAS m³ FOB)

Grade	March 2009	June 2009	Sept 2009	Dec 2009
Pruned	\$169 to \$206	\$126 to \$158	\$125 to \$175	\$110 to \$172
Unpruned A - Japan	\$95 to \$131	\$95 to \$106	\$91 to \$97	\$82 to \$116
Unpruned K - Korea	\$86 to \$116	\$85 to \$102	\$81 to \$99	\$74 to \$110
Unpruned J - Japan	*	*		N/a
Pulp – Japan	\$56 to \$94	\$65 to \$86	\$75 to \$77	\$65 to \$92

*Limited response – very small volume traded

Source: MAF www.maf.govt.nz

(ii) Domestic Log Prices (per quarter)

(\$NZ per tonne delivered at mill)

Grade	Mar 2009	Jun 2009	Sep 2009	Dec 2009
P1	\$116 to \$128	\$116 to \$135	\$120 to \$139	\$121 to \$143
P2	\$95 to \$107	\$93 to \$107	\$93 to \$111	\$94 to \$114
S1	\$85 to \$97	\$84 to \$90	\$84 to \$92	\$83 to \$97
S2	\$75 to \$88	\$77 to \$87	\$80 to \$85	\$83 to \$87
L1 and L2	\$70 to \$76	\$68 to \$72	\$65 to \$76	\$68 to \$83
S3 and L3	\$64 to \$69	\$64 to \$67	\$64 to \$75	\$68 to \$74
Pulp	\$40 to \$64	\$40 to \$62	\$40 to \$59	\$40 to \$55

These log prices (both domestic and export) are indicative only and may not correspond to actual prices paid in market transactions. They have been obtained from a variety of sources and elements of subjective judgment have been incorporated into them. The prices are subject to changes when further data become available.

Source: MAF www.maf.govt.nz

1.16.2 Forestry Forecasts

Export prices FOB (\$ per m³)

(i) Logs and Lumber

March Year	2008	2009	2010f	2011f	2012f	2013f
Logs and chips	\$93	\$109	\$126	\$143	\$153	\$160
Timber	\$410	\$418	\$468	\$497	\$587	\$708

(ii) Wood Pulp, Paper Products and Panels

March Year	2008	2009	2010f	2011f	2012f	2013f
Wood Pulp	\$705	\$718	\$638	\$707	\$766	\$810
Paper Products	\$919f*	\$977f*	\$1,084f*	\$1,152f*		
Panels	\$479	\$551	\$638	\$713	\$772	\$817

f = forecast *figures from SONZAF 2007 as now excluded for confidentiality reasons.

Source: SONZAF - Jul 2009.

SECTION 2

FARM and ORCHARD EXPENSES

Note: Before reading this section, please refer to the disclaimer in the Preface of this Manual.

Prices Exclude GST

2.1 INPUT PRICES - GENERAL INFORMATION

2.1.1 Input Price Movements

Sheep and Beef Farm Input Price Movements 1970/1971 to 2008/2009



Source: Meat and Wool New Zealand Economic Service.

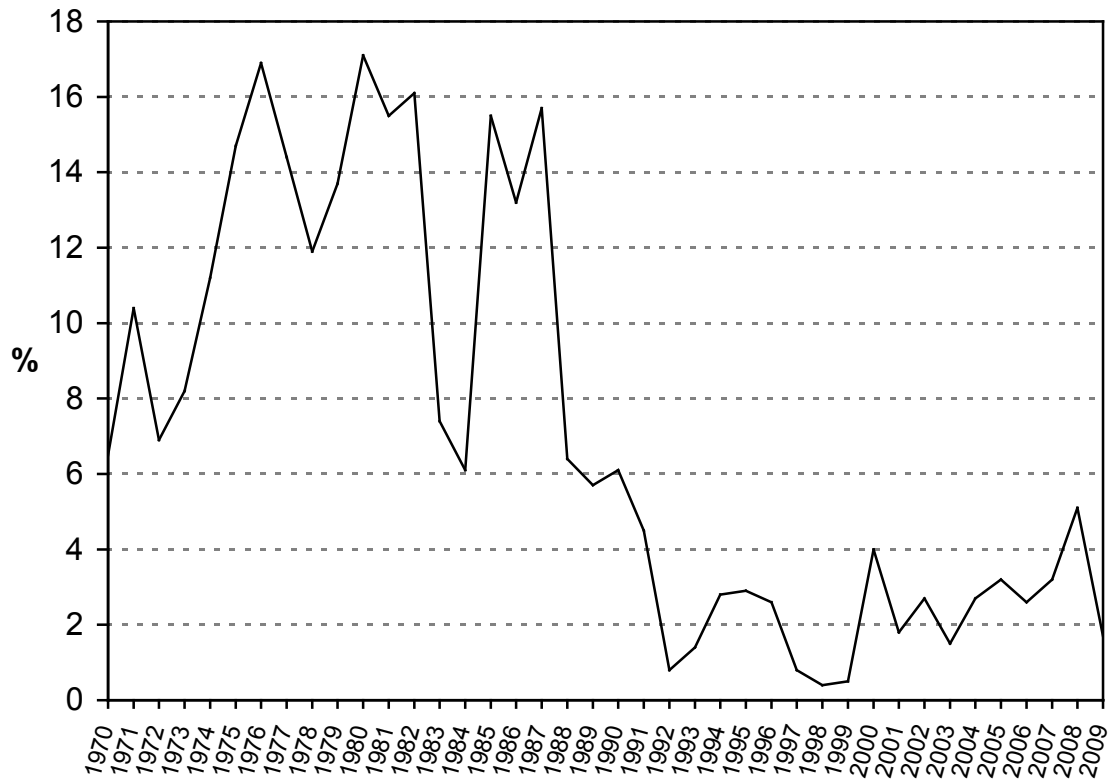
2.1.2 Price Discounts

As farmers and growers will be aware, it is sometimes possible to negotiate price discounts from retailers, particularly if goods are purchased in bulk. Similarly, trading societies can also offer goods at cheaper than normal retail rates to members. Discounts are commonly in the order of 15% to 25% for many farm goods excluding some items such as common agricultural chemicals. To become a member of one South Island society, five hundred \$1 shares must be purchased and members receive rebates and dividends.

Prices Exclude GST

2.1.3 Rate of Inflation in New Zealand 1970 to 2009

The Consumer Price Index (C.P.I.) measures the rate of inflation for each year.



Source: Reserve Bank of New Zealand

Note: Also see Appendix, Section 2.24, for rate of inflation since 1891, and method used to calculate the fall in the value of the dollar.

2.2 WAGES / SALARIES / DRAWINGS

2.2.1 Wages and Salaries - Farm Employees

As a guide to Wages or Salaries commonly paid to farm employees, ATRFegan have kindly provided the following figures. ATRFegan provide a range of services to the rural sector including Recruitment and HR services. Visit them at www.atrfeagan.com

It is important to recognise the following:

- There will always be exceptions to the ranges shown.
- These are Salary/Wage figures only and do not include Other Benefits and so do not show the Total Package Value for each role.
- You should always seek professional advice before making any significant changes to employee's remuneration packages.

(i) Sheep/Beef

Shepherd General / General Hand	\$24,000 - \$37,000
General Hand / Tractor Driver	\$26,000 - \$42,000
Shepherd	\$30,000 - \$43,000
Head Shepherd	\$38,000 - \$48,000
Stock Manager	\$40,000 - \$55,000
Manager	\$45,000 - \$80,000
Operations Manager	\$70,000 - \$110,000

(ii) Dairy

	North Island	South Island
Part-Time Assistant	\$13.00 - \$18.00/hr	\$13.00 - \$18.00/hr
Assistant	\$25,000 - \$37,000	\$27,000 - \$38,000
Herd Manager	\$35,000 - \$44,000	\$37,000 - \$50,000
Assistant Manager / 2IC	\$37,000 - \$55,000	\$37,000 - \$60,000
Farm Manager	\$38,000 - \$85,000	\$45,000 - \$100,000
Operations Manager	\$75,000 - \$130,000	\$75,000 - \$130,000

All amounts are assuming the person is covering their own personal expenses (power, phone etc). If the person is being provided board and lodging a deduction of up to 15% for board and 5% for lodging can be made from the minimum hourly rate. Typically board and lodging provides meals while the employee is working (not necessarily while on scheduled time off), doing employee's washing, providing bedding and linen. Where accommodation is provided, that accommodation may be assessed for taxation purposes according to the requirements of the *Inland Revenue Department* according to the formulae set out from time to time or from the best advice available.

Assistant:

Someone completing tasks under direct supervision and with few areas of responsibility other than within the dairy shed. For example Nitrogen: will be applying it, may be calibrating spreader, but will not decide rate.

Herd Manager:

Normally has a minimum of two years experience and would have sound knowledge of identifying and treating animal health problems. Would have some responsibilities such as herd health and feeding, pasture management and assessment, with guidance from the

Prices Exclude GST

Manager or Employer. Nitrogen: will definitely be calibrating the spreader, may be deciding the rate.

Assistant Manager / 2IC:

Similar to the level of a Herd Manager re competency of performing day-to-day tasks. Distinguishing features: the Assistant Manager is expected to oversee the day-to-day operation of the farm in the Managers / Employers' absence. They are likely to assist with delegation of duties to junior staff and day-to-day supervision of those staff as required.

Farm Manager:

Makes the weekly decisions on farm. For example Nitrogen: will be deciding rate of application, maybe deciding total annual Nitrogen use.

Operations Manager:

Operates to a level of working within the operating budget, often negotiating with the fertiliser company, banks, and farm supply companies. Manages all aspects regarding staff and sometimes does the GST return. For example Nitrogen – will be deciding total amount of Nitrogen usage.

Non-Cash Benefits:

All figures quoted are cash salary; if any non-cash benefits are included, they are over and above these figures. Non-cash benefits can include house, meat, and firewood in all examples. In the Sheep and Beef sector house power and telephone rental may be included. Employers need to be aware that these benefits can attract Fringe Benefit Tax. *See Section 4.1.2.*

Contract/Sharemilking Positions:

These positions are entirely negotiable between the parties depending on herd size. Each is a separate contract and agreements are very variable. The contract actually negotiated will reflect the remuneration required, after costs, to adequately reward the person for job size, performance, accountability and risk

Minimum Wage Requirements

It is important that employers have an accurate record of hours worked by employees so they can ensure an employee's package (salary, house value and other benefits) equates to at least the minimum wage. The minimum wage changes frequently so we advise employers to ensure they are aware of the current rate by going to www.ers.dol.govt.nz or phoning the Labour Department.

2.2.2 Wages and Salaries - Horticultural Employees

Some typical wage rates are as follows:

(i) Orchard Workers (Nelson)

Permanent Staff:	Position	Remuneration
	Manager	\$40,000 to \$48,000 per annum
	Assistant Manager	\$30,000 to \$35,000 per annum
	Labourers incl Quality Controller	\$15 to \$18 per hour
Casual Staff:	General Labourers	\$12 to \$15 per hour
	Tractor Driver / Forklift Driver	\$12 to \$15 per hour

Note: A large amount of orchard work is done on a contract piece rate basis; this can allow experienced hard working staff to earn more money in exchange for having the job done quicker.

Prices Exclude GST

(ii) Vineyards

Manager	\$40,000 to \$50,000 per annum
Foreman	\$32,000 to \$38,000 per annum
Permanent staff	\$15 to \$18 per hour
Pruners	\$14 to \$18 per hour
Leaf Pluckers	\$12 to \$14 per hour

(iii) Orchard/Packhouse Workers (Nelson)

General staff	\$12 to \$13 per hour
(packhouse staff paid towards lower end of scale, graders paid towards the higher end of scale)	
Supervisors/Quality Controllers	\$15 to \$18 per hour
Forklift drivers	\$13 to \$14 per hour

(iv) Tomato Glasshouse Workers (average)

Starting rate \$13.00 - \$13.50 per hour

Competent \$14.00 - \$15.00 per hour

With responsibilities, including training, i.e. boiler, greenhouse structural maintenance etc
\$15.00 - \$18.00 per hour

Foreman \$18.00 - 20.00 per hour

(v) Market Garden (Southland)

Casuals - Entry level		\$13.13 per hour
Permanents - Lower end	Moderate skill level	\$15.23 per hour
Permanents - Top end	Most skilled	\$17.51 per hour

Prices Exclude GST

2.2.3 Drawings

Drawings or Personal expenditure for farmers and growers:

Sheep and Beef	(per farm)	(per su)
Northland	\$49,137	\$15.26
Waikato/Bay of Plenty Intensive	\$69,396	\$22.65
Central North Island Hill Country	\$62,650	\$12.70
Gisborne Hill Country	\$69,900	\$9.66
Hawkes Bay/Wairarapa Hill Country	\$58,000	\$10.74
Eastern Lower North Is Intensive	\$70,000	\$20.58
Western Lower North Is Intensive	\$45,400	\$20.08
South Island High Country	\$73,935	\$7.01
Canterbury/Marlborough Hill Country	\$51,500	\$9.42
Canterbury/Marlborough Breeding and Finishing	\$54,400	\$18.40
Otago Dry Hill	\$66,500	\$11.58
Southland/South Otago Hill Country	\$76,700	\$13.69
Southland/South Otago Intensive	\$56,620	\$25.03
National	\$60,944	\$14.56

Dairy	(per farm)	(per cow)
Northland	\$50,000	\$182
Waikato/Bay of Plenty	\$65,500	\$212
Taranaki	\$64,000	\$240
Lower North Island	\$60,000	\$167
Canterbury	\$78,600	\$111
Southland	\$79,200	\$155
National	\$67,200	\$171

Deer	(per farm)	(per su)
North Island	\$38,200	\$17.38
South Island	\$52,439	\$19.08

Source: MAF Pastoral Monitoring Reports – 2009

Arable	(per farm)	(per ha)
Canterbury	\$67,000	\$223

Horticulture	(per property)	(per ha)
Kiwifruit	\$58,800	\$11,752
Hawkes Bay Pipfruit	\$59,400	\$2,700
Nelson Pipfruit	\$55,000	\$2,037

Source: MAF Horticulture and Arable Monitoring Reports – 2009

Prices Exclude GST

2.3 ANIMAL EXPENSES

2.3.1 Animal Health - Average Costs

Average animal health costs are as follows. See individual sections for more detailed information.

Sheep and Beef		(per su)
Northland		\$3.38
Waikato/Bay of Plenty Intensive		\$3.53
Central North Island Hill Country		\$3.60
Gisborne Hill Country		\$3.05
Hawkes Bay/Wairarapa Hill Country		\$2.65
Eastern Lower North Is Intensive		\$2.79
Western Lower North Is Intensive		\$3.58
South Island High Country		\$2.30
Canterbury/Marlborough Hill Country		\$3.17
Canterbury/Marlborough Breeding and Finishing		\$3.92
Otago Dry Hill		\$3.41
Southland/South Otago Hill Country		\$3.03
Southland/South Otago Intensive		\$4.31
National		\$3.32
Dairy		(per cow)
Northland		\$60
Waikato/Bay of Plenty		\$70
Taranaki		\$71
Lower North Island		\$70
Canterbury		\$82
Southland		\$73
National		\$73
Deer		(per su)
North Island		\$3.11
South Island		\$2.82

Source: MAF Pastoral Monitoring Report - 2009.

2.3.2 Drenches/Vaccines/Bloat Control

Sheep Drenching Costs - Examples:

Tradename:	Nilverm + Erase	Arrest	Levicare 2008 price	Ivomec Oral
Dose rate:	1ml / 5kg	1ml / 5kg	3ml / 16kg	1ml/4 kg
Cost per ml:	\$0.0255	\$0.0102	\$0.00565	\$0.0318
Cost per 55 kg ewe:	\$0.28	\$0.112	\$0.0583	\$0.417

Prices Exclude GST

Cattle Drenching Costs - Examples:

Tradename:	Levicare	Oxfen High Mineral	Valbazen	Ivomec
	2008 price	2008 price		Injection
Dose rate:	9 ml/45 kg	10 ml/50 kg	1 ml / 15kg	1 ml/50 kg
Cost per ml:	\$0.0565/ml	\$0.008/ml	\$0.044 / ml	\$0.492
Cost per 500 kg cow:	\$0.565	\$0.80	\$1.47	\$4.92

Drenches/Anthelmintics

Agmax Industries Ltd: (\$20 freight fee for all orders under \$135)

	Price
Ivermectin based Endectocide	
Noromectin - Cattle - pour-on	2.5 / 5 litre \$222 / \$400
Noromectin - Cattle - injection	500 ml \$177.78
Noromectin - Sheep - oral	20 litre \$311.11
Parafend Low Volume - Cattle/Sheep - oral	5 / 20 litre \$168 / \$576.89

PGG Wrightson Ltd:

Product	Unit size	Est Retail Price
Ivomec	Plain 20 litre	\$607.11
Ivomec.selenised	20 litre	\$356.45
Ivomec Injection	cattle/pig 500 ml	\$246.22
Ivomec Oral	Sheep 5 litre	\$159.11
Ivomec Plus	Cattle 500 ml	\$362.67
Ivomec Pour-on	backpack 5 litre	\$486.22
Ivomec Pour-on	5 litre	\$592.00
Ivomec Eprinex	7½/25litre	\$800/\$2,501
Ivomec Maximiser	per capsule	\$2.67
Triton	5 / 20 litre	\$217 / \$577
Triton Tape	5 / 10 litre	\$298 / \$642
Eqvalan Paste		\$19.02
Extender 100	per capsule	\$3.86
Extender Junior	per lamb	\$2.44
Extender Se	per ewe	\$2.30
Extender Seco	per ewe	\$3.68
Extender Sec Jnr	per lamb	\$2.44
Bloataid Dual	200 litre	\$1,000.00
Bloataid Super	200 litre	\$988.90
Bloataid Tracer	200 litre	\$1,207.00
Levamisole	20 litre	\$104.00
Nemadet Extra	20 litre	\$153.78
Erase MPC	20 litre	\$421.33
Erase	5litre / 15litre	\$542.22 / \$1,368.00
Nilverm + Erase MPC	21¼ litre	\$542.22
Scanda + Erase MPC	11¼ litre	\$720.89

Prices Exclude GST

Intervet Schering Plough Coopers:

Drenches:	Dose rate	Unit size	Average retail price
Scanda Sel (sheep & cattle)	1 ml per 10 kg	10 litre	\$275.55
Scanda Sel (sheep & cattle)	1 ml per 10 kg	20 litre	\$497.77
Converge (sheep & cattle)	1 ml per 10kg	5 litre	\$230.22
Converge (sheep & cattle)	1 ml per 10 kg	10 litre	\$423.11
Alliance (sheep & cattle)	1 ml per 10 kg	5 litre	\$336.88
Alliance (sheep & cattle)	1 ml per 10 kg	10 litre	\$585.78
Valbazen Cattle	1 ml per 15kg (Fluke)	5 litre	\$220.00

Livestock Supplies (N.Z.) Ltd:

Bio Start – Ruminant Calf	2 litre		\$118.00
Bio Start – Ruminant	2 / 5 / 10 litre		\$82 / \$195 / \$365
Dairy Cow Minerals	4000 doses		\$94.80 per bag
Ewe Spray Mix	1000 doses		\$38.50
Lugals Iodine	1 / 5 / 10 / 20 litre		\$22 / \$110 / \$210 / \$400
Potassium Iodate	1 kg		\$62.00
Potassium Iodide	1 kg		\$66.00
Calmag / Flours of Lime	1 kg		\$0.72 / \$0.24

Merial Ancare Ltd: (2008 prices)

Product		Dose rate	Unit size	Est Retail Price
Levicare	Sheep	3 ml per 16 kg	20 litre	\$113
	Cattle	9 ml per 45 kg		
Levicare HI-MIN	Sheep	3 ml per 16 kg	20 litre	\$113
	Cattle	9 ml per 45 kg		
Levitape	Lambs	1 ml per 5 kg	10 litre	\$251
Levitape High Mineral	Lambs	1 ml per 5 kg	10 litre	\$251
Albendazole		1 ml per 5 kg	20 litre	\$138
Albendazole High Mineral		1 ml per 5 kg	20 litre	\$138
Albendazole C		1 ml per 15 kg	5 / 20 litre	\$176 / \$560
First Drench / High Mineral		1 ml per 5 kg	5/10/20 litre	\$198 / \$301 / \$551
Oxfen		1 ml per 5 kg	5 / 20 litre	\$57 / \$160
Oxfen High Mineral		1 ml per 5kg	5 / 20 litre	\$57 / \$160
Oxfen C		1 ml per 20 kg	5 / 20 litre	\$163 / \$532
Oxfen C High Mineral		1 ml per 20 kg	5 / 20 litre	\$183/ \$598
Double Strength Oxfen High Mineral		1 ml per 10 kg	5 / 20 litre	\$101 / \$276
Arrest		1 ml per 5 kg	20 litre	\$203
Arrest High Mineral		1 ml per 5 kg	5 / 20 litre	\$76 / \$203
Arrest C		1 ml per 10 kg	5 / 20 litre	\$156 / \$493
Genesis High Mineral		1 ml per 5 kg	5/10/20 litre	\$143 / \$231 / \$355
Genesis Tape High Mineral		1 ml per 5 kg	5/10/20 litre	\$205/ \$312/\$592
Genesis Horse Wormer		1 ml per 20 kg	30 ml	\$20
Genesis Ultra Hi Mineral for sheep		1ml per 5kg	20 litre	\$637
Matrix Hi Mineral Triple Combo		1 ml per 5kg	5/10/20 litre	\$208 /\$462 /\$621

Prices Exclude GST

Matrix Tape Hi Mineral		1 ml per 5kg	5/10/20 litre	\$232 /\$488 /\$903
Switch Oral for sheep / Hi Mineral		1ml/5kg	5/20 litre	\$123 / \$436
Ivomec Liquid	Sheep	1 ml per 4 kg	20 litre	\$390
Ivomec.selenised	Sheep	1 ml per 4 kg	20 litre	\$390
Ivomec Injection	Cattle	1 ml per 50 kg	200 ml	\$130
	Sheep	0.5 ml per 25 kg	500 ml	\$279
	Pig	1 ml per 33 kg		
Ivomec Plus Injection	Cattle	1 ml per 50 kg	500 ml	\$300
Ivomec Pour-on	Cattle	1 ml per 10 kg	2.5 litre	\$275
	Deer	1 ml per 10 kg	5 litre	\$550
Ivomec Eprinex	Cattle	1 ml per 10 kg	250ml	\$51
	Deer	1 ml per 10 kg	1 / 2.5 / 5 litre	\$162 /\$349 /\$695
Ivomec Maximiser caps	Sheep	ewe (1 capsule)	(40 to 80kg)	\$3.08 per cap
		lamb (1 capsule)	(20 to 40kg)	\$2.66 per cap
Triton	Sheep	1 ml per 4 kg	5 / 20 Litre	\$205 / \$542
Triton Tape	Sheep	1 ml per 4 kg	5 / 10 litre	\$273 / \$388
Eqvalan Paste	Horse			\$20
Extender 100	Sheep		per ewe	\$2.61
Extender Junior			per lamb	\$2.44
Extender Se			per ewe	\$2.67
Extender SeCo			per ewe	\$3.04
Extender SeCo Junior			per lamb	\$2.61
Bloataid Dual			200 litre	\$1,127
Bloataid Super 45/11			200 litre	\$1,100
Bloataid Tracer Hi-Se			200 litre	\$1,329
Levamisole			20 litre	\$105
Nemadet	Sheep	1 ml per 5 kg	20 litre	\$149

Cattle Endectocides

Merial Ancare Ltd: (2008 prices)

Product	Dose rate	Unit size	Est Retail Price
Genesis Injection	1 ml per 50 kg	250 / 500 ml	\$134 / \$215
Genesis Pour-On	1 ml per 20 kg	1 / 2.5 / 5 /12.5litre	\$222 / \$429 / \$780 / \$1,430
Genesis Ultra Pour-On	1ml per 10kg	2.5 / 5 litre	\$429 / \$780
Eclipse Pour-on	1 ml per 20kg	1 / 2.5 litre	\$247 / \$586

S.E.V.S. (Springs Ellesmere Vet Services)

Genesis pour on	1 / 2.5 litres / 5 litres	\$283.20 / \$536.90 / \$976.20
Eprinex pour on	1 / 2.5 litres / 5 litres	\$196.50 / \$408.30 / \$734.20

Prices Exclude GST

Vaccines

Intervet Schering Plough Coopers:

	Dose rate	Unit size	Av. retail price
Nilvax (sheep)	26-65 kg = 4.0 ml, 66-80 kg = 4.5 ml & 81-90kg= 5ml	500 ml	\$74.22
Multine 5 in 1 (plain, selenised)	Sheep 2ml Cattle 4ml	250ml 500 ml	\$26.00 \$40.00
Lamb vaccine (plain/selenised)	2ml	250ml 500 ml	\$40.00 \$69.00

Leader Products:

Pink eye patches. 6 patches per packet, 12 pkts per carton	\$20.44 /carton
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A North Island Veterinary Service offers the following:

Rotavec Corona for Rota virus –2ml	\$6.93 per dose
Salvexin for Salmonella –2ml	\$0.80 per dose
Lepto booster (NB this is a Vet. administered cost)	\$1.78
Scabiguard for Scabby Mouth 250 doses / 150 doses	\$45.78 / \$28.35

S.E.V.S. (Springs Ellesmere Vet Services)

Campylovexin for vibriosis abortion - 2 shots initially then yearly.	\$0.73 / hd
Salvexin+B for Brandenburg abortion - 2 shots initially then yearly	\$0.90 / hd
Toxoplasmosis vaccine for sheep 1shot/lifetime	\$2.21 / hd
Yersinivax vaccine for Yersiniosis	\$2.46 / hd
Piligard - a vaccine to prevent pink eye in cows (2ml dose)	\$4.53 / hd

Bloat Control

Agmax Industries Ltd:

(\$20 freight fee for all orders under \$135)

Bloatbuster (Alcohol Ethoxylate)	20 / 100 / 200 litre	\$133.33 / \$613.33 / \$1,000
Anti-Bloat Plus	20 / 100 / 200 litre	\$115.56 / \$528.89 / \$866.67
Anti-Bloat No.2	20 / 100 / 200 litre	\$102.22 / \$462.22 / \$751.11

Merial Ancare Ltd: (2008 prices)

Blocare 4511	200 litre	approx \$1,140
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Growth Promotants

Elanco Animal Health:

Compudose 400 (steers and non breeding heifers)		\$12.00 per implant
Rumensin Capsules	per capsule	\$15
Rumensin Liquid (12,000 cow doses)	60 litre	\$1,050
Rumensin Trough Treatment (12,000 cow doses)	60 litre	\$1,125.00

Prices Exclude GST

2.3.3 Dips/Sprays/Ointments/Dressings

(See also contract dipping costs, *Section 2.4.7.*)

Merial Ancare Ltd: (2008 prices)

Product		Dose rate	Unit size	Est Retail Price
Flypel	Lambs/Hoggets	5 to 12 ml	5 litre	\$180
	Ewes/Rams	10 ml		
Fleecemaster			2 litre / 5 litre	\$162 / \$315
Xterminated 10			5 litre / 20 litre	\$83 / \$384
Cypercare		1 ml per 5 kg	1 / 4 / 20 litre	\$36/\$85/\$250
Tempor – lice	Cattle	6 ml per 100kg	1 litre / 5 litre	\$72 / \$250
Cyrazin Liquid	Sheep	2 l per 1000 l water	2 litre / 5 litre	\$171 / \$360
Cyrazin Spray-on	Sheep		10 litre	\$154

Elanco Animal Health:

Sheep ectoparasiticides lice control			
Extinosad Dip	5 litres (makes 5000 litres of jetting dip)		\$370

Intervet Schering Plough Coopers:

Dips:			Av retail price
Zenith/Blitz (Sheep)	Fly Jetting: 250ml per 100 litres	5 lit	\$324.44
	Fly/lice shower/plunge dip: 150ml per 100 litres		
Erase jetting liquid	Fly Jetting; 200ml per 100 litres Aids in the control of lice	5 lit	\$524.44

Pour-on Fly and Lice products

Intervet Schering Plough Coopers:

	Dose rate	Unit size	Average price
Zenith Spray-on (sheep)	Fly Zenith Spray-on kills maggots and provides long-term fly protection: 0-20kgs= 20ml, 21kgs + = 30ml & rams & heavy ewes = 45ml	20 litre	\$385.77
	Lice (off-shears): 0-30kgs = 15ml, 31-55kg = 20ml & 56-75kg = 25ml	5 litre	\$164.44
Wipeout (sheep)	Lice: 0-4mths wool growth = 2 ml per 10kg & 4-6 mths wool growth = 4ml per 10kg	11 litre	\$282.66
Vanquish (sheep)	Lice control wool length 0-4 mths adults =10ml, 4-6mths adults=15ml & 6-10mths adults = 20ml	10 litre	\$377.77
Magnum (sheep)	Lice: 15kg-20kg = 10ml, 21kg-30kg = 15ml, 31-55kg = 20ml, 56-75kg=25 ml & 75kg+ add 5ml per 10kg	20 litre	\$337.78
	Fly –0-35kgs = 34 ml & 36kgs + = 54 ml		
Blaze (Cattle)	Lice control for cattle: 1 ml per 20kg	2.5 litre	\$213.33
	Nuisance fly for cattle: 15 ml set dose	5 litre	\$373.33

Prices Exclude GST

PGG Wrightson Ltd:

Formalin	Weak - 1L per 50 L water Normal - 1L per 20 L water Strong - 1L per 10 L water	20/200L	\$88.51/ \$550.22
Formalin PGW		20/200L	\$76.45/ \$672.00

S.E.V.S. (Springs Ellesmere Vet Services)

Maggo	1 litre		\$93.60
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A South Island Veterinary service: Disinfectants:

Stericide	5 litre		\$61.70
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2.3.4 Metabolics/Antibiotics

(See also *Section 2.3.13* for mineral supplements, licks etc.)

A North Island Veterinary Service:

Product			Price
Glucalmag	milk fever complicated by grass staggers- Flexipack	500 ml	\$11.29
Glucalphos	milk fever complicated by acetonaemia or grass staggers and sleepy sickness in sheep	500 ml	\$13.69
Ketol Xtra	Ketosis in cattle and sleepy sickness in sheep/goats	5 litre	\$73.24
Magnesium Sulphate 20%		500 ml	\$9.60
Scour Powder (calves and cows) (Phoenix Diarrhoea)		500 g	\$8.44

A South Island Veterinary Service advises the following:

Selenium Treatment			
Selpour- rate depending on weight of animal			approx. \$96 for 2.5 litres

Copper Treatment

A North Island Veterinary Service charges the following, per cow:

Copperplan injection -200ml			\$0.62
Copacap 20g bolus			ea \$3.29
Costs per calf:			
Cobalt injection (Prolaject) -500ml			\$0.44
Copper capsule (Copacap 10 g)			\$2.22

Antibiotics (for cattle)

Mastitis treatment for cows in milk: (generally require a course of three tubes; sold various per box)

Strepcin High Potency (21 tubes per box)	per tube		\$6.75
Lactating Orbenin LA (24 tubes per box)	per tube		\$6.49
Mastalone (20 tubes per box)	per tube		\$7.82
Penalone MC (20 tubes per box)	per tube		\$5.60

Prices Exclude GST

A South Island Veterinary Service:

Dry Cow Treatment:

Cepravin	200 tubes per pack, also as single tubes	approx \$3.75 per tube
Engemysin	100ml	\$54.00
Excenel	100 ml	\$160.00
Metricure syringe	each	\$21.85
Pharmacillin (for routine retained foetal membranes, wounds, lame cows)	250ml 25ml dose (usual x3)	\$46.67 ea \$4.67

Elanco Animal Health:

Tylan Injection	(1ml per 20 kg bodyweight)	\$50.00 per 100 ml
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Bell-Booth Ltd:

Product	Pack Size	Price
Che'garl Original	2 / 5 / 15 / 20kg	\$29.60/\$45.20/\$129.00/\$146.00
Che'garl Liquide	1 / 5 / 20 litres	\$15.60/\$38.20/\$120.00
	100 plus litres bulk	\$5.60 per litre
Che'garl la Gorge (respiratory plus)	1.2kg	\$72.80
Che'garl Seaweed Meal	25kg	\$112
Che'garl Fresh Garlic Juice	1 / 5 litres	\$13.60/\$61.50
Che'garl Apple Garlic Cider	5/20/200 litres	\$29.50 / \$88.50 / \$638.00

2.3.5 Animal Health Services

Farmed Animal Practices – average fees (excl GST)

Farm Animal		average
Farm visit	Including first 15 minutes	\$52
	Extra fee per 5 minutes	\$12
	After hours (over and above usual fee)	\$43
	Re-visit	\$40
	Advisory visit per hour	\$150
Travel charge per km		\$1.20
Pregnancy test	Manual (per head)	\$2.43
	Manual (per hour including aging)	\$221
	Manual (per hour)	\$163
	Scanning (per hour)	\$243

Source: Survey by the New Zealand Veterinary Association Inc. 2007 No new survey since.

Deer TB Testing:

A company's charges for Deer Tuberculosis testing are as follows:

Field technician on farm	\$80 per hour plus	\$0.95 per km travel
Tuberculin	1 mg	\$0.50 per dose
Avian		\$1.50 per dose
Clipper hire		\$0.30 per head

Note: extra admin charges may apply. Check on current charges at the time of booking.

Prices Exclude GST

Develvetting:

A South Island Veterinary Service charges: -

Develvetting cost does not include drugs and price is dependent on number of animals and handling facilities. Charged out at a per five minute rate of approximately \$14.22 per animal.

Calf Debudding/Dehorning:

Ultra-Scan Ltd:

De budding (gas) – minimum of 20 calves + cost of anaesthetic, two technicians and two twin crates.	\$4.00 to \$5.00 per calf
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Facial Eczema Tolerance Testing Fees (for rams):

Ag Research Ruakura: Ramguard

No. of animals	Base Charge 30 kg	Surcharge \$/kg over 30 kg
0 to 8	\$113.00	\$3.27
9 to 12	\$106.29	\$3.04
13 to 16	\$99.58	\$2.82
17 to 20	\$92.87	\$2.60
21 to 30	\$86.16	\$2.37
31 to 40	\$79.45	\$2.14
41 to 50	\$72.74	\$1.92
51 to 60	\$66.03	\$1.71
61 to 70	\$59.32	\$1.48
71 to 100	\$52.61	\$1.25
>100	\$45.90	\$1.03

Surcharges: 1. \$3.15/mg of sporidesmin for dose rates >0.29

Returned Sporidesmin will be refunded

2. Weights above 30 kg

3. Charges for 2nd dose rate sporidesmin

Example

14 animals weighing on average 55 kg and being dosed at 0.50.		
Base charge	14 animals x \$99.58	\$1,394.12
Surcharge for weight	14 x 25 (Weight over 30kg) x \$2.82	\$987
Surcharge for Spdm	14 x 55 x 0.20 x \$3.15	\$485.10
	Total	\$2,866.22

Faecal Egg Counting:

FecPak International:

FecPak and SporPak Laboratory Testing Service.

Test pack - generic	\$8.89
Faecal egg count - individual or mob	\$7
Faecal egg count - 10 individuals	\$50
Faecal spore count - individual or mob	\$7
Faecal spore count - 10 individuals	\$50
Larval culture / Fluke culture	\$55 / \$25

Prices Exclude GST

Pasture spore count		\$7
FecPak and SporPak Units		
F100 Unit c/w microscope (FecPak or Sporpak option)		\$1,699
F100 without microscope		\$1,399
F200 Binocular Unit (FecPak or SporPak option)		\$1,999
Bolt On (FecPak or SporPak option)		\$250

2.3.6 Animal Health Equipment

Shoof International: (Prices include delivery on orders over \$75)

Spore counting kit for Facial Excema	5 pack	\$21.29
Drench Guns:		
Henke Drench-matic drencher	23ml / 30ml	\$194.67 / \$176.89
Genia large bore drencher	250ml	\$168
Drench bottle easy drencher	1.2 litre capacity	\$20.40
Plastic (manual) drencher	70ml to 300ml	\$73.73 to \$88.85
Genia (manual)	20ml to 250ml	\$105.77 to \$128.89
HSW Dmatic	10ml	\$114.67
IS Optimiser	12.5ml	\$62.18
IS V-Vaximate drencher	10ml	\$33.73
Calf drencher – back pack	4litre	\$88.00
Vaccinators:		
Ferromatic	5ml	\$265.78
Henke Pistol Grip	10ml / 30ml / 50ml	\$123.55
Henke Ecomatic	2 ml / 5ml	\$44.40 / \$53.28
Henke Vet-matic	5ml / 10ml	\$164.45 / \$230.22
Intra rumen injectors	Supershot / Defender	\$47.07 / \$45.02
IS LocknLoad	50ml	\$73.73
IS Optimiser range - pack	2ml to 12.5ml	\$27.73 to \$31.78
IS Vaximate	1ml to 5ml	\$16.84 to \$22.18
IS V-Vaximate	1ml to 10ml	\$17.73 to \$22.89
Bloat:		
Bloat knife		\$22.17
Trocar plastic screw	5mm to 10mm	\$28.40 to \$36.89
Trocar - stainless	9 to 12 mm	\$74.62 to \$39.06
Mastitis:		
Mastitis Test – Draminski (electronic)	Standard / memory	\$861.33 / \$1146.67
Concentrate mastitis test solution	1litre / 5litre	\$17.73 / \$71.06
Concentrate kits	Complete	\$39.95
Mastitis test paper	25 pack	\$7.96
Cow Hobbles:		
Webbing and rings	20 cm or 35 cm leg spacing	\$35.51/ \$38.18
Welfare approved	35 cm leg spacing	\$49.73
Leg Splints:		
BOS /Ozland ranges	Calf / hindleg / small cow / large cow	\$55.95 to \$75.75

Prices Exclude GST

Rumen Magnets:		
Bovivet		Each \$8.44
Bovivet introducer		\$44.40
Scrotal Measuring:	Tape	\$73.73
	60 cm plastic wand	\$48.90

PETA Enterprises:

Peta Bloat dispenser	pack 1 (24 hour), 1 dispenser	\$104.15
Peta Bloat dispenser	pack 2 (12 hour), 2 dispensers	\$213.09
Peta Multi-purpose solid dispenser *	for Mg, salt, trace elements, etc	\$186.46
Peta Zinc dispenser *	for zinc sulphate	\$199.22

*Available with either a 10 or 20 litre capacity.

Leader Products:

Sheep jetting handpiece		\$104.89
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Drench Gun Services Ltd:

Metal Injectors:

1 mL Automatic Poultry Injector	\$108.75
1 mL / 2 mL / 5 mL Automatic Injector	\$108.75
5 mL Automatic Lever Action Injector	\$178.75
5 mL / 10 mL Automatic Vaxmaster Injector	\$123.75
25 mL / 50 mL Repeater Injector	\$116.25
1mL / 2mL / 5mL automatic injector with bottle attachment	\$128.75

Metal Drenchers:

20 mL Automatic Drencher	\$128.75
30 mL Automatic Sheep Drencher	\$162.50
60 mL Cattle Drencher Automatic	\$178.75

Plastic Drenchers and Injectors:

1 mL / 3 mL / 5 mL / 10 mL Plastic Injector	\$23.75
1 mL Plastic Disposable Injector (box of 10)	\$131.75
(Also in 2 mL, 2.5 mL, 3 mL, 5 mL, 10 mL & mixed box)	
2 mL / 5 mL / 10 mL PUSH injector	\$37.50
12.5 mL Drencher/Injector	\$82.50
25 mL / 50mL Repeater Injector	\$93.75
20 mL / 30 mL / 60 mL Plastic Repairable Drencher	\$93.75 / \$93.75 / \$96.25
25 mL Plastic Drencher	\$47.50
30 mL / 60 mL / 150 mL Plastic Non-automatic Drencher	\$102.50 / \$102.50 / \$162.50

Pour-on Applicators

20 mL Metal POURite (Fan Nozzle)	\$123.60
30 mL XP30 X-Stream Plastic Repairable Pour-on	\$50.00
65 mL Plastic Repairable Pour-on	\$63.75

Jetting:

Dutjet Jetting Handpiece	\$175.00
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Prices Exclude GST

Accessories:	
20 mL Forestry Applicator	\$128.75
Floating Hook	\$92.50
5 litre Backpacks	\$50.25
5 litre Collapsible Backpack	\$26.19
Powered Instruments:	
Powermaster Powered Drencher and Injectors	from \$520.00

Shoof International (Instrument Supplies Ltd / Forlong & Maisey):

Vaccinators:	
Standard Vaximate 1ml, 2ml, 5ml	\$16.85 / \$17.73 / \$21.78
V-Handle Vaximate 1ml, 2ml, 5ml	\$17.73 / \$19.33 / \$22.18
V-Handle Injector (complete) 10ml	\$22.90
V-Handle Drencher (complete) 10ml	\$33.73
Drench Guns:	
‘Supershot’ Drencher (metal) 50ml	\$262.22
‘Defender’ Drencher complete (plastic) 20ml / 30ml	\$71.06
‘The Protector’ Drencher / Pour On Gun 25ml	\$70.18
Backpacks:	
Flexipack Back Pack (complete) 5 litre	\$26.62
Back Pack (complete) 4.5 litre	\$35.51

Numedic Ltd: Drenching Systems

Complete Systems:	
Unmetered drenching system – complete kit includes 140 litre tank, pump, filter, timer, 2 handguns, 30m of 20mm hose, 25m of 8mm hose, cable ties, cup hooks, masonry anchors and instruction booklet	\$2,805.00
Deluxe metered drenching system – includes above system plus metering head with separate bloat oil injection unit, regulators, gauges, air hose, air compressor, 2 litre reservoir, and low pressure 50 litre bloat oil tank	\$5,505.00
Upgrade Kits – to upgrade unmetered to deluxe metered	\$2,700.00
Accessories:	
Teat Spray 50 litre tank, regulator, gauge, hose etc (no gun)	\$555.00
Teat Spray gun	\$111.80
In-Line filter kit – boosts performance of older drench systems	\$159.40
Numedic hand gun - Standard Nozzle / Hooked Nozzle	\$140.00/\$144.00
24 hour mixing timer	\$44.50
Air compressor – 2.5hp	\$385.00

PGG Wrightsons Ltd:

Footrot trough FT1	\$143.11
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For calving and lambing equipment see *Section 2.3.15* (Stock Management)

Prices Exclude GST

2.3.7 Dog Expenses

Dog Registration Fees

These vary depending on the Local Body involved. Fees for pups depend on age. Prices include GST. Examples of some Local Body fees are:

Buller District Council

Entire/Desexed – Responsible owner	\$65 / \$53
Entire/Desexed - other	\$90 / \$78

Gore District Council

Rural Dog	\$15.00
Urban dog / Urban dog de-sexed and fenced (or controlled property)	\$110.00/\$80.00

Hastings District Council

Rural Dogs – full fee	\$59.00
Urban Dogs – full fee	\$140.00

Hauraki District Council

Working Dog -entire, first three dogs / subsequent	\$62ea / \$18.50
-desexed, first three dogs / subsequent	\$49 ea / \$18.50

Kaikoura District Council

Desexed / responsible dog owner	\$32.00 / \$29.00
Pet / working dog	\$45.00 / \$29.00
Three or more working dogs	\$89.00

New Plymouth District Council

2 rural dogs / and subsequent dogs	\$46.00 ea / \$24.00
Residential dog	\$117.00

South Taranaki District Council

Rural dogs (first 2 dogs) 3 rd and subsequent dogs	\$50 ea / \$45 ea
Urban dogs / de-sexed dogs / selected owner policy dogs	\$115 / \$95 / \$75

Waikato District Council

General dog owner/Approved owner	\$110.50 / \$65.00
Farm Owner/neutered dogs	\$31.00

Waitomo District Council

Standard Urban Fee/Spayed or Neutered in Urban area	\$90.00 / \$70.00
Rural dogs	\$30.00

Prices Exclude GST

Other Districts:

Working/Rural Dogs (rebates are often available on desexed dogs and for second or subsequent dogs)

Central Hawkes Bay rural/urban	\$34 / \$88	Tararua rural / urban	\$19 / \$64
Mackenzie rural/domestic	\$12 / \$60	Tasman rural / urban	\$27 / \$44
Marlborough urban de-sexed / working	\$48 / \$20	Timaru working / selected owner	\$30
Ruapehu domestic/desexed/working	\$75/\$50/\$22.50	Waimate rural dogs	\$35
Selwyn first / subsequent	\$30 / \$20	Westland urban / rural	\$72 / \$57
South Wairarapa rural / desexed rural	\$42 / \$31	Whangarei rural working	\$35

Dog Feed – see *Section 2.3.13*

2.3.8 Breeding Expenses

The average or range for each region is as follows:

Sheep and Beef	(per su)
Northland	\$0.44
Waikato/Bay of Plenty Intensive	\$0.00
Central North Island Hill Country	\$0.00
Gisborne Hill Country	\$0.00
Hawkes Bay/Wairarapa Hill Country	\$0.60
Eastern Lower North Is Intensive	\$0.44
Western Lower North Is Intensive	\$0.00
South Island High Country	\$0.20
Canterbury/Marlborough Hill Country	\$0.00
Canterbury/Marlborough Breeding and Finishing	\$0.00
Otago Dry Hill	\$0.00
Southland/South Otago Hill Country	\$0.00
Southland/South Otago Intensive	\$0.42
National	\$0.17
Dairy	(per cow)
Northland	\$34
Waikato/Bay of Plenty	\$42
Taranaki	\$37
Lower North Island	\$41
Canterbury	\$42
Southland	\$40
National	\$41
Deer	(per su)
North Island	\$0.41
South Island	\$0.48

Source: *MAF Pastoral Monitoring Report - 2009*

Prices Exclude GST

Artificial Breeding (Dairy Cows):*Livestock Improvement Corporation:***Nominated Semen Options**

Insemination fees for nominated semen are \$6.10 per insemination for up to and including 300 inseminations, then \$5.79 from 301 to 600 inseminations, and \$5.49 from 601 upwards.

DIY training \$682 for a five day course. Extra training for DIY clients, \$177.35 per day.

Leasing of deep freeze banks; \$95 fixed fee plus \$10.50 per week or part thereof (subject to availability of banks), plus nitrogen. A non - refundable deposit of \$45 is charged on application for lease.

Semen storage, 50 cents per straw per year. Minimum charge \$50 charged annually.

Semen dispatch fees for LIC semen: DIY clients will be charged a dispatch fee of \$28 per mating period, i.e. at the end of autumn and at the end of spring. These fees are charged directly to the client.

Transfer fee (handling fee) of \$28 per order for semen in storage that is transferred from one participant code to another.

Premier Sires

	AB Technician Service \$/insemination	DIY Operators \$/straw
0 to 100	\$20.60	\$19.60
101 to 200	\$19.70	\$18.70
201 to 300	\$18.70	\$17.70
301 to 400	\$17.80	\$16.80
401 to 500	\$17.00	\$16.00
501 to 600	\$16.20	\$15.20
601 to 700	\$15.50	\$14.50
701 to 800	\$14.90	\$13.90
801 to 900	\$14.30	\$13.30
901 to 1000	\$13.80	\$12.80
1001 to 1100	\$13.40	\$12.40
1101 to 1200	\$12.80	\$11.80
1200 plus	\$12.35	\$11.35

Charges are based on one hundred inseminations (or part of) depending on the number on inseminations to Premier Sires. For example for 320 cows, AB Technician Service Premier Sires inseminations would be charged as follows:

1 st 100 inseminations @ \$20.60	\$2,060
2 nd 100 inseminations @ \$19.70	\$1,970
3 rd 100 inseminations @ \$18.70	\$1,870
4 th 20 inseminations @ \$17.80	\$356
Total: 320 inseminations	\$6,256

Prices Exclude GST

Cattle Embryo Transfer Fees:

1. Flush Price Per Donor Cow	
For 4 or more Donors in a programme	\$130 per donor FSH plus \$ 300 per donor flush
For 3 Donors in a programme	\$130 per donor FSH plus \$ 350 per donor flush
For 2 Donors in a Programme	\$130 per donor FSH plus \$ 400 per donor flush
For 1 Donor in a programme	\$130 per donor FSH plus \$ 450 per donor flush
2. Fee per Embryo transferred	\$ 90.00
3. Freezing and thawing	
To freeze each embryo (NZ use):	\$45.00
Freezing for Export:	\$55.00
Thawing and transfer per embryo: 1 to 9 Embryos:	\$110.00
10 to 20:	\$90.00
Above 20:	\$70.00
Quick Thaw embryos: Up to 10:	\$90.00
Above 10:	\$60.00

4. In Centre: You can send your donor cows to our centre in Kaiapoi or Hawkes Bay for their programmes. Charges as above plus add Programming and grazing charges.

Grazing	\$35per head per week
Programme and AI : 1 donor	\$160 per donor
2 donors	\$140 per donor
3 donors	\$130 per donor
4 donors	\$120 per donor

Recipients: currently \$1,260, plus \$35 per embryo transferred for synchronisation costs.

5. Other: The above prices do not include synchronistaion drugs etc for the donor & recipient cattle, GST, travel, mileage, or, where necessary, accommodation & meals.

Mileage is charged per kilometre at: 75 cents

6. Export: Due to the high cost imposed by MAF Agriquality and Biosecurity to maintain export status of centres we must impose an addition export fee of \$350 per client per shipment in addition to the normal freight and MAF export charges.

This fee only covers centre licensing and inspection costs.

Donor cows should be examined by your vet prior to commencing the programme.

Bull Semen Collection:

Xcell Breeding Services Ltd.

Frozen semen collection and processing:

On farm unlicensed	mileage at \$1.00 per km plus \$4.00 per straw	
On centre licensed	200 to 250 straws (per straw)	\$4.00
	251 to 500 straws (per straw)	\$3.50
	501 to 1000 straws (per straw)	\$3.00
	1000 plus straws (per straw)	POA.

Grazing at \$6.50 per head per day is also charged. Health testing/Diagnostics at \$375 per bull.

Prices Exclude GST

Pregnancy Detection:

Refer to *Section 2.4.9* for sheep and cattle

Deer

Pregnancy Test	\$3.20 per head when over 100 are tested \$4.05 for less than 100 animals
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Sheep / Goat Reproduction:

Xcell Breeding Services Ltd:

Frozen semen collection and processing:

On centre projects

0 to 200 straws	\$6.00 per straw
200 to 500 straws	\$4.50 per straw
500 plus straws	\$ 4.00 per straw

Grazing at \$2.50 per head per day is also charged.

Export projects may carry special charges – apply for details.

Genetic Gains Ltd:

Intrauterine AI	Fresh or frozen semen	
	10 or less ewes	\$30/ewe plus mileage
	11 to 20 ewes	\$25 / ewe plus mileage
	21 to 35 ewes	\$20 / ewe plus mileage
	More than 35	\$17 / ewe plus mileage
	Extra CIDRs	\$4.50
	PMSG	Approx \$215 for up to 100 ewes
Multiple ovulation and embryo transfer		
	With 5 or more donor animals	\$30 / donor AI'd \$300 / donor flushed \$100 / recipient implanted \$4.50 / recipient synchronised
		Plus mileage and accommodation if required.

2.3.9 Sire Purchases

Sheep

See also *Section 1.2.10* for ewes, two toothed and lambs

Rams

The following are approximate values for flock rams: (Use as a guide only)

Dorset Down	\$300 to \$550
Corriedale	\$300 to \$700
Polled Dorset	\$300 to \$650
South Dorset Down	\$300 to \$500
Perendale	\$400 to \$700
South Suffolk	\$300 to \$550
Border Leicester	\$400 to \$650
Suffolk	\$300 to \$550

Prices Exclude GST

Borderdale	\$300 to \$650
Romney	\$450 to \$1,200
Coopworth	\$450 to \$1,200
Merino	\$400 to \$750

Exotic Breeds:

The following figures are some approximate values for flock rams:

	Range
Texel:	
Purebred	\$400 to \$1,000
East Friesian:	
Purebred	\$600 to \$1,100
½	\$400 to \$700
Finnish Landrace: ½ bred	\$400 to \$700
Kelso Maternal	\$600 to \$1,000
Kelso Ranger	\$300 to \$800
Rissington Primera	\$800
Highlander	\$800

Beef Cattle

Bulls – Beef bulls vary much in price depending on breed, qualities desired, etc.

Run Bulls at Name auctions -

Angus	\$2,200 to \$30,000
Hereford	\$2,200 to \$25,000
Charolais	\$2,200 to \$16,000
Simmental	\$2,200 to \$12,000
Beef Shorthorn	\$2,200 to \$10,000
Stabilizer	\$2,500 to \$7,000

Run Bulls from second tier studs are usually in the range of \$2,000 to \$7,500

Beef Breeding

Cows, Heifers, Steers – see *Sections 1.4.5 and 1.4.6*

Dairy Cattle

See *Section 1.5.5*.

Deer

(i) Stags

The average price for breeding and terminal stags (red deer and elk) is in the region of \$2,000 to \$5,000. Stud stag prices would be in the region of \$3,000 to \$10,000+ depending on whether they were for velvet or trophy lines.

(ii) Hinds, Weaners, Yearlings, Velveting Stags

See *Section 1.6.4*

Goats

See *Section 1.7.6*

Pigs

See *Section 1.8.3*

Alpacas and Llamas

See *Section 1.9.3*

Prices Exclude GST

2.3.10 Herd Testing Charges

Livestock Improvement Corporation

Herd Testing fees include a visit fee plus a test fee as detailed below:

1 st herd test	\$280 plus \$1.65 per cow
2 nd herd test	\$250 plus \$1.65 per cow
3 rd herd test	\$145 plus \$1.65 per cow
4 th and subsequent herd test/s	\$70 plus \$1.65 per cow

Where a herd is milking through two dairies on one property, the visit fee for the second dairy can be discounted by 50%. To qualify for this discount, the samples from each milking must be sorted as one herd test in numerical order; and all herd test equipment must be washed and left with the samples at the one agreed collection point. Extra fees may apply where additional costs are incurred by *Livestock Improvement*.

InvestaTest

Qualification for Investatest is 4 herd tests in a season. The discount is received after the fourth herd test and is applied to herd test costs the following year. The InvestaTest discount applies to visit and per cow test fees only. The 2009/2010 season discount levels are:

1 st year	3 %
2 nd year	5 %
3 rd and subsequent years	10 %

2.3.11 Dairy Shed Expenses

Average total dairy shed expenses

Dairy shed budget figures should ideally be based on farmer estimates and past records of farm expenditure. Where such information is not available, the following figures may serve as a guide for budgeting purposes. These do not include animal health or electricity (See *Sections 2.3.1 and 2.5.1*)

	per cow
Northland	\$27
Waikato/Bay of Plenty	\$23
Taranaki	\$24
Lower North Island	\$25
Canterbury	\$19
Southland	\$18
National	\$22

Source: MAF Pastoral Monitoring Report –2009

Detergents and Sanitizers

Agmax Industries Ltd:

Dairy hygiene products: (\$20 freight fee for all orders under \$135)		
Alkali sachets powder 100 / 150 / 250g	15 kg / 25 kg	\$97.78 / \$128.89
Acid sachets powder	15 kg / 25 kg	\$93.33 / \$120
Contact acid detergent-sanitiser	20 / 100 / 200 litre	\$71.11 / \$262.22 / \$440
Ultrasan acid detergent-sanitiser	20 / 100 / 200 litre	\$97.78 / \$364.44 / \$631.11
Multiwash 900 liquid chlorinated alkali	20 / 100 litre	\$62.22 / \$248.89

Prices Exclude GST

Vat cleaner	Full kit	\$62.22
Replacement concentrate	5 / 20 litre	\$35.56 / \$84.44
Replacement tray, roller and sleeve set		\$14.22
Replacement sleeve		\$5.33
Hygiene test kit		\$26.67

Aakland Chemicals Ltd:

Low foam Dairykleen acid detergent sanitiser	25 / 100 / 200 litre	\$102 / \$377 / \$619
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Dairy Ointments, Soaps and Teat Sprays

Agmax Industries Ltd:

Teatspray products: (\$20 freight fee for all orders under \$135)		
Teatsweet (sachet packaged)	5 kg / 12 kg	\$249 / \$551
Iodine teatspray	20 / 100 / 200 litre	\$145 / \$649 / \$1147
Teatspray 'Plus' (Chlorhexidine based)	20 / 100 / 200 litre	\$111 / \$511 / \$884
Emollient products:		
Titivate emollient	20 / 100 / 200 litre	\$93 / \$427 / \$733
Sorbitol emollient	20 / 100 / 200 litre	\$76 / \$338 / \$533
Glycerine	20 / 100 litre	\$120 / \$600

Merial Ancare Ltd: (2008 prices)

Teatcare Plus	200 litre	approx \$1050
Teatcare	20 litre	approx \$144

DeLaval:

DeLaval Teatsan	20 litre	\$192.80
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Bell-Booth Ltd: Elthamol Hygiene Products

	Pack Size	Price
Teat Salve	1.7 / 3.4 / 8.5 / 17kg	\$17.75 / \$32.05 / \$75.60 / \$144.40
Glycerine	5 / 20 / 200 litre	\$30.50 / \$114.00 / \$1,058.00
Work Soap	500ml pump / 1 litre / 5 litre	\$10.20 / \$14.50 / \$62.50
Pit Mitt	One size	\$17.30

Dairy Shed Equipment

Agmax Industries Ltd:

(\$20 freight fee for all orders under \$135)

Cambrian teatsprayer	5 litre capacity	\$66.67
Dairy apron	Medium weight PVC	\$24.89

Leader Products:

Udder Sprayers:		
Udder gun - portable		\$29.33
Handspray jetspray nozzle - portable		\$45.33
Handspray teat wash nozzle - portable		\$10.67

Prices Exclude GST

PGG Wrightson Ltd:

Mastitis detector REM005 / V2000 REM200	\$41.16 / \$197.33
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Milfos:

Milfos Blower vac. pumps	4,000 to 8,000l	\$4,280 to \$6,000
Milfos NZ liner	10 series	\$6.00
Milfos USA liner	20 series	\$6.00
Milfos European liner	50 series AL10, AL90, AL360	\$6.50
Milfos IC257		\$162.00
Milfos IC330		\$180.00
Yellowline / Omni air tube	1220mm to 20m	\$6.25 to \$108.00
Yellowline / Omni twin tube	1220mm to 20m	\$8.00 to \$116.00
Yellowline / Omni milk tube	1220mm to 20m	\$9.30 to \$185.00
Yellowline claw tube	165mm to 18.3m	\$1.40 to \$65.00
Suction tube	22mm to 35mm	\$82.00 to \$150.00
Milfos milk pump	0.75 to 1.5kW	\$1,722 to \$1,955
Milk pump controllers	On/off control	\$780 to \$2,335
	Flow control	\$2,450 to \$3,625
Milk filter (each)		\$495 to \$1,510
Filter sleeve (per 100)		\$32.30 to \$111.60
Filter sock (per 100)		\$39.70 to \$127.00
Milk cooler	Single Bank (18 to 104 plate)	\$1,038 to \$3,190
	Industrial (3,000 to 10,000l)	\$4,350 to \$5,640
Receiving can	Systemax 3000 C/P	\$2,060
	Systemax Loop can	\$2,290
Test buckets	Plastic / stainless steel	\$205 / \$310
Mastitis detector C/P		\$62.10
Jetter	Milfos	\$90.00 to \$98.00
Porta check SCC milk test	Disposable test kit for SCC	
	24 test kit	\$60.00
	100 test kit	\$210.00
	Digital reader	\$950.00
	Variflo	\$66.00 to \$94.50
Washline injector	Herringbone / Rotary	\$935 / \$1,240
Hot water cylinder	Galvanised	\$1,595 to \$4,811
	Stainless steel case	\$1,755 to \$3,040
Auto teat sprayer		\$3,795 to \$7,500
Plant wash systems	iNTELWASH	\$6,500 to \$7,500

Shoof International: (Prices include delivery on orders over \$75)

Teat sprayer compact		\$17.73
Teat sprayers short and long	1 litre	\$12.40 / \$13.29
Teat sprayer short / long nozzle (Viton)		\$20.40
Matabi Compression sprayer	1 litre	\$62.17
Tecnomat side fill, Teat sprayer	1L / 500ml	\$22.17

Prices Exclude GST

Teat dip cups:			
Nunc	250 ml		\$20.40
Non-return / Vordin	350 ml	\$20.40 /	\$17.73
Kick stop - complete			\$31.06
Quartermilker complete	8 litre		\$61.33

Onga (N.Z.) Limited Davies & Onga Pumps:

Dairy Wash Down

Hi Flow Self Priming Cast Iron Centrifugal Pumps

Model	182	1500W	50psi	240v	\$1,271
	183	2400W	59psi	240v	\$1,536
	184	3800W	71psi	415v	\$2,013
	185	6000W	77psi	415v	\$2,548

Dairy Shed In-Place Cleaning

Stainless Steel Centrifugal Pumps

Model	OCS 401	\$724.00
	OCS 403	\$891.00

McNeill Pumping Co Ltd:

Dairy shed wash down pumps

Dairy Blaster range	kW	Pressure	litres per minute	
	4.0	43psi	415	\$2,080
	5.5	50psi	530	\$2,546
	7.5	37psi	1330	\$2,815
	11	50psi	1350	\$3,698
Variable speed washdown pumps				
	5.5	38psi	833	\$7,011
	7.5	70 / 37psi	500 / 1330	\$7,888
Dairy shed vat wash				
V W 4	0.73	36psi	85	\$903
V W 8	1.04	30psi	135	\$1279
V W 12	1.09	22psi	200	\$1332

Note: For the cost of complete dairy shed units see *Section 2.21.2*

Annual Certification

All farm dairies supplying to Fonterra must be assessed each season. All NZ farm dairies producing milk for human consumption must have in place a Risk Management Programme (RMP) approved by the New Zealand Food Safety Authority (NZFSA). This RMP will include an annual Farm Dairy Assessment. Recognised quality management system (eg BOFP, TQM) fee is \$0 (it is paid by the Dairy Company). For farms not running Best On Farm Practice, the Farm Dairy HACCP inspection / assessment fee is approximately \$150. For farms with milk grading issues, the Grade traceback visits costs range from \$200 to \$600. In some cases these milk grading traceback costs may be recoverable through the Demerit relief System.

Prices Exclude GST

2.3.12 Calf Rearing

Cost of Calf Rearing (*Source: J. K. Margerison, Massey University, October 2009*)

Feed Costs for Friesian calves over first 10 weeks of life:

(i) Restricted Milk and Pasture

Daily gain over 10 weeks – 0.8 kg per day

Live weight at 10 weeks – 90 kg

Whole milk:	5 litres per day for 70 days	350 litres @ 45¢	\$157.50
Pasture:	0.4 kg DM per day for 70 days	28 kg @ 18¢	\$5.04
			\$162.54

(ii) Early Weaning

Daily gain over 10 weeks – 0.8 kg per day

Live weight at 10 weeks – 90 kg

Whole milk:	5 litres per day for 42 days	210 litres @ 45¢	\$94.50
Calf Meal (18% CP):	0.8 kg per day for 70 days	56 kg @ 75¢	\$42.00
Pasture:	0.4 kg DM per day for 70 days	28 kg @ 18¢	\$5.04
			\$141.54

(iii) Ad Lib Milk

Daily gain over 10 weeks – 1.1 kg per day

Live weight at 10 weeks – 110 kg

Whole milk:	8 litres per day for 42 days	336 litres @ 45¢	\$151.20
Calf Meal (18% CP):	0.8 kg per day for 25 days	20 kg @ 75¢	\$15.00
Pasture:	2 kg DM per day for 28 days	56 kg @ 18¢	\$10.08
			\$176.28

(iv) High protein meal/straw

Daily gain over 10 weeks – 1.0 kg per day

Live weight at 10 weeks – 100 kg

Whole milk:	2 litres per day for 35 days	70 litres @ 45¢	\$31.50
Milk powder:	250 g per day for 35 days	8.75 kg @ \$4.00	\$35.00
High Protein Calf Meal (20% CP):	Ad lib	125 kg @ 85¢	\$106.25
Straw:	Ad lib	1 bale @ \$4.00	\$4.00
			\$176.75

Feeding Equipment

Agrifeeds Ltd:

	North Island	South Island
Agri-feeders	\$193.00	\$193.00

McInnes Manufacturing Ltd:

Milk Feeders	
Milk Bar Teat (10 per pack)	\$3.37ea
Milk Bar Bottle	\$26.66
Milk Bar 1 to 12	\$35.55 to \$222.21
Milk Bar compartment 2 to 10 spaces	\$66.66 to \$231.10
Milk Bar 40 to 60 – single or tandem axle 500/750 litre	\$3,199.99 to \$4,844.44
Milk Bar teat tool	\$79.99
Milk Bar Lamb – Kid 1/ 3 / 7 / 10 spaces	\$32.88 / \$ 35.55/ \$79.99/\$119.99

Prices Exclude GST

lamb/kid 5 teat compartment	106.66
Meal – Pellet Feeders:	
Braden Start Nipple	\$6.84
Braden Start Bottle	\$35.55
Snack Bar	\$53.32
Munch Trough	\$88.88
Bird Proof Meal Bar	\$235.55
Waterers and accessories:	
Snack Water Trough	\$75.55
Portable Water Trough	\$119.99
McInnes Float Valve	\$31.10
McInnes Dispenser – Single	\$577.77
McInnes Dispenser – Tandem	\$1,022.21

Shoof International: (prices include delivery on orders over \$75.00)

Pigs:

Plastic Nursery Feeders	24 / Kane	\$88.84 / \$176.89
Creep Bowl Stainless / Plastic		\$53.29 / \$57.78
Waterers / Medicator Kane Piglet	- for piglets	\$61.33
Water Nipples Fattener	15mm / 20mm	\$9.73 / 12.40
Stomach Feeder Piglet		\$13.28

Lambs:

Kid/Lamb Feeder Excal bottle complete	\$6.18
Kid/Lamb Feeder Rail Bucket 10-place	\$105.78

Calves:

Calf Feeders	Milk Train 2-place	\$44.44
	Easy Feeder	\$17.73
	Rail Bucket 6-place	\$71.07
	M1 feeder (wall / rail mounted)	\$31.07 / \$35.51
	Speedy Feeder	\$26.62
Colostrometer	Milk tester Kruuse	\$47.07
Meal Start Feeder	Fill bottle for pellets/meal/grains etc	\$53.29
Teats	Soda bottle (calf)	Each \$4.69
Electric Milk Warmer	Standard or Teflon	\$532.45/\$621.13
Milk Powder Whisk	45 / 60 cm	\$35.95/ \$42.62
Milk Powder Mixer		\$35.51
Milk Powder Plunger	Varieties	\$60.40 to \$114.67

Poultry:

Poultry Drinker	3 / 5 / 10 litre	\$9.73 / \$12.40 / \$25.73
Poultry Feeder	2 to 15 kg	\$11.51 to \$38.18

Leader Products:

Stock feeders:	Calfeteria teats	\$1.60
	Pig nipple drinker 5"	\$9.33

Prices Exclude GST

PGG Wrightson Ltd:

Calf Feeder Milk Maid 5 teat 25 litre	\$127.11
Calfeteria 12 teat 80 litre	\$152.89
Calf Feeder 16 teat compartment	\$200.00
MM50S Calf feeder 50 teat compartment, 450 litre, single trailer	\$3,982.22
Calf feeder 50 teat compartment, 450 litre, tandem trailer	\$4,761.78
Trough, Breakfeed complete, 150 litre / 300 litre	\$313.78 / \$244.44
Calf pen meal trough 20 litre	\$49.78
Concrete trough, 500 litre / 200 gallon	\$226.67 / \$271.11
Dosatrough Dispenser 5litre / 9litre	\$96.00 / \$106.67
Meal trough	\$88.80
Molasses lick trough	\$297.78
Dog water bowl / concrete	\$71.06 / \$31.12

Other Calf Rearing Equipment

Shoof International: (Prices include delivery on orders over \$75)

Milking Apron Lightweight	\$42.22
Debudders LPG Heavy Duty	\$297.78
Aber LPG	\$354.67
Vulcan Gas Cordless	\$416.89
Portasol Gas Cordless	\$422.22
SAMS electric high powered	\$399.11
Electric other models	\$248 to \$292.44
Barnes Dehorner 32cm economy/quality/ stainless st	\$35.51 / \$106 / \$93.33
42cm economy/quality	\$44.40 / \$146.67
Debudding Paste Hornex 20 g tube	\$12.40
Calf neck bands 10 pack various colours	\$11.51 to \$13.28
Calf mothering double collar	\$35.56
Calf handling rope	\$28.89
Calf leads (nylon or leather)	\$11.51 to 13.29
Calf collar leather	\$15.07

Quickheat:

Thermocare animal warming pads (230 volt)	
400 x 500mm	\$63.00
450 x 750mm / 450 x 1200mm	\$78.00 / \$93.00
600 x 750mm / 600 x 1200mm / 600 x 1520mm	\$80.00 / \$110.00 / \$132.00

For calf shelters and sawdust for calf sheds see *Section 2.21.13*.

2.3.13 Feed and Nutrition

Milk Replacers

Bell-Booth Ltd: Calf Nutrition and Probiotic

Queen of Calves 20kg	\$145.00
Rearing to go mixing system	\$1,120.00
X-Factor 5kg / 20kg	\$96.00 / \$299.00

Prices Exclude GST

<i>CRT Feed Barn (Reliance Feeds):</i>		
Reliance Calf Milk Powder	20 kg	\$78.75
Reliance FeedMilk	2 / 5 / 10 /	\$20.00 / \$34.50/\$68.90

<i>Elanco Animal Health:</i>		
Rumensin Premix (Coccidiosis control and rumen modifier for dairy and beef cattle)		\$285 per 25 kg bag

<i>Livestock Supplies (N.Z.) Ltd:</i>		
New Generation calf milkpowder	20kg	\$65.45

<i>PGG Wrightson Ltd:</i>		
Anlamb	5 / 10 / 20kg	\$32.44 / \$53.33 / \$86.67

<i>S.E.V.S:</i>		
Ultralac Milk Powder (lambs)	10kg	\$110

<i>Technik Products: (PCL Industries Ltd)</i>		
Bloom for Calves	2 kg / 10 kg	\$25.27 / \$91.00

Mineral/Nutritional Supplements
(See also *Section 2.3.4* for metabolics)

<i>Agrifeeds Limited:</i>			
		North Island	South Island
Himag – Cattle	250kg drum	\$195 to \$205	\$195 to \$205
	5-15 tonne	\$435 to \$505	\$415 to \$495
Calcium Enriched Molasses	5-15 tonne	\$400 to \$480	\$405 to \$450
	250kg drum	\$200 to \$210	\$200 to \$210
Molasses - feedgrade	5-15 tonne	\$390 to \$435	\$380 to \$445
	250kg drum	\$158 to \$180	\$158 to \$180
	25kg	\$48 to \$53	\$48 to \$53
Molasses – Blackstrap	5-15 tonne	\$420 to \$465	\$410 to \$475
	250kg drum	\$168 to \$190	\$168 to \$190
	25kg	\$51 to \$55	\$51 to \$55
Rumag – Cattle only	5 – 15 tonne	-	\$490 to \$555
Rumag 300	5 – 15 tonne	\$465 to \$535	\$450 to \$525
Rumol 300	5 – 15 tonne	\$425 to \$505	\$405 to \$480
Zinmol	5-15 tonne	\$470 to \$545	-
Cidamol	5-15 tonne	\$430	-
Magnesium Sulphate	1 tonne	\$380 to \$460	\$450 to \$530
Sodium Bicarbonate	1 tonne	\$920 to \$993	-
Calcium Chloride flakes	1 tonne	\$680 to \$720	\$680 to \$720
Hyfat (99% palm oil beaded)	1 tonne	\$2,210 to \$2,280	\$2,210 to \$2,280
Rumensin Premix powder	25kg bag	\$235 - \$245	\$235 to \$245
Agrimag	1 tonne	\$670 to \$750	POA

Prices Exclude GST

Biochlor	1 tonne	\$1,729 to \$1,798	\$1,729 to \$1,798
Magnesium Chloride prills	1 tonne	\$465 to \$535	-
Magnesium Chloride flake	1 tonne	\$465 to \$535	\$465 to \$435
Mono Propolyene Glycol	20 litre	\$106 to \$110	\$106 to \$110
	200 litre	\$695 to \$706	\$695 to \$706
Grapple	4 litre	\$82.30 to \$86.70	\$82.30 to \$86.70
	10 litre	\$179 to \$186.50	\$179 to \$186.50
	20 litre	\$325 to \$330	\$325 to \$330
	100 litre	\$1,299 to \$1,310	\$1,340 to \$1,360

Bell-Booth Ltd: Nutrimol

Colostrum Keeper	5 litre / 20 litre / 200 litre	\$31 / \$78 / \$650
Classic (60 minerals)	1 litre / 5 litre / 20 litre / 200litre	\$17.80 / \$64.50 / \$220 / \$1,932
Dosatron inline water dispensers	Model 2000 0.2% to 1.6%	\$1,311.00
	Model 8000 0.2% to 2.0%	\$2,755.00
Caramillo masking agent	2 / 5 / 20 / 200 litre	\$29.90 / \$68.00 / \$219 / \$1,885.00

Trace Elements (drench or dose stock water)	Pack size	Price per bag
Calcium	20 / 200 litre	\$105.00 / \$700.00
Cobalt	20 / 200 litre	\$183.00 / \$1,445.00
Copper	20 / 200 litre	\$173.50 / \$1,288.00
Iodine	20 / 200 litre	\$199.00 / \$1,590.00
Magnesium Sulphate	200 / 1000 litre	\$722.00 / \$2,835.00
Magnesium Chloride	200 / 1000 litre	\$825.00 / \$3,140.00
Selenium 2.5	20 / 200 litre	\$91.00 / \$602.50
Selenium 5	20 / 200 litre	\$128.00 / \$884.00
Copper Chelate	20 / 200 litre	\$376.50 / \$3,315.00
Zinc Chelate	20 / 200 litre	\$369.00/ \$3,220.00

Stockhealth Products: Organic products

Cider vinegar / organic	20 / 200 litres	\$59.00 / \$467.00
Cider vinegar / garlic / organic	20 / 200 litres	\$66.00 / \$529.00
Cider vinegar / garlic / manuka honey / organic	20 / 200 litres	\$76.00 / \$629.00
Cider vinegar/garlic/seaweed	20 / 200 litres	\$96.00 / \$695.00
Non organic. Double Strength		
Cider vinegar	20/200/1000L	\$46.20/\$415/\$1,730
Cider vinegar / garlic	20/200/1000L	\$49.50/\$440/\$1,890
Cider vinegar / garlic / manuka honey	20/200/1000L	\$59/\$540/\$2,390
Cider vinegar/garlic/seaweed	20/200/1000L	\$79.50/\$595/\$2,590
Garlic puree	20L	\$85.00

PGG Wrightson Ltd:

Calcined Magnesite - dosage 50 to 100g per cow per day	\$567.11 per 1,000kg bag
Magnesium Chloride flake - dosage 80 to 120g per cow per day	\$12.08 per 25kg

Prices Exclude GST

Omnia Primaxa Ltd:

Tracemol	5 / 25 /200 litre	\$41 / \$139/ \$1,265
Toptrace	200 litre	\$1,290

Livestock Supplies (N.Z.) Ltd:

Bentonite – Granular / Trubond (fine)	\$0.50 / \$0.50 per kg
Berger Fat	\$2.50 per kg
Bicarbonate of Soda	\$1.00 per kg
Calcium chloride	\$1.00 per kg
Chromium potassium sulphate	\$12.06 per kg
Copra meal	\$0.66 per kg
Dextrose	\$2.65 per kg
Diamond V yeast	\$4.55 per kg
Dicalcium phosphate	\$1.30 per kg
Garlic powder	\$8.00 per kg
Manganese Sulphate (feed)	\$2.20 per kg
Molasses – Calcium enriched	\$0.94 per kg
Molasses – Liquid (over 100kg costs \$0.40 per kg)	\$0.44 per kg
Molasses – Palabind	\$1.65 per kg
Mono Propylene Glycol	\$4.24 per kg
Seaweed – Meal	\$3.50 per kg
Vitamin A 500,000 <i>iu</i> /gm	\$140.00 per kg
Vitamin A.D.E.	\$46.30 per ltr
Vitamin B2 / Vitamin C	\$150 per kg / \$46.00 per kg
Vitamin D3 500,000 <i>iu</i> /gm	\$65.00 per kg
Vitamin E 500 <i>iu</i> /gm	\$80.00 per kg

CRT Feed Barn (McMillans Equine):

Product	Quantity	Price
Calcium	2 kg	\$5.00
Cider Vinegar/Organic	2 litres	\$13.00
Cider Vinegar/Garlic/Honey	2 litres	\$14.50
Electrolyte	2.5 kg / 5kg	\$39.00 / \$66
Iron Tonic	1 litre / 5 litre	\$34.84 / \$108.87
Garlic	1 kg	\$9.50
Kelp	2 kg / 25 kg	\$13.95 / \$110.00
Linseed Oil	2 litre	\$14.50
Molasses (dried)	2 kg	\$7.50
Molasses (black strap)	2 litre / 5 litre / 20 litre	\$5.50 / 10.50 / \$32.00
Soya Oil	2 litre / 20 litre	\$10.00 / \$79.00
Vitamins and minerals	4 kg / 25 kg	\$9.50 / \$57.00

Prices Exclude GST

PGG Wrightson Ltd:

Product	Price per unit
Hi Energy Feed 50kg	\$75.29
Summit Copper Sheep Salt Block 20kg	\$24.89
Multi Mineral Salt Block 20kg	\$20.22
Multi Feed Block 20kg	\$23.20
Deer Feed Block 20kg	\$25.06
Hi Pro Cattle blocks 20kg	\$24.36
Teric Bloat Block	\$46.58
Liq Bloat Block 15kg	\$39.91

Salt

Agrifeeds Ltd: (North Island only)

Salt all grades	1 tonne	\$369 to \$435
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Livestock Supplies (N.Z.) Ltd:

Cattle Salt Blocks	20 kg	\$14.75
Sheep Salt Blocks	5 kg / 20 kg	\$4.75 / \$14.00
Plain Salt Blocks	20 kg	\$11.50
Organic Hi Mineral Salt Blocks	20 kg	\$20.00
Hi Mineral Salt Blocks	5 kg / 20 kg	\$5.20 / \$17.00
Hi Country Salt Blocks	20 kg	\$17.00
Hi Mineral Stock Lick	40 kg	\$31.00
Ocean Lactomax Lick	40 kg	\$32.00
Ocean Thrift Sheep Lick	40 kg	\$24.00
Organic Hi Mineral Stock Lick	40 kg	\$36.50
Rock Salt	50 kg	\$24.00
Salt – Fine	per kg	\$0.55
Salt G12	per kg	\$0.39

CRT Feed Barn (Reliance Feeds):

Mineral Salt Block	20 kg	\$20.00
Fine Salt	5 kg / 25 kg	\$3.95/ \$13.00
Epsom Salt	2 kg	\$5.50
Rock Salt	1 kg	\$1.00

PGG Wrightson Ltd:

Summit Copper Cattle Salt Block	20kg	\$23.78
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Concentrates Meal / Crumble / Pellet / Nut

Dairy and Calf Feeds

Ingham Feeds and Nutrition: (North Island only)

Dairy	Quantity	Price per tonne
Topcow Maxum	25kg / bulk / 12 tonne plus	\$816.20 / \$710.20 / \$605.00
Palm Kernel Blend Pellet	bulk / 12 tonne plus	\$514.10 / \$429.30

Prices Exclude GST

Calves		
Topcalf cereal	25kg	\$952.00
Topcalf 20	25kg / bulk	\$922.00 / \$885.00
Topcalf 16	25kg / bulk	\$846.00 / \$809.00
Topcalf Finisher	25kg / bulk	\$827.00 / \$790.00

CRT Feed Barn (Reliance Feeds):

Product	Quantity	Price per unit
Calves:		
Calf Startmix	25 kg	\$26.80
Calf Pellets (18%)	25 kg	\$25.00

PGG Wrightson Ltd:

Product		Price per unit
Dairy		
NRM Multifeed nuts	25kg	\$23.73
Breakfeed Advantage nuts	25kg	\$20.00
Maize - steam flaked	25kg	\$30.58
Barley - steam flaked	25kg	\$28.09
Multifeed Dairy Special pellets	40kg	\$28.62
Multifeed nuts	40kg	\$37.33
Copra pellets Bulk bag / tonne		\$351.01 / \$311.05
Calves		
NRM Moozlee / Moozlee Plus	25kg	\$23.01 / \$28.71
Ready Rumen	25kg	\$28.09
NRM Grow Up 20% pellets / Grow up 20%	25kg	\$24.27 / \$25.60
Calf Booster pellets 16% / 20%	25kg	\$19.20 / \$28.27
Reliance calf pellets 16%	25kg	\$20.27

PCL Industries Ltd:

	Bag size	Price/bag	\$/tonne
Megacalf	25 kg	\$24.65	\$985.80
Hi-Pro Calf Pellets	25 kg	\$22.68	\$907.35
Sweet 16 Calf Pellets	25 kg	\$21.20	\$848.00

Deer/Sheep/Beef/Alpaca and Goat Feeds

PGG Wrightson Ltd:

Product		Price per unit
Multifeed Nuts Sharpes / NRM	25kg	\$20.98 / \$23.73
Multifeed Nuts + 7kg Zinc	25kg	\$24.36
Sheep / Deer Nuts PCL	40kg	\$34.67
Sheep/deer nuts - bulk	tonne	\$576.89
Reliance Sheep Nuts	40kg	\$27.02

Prices Exclude GST

PGG Wrightson Ltd:

Product	Quantity	Price
Country Harvest Alpaca Pellets	25 kg	\$26.40
Country Harvest Alpaca Pellets + Zinc	25 kg	\$28.89

CRT Feed Barn (Reliance Feeds):

Product	Quantity	Price
Alpaca Pellets	25 kg	\$29.00
Multi Nuts	10 kg	\$12.00
Sheep Nuts	40 kg	\$31.00

PCL Industries Ltd:

Goat Pellets	25 kg	\$15.37 per bag	\$614.80 per tonne
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Horse Feeds

CRT Feed Barn (McMillan Equine Feeds):

Product:	Quantity	Price
Performance Pellets	25 kg	\$23.00
Cool Feed	25 kg	\$27.30
Sport Horse	25 kg	\$27.80
Protein Plus	25 kg	\$25.50
Free Up	25 kg	\$32.00
Manetane	25 kg	\$27.00
Broodmare Formula	25 kg	\$28.80
Chaff: Lucerne / Oaten	Sack	\$22.50 / \$28.00
Barley - whole	25 kg	\$20.00
- crushed	25 kg	\$23.80
Oats whole / crushed	25 kg	\$23.00 / \$24.00
Kibbled Maize / Peas	25 kg	\$28.00 / \$26.00

PGG Wrightson Ltd:

Product	Quantity	Price per unit
Sweetfeed NRM	25 kg	\$23.02
NRM Horse Coolade	25 kg	\$30.85
NRM Horse and Pony Pellets	20 / 25 kg	\$20.45 / \$25.60
Racehorse Pellets	25 kg	\$20.62
NRM Affinity Mare and Foal	25 kg	\$21.60
NRM Mare Balancer Nut	25 kg	\$29.87
NRM Prepare / Yearling Prepare	25 / 22½kg	\$34.76 / \$42.40
NRM Assett	25 kg	\$35.70
Equine Balancer	25 kg	\$42.67
Lite Brew	25 kg	\$26.22
NRM Performa	25 kg	\$33.87
NRM Run Free	25 kg	\$41.16
Fisken Racehorse Mix	40 kg	\$40.71
Horselick mineral block	4 x 2kg	\$23.11

Prices Exclude GST

Ostrich Feeds*CRT Feed Barn (Reliance Feeds)*

Ostrich Maintenance	25 kg	\$26.00
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Poultry Feeds and Premixes*CRT Feed Barn (Reliance Feeds)*

FR Layer Mash	10 kg / 25 kg	\$14.00 / \$24.50
HE Layer Pellets	10 kg / 25 kg	\$14.00 / \$24.50
Oyster grit	10 kg	\$11.50

PGG Wrightson Ltd:

Product	Quantity	Price per unit
Chick starter crumble	10 / 25kg	\$15.28 / \$30.13
Hi Lay Super Mash	25 kg	\$24.98
NRM Hi Lay Super Pellets	25 kg	\$25.15
NRM Meatbird Crumble	25 kg	\$31.91
Hi Lay Mash	10 kg	\$12.45
Hi Lay Super Mash	Bulk	\$557.34
Peck n Lay Gold Pellets	10 kg	\$13.07
Peck n Lay Poultry Pellets	25 kg	\$24.71
Peck n Lay Mash	25kg	\$21.33
Prolay pellets	10 / 25kg	\$11.47 / \$26.13

Pig Rations*PGG Wrightson Ltd:*

Product	Quantity	Price
Little Pig Pellets	25kg	\$28.98
NRM / Pig Tucker Plus Pellets	25 kg	\$24.71 / \$27.02
Original Pig Tucker Nuts	25 kg	\$25.34
Good Ole Pig Tucker	25 kg	\$27.38
CFM Pig Mash	25 kg	\$27.11

CRT Feed Barn (Reliance Feeds):

Big Pig Pellets / Nuts	25 kg	\$26.80
Pig Weaner	25 kg	\$26.80

Protein Prices by Type and Region

Protein Type	North Island (\$ per tonne)	South Island (\$ per tonne)
Meat and Bone	\$720 to \$740	\$775 to \$900
Blood Meal	\$1,220 to \$1,250	\$1,125 to \$1,350
Fishmeal	\$2,500 to \$2,700	\$2,500 to \$2,700
Skim Milk Blend	\$1,500 to \$1,525	\$1,500 to \$1,525
Extra Soya Meal	\$800 to \$850	\$800 to \$850
Full Fat Soya	n/a	n/a
Soya Oil \$/200lit drum	\$800	\$800

Prices Exclude GST

Tallow	\$700 to \$880	\$750
Lysine (per kg)	\$3.00	\$3.00
Methionine (per kg)	\$7.00 to \$8.00	\$7.00 to \$8.00

Source: Pork Outlook, January 2010.

Feed Grains

PGG Wrightson Ltd:

Product	Quantity	Price per unit
Whole Wheat	10 kg	\$9.88
Whole Barley	50 kg	\$36.67
Steam Flaked Barley	25 kg	\$28.09
Steam Flaked Maize	25 kg	\$30.58
Oyster Grit - coarse/fine	10 kg	\$14.05

Dog Feeds

CRT Feed Barn(Reliance Feeds):

Dog Rolls	2 kg	\$5.80
V8 Energy Bars	40 kg	\$84.50

PGG Wrightson Ltd:

K9 Dogfood	20 kg	\$49.42
Working Dog Performance Roll	2.6kg	\$5.01

Rabbit Feeds

CRT Feed Barn (Reliance Feeds):

Rabbit Pellets	10 kg / 25 kg	\$15.00 / \$26.50
Rabbit / Guinea Pig Mix	10 kg	\$15.50

PGG Wrightson Ltd:

Product	Quantity	Price per unit
Rabbit Pellets Plus Cyco NRM	10 / 25kg	\$18.57 / \$40.00
Barnyard/PCL Rabbit Pellets	10 kg	\$12.18 / \$14.58

Prices Exclude GST

Hay and Straw

(For contract hay baling see *Section 2.4.1.*)

Price depends on area, season and quality. Spring/Summer/Autumn 2009/2010 prices for average/good quality bales were approximately as follows:

		Conventional	
Canterbury			
Hay:	Meadow	\$7.00	
	Lucerne	\$8.00	
Straw:	Ryegrass	\$3.00 - \$3.50	
	Barley	\$3.00	
Silage/Balage:			cents per kg/DM
	Grass (good quality)		\$0.12 to \$0.14
	Lucerne		\$0.13 to \$0.15
	Maize		\$0.20 to \$0.24 standing
	Cereal		\$0.12 to \$0.14 standing

Hawkes Bay			
Hay:	Meadow	\$5.00 to \$7.00	
	Lucerne	\$12.00	
Taranaki			
Hay:	Behind Baler	\$3.50 to \$5.00	\$55 to \$75 ¹
	Standing	\$2.50 to \$3.00	
Silage:	Baled		\$55 to \$75 ²
Waikato			
Hay:	Pasture	\$9.90	
Haylage:			\$75 per round
Straw:	Barley	\$9.50	
Southland			
Hay:	Meadow		approx. \$40 ¹
Balage:			\$45 to \$60
Silage			12 to 15c standing

Note: ¹ 15 small bale equivalents. ² 10 small bale equivalents

Grazing Fees

Ian Wickham, New Zealand Grazing Co. Ltd:

The age old problem with 'grazing' is that it has been difficult to quantify the amount of feed (and other service such as husbandry) that is actually being sold and purchased.

Consequently the cost of contract grazing-off is increasingly being compared to other feeds on a common basis, usually using Kilograms of Dry Matter (kg DM), but often further calculated into Metabolisable Energy units (ME).

The current industry recommendation is for dairy heifers to be fully grown before herd entry (eg 90% of mature size at 22 months of age). Dairy Statistics indicate that the actual

Prices Exclude GST

liveweight of dairy heifers at herd entry is currently 78% and this impairs the productive performance of these young animals.

The focus still needs to alter away from grazing fees set on a time basis and toward growth performance, which in turn is dependent in the genetic size (Breeding Value for Liveweight) and the rearing success of the animals concerned.

DairyNZ has recently re-calculated the quantity of feed (with a significant increase) that dairy replacements need to reach recommended targets.

For example, a typical **Friesian / Jersey cross dairy replacement (mature 450kg)** should consume about **3,760 kg DM** to achieve its 22 month (1st June) liveweight of **405 kg**.

To allocate this to time periods, allow **834 kg DM** for the weaner stage (3 to 9 mths age - Nov to April) and **2,623** for the heifer stage (9 to 21 mths age - May to April) and a further **303 kg DM** from 21 to 22 mths age (2nd May) By the time she first calves, (Aug) she should have consumed as much DM to grow as a mature cow does each year.

At a price of 18 cents per kg DM consumed, this calculates out at \$472 per annum or \$9.08 per week for the 12 month period May to April.

The above comments relate to pre-arranged term grazing contracts. Spot or short term grazing prices are very dependent on feed availability at the time of the quote, depending on supply and demand and may vary upward considerably in the event of droughts, flooding, severe cold periods and the like.

Husbandry and management of the animals are usually included in the price at no charge, but may be negotiated separately.

Liveweight guaranteed contract for weaners and heifers

The liveweights achieved on over 300,000 heifers meet the new DairyNZ targets and include most animal health, full monitoring, regular weighing with analysed weigh reports, facial eczema control and death reimbursement for a fixed rate on heifer 12 month contracts priced at \$8.75 per week or less than 18 cents per kg DM consumed.

New Zealand Grazing Co. Ltd. is represented throughout the North Island region.

A free Tool to convert WEEKLY RATE (time based) grazing rates into **cents per kg Dry Matter consumed** is available on www.nzgrazing.co.nz

Dairy Cattle

Payment for grazing varies according to the class and age of livestock, the time of year, seasonal conditions and the district. When comparing grazing arrangements any additional costs of bulls, freight, animal health, weighing and management need to be identified. Rates for 2009/2010 were approximately:

(i) Calves

Calves (weaning to May).

Hawkes Bay

Grazing is now normally on weight gain contracts

Waikato

\$4.80 - \$6.00 per head per week, plus freight

Prices Exclude GST

Canterbury	\$6 per head per week.
Southland	December to May \$4.50 to \$5 per week

(ii) Heifers

Yearling heifers (May to May).

Hawkes Bay	Dairy	\$15/head per week in winter. Other periods \$6-\$10 / week
Waikato		\$7.00 - \$8.50 per head per week
Canterbury		\$8.50 per week flat or additional \$1 to \$1.50/kg liveweight over target, up to \$9.50 before any agent's commission
Southland		\$7.50 to \$8.00 per head per week

(iii) Cows (winter)

Hawkes Bay	\$20.00 / head per week. (Other periods \$8 - \$12 per week)
Waikato	\$15.00 - \$22.00 per head per week
Canterbury	\$20.00 per head per week subject to supply
Southland	\$25.00 to \$28.00 per head per week

Sheep and Beef (cost per head per week)

	Canterbury	Southland
Sheep - ewe - summer	\$1.00 to \$1.30/kg	\$1.00 to \$1.10
- winter	\$2.00 to \$2.50/kg	\$1.50
- hoggets - winter		\$1.20 to \$1.40
- early spring	-	\$1.20
- late spring	-	\$1.00
- lambs - autumn/winter	\$1.25/kg	-
Dry Cattle - weaners		\$5.00
- steers	\$6 to \$9 or \$1.50/kg	\$7.00

2.3.14 Wool and Shearing Expenses Regional Average Costs

	(per su)
Northland	\$6.60
Waikato/Bay of Plenty Intensive	\$4.85
Central North Island Hill Country	\$7.29
Gisborne Hill Country	\$5.74
Hawkes Bay/Wairarapa Hill Country	\$6.48
Eastern Lower North Is Intensive	\$5.98
Western Lower North Is Intensive	\$5.87
South Island High Country	\$7.55
Canterbury/Marlborough Hill Country	\$5.30
Canterbury/Marlborough Breeding and Finishing	\$5.70
Otago Dry Hill	\$5.00
Southland/South Otago Hill Country	\$5.34
Southland/South Otago Intensive	\$4.83
National	\$6.06

Source: MAF Pastoral Monitoring Report – 2009

Prices Exclude GST

Shearing Rates

North Island: (per 100 sheep)

	Wanganui	Masterton	Manawatu
Full Wool Ewe	\$331.80	\$320	\$280 - \$320
Full Lamb	\$315	\$300	\$280 - \$320
Full Wool Ram	\$630	\$75 each	\$680
Full Belly Crutch	\$166	\$140	Approx \$140
Half Belly Crutch	\$126	\$125	Approx \$120
Ring/Tail Crutch Ewe	\$89	\$85	Approx \$90
Ring/Tail Crutch Lamb	\$58	\$75	Approx \$90
Dagging	\$65	-	Approx \$80
Full Crutch Ewe	\$163	\$100	-
Full Crutch Lamb	\$84	\$85	-
Eye wig	\$63	plus \$10	\$5.00

Masterton shearing rates supplied by *PD Lett*.

Manawatu prices – top prices are for full contract and with 4 woolhandlers to 4 shearers.

Lowest price is for 2 woolhandlers to 4 shearers.

South Island: (per 100 sheep)

Contract Rates:		Canterbury	Central Otago	Southland
Full Wool ewes	- summer	\$325*	\$350	\$340*
	- cover comb	\$335*	\$358	\$350*
Lambs		\$305*	\$294	\$300*
Merino ewes	-cover comb	\$430*	\$398	\$425*
Merino wethers	-cover comb	\$480*	\$475	\$480*
Full belly crutch		\$125*	\$154	\$165*
Half belly crutch		\$105*	-	\$155*
Buttonhole crutch		\$95*	\$99	\$125*
Open Shearing Rates:				
Full wool		\$225	-	\$1.98(per head)
Lambs		\$205	-	\$1.80(per head)
Full belly crutch		\$105	-	\$1.20(per head)
Wool handler rate		\$26	-	\$25.50
Presser		\$26.50	-	\$28.00

* Includes meals and travel

Blade Shearing (Canterbury) per 100 sheep (Shearer only costs)

Open:	Bellied sheep (merino)	Approx. \$210
	Full wool	\$255

Other Shearing Costs

Classing crossbred clips Q stencil grading		\$30 per hour
Mid micron and merino grading	From \$30 per hour, to contract rates	50 cents per head upwards

Prices Exclude GST

Fibre Handling and Classing Charges

See Sections 2.10.3 and 2.10.4

Plant

Press Management Services Ltd:

Sunbeam shearing plant	approximately \$1,800
Lister shearing plant (3 yr warranty) incl installation & "Pressman" after hrs service	approximately \$1,850

PGG Wrightson (Williams & Kettle Ltd):

Handpieces	
Sunbeam Viper /	\$688

Combs and Cutters

PGG Wrightson Ltd:

Combs:	Price per unit
Micro Pacer	\$24.90
Heiniger - range	\$36.44 to \$40.36
Flight wide comb 97mm	\$29.33
In flight 94mm	\$29.33
Charger Comb	\$38.22
Force 12 Hurricane / Tornado	\$29.33 / \$37.33
Cutters:	
Heiniger Diamond / Jet	\$6.83 to \$8.44 / \$7.41 to \$8.58
Heiniger Handpiece 12v	\$752.00

PGG Wrightson (Williams & Kettle Ltd):

Sunbeam Combs	\$23.95
Heiniger Combs	\$38.22
Sunbeam Super AAA Comb	\$5.28
Heiniger Storm Comb	\$7.82

Electric Grinders

PGG Wrightson Ltd:

Heiniger Grinder w/o disc set	\$1,325.33
Disc set	\$694.22

Emery Papers

Leader Products:

Shearers emery - fine / coarse	\$11.56
Shearers adhesive 250ml / 500ml	\$13.33 / \$17.33

PGG Wrightson (Williams & Kettle Ltd):

Heiniger Emeries coarse / fine	\$8.46 / \$7.16
Ramshead Emeries coarse / fine	\$8.19 / \$7.01

Prices Exclude GST

Woolpresses

ICS Manufacturing Ltd:

ICS (formerly Lyco) Dominator 220v 3 phase	\$16,800.00
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Press Management Services Ltd:

Wool press (Lyco) single/3 phase - 3yr warranty	\$17,200
Kiwi Express TPW - single/3 phase – 24 mth warranty incl installation & “Pressman” after hrs service	\$16,000

TePari Ltd:

Donalds Van-Guard FM1 Hydraulic LEASE PER MONTH	\$245.00
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Wool Tables

Press Management Services Ltd: 2008 prices

3 m x 1.65m	\$930
3m x 1.45m	\$895
2.7m x 1.45m	\$850

Wool Bale/Bag Trolleys

ICS Manufacturing Ltd: (formerly Lyco)

Bale/Bag Trolley	\$350
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Weighing Systems

Tru-Test Ltd:

Eziway 2 scales system	\$1,533.33
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Shoof International: (Prices include delivery on orders over \$75)

Hanging scales 10 / 25 / 50 / 100 kg	Each \$73.73
Spring balance scales 10 / 25 / 50 kg	\$11.51 / \$16.85 / \$20.37

TePari Ltd:

Weigh Platform – alloy- value/quality	\$699.00/\$865.00
Combo 1 eco.platform+IconoxFX1+600mm loadbars	\$1,875.00
Combo 2 eco.platform+Gallagher Smart200+600mm loadbars	\$2,375.00
Combo 2 eco.platform+Trutest Ezy Weigh+MP600 loadbars	\$2,225.00

Clippers and Shears

Leader Products:

Heiniger Electric Clipper 320W	\$709.33
Footrot shears – standard / Leader	\$48.89 / \$79.11
Footrot knife – curved blade	\$16.00
125 mm Tus 5” dagging shear / 150 mm Tus lamb shear	\$61.33 / \$60.44
184 mm Tus sheep shear	\$66.67
76 mm Tus 3” dagging shear	\$48.89
Left handed sheep shear 6”	\$83.56
Mulesing shears – 127 mm Gurney	\$101.33

Prices Exclude GST

Sharpening stone	\$35.56
Sharpening jig	\$132.44

Shoof International: (prices include delivery on orders over \$75.00)

Hand Shears	24 cm to 34 cm	\$22.17 to \$44.40
Shear Sharpener	Burgon and Ball	\$15.06
Hand Shears B&B Mulesing		\$105.78
Foot Rot Shears		\$20.40 to \$53.29
Stewart Oster clipper		\$102.78
Andis clipper	AGC2 Cord pack	\$443.56
	AGR Cordless	\$736.89

PGG Wrightson (Williams & Kettle Ltd):

Woolshed broom 4 tie	\$18.48
Woolsweep (extendable)	\$42.13
Bale clips, pack of 500, Maspro	\$23.73
Heineger Tally counter 730107	\$20.62
Woolpack – synthetic new/recycled	\$7.81 / \$5.07
Glue, 500ml	\$13.51
Moccasins	\$43.82
Pendulum – Ellery	\$127.11

Other Woolshed Expenses

Tally counters (<i>Shoof International</i>)	hand / electronic	\$13.29 / \$22.18
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Leader Products:

Sheep tally counter	\$16.00
Leader woolbale stencils – set of A-M, set of N-Z, set of 0-9	\$26.58 per set
Stencilmate kit woolbale / refill	\$80.89 / \$12.00
Stencil ink 500ml / 1litre	\$16.00 / \$32.00
Aerosol stencil spray	\$11.51
Woolbale hooks – double / single prong	\$24.00 / \$16.00
Wool sweep telescopic aluminium handle / wooden handle	\$37.33 / \$24.00

Fibre Testing Charges

Greasy Wool Testing Prices – New Zealand Wool Testing Authority Ltd

Max. 12,000 kg greasy wool per test	Fee per 12,000 kg part	Certificate Fee
Standard Core Test Certificates	Test Method	
Non - Merino		
Yield (incl VM), Airflow Fibre Diameter and Colour	IWTO 19/28/56	\$64.40
Merino		
Yield and Fibre Diameter (Laserscan) only	IWTO 19/12	\$66.60
<i>Greasy Wool Length Tests</i>		
ATLAS Staple Length & Strength	IWTO 30	\$54.95
Greasy Length After Carding- GLAC		\$232.00

Prices Exclude GST

<i>IWTO Combined Cert - Manual</i>		
Base fee	(per Combined Cert)	\$11.15
Additional part fee	(per Certificate)	\$6.15
Manual data entry -non NZWTA cert	(per External Cert)	\$5.65
<i>IWTO Combined Cert - Electronic</i>		
Base fee	(per Combined Cert)	\$25.00
Additional part fee	(per Certificate)	\$3.80
Manual data entry -non NZWTA cert	(per External Cert)	\$5.65
<i>Tests in addition to presale/postsale</i>		
Laserscan or OFDA - Fibre Diameter	IWTO 12 or 47	\$20.00
Medullation	IWTO 57 (OFDA)	\$20.00
<i>Check Tests</i>		
Yield (incl VM)per component / test	IWTO 19	\$25.00
Colour & airflow per component/test	IWTO 28/56	\$20.00

Scoured Wool Testing Prices – New Zealand Wool Testing Authority Ltd

Max. 7,000 kg greasy wool per test		
<i>Comprehensive Scoured Wool Package (CSWP)</i>	<i>Test Method</i>	<i>Certificate Fee</i>
Yield Fibre Diameter, Colour, Residual Grease, Conditioned Weight	IWTO 19 / 28 / 33 / 56 / 10	
Up to 7,000kg CSWP		\$102.15
7,001 to 14,000kg CSWP		\$181.65
14,001 to 21,000kg CSWP		\$261.15
Above 21,000kg		Add \$79.50 per 7,000kg
<i>Length Tests</i>		
Length after Carding (to 30 tonnes)	NZS8719	\$183.05
Card Waste		\$35.60
Re-read of carded Sliver (Almeter)		\$88.75
Mean Fibre Length Report		\$94.35
<i>Mill Package (Incl Length after carding and card waste, Laserscan, Core Bulk and pH Tests)</i>		
Up to 7,000kg		\$297.35
7,001 – 14,000kg		\$376.20
14,001 – 21,001kg		\$455.00
Over 21 tonne		POA
<i>Individual Component Tests</i>		
Condition Test (incl one drying can)	IWTO 33	\$48.85
Residual Grease	IWTO 10	\$33.30
Fibre Diameter only	IWTO28 (or12 & 47)	\$31.10
Colour only	IWTO 56	\$31.10
As is colour	IWTO 56	\$31.10
<i>Check Tests</i>		
Yield and VM: per component / test	IWTO 19	\$25.00
Micron Colour or Residual Grease: per component / test	IWTO 10 / 12 / 28 / 47 / 56	\$20.00

Prices Exclude GST

<i>Additional tests not requested in conjunction with yield test</i>		per 7,000kg or part
pH Test	IWTO 2	\$33.25
Core Bulk Test Report	NZS8716	\$25.60
VM Content	IWTO 19	\$37.75
Ash Content	IWTO 19	\$37.75
Alcohol Extractables	IWTO 19	\$37.75
Medullation (OFDA)	IWTO 57	\$31.10
Fibre Curvature	IWTO 12 or 47	\$31.10
Fibre Diameter (Airflow) only	IWTO 28	\$31.10
Laserscan Fibre Diameter (certifiable on Merino wool)	IWTO 12	\$31.10
OFDA Fibre Diameter (not certifiable on its own)	IWTO 47	\$31.10
All Laserscan & OFDA & Fibre Curvature available as additonal information only		
Colour only	IWTO 56	\$31.10
Yield (incl VM) only	IWTO 19	\$46.60
Yield and Fibre Diameter only	IWTO 19 / 28	\$55.50
Yield and Colour only	IWTO 19 / 56	\$55.50
Colour and Airflow Diameter only	IWTO 56 / 28	\$40.00
Medullation (Projection Microscope)		\$122.00
<i>Pesticide Residue Tests</i>		
Comprehensive tests for Organochlorides, Synthetis Pyrethroids and Insect Growth	Greasy	\$291.20
	Scoured	\$328.65
<i>Check Tests</i>		
Yield and VM: per component / test	IWTO 19	\$25.00
Colour & airflow per component/test	IWTO 28 / 56	\$20.00
<i>Length Tests</i>		
Fibre length report		\$94.35
ATLAS (length and strength) not in conjunction with core test		\$69.40
<i>Miscellaneous Services</i>		
Reissue of Certificates		\$11.15
Wool Content on Fibre Blends		\$49.95
Verification of documents (quality/quantity)		\$33.30
Typing official weight note / bale list	(per bale)	\$0.30
Provision of keeper sample	(per 50g)	\$16.65
Sampling administration	(per bale)	\$0.60
Coring hand drawn samples		\$20.00
Express Service Fee (in Lab by 7.30am, back by 5pm same day)	IWTO 19 / 28 / 56	\$8.95
<i>Fleece Testing</i>		Fee per Fleece (min \$20.00)
Micron Only Airflow/Laserscan/OFDA		\$1.50
Washing Yield (with above)		\$0.30
Histogram with Laserscan or OFDA		\$0.30

Prices Exclude GST

Colour	\$3.35
Core Bulk	\$11.15
Length and Strength (per staple)	\$1.15

2.3.15 Stock Management

Lambing Equipment

Shoof International: (prices include delivery on orders over \$75.00)

Lamb/kid teats		\$1.73 to \$5.28
Roslam lamb/fawn reviver (stomach feeder) complete		\$20.40 / \$44.40
Stomach feeder (lamb/kid)		\$13.28
Excal bottle		\$6.18
Non-vac bottle		\$15.06
Milk Train 4 place		\$47.07
Lamb feeding bucket – screw-on teats		\$79.64
Lambing aid - string snare	plastic/nylon, 37cm	\$17.73
Lambing - twin straps	packet of 10	\$29.29
Bovivet / Genia ewe vaginal tape	4mm x 5m / 2.5mm x 5m	\$20.40 / \$23.95
Vaginal tape needles Aesculap	Eco / quality 20cm	\$17.73 / \$47.07
Vaginal suture needles 12 pack	13cm	\$50.62
Henke stainless steel needles	10 pack	\$15.07
Sheep cuff (Durak) ram/standard		\$53.28
Sheep restrainer rope and tube		\$15.07
Shepherds crook Kea range		\$20.40 to \$22.17
Ewe bearing retainer	pack of 4	\$10.62
Macwells fostering oil	40ml	\$19.11

Leader Products:

Shepherd's crooks, short leg / combination		\$24.89 / \$29.33
Sheep cuff		\$21.33
Sheep restraint		\$25.78
Lambar teats / Lamb bottle teats		\$1.73 / \$2.22

Tailing and Marking Requisites

ICS Manufacturing Ltd:

ICS (formerly Lyco) Rollamaster docking chutes		
Rollamaster standard model / standard with tipper		\$1,135 / \$1,840
Rollamaster contractor model / contractor with tipper		\$1,455 / \$2,160

Electro-tek Engineering Ltd:

Ear Markers:	Sheep	Cattle
	\$105 to \$145	\$122.50 to \$160.00
Double Cuts	from 159.00	from \$169.00
Double Agemarker	\$145.00	
Johne's Earmarker	\$145.00	

Prices Exclude GST

Te Pari Ltd:

Docking Cradle - replacement sling – replacement cord	\$325.00 - \$43.95- \$8.00
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Shoof International: (prices include delivery on orders over \$75.00)

Ear Markers – range of sizes		\$28.85 to \$150.22
Elastrator rings	100 / 500 / 2000 / 5000	\$4.40/\$15.95/ \$53.29 /\$114.67
De-tailer Primus		\$301.33
Castration Ring Applicator	Plastic	\$19.51
Castration Ring Applicator	Economy / Heineger	\$35.51 / \$93.33
Elastrator Ring Dispenser		\$186.67
Castrator – Veboczy	Triple Crush – std / aesculap	\$324.44 / \$443.56

Leader Products:

Lamb Clamp and Knife		\$58.67
Lamb Docking Iron		\$256
Earnotcher Pig V pliers / medium V pliers / large V pliers		\$32 / \$68.44/ \$80
Earnotching medium U pliers / large U pliers		\$72 / \$117.33
Marking Ring Applicator metal / plastic		\$24 / 18.67
Leader Marking Rings	100 pack bag	\$3.51
Leader Rubber Rings	500 pack box blue/orange	\$11.51

Piglet Management

Shoof International: (Prices include delivery on orders over \$75)

Piglet complete tail docker		\$319.11
Piglet tooth clipper Aesculap		\$57.78
Pig holder wire noose / short handle / long handle		\$26.62 / \$71.07 / \$44.40
Pig ring applicator economy / quality		\$31.06 / \$132.44
Pig ring high tensile each / Pig ring nickel plated 10 pack		\$17.73 / \$28.40

Ear Tags and Leg Bands

Beattie Insulators:

Black, white, grey, brown, green, yellow, orange, and purple (100 per pack)	\$11.50
Rod Insulator, 10mm Pinlock Rod (200 per pack)	\$0.36 each

Leader Products:

Leader cattle tags (A large variety of each product available)	Price each
Feedlot Tags	\$0.71
Flexible Male Tags / Female tags	\$0.51 to \$0.85
Flexible 2 piece re-useable Tags	\$0.85 to \$2.12
Multitags Plain	\$0.25
Swivel Tags Plain (stamped one side)	\$0.25
Leader Steel Birth Tags	\$0.53
Aluminium Lapover Tags	\$0.31 to \$0.49
Plastic leg straps - anklets (stamped one side \$5.60)	\$4.89 each
Velcro leg bands	\$3.55

Prices Exclude GST

Allflex N.Z. Limited:

Allflex plastic tag varieties	approx. \$0.40 to \$4.50 each
Allflex electronic tag varieties	approx. \$3.00 to \$6.00 each
Allflex electronic tag readers	approx. \$1,400.00 to \$3,000.00 each

Shoof International: (Prices include delivery on orders over \$75)

Leg Straps removable	Treated - dump - dry cow - caution	each \$6.00
Leg Bands	10 pack	\$11.51 - \$15.06
Removable strap	Fluoro colours	each \$5.29
Leg and tail tape	9 m roll, polyethylene coated cloth	\$4.89

Ear Tag Applicators and Accessories

Leader Products:

Feedlot tag applicator	\$84.44
Leader flexible tag applicator	\$30.22
Fast Tagger for flexible or RFID tags - metal / plastic	\$46.22 / \$24.89
Steel tag applicator	\$30.22
Brass tag applicator	\$78.22
Multitag applicator – sheep	\$24.89
Swivel tag applicator	\$32.00

Raddles and Markers

Stick Raddle (<i>Donaghys</i>)	\$1.38 per stick
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PGG Wrightson Ltd:

Raddle Applicator	\$10.58
Raddle Chalk	\$1.68
Raddle Stick –Brightline/Black	\$1.38

Shoof International: (Prices include delivery on orders over \$75)

Cull Cow Paint (425ml)	\$12.09
Paintstik – Standard / Fluoro	\$3.78 / \$4.89
Paint Stik Holder – plastic	\$25.78
Stock Marker Rotastik	each \$3.33

Leader Products:

Stock marking crayons	- rotastick	\$2.56
	- stockmarker	\$8.80
	- tailors dry raddles	\$4.40
	- all weather crayon	\$3.20
Tail tags (variety of colours available)		\$0.31 each
Leader stock mark spray		\$8.35
Heat paint		\$22.22

Prices Exclude GST

Brands and Tattoos

Shoof International Ltd: (Prices include delivery on orders over \$75)

Stone digit - baby animal set	0-9 set / A-Z set	\$217.78 / \$505.78
- 5mm		
Stone digit - std – 10mm	0-9 set / A-Z set	\$53.28 / \$123.56
Stone Outfit - baby animal	4 or 6 space	\$292.44
Stone outfit small animal	8mm/standard	\$146.67
Single Tattoo Digits	A-Z	\$15.07 to \$35.51
Single Tattoo Digits	0-9	\$13.29 to \$53.51
Tattoo Ink	28g to 140g tubes green/black	\$11.51 to \$44.40
Freeze Branding (0 to 9 set)	50 mm/75 mm/100mm	\$150.22/ \$150.22 / \$265.78
Complete set 50mm/75mm/100mm		\$528.89/\$528.89/\$617.78

Leader Products:

Stones Rotary tattoo complete	\$377.78
Stones Standard tattoo complete	\$118.22
Stones Revolving head tattoo	\$156.44
Pig body striker (3 to 6 divisions)	\$78.22
Pig striker tattoo numbers or letters - singles	\$18.67
Tattoo Pig 4, 6 Division Complete	\$111
Tattoo digits single letter or number	\$10.22
Freeze brands single numeral / letter	\$106.67
Fire brands Single numeral / letter	\$106.67
Tattoo ink – green 125ml to 5 litre	\$9.78 to \$60.44
Tattoo ink – black 125ml to 1 litre	\$9.24 to \$60.44
Tattoo paste 50g (black, green, red, white)	\$8.44
Tattoo paste 700g (black, green, white)	\$70.22
Digits 0-9 standard	\$39.11
A-Z standard	\$101.33

De-Horning

Electro-tek Engineering Ltd:

Yearling de-horners (blades \$85.00, handle \$14.65)	\$295.00
Manual calf de-horner	\$49.00
Scully Junior (blades \$122.00, handle \$34.00)	\$295.00
Keystone Dehorner (blades \$138.00, handle \$45.00)	\$366.00
Gas LPG Gasmate (head \$68.25)	\$295.00

TePari Ltd:

Barnes Type Dehorner / economy models	\$69.95 / from \$32.50
Te Pari calf dehorner Plastic handle / SS handle	\$239.00 / \$279.00
Spare LPG dehorner heads small / standard / large	\$85.50

Prices Exclude GST

Leader Products:

Barnes Dehorner small / large	\$57.78 / \$85.33
Ram dehorner	\$198.22
Leader Hodge dehorner	\$480.00
Forrester Tipping dehorner - small / large	\$275.56
Keystone dehorner – convex junior / large convex	\$265.78 / \$342.22
Keystone dehorner - improved	\$342.22
Electric dehorner - 240 volt / 12 volt	\$167.11 / \$132.44
Gas dehorning iron	\$224.89
Barnes Wide mouth dehorner	\$293.33

Hoofcutting

Electro-tek Engineering Ltd:

Hoofcutter double action	\$141.40
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Shoof International Ltd: (Prices include delivery on orders over \$75)

Hoof Trimmers:

Double Action	\$120 to \$265.78
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Hoof Knives:

Stainless Steel - serated edge, left or right handed	\$31.95
Aesculap	\$37.78
Aesculap - Ebony	\$61.29
Genia range - left or right handed	\$53.28 to \$84.40

Hoof Snips:

Plain / serated blades	\$39.96 / \$40.85
Delux - plain/serated blades	\$34.62 / \$37.89
B&B TUS plain/serrated	\$75.51 / \$79.96

Hoof Rasps:

Stainless Steel	straight or curved	\$35.51
Carbon Steel	straight/curved	\$26.62
Carbon steel heavy	plain or with handle	\$39.96 to \$44.40

Hoof Test Pliers:

Economy/Quality	33cm S/S / 30cm Nickel Plating	\$42.62 / \$176.89
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Cattle Castrators

Leader Products:

Triple Crush Emasculator	\$129.78
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Slaughter Device (Prices include delivery on orders over \$75)

Captive bolt slaughter device (<i>Shoof International</i>)	\$665.78
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Bull Rings and Leads / Halters

Leader Products:

Bull lead with rope / chain	\$23.11 / \$26.67
Show leads (spring lock / brass auto / aluminum auto)	\$17.33 / \$16.00 / \$15.56

Prices Exclude GST

Bull nose punches		\$87.11
Bull ring applicator		\$30.22
Stainless steel bull rings	2 ¾ inch and 3 inch	\$12.00
Copper bull rings	2 ½, 2 ¾ and 3 inch	\$11.11
Bull ring Hiatts - copper	2 ½, 2 ¾ and 3 inch	\$16.00 / \$16.89 / \$18.67
Nylon Wizz bull rings	2 ¾ inch	\$8.44

Shoof International: (Prices include delivery on orders over \$75)

Bull rings – s/steel/bronze/copper	small/medium/large	\$12.40 to \$32.85
Calf weaner nose rings / screw clamp		\$8.45 to \$9.73
Bull ring applicators		\$29.29
Bull nose punches		\$41.73 to \$132.45
Bull halters	leather/ heavy duty	\$66.66 to \$176.89
Cow halters	nylon / leather	\$28.40 to \$159.11
Calf halters – lead / tether	nylon	\$19.51 to \$39.96
Webbing halters	cow / alpaca	\$28.40
Leading ropes	small / medium	\$8.85 / \$14.18

Prodders

Shoof International: (Prices include delivery on orders over \$75)

Hot Shot Range	34cm to 130 cm	\$248 to \$265.78
Hot Shot – Rechargeable	34cm to 85 cm	\$390.22 to \$443.56
Kawe Universal		\$185.78
Picador Universal		\$137.78
Compact – incl battery		\$69.29

Leader Products:

Wasp stock prodder / mini		\$173.33 / \$93.33
Wasp stock prodder extension wand / long		\$59.56 / \$75.56
Red Hide Flapper		\$51.56
Module Motor Stock Prodder		\$106.67

Scales and Platforms

Prattley Industries:

Sheep weigh crate with 3 way draft		\$1,505
Sheep 3 way slide/swing gate auto draft weigh crate		\$9,032/ \$9,355

Heenan Engineering Company Ltd:

Heenan weighbridge weighing and 3 way drafting system – designed for deer using air controlled gates, hassle-free using EID		from \$6,987
Gallagher indicators or any brand		from \$1,199
Any brand – load bars		from \$969

Prices Exclude GST

Stockyards Ltd: (ex Te Kauwhata) 2008prices

Weighing Crates:

Manual	\$2,428
Remote	\$2,554
Mobilised	\$988

See also *Section 2.21.7*.

Pregnancy Diagnosis / Backfat / Rib Eye Sonography

(See *Sections 2.4.9 and 2.4.10* for charges if a contractor is used)

Canbay Pig Development Co.:

Renco Leanmeater back fat tester	\$1,285
Renco PT 1/PT 2 pregnancy tester	\$1,060 / \$720

Shoof International: (Prices include delivery on orders over \$75)

Pregnancy Tester Rotech PregTector	POA
Pregnancy Tester Sow / Draminski	\$1,111.11

Dog Trainers and Equipment

Pet Training Products:

Containment Systems	from \$326.22
Bark Control Collars	from \$120.00
Remote Training Aids	from \$83.56

Shoof International: (Prices include delivery on orders over \$75)

Dog chains	\$7.06 to \$10.62
Dog collars / Dog muzzles	\$6.97 to \$11.51/\$9.33 to \$168.00
Dog Halter Busters	\$48.85 to \$57.73
Dog holder MDC	\$532.00
Dog ute tether – double end / universal	\$8.85 / \$15.06
Dog whistles	\$1.47 to \$13.29
Dog whistle ACME ultra high pitch / silent	\$24.85 / \$75.51

Cow Lifters

Shoof International: (Prices include delivery on orders over \$75)

Daisy-Lifter	Medium term support Std/XL	\$354.67 / \$399.11
Hip Clamps	Standard / Vink	\$288.89 / \$336.89
Cow Hobble	Webbing and rings / Welfare approved	\$35.51 / \$49.73
Cow Cover	Thermal Emergency for Jerseys / Friesians	\$265.78 / \$306.67

Leader Products:

Elfin Cow Sling	\$284.44
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Prices Exclude GST

Mating Devices

Shoof International (Prices include delivery on orders over \$75)

Chinball mating harness	\$217.78
Chinball ink 1L	\$39.95
Oestrus Detector FASCO AP – 50 pack	\$141.33

PGG Wrightson Ltd:

Ram Crayons (Donaghys Stafix)	\$3.85 each
Tail Paint - 10 litre	\$137.78
Eco Tail paint 1litre	\$7.11

Leader Products:

Chinball mating harness	\$209.78
Ram harness mating mark	\$57.78
Chinball fluid - 1 litre	\$36.44
Crayon mating mark (range of colours available)	\$7.56 each

Calving Aids

Electro-tek Engineering Ltd:

Calving chain handles (stainless steel)	\$30.60
Calving ropes	8 mm (double / single loops) \$11.50 / 9.50
	6 mm (double / single loops) \$10.00 / \$8.00
Calving chain	stainless steel (double / single loops) \$58.50 / \$30.00

Shoof International: (Prices include delivery on orders over \$75)

Calving chain handles	\$22.18 to \$50.62
Calvingropes	7mm economy, single / double end 11.51 / \$15.96
	8mm slimline / 14mm soft braid \$23.07 / \$15.07
Calving strap heavy duty, 25mm webbing - s/s D rings	\$15.95
Calving chains - range	\$31.06 to \$53.29
Calf pullers - range	\$37.29 to \$354.67
Calf puller straps - long	\$22.17
Obstetric lubricant - 1 litre / 2 litre / 5 litre	\$10.62/\$14.18/\$29.29
Resuscitator HK calf 2 way air pump-rubber nose mask	\$328.00
Calf sling	\$53.29

Leader Products:

Leader calf saver	\$239.11
Obstetrical chains – 750mm / 1.5m	\$18.67 / \$31.11
Calving ropes (2)	\$24.00
Calving straps – 30 inch / 60 inch	\$24.00 / \$32.88
Large obstetrical hook / small eye hook	\$17.33 / \$17.33

Prices Exclude GST

Calf Covers

Shoof International: (Prices include delivery on orders over \$75)

Thinsulate – small / large	\$132.45 / \$141.34
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Straitline Canvas Ltd:

	Length, Wither to Tail	Quantity			
		1	10	50	100
Animac Polyethylene Calf Covers	650/800 mm	\$8.60	\$73.10	\$322.50	\$602
Jute Calf Covers Strap/Buckle	650/800 mm	\$19.65	\$167	\$736.50	\$1,375
Jute Yearling Covers Strap/Buckle	950/1100 mm	\$37.60	\$319.60	\$1,410	\$2,632
Jute Cow Covers Strap/Buckle	1275 to 1575mm	\$38.95	\$350.50	\$1,588	\$3,116

Horse Expenses and Horse Shoeing

A farrier in the Oamaru region charges \$120 for hot shoeing, \$100 for cold shoeing and \$30 to \$35 for a hoof trim. Price can vary depending on how many horses are involved and distance travelled.

Leader Products:

Farrier Knife	\$24.00
Hoof Trimmer Double Action / Heavy Duty Long	\$94.22 / \$204.44
Heiniger Horse Clipper	\$709.33

Shoof International: (Prices include delivery on orders over \$75)

Farrier Hammer Driving – Economy – 120z	\$35.51
Farrier Hammer - Nordic Driving 10oz	\$75.11
Farrier Cutting Blade	\$26.62
Foaling Alarm Magic Breed Complete	\$1,240.00
Hoof Pick Nickel plated / s/s	\$5.55 / \$7.51
Barrier Boot – Davis – 3 sizes	\$62.18
Horse Shoof – all sizes	\$34.67

Saddles and Covers

Clarke McKenzie Saddlery Ltd:

Stock saddles	\$999 to \$4,500
Farm bridles	from \$49.99
Horse covers - Summer	approx. \$85 to \$275
- Winter	approx. \$139.99 to \$400
Neck Rug	approx. \$100
Head collars - Webbing (leather also available)	from \$12.99

Stirrups Equestrian Supplies Ltd:

Bridles	Range from \$40 to \$700
Saddles (all purpose type)	Range from \$330 to \$555
Covers Lightweight summer	Range from \$145 to \$370

Prices Exclude GST

2.3.16 Stock Feeding Systems and Equipment

Hynds Rural:

Product Code	Description	Retail
TF2400W	2400x1500x600	\$1,131.44
TF2400WE	2400x1500x600 with end	\$1,356.68
TF2400.2	2400x700x500	\$589.78
TF2400.2E	2400x700x500 with end	\$715.50
TF2400AM	2400 long, dry feed trough	\$452.83

AgBrand Products:

Product	Description	No Feeding positions	Price
C1 bolted / C2 pinned	Round Weaner	12/12	\$800 each
C3 bolted / C4 pinned	Round Bull	12/12	\$975 each
C5 bolted / C6 pinned	Round Standard	15/15	\$975 each
C5-H bolted / C6-H pinned	Round Heavy	15/15	\$1,000 each
C7 bolted	Medium oval	16	\$1,100
S1 pinned	Rectangular	20	\$1,300
S2 pinned / S5 bolted	Oval	24/26	\$1,390 / \$1,400
A1 bolted / A2 pinned	Rectangular straight sided	24/24	\$1,380 each
A3 Bolted / A4 pinned	Round sheep / cattle	30/15	\$800 each
SF pinned	Sheep feeder	21	\$800
Feed fence pinned	2.8m lengths	7	\$440
Feed fence pinned incl brace points every 3m	6m lengths	15	\$820
Miscellaneous parts			
Braces / end piece 1.4m	For feedlots		\$90 each / \$220
Skids for round feeders with mesh base/ rectangular feeders, mesh base			\$620 / \$750
Sombrero plastic feed bin for inside C5 & C6 feeders			\$420
Top cover roof for A5 & A6 feeders PVC cover & frame			\$360

Freight extra. Estimated freight costs Nth Is \$100, Sth Is \$150 minimum charge. It pays to buy 2 feeders strapped in one bundle.

Prices Exclude GST

2.4 CONTRACTING CHARGES

2.4.1 Hay Making

Some examples of contractors' charges are as follows:

Taranaki:

Mower / conditioner	2.8 m	\$145 per hour
	3.1m	\$150 per hour
Tedding / raking (6m rake)		\$105 per hour
Full Contract Baling – includes cut, turn twice, row and bale		
Conventional	- more than 100 bales	\$3.50 per bale
	- under 100 bales	\$1.50 per bale / \$150 per hr
Large round	- 15 bale equivalents	\$31 per bale
	- 12 bale equivalents	\$29 per bale
	- 10 bale equivalents	\$27 per bale

Stacking: Average of \$2.75 per bale or \$100 per hour, depending on the distance from haystack.

Waikato:

Baling	Conventional bale	\$1.50 per bale
	Square or round	\$1.50 per bale equivalent

Hawkes Bay

Mowing		\$85 per ha
Raking		\$50 per ha
Baling	- round bales	\$15.50 per bale

A Canterbury contractor

Mower conditioner	3 metre	\$180 per hour
	6 metre	\$320 per hour
Mowing		\$150 per hour
	Large Round (14 bale equivalent)	\$13.00 per bale
Loader		\$150 per hour
Truck		\$120 per hour

A Second Canterbury Contractor

Mower conditioner	3 metre	\$136 per hour
	6 metre	\$200 per hour

A Third Canterbury Contractor

Hay Baling	Medium Square (10 bale equivalent)	\$11.50 per bale
	Large Round / Square	\$13.00 / \$15 per bale
Raking / Tedding		\$250 per hour
Mowing		\$65 per ha
Cartage	On road	\$3 to \$7 per km
	On farm only (depending on bale size, incl loading)	\$5 to \$8 per bale

Prices Exclude GST

Southland:

Conventional bales (for complete job – carted in etc)	\$5.50 per bale
Truck	\$130 per hour
Harvester	\$550 per hour
V-Rake	\$135 per hour
Mower conditioner*	\$55 per ha

*This rate only applies when 3ha/hour can be maintained. If not, the rate becomes per hour.

2.4.2 Silage

Some examples of contractors' charges are as follows:

Southland

To make silage	Depends on amount of gear required	\$300 to \$350 per ha
Loader for silage (+ set price of \$140, or one hour flat rate to get to location)		\$140 per hour
Mower conditioner*		\$170 per hour
Truck		\$130 per hour

This rate only applies when 3ha / hr can be maintained.

One Canterbury Contractor

Silage chopper for maize		\$750 per hour
Mower conditioner	3m	\$180 per hour
	6m	\$320 per hour
Loader bucket or by beak	14 tonne	\$150 per hour
Tip truck	6 x 4, 6m ³	\$120 per hour
Silage chopper for grass	440 hp	\$550 per hour
Loader for silage	16 tonne	\$180 per hour
Silage truck	6 x 4, 30m ³	\$120 per hour

A Second Canterbury Contractor

Bale – round / medium square balage		\$11 per bale
Wrapped baled silage	Large Round	\$25 per bale
Mower conditioner	3m	\$150 per hour
	6m	\$280 per hour

A Third Canterbury Contractor

Baled and wrapped balage	Medium Square 200kg DM	\$23 per bale
	Large Square 350kg DM	\$28 per bale
	Rounds	\$22 per bale

Hawkes Bay:

Silage:	Mowing / raking	\$85 / \$50 per ha
	Chop/cut/stack of grass silage	\$572 per hour
	Harvester + 2 Trucks + Tractor on stack	
	Stacking	\$110 per hour
Truck (loading with silage)		\$110 per hour
Balage - includes mowing, wrapping, baling and stacking		\$37 per bale

Prices Exclude GST

Taranaki:

Wrapped Silage:			
- 1.3m diameter bale – row-bale-wrap	size 10	\$29.50 per bale	
	row-bale-wrap	size 12, 1.35m diameter	\$31.10 per bale
Full Contract wrapped silage - includes cut, row, bale and wrap			
- size 10 bale equivalent 1.3m		\$38.25 per bale	

Waikato

Baleage	Rounds (10+ equiv)	\$34 per bale
	Squares (7 equiv)	\$32 per bale
Stack tractor - 200hp		\$140 per hour
Loader wagon	30 or more cubic metres	\$260 per hour

2.4.3 Cultivation/Drilling

Canterbury:

One contractor's rates are as follows:

Ploughing 200 hp		\$200 per hour
Ploughing in lands		\$120 per ha
Grubbing first pass		\$100 per ha
Harrowing		\$80 per ha
Mowing		\$80 per ha
Ploughing (with tractor) 135, 150 or 200 hp		\$120 per ha
Reversible ploughing per ha		\$120 per ha
Ripping – 300mm x 760mm		\$120 per ha
Direct drilling		\$120 per ha
Conventional drilling		\$100 per ha
Cambridge rolling (over borders) per ha		\$80 per ha
Heavy rolling per ha		\$80 per ha
Disc Harrowing		\$100 per ha
Discing first pass		\$120 per ha
Levelling		\$120 per ha
Maxitilling		\$80 per ha

One Canterbury contractor charges \$85 per hour for direct drilling, \$70 for both semi cultivated and cultivated.

Other Contractors in Canterbury:

Planting maize per ha		\$115.00 per hectare
Side dressing maize per ha		\$55.00 per hectare
Direct drilling		\$90 per hectare
Conventional drilling		\$70 per hectare

Prices Exclude GST

Maize harvesting for silage (includes 3 trucks, loader and forage harvester)	\$1,280.00 per hour
Ploughing - 8 furrow	\$125.00 per hectare
Mower conditioner - 3m / 8m	\$369.00 per hour
	\$91.00 per hectare for the 8m
Raking	\$42 per ha
Chopper	\$650.00 per hour
Loader	\$213.00 per hour
Cartage	\$100.00 per hour per truck
Power harrow / Drilling combination 6m	\$153.00 per hectare
Direct Drilling	\$143.00 per hectare

Another Canterbury contractor charges \$1,050 per hour for maize harvesting for silage (includes 3 trucks, loader and forage harvester)

Hawkes Bay:

Ploughing	\$134 per hectare
Discing	\$117 per hectare
Power harrowing	\$134 per hour
Direct drilling on the flat to hill paddocks with fertiliser	from \$117 to \$128 per hectare
Conventional drilling on the flat to hill paddocks with fertiliser	from \$102 / \$115 per hectare

Gisborne:

Discing	\$65 per ha
Discing and rolling (Cambridge roller)	\$70 per ha
Ploughing	\$144 per ha
Power harrowing / Ripping	\$125 per ha
Planting (maize / sweetcorn / squash at .76 metre spacing)	\$110 per ha
Drilling	\$110 per ha
Spraying	\$50 per ha
Cultivating	\$75 per ha
Re-grassing - broadcast	\$75 per ha

Waikato:

Planting (Maize)	\$139 per hectare
Side dressing maize	\$83 per hectare

Rotary Hoe	\$140 per hour
Ploughing	\$140 per hour
Power Harrow (6m)	\$140 per hour
Drilling (Roller seeder)	\$120 per hectare
Mowing	\$140 per hour
Windrowing / raking	\$140 per hour
Deep Ripping	\$140 per hour

Prices Exclude GST

Planting maize	\$120 per hectare
Undersowing	\$80 per hectare
Pasture weed spraying at 125 litres of water per ha	\$30 per hectare

2.4.4 Heading/Harvesting

The following are contract prices for one Canterbury contractor.

Cereals (incl cartage to silo – short cart)	\$260 per ha
Draper pickup harvesting	\$260 per ha
Direct heading of clover	\$270 per ha
Specialty crops eg Radish, Carrot	\$520 per hour
Peas / costs more if harvested in one direction	\$250 per ha / \$260 per ha

Rates vary with the type and quality of crop and the tonnage expected from it (i.e. a lower price is paid for crops on light soils with low yields). Rates will also vary with cartage distance to silo. Smaller size paddocks and heavier crops are charged at a higher rate per hectare. Allowance should be made for travelling time for trucks, labour and for bagging. A surcharge for work on hill country should also be allowed for.

In Waikato the average rate for heading is \$360 per hectare for maize.

2.4.5 Borderdyke Irrigation

See Section 2.18.14 and 2.18.15

2.4.6 Aerial Oversowing

Southland:

For aerial seeding in a fixed wing plane, costs range from approx \$35 per hectare. Costs vary depending on application rates, distance to block, and size and shape of the block.

Manawatu:

For aerial seeding in a fixed wing plane, costs range from \$75 to \$120 per hectare. This is mostly for forestry oversowing, either before replanting, or for weed control for later conversion to pasture.

Costs also range from \$9.90 for clover seed to \$22 per hectare for sowing down an area of new grass with an application rate of around 40kg of seed per hectare.

2.4.7 Dipping

Sheep Dipping (Canterbury): Costs are \$0.40 per head for labour, plus chemical costs. Price depends on winter or summer dipping, the length of wool, which affects the amount of wash used and length of time required under the shower. Price also depends on how many litres of chemical are used. If owners own chemical is used, costs are \$0.50 per head but will still depend on distance traveled and above factors.

2.4.8 Tailing / Dagging / Drenching

A Canterbury contractor: Travel costs are extra and ACC levies are another 6% on top

Sheep	Dagging / tup crutching using mobile crutching unit	\$0.67 per head
	Drenching, using sheep handler	\$88 per hour
<hr/>		
Another Canterbury contractor		
Lamb	Tailing – incl cost of gas, mobile yards	\$0.65 per head

Prices Exclude GST

2.4.9 Pregnancy Diagnosis

Scan Plus:

Sheep	- Triplets	75 cents per ewe
	- Twins	55 cents per ewe
	- Wet Dry	35 cents per ewe
Cows		\$1.60 per head
Deer		\$2.30 per head

Stockscan

Sheep	Triplets	\$0.75
	Twins	\$0.55
	Wet/ dry	\$0.45

Ultra-Scan Pregnancy Testing and Animal Services:

Cattle:	with a minimum charge of \$100	\$1.80 to \$2.50 per head for a full herd
Sheep:	(minimum of 300)	
	Wet / dry	\$0.50 per head
	Twin	\$0.60 per head
Goat		\$1.10 to \$1.50 for a full herd
Deer		\$3.00 per head

2.4.10 Muscle and Fat Detection

Stockscan:

Information is generated that *Stockscan* can then run through a programme to generate ranking information.

Muscle and fat detection	\$3.85 (negotiable for larger numbers)
Travelling costs up to \$75 - or more for long distances	

2.4.11 Miscellaneous Contracting

One Canterbury Contractor:

10 / 25 tonne bulldozer	\$200 per hour
Tractor and Post driver	\$100 per hour
Motor Scraper, 200hp, 9m ³	\$160 per hour
Grader, 18 tonne	\$150 per hour
Tipulator 10m ³	\$150 per hour
Farm track construction 6000 x 150mm	from \$10 per linear metre
Forestry clearing for pastoral development	from \$3500 per ha
Pipe layer up to 75mm for stock water	\$120.00 per hour
Silage bunker construction	from \$20.00 per cubic meter

Prices Exclude GST

Arbor-Tek Ltd:

Arborist	\$54.80 per hour
Ground Worker	\$48.45 per hour
Supervisor	\$54.80 per hour
Trimlift	\$68.50 per hour excl. operator
EWP (cherry picker)	\$68.50 per hour excl. operator
5 Ton Tipper	\$15.80 per hour excl. operator
Log Splitter	\$21.10 per hour excl. operator
Brush Chipper 12 inch	\$50.00 per hour excl. operator.
Chainsaws, Fuel and Miscellaneous.	\$42.00 per day
Utility Vehicle	\$2.00 per km
5 Ton Tipper	\$2.20 per km
Trimlift	\$2.75 per km
EWP (cherry picker)	\$2.75 per km

Note: Larger jobs can be undertaken because of access to larger logging equipment

Marlborough

Gun and Hose Spraying	\$57 per hour (1 person) \$79 per hour (2 people)
Forestry Track Boom Spraying	\$63 per hour
Mistblowing	\$35 per hour
Knapsack Spraying	\$30 per hour
Chainsaw, scrubcutting	\$35 per hour
Weedeating	\$35 per hour
Grubbing	\$30 per hour

Taranaki:

Hedge mulching – barberries and boxthorne	\$123 per hour for non-hay clients \$118 discounted for hay clients
General tractor work with 12 tonne trailer	\$110 per hour

Note:

Fencing Contractor rates see *Section 2.19.2*

Shearing rates see *Section 2.3.14*

Fertiliser spreading charges see *Section 2.6.4*

Spraying costs see *Section 2.9.16*

Grain Drying see *Section 2.11.2*

Prices Exclude GST

2.5 ELECTRICITY

2.5.1 Total Farm Electricity Costs

Depending on the type of farm size and locality, typical electricity costs (including domestic) are as follows:

Sheep and Beef	(per su)
Northland	\$0.77
Waikato / Bay of Plenty Intensive	\$1.12
Central North Island Hill Country	\$0.60
Gisborne Hill Country	\$0.50
Hawkes Bay / Wairarapa Hill Country	\$0.54
Eastern Lower North Is Intensive	\$0.97
Western Lower North Is Intensive	\$0.90
South Island High Country	\$0.71
Canterbury / Marlborough Hill Country	\$1.07
Canterbury / Marlborough Breeding and Finishing	\$0.57
Otago Dry Hill	\$0.87
Southland / South Otago Hill Country	\$0.57
Southland / South Otago Intensive	\$1.72
National	\$0.77
Dairy	(per cow)
Northland	\$41
Waikato / Bay of Plenty	\$38
Taranaki	\$41
Lower North Island	\$38
Canterbury	\$85
Southland	\$33
National	\$51
Deer	(per su)
North Island	\$1.54
South Island	\$1.95
Arable	(per ha)
Canterbury	\$86
Horticulture	(per ha)
Kiwifruit	\$230
Hawkes Bay Viticulture	\$271
Marlborough Viticulture	\$134
Hawkes Bay Pipfruit	\$200
Nelson Pipfruit	\$330

Source: MAF Horticultural and Pastoral Monitoring Reports – 2009

Prices Exclude GST

2.5.2 Regional Electricity Charges

- The bottom line on managing your electricity costs
- A guide for agribusiness customers
- Whatever type of agribusiness you have, there's potential to save money in running costs through careful management.

Meridian Energy – specialists in supplying electricity to agribusiness customers

Meridian provides electricity to agribusinesses throughout New Zealand – from the largest dairy operations to the smallest lifestyle block. Meridian is committed to generating electricity using renewable resources – wind and water.

As key users of electricity, you want to be sure you're getting the best deal possible on your power supply. At Meridian we have a dedicated Agribusiness Team, ready to assess and tailor the best possible power package to suit the specialised needs of your agribusiness.

And if you are already a Meridian customer – ring us to make sure your farm's power supply is at the best possible price for your current needs. Call 0800 496 777 today

Go to www.meridian.co.nz

Annual check up

- Review any new or replacement equipment installed (pumps, irrigation units).
- Electricity usage – when and how often you think you will use electricity in the coming year?
- Electricity usage will determine the capacity and charging option most suited to your agribusiness.

Understanding your Meridian electricity bill

Your monthly electricity bill tells you what, when and how you spend your energy.

Your electricity account will contain charges from a number of sources. The first charges are industry charges (Network/Lines Company) and they include:

1. A fixed charge (cents/day) for connection to the line company network.

Then either:

2. A variable charge (cents/unit) for use of the line company network, or
3. Depending on the required capacity, a 'capacity' charge maybe allocated to your account.

The Retailer portion of the account will contain:

- A fixed rate charge covering the use of meters and administration costs.
- A variable charge (cents/unit) for the energy consumed.

Electricity meters types

- Non-Half Hourly (NHH) meters are most commonly used in woolsheds, houses, garages and most cowsheds.

This type of metering is the most common and is usually single register. The electricity from this type of metering will be shown on your account as one amount being the total consumption used for the period. It is also possible to have day and night metering, where

Prices Exclude GST

the meter has two registers to record the electricity consumption. The day period is normally from 7am to 11pm but this can vary depending on the network company.

Time of Use (TOU) meters

Time of Use (TOU) meters are most commonly used for large irrigation systems and a limited number of large cowsheds.

Time of Use (TOU) metering is less common than Non-Half Hourly. TOU records electricity use in half hour blocks, providing 1,440 readings per month and 17,500 readings annually. TOU meters are normally for sites using greater than 500kva or 150,000 kilowatts a year. The use of TOU metering varies throughout New Zealand due to Network regulations.

The extra information available with TOU metering provides the electricity consumer the ability to analyse daily consumption and can be linked to other meters, like flow meters, to compare pump efficiencies. (Meridian offers a service called Irrigation Manager which makes this possible.)

Network / Line Companies

There are 23 different lines companies throughout the country. Network/lines company charges are unique to each company and region.

Meridian combines all charges together on your bill, including the capacity charge; depending on the type of metering you have e.g. TOU or NHH.

Network / Line Capacity Charges:

Sometimes, specific additional network charges also apply to a site with significant capacity (typically over 100 kVA). When applicable, Meridian will pass these charges on. In addition, if a site has a capacity greater than approximately 300 kVA, this may mean the site requires a TOU meter. A fixed term price per volume contract is required in this situation. Meridian offers TOU customers with a series of pricing products to choose from. These range from 100% fixed price to 100% spot market exposure options.

Electricity Pricing

Electricity pricing typically consist of two rates – variable rates, which are applied to the energy consumption (per kilowatt hour (kWh)) and typically range from 15 to 20 cents per kWh, and daily rates, which are applied to the number of days in a billing period (typically ranging from \$0.50 to \$3.00 per day).

Meridian offers a standard 10% prompt payment discount (PPD) when you pay, but an additional PPD is also available for customers who are members of CRT, ATS or RD1.

Published rates

Published rates are the current rates available to all customers.

Seasonal or Irrigation pricing

Seasonal or irrigation pricing is offered by Meridian in a number of networks.

Fixed Term Contracts

Meridian offers contracts with fixed rates and periods, which provides certainty for budgeting; these are usually two years in length. Call the Meridian Agribusiness Team on 0800 496 777 to check the availability of the contracts in your area.

Rates (as at 1 April 2009)

The following charges from Meridian are a guide to Meridian's published rates at 1 April

Prices Exclude GST

2009. Please note that these rates could change at any time, and there may be special offers available. Electricity usage requirements will determine the capacity and charging options most suited to your farm. Call Meridian's Agribusiness Team on 0800 496 777 to discuss options for your region.

A prompt payment discount of 10% will apply if invoices are paid in full by the due date. If you're with CRT, ATS or RD1 you'll receive an additional 2% PPD.

An Electricity Commission Levy Charge of 0.16 cents per kWh will apply. All rates include GST and network fees.

Northland

MeridianPlus Anytime	26.00 cents per kWh
MeridianPlus Controlled	20.00 cents per kWh
MeridianPlus Daily	92.00 cents per day

Hawke's Bay (Based on 15-69 kVa connection)

MeridianPlus Economy 24	22.00 cents per kWh
MeridianPlus Daily	326.00 cents per day

Canterbury (Orion Network)

MeridianPlus Anytime	22.00 cents per kWh
MeridianPlus Daily	79.00 cents per day

MeridianPlus Day/Night Day	26.00 cents per kWh
MeridianPlus Day/Night Night	11.00 cents per kWh
MeridianPlus Daily	79.00 cents per day

MeridianPlus Week Day	28.00 cents per kWh
MeridianPlus Weekday Night & Weekend	11.00 cents per kWh
MeridianPlus Daily	79.00 cents per day

Ashburton (Based on a 50 kVa connection)

MeridianPlus Anytime	22.00 cents per kWh
MeridianPlus Daily	154.00 cents per day

MeridianPlus Day/Night Day	20.00 cents per kWh (Summer)
MeridianPlus Day/Night Day	24.00 cents per kWh (Winter)
MeridianPlus Day/Night Night	18.00 cents per kWh (Summer)
MeridianPlus Day/Night Night	21.00 cents per kWh (Winter)
MeridianPlus Daily	154.00 cents per day

Waitaki (Based on a 31-50 kVa connection)

MeridianPlus Anytime	18.00 cents per kWh
MeridianPlus Daily	164.00 cents per day

MeridianPlus Seasonal Day/Night Day	19.00 cents per kWh (Summer)
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Prices Exclude GST

MeridianPlus Seasonal Day/Night Day	22.00 cents per kWh (Winter)
MeridianPlus Seasonal Day/Night Night	11.00 cents per kWh (Summer)
MeridianPlus Seasonal Day/Night Night	14.00 cents per kWh (Winter)
MeridianPlus Daily	164.00 cents per day

Alpine (Based on 3Phase 60amp connection)

MeridianPlus Anytime	15.00 cents per kWh (Summer)
MeridianPlus Anytime	19.00 cents per kWh (Winter)
MeridianPlus Daily	381.00 cents per day

MeridianPlus Day/Night Day	17.00 cents per kWh (Summer)
MeridianPlus Day/Night Day	21.00 cents per kWh (Winter)
MeridianPlus Day/Night Night	10.00 cents per kWh (Summer)
MeridianPlus Day/Night Night	13.00 cents per kWh (Winter)
MeridianPlus Daily	381.00 cents per day

Southland (Based on 3 Phase 50 kVa connection)

MeridianPlus Anytime	18.00 cents per kWh (Summer)
MeridianPlus Anytime	21.00 cents per kWh (Winter)
MeridianPlus Daily	577.00 cents per day

MeridianPlus Day/Night Day	21.00 cents per kWh (Summer)
MeridianPlus Day/Night Day	24.00 cents per kWh (Winter)
MeridianPlus Day/Night Night	9.00 cents per kWh (Summer)
MeridianPlus Day/Night Night	13.00 cents per kWh (Winter)
MeridianPlus Daily	428.00 cents per day

Talk to our team of agribusiness specialists for a comparison price check. It's a small choice that can make a big difference to your bottom line.

2.5.3 Cost of Power Installation

The average network company installation charge for 1 kilometre of power line in rural areas is \$38,000 to \$47,000.00 + GST (for 11,000 volt overhead lines). Price varies depending on the distance to be installed i.e. the shorter the distance the more it costs per metre, up to 350 metres, and then prices start to level out.

2.6 FERTILISER and LIME

2.6.1 Fertiliser

Ballance Agri-Nutrients Ltd:

Price per tonne bulk ex works Awarua (South Island), Whangarei and Mt Maunganui (North Island.) * South Island only ** North Island only

N	P	K	S	Mg	Ca		\$ per tonne
Superten							
-	9.0	0	10.5	-	22	Superten	\$310.00
-	8.1	5.0	9.5	-	20	Superten 5K	\$399.60
-	7.7	7.5	8.9	-	19	Superten 7K	\$441.40
-	7.2	10.0	8.4	-	18	Superten 10K	\$317.80
-	6.3	15.0	7.4	-	15	Superten 15K	\$566.80
-	4.5	25.0	5.3	-	11	Superten 25K	\$734.00
Pasturezeal							
N	P	K	S	Mg	Ca		North Is and South Is
9.5	5.9	5.0	6.9	1.2	15	Pasturezeal G2 5K	\$475.16
7.6	5.5	10.0	6.4	1.0	14	Pasturezeal G2 10K	\$544.25
7.6	4.6	15.0	5.3	1.0	12	Pasturezeal G2 15K	\$627.85
6.6	6.2	7.0	7.3	0.8	16	Pasturezeal G2 balancer	\$486.83
5.7	7.7	-	9.0	0.7	19	Pasturezeal G2 9S	\$359.53
5.7	5.1	12.0	11.2	0.7	13	Pasturezeal G2 Pumice	\$585.17
Pasturemag							
N	P	K	S	Mg	Ca		North Is and South Is
6.9	5.8	-	7.1	4.3	14	Pasturemag	\$345.15
6.2	5.2	5.0	6.4	3.8	13	Pasturemag 5K	\$429.13
5.9	4.9	7.5	6.1	3.6	12	Pasturemag 7K	\$469.67
5.5	4.6	10.0	5.7	3.4	11	Pasturemag 10K	\$510.12
4.8	4.0	15.0	5.0	3.0	10	Pasturemag 15K	\$588.11
11.5	5.1	-	6.3	3.8	12	Pasturemag 12N	\$379.25
6.2	5.2	-	15.9	3.8	13	Pasturemag 16S	\$349.53
6.0	5.2	6.0	10.9	2.7	13	Pasturemag peat / pumice	\$466.87**
N-rich							
46.0	-	-	-	-	-	N-rich	\$619.00
46.0	-	-	-	-	-	N-rich single trip 500kg bags	\$683.00*
30.4	-	-	14	-	-	N-rich ammo	\$635.05
27.6	-	20.0	-	-	-	N-rich 20K	\$840.00
23.0	-	25.0	-	-	-	N-rich 25K	\$892.00
Cropzeal							
N	P	K	S	Mg	Ca		\$ per tonne
13.5	15.1	12.5	0.8	-	-	Cropzeal 15P	\$915.00
15.4	8.0	10.0	9.6	-	-	Cropzeal 16N	\$822.60
19.3	10.1	-	12.0	-	-	Cropzeal 20N	\$736.50
9.0	10.1	25.0	0.5	-	-	Cropzeal 25K	\$994.00
5.8	4.8	7.3	5.9	3.5	12	Cropzeal Brassica Base	\$496.85
-	5.2	11.5	14.0	1.9	13	Lucerne Fertiliser	\$546.23*

Prices Exclude GST

-	6.0	11.8	14.7	-	15	Lucerne Mix Fertiliser	\$551.15*
5.1	4.4	5.0	11.2	3.3	11	Crop Fertiliser	\$466.60**
Sulphur Fertilisers							
-	8.6	-	14.8	-	21	Sulphur Gain 15S	\$314.43
-	8.1	-	20.0	-	20	Sulphur Gain 20S	\$313.00
-	7.3	-	29.5	-	17	Sulphur Gain 30S	\$303.00
-	5.4	-	45.9	-	13	Sulphur Gain 50S	\$320.75
-	6.9	7.5	17.0	-	17	15% Potash sulphur super	\$441.25
-	6.5	10.0	16.0	-	16	20% Potash sulphur super	\$483.40
-	5.7	15.0	14.0	-	14	30% Potash sulphur super	\$567.35
-	4.1	25.0	10.0	-	10	50% Potash sulphur super	\$735.25
-	-	-	95	-	0	Durasul Sulphur	\$350.00
Phosphate Fertilisers							
-	20.5	-	-	-	14	Triple Super	\$1,050.00
-	14.8	-	5.3	-	18	Superxtra	\$686.00
Potash Fertilisers							
-	-	50.0	-	-	-	Muriate of potash	\$1,146.00
-	-	42.0	17.0	-	-	Sulphate of potash	\$1,350.00
Nitrogen Fertilisers							
20.5	-	-	23.0	-	-	Sulphate of Ammonia	\$631.00
18.0	20.1	-	1.0	-	-	DAP Di Ammonium Phosphate	\$830.00
10.8	14.9	-	12.4	-	7	DAP sulphur super	\$625.20
8.6	11.9	10.0	9.9	-	6	20% Potash DAP sulphur super	\$735.36
Magnesium Fertilisers							
-	6.8	-	8.4	5.0	16	Serpentine super	\$285.00
-	6.1	5.0	7.6	4.5	15	Serpentine super 5K	\$377.10
-	5.8	7.5	7.1	4.3	14	Serpentine super 7K	\$420.15
-	5.4	10.0	6.7	4.0	13	Serpentine super 10K	\$463.20
-	4.8	15.0	5.9	3.5	12	Serpentine super 15K	\$549.30
-	3.4	25.0	4.2	2.5	8	Serpentine super 25K	\$721.50
-	-	-	-	50.0	2	Calmag	\$680.00
-	7.0	-	19.1	2.5	17	Serpentine gold	\$301.50*
-	8.1	-	9.5	5.0	20	Magphos	\$353.00**
DCn, Nitrogen Inhibitor							
17	-	-	-	-	-	DCn Multi refill 500kg	\$1,874.00
32	-	-	-	-	-	n-rich DCn 32N multi refill 500kg bags	\$1,194.80
32	-	-	-	-	-	n-rich DCn 32N multi refill 1,000kg bags	\$1,182.80
Horticulture Products							
27	-	-	-	2	4	Yara Bela can	\$590.00
12	5	15	8	2	3	Yara Mila complex	\$990.00
16	-	-	-	-	19	Yara Nitrabor 25kg bags	\$995.00
16	-	-	-	-	19	Yara Tropicote 25kg bags	\$962.00
-	-	-	16.0	16.0	-	Keiserite Granular 25kg bags	\$520.00
Bioshield						Bioshield grass grub 15kg bags	\$47.55

Prices Exclude GST

Quantum Grow Ltd:

Liquid Cut Flower Food:

Chrysal:	Clear Professional 2	10 litres	\$241.80
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Omnia Primaxa Ltd:

Pastoral and Arable: Fertilisers, Trace Element Concentrates and Soil Conditioners

N	P	K	S	Type	5 litre	10 litre	20 litre	200 litre
11	6	7	0	Reaction Classic			\$127	\$1,027
6	5	13	0	Reaction Hiyield			\$133	\$1,094
17	5	5	0	Reaction Vigour			\$125	\$1,008
7	11	6	0	Reaction Premium			\$156	\$1320
32				Reaction High N			\$124	\$942
		32		Reaction High K			\$186	\$1618
15			34	Reaction High S			\$120	\$965
32				Reaction Rapid N				\$930
				Boron 150g/l	\$56	-	\$191	-
N	P	K	S	Type	5 litre	10 litre	20 litre	200 litre
				Cobalt Chelate	\$272	-	-	-
				Copper Chelate	\$50 (2 lit)	\$117 (5 lit)		
				Manganese Chelate	\$74	\$130	-	-
				Zinc Chelate	\$105	\$201	-	-
				Terraboost			\$145	\$1,212
			19	Super Sulphur			\$104	\$804
14				Qualigrass				\$765
				Super Seaweed			\$142	\$1,207
				Millennium 3			\$110	\$890
Horticultural Range:						20 litre		200 litre
Amino-N							\$365	\$3160
Bactalife							\$435	\$4145
Boronplus							\$90	
Calciphos								\$970
Calcium							\$50	\$310
Calcium N							\$80	\$605
Calflow						\$46 (10 litre)		
Crop-Xcel							\$365	\$3160
Foliar N							\$64	
Foliar K							\$129	\$1183
Fosfonate							\$170	\$1325
Magplus							\$72	
Earlyboost							\$97	
Folex Hiyield							\$150	\$1300

Prices Exclude GST

*Hatuma Lime Co:***Phosphate:**

N	P	K	S		per tonne
0	4	0	5.5	No 1 Dicalcic + 5% Magnesium	\$290.80
0	3.6	0	4.4	No 8 80% Dicalcic Phosphate 20%Generate	\$185.25
0	2.7	0	3.3	No 9 60% Dicalcic Phosphate 40%Generate	\$146.40
0	1.8	0	2.2	No 14 40% Dicalcic Phosphate 60% Generate	\$107.70
0	1.8	0	4	No 14s 40% Dicalcic P(inc 10% Sulphur) 60% Generate	\$114.90
0	0.8	0	1.2	No 19 20% Dicalcic Phosphate 80% AgLime	\$63.30

Sulphur:

				GenerateS	\$66.50
0	4	0	10	Dicalcic Phosphate 10% Sulphur	\$232.70

Potash:

0	4	7	5	15% Potassic Dicalcic Phosphate	\$383.10
0	3	15	4	30% Potassic Dicalcic Phosphate	\$542.10
0	2	12.5	2.7	Dairy Blend + 1.8% mag./8% salt	\$486.85

Beef/Dairy and Sheep:

0	2.7	0	3.3	No 4 10% Salt	\$215.25
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Egmont Commercial Ltd:

Fertiliser Sulphate Iron	25 kg	\$29 50
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Controlled release fertilisers:

N	P	K				
14	3.5	12.5	Plantacote - plus trace elements	8 month release	25kg	\$179.00
22	2.2	8	PlantoDur - plus trace elements	1-2 years	10kg	\$125.00

*Livestock Supplies (N.Z.) Ltd:***Fertilisers:**

Calcium nitrate	kg	\$1.50
Diammonium phosphate	kg	\$1.25
Gypsum	25 kg bag	\$14.50
Melspray 16.14.13 and trace elements	kg	\$4.20
Melspray 20.9.17.3 and trace elements	kg	\$4.00
Mono potassium phosphate	kg	\$3.75
Muriate potash	kg	\$1.50
Potassium nitrate	kg	\$3.90
Sulphate potash soluble / granular	kg	\$2.45 / \$1.65
Sulphate of Ammonia (Tek)	kg	\$0.85 (\$1.45)
Sulphur – Prills/Fine Granular	kg	\$0.80 / \$0.92
Superphosphate	kg	\$0.56
Urea	kg	\$0.85

Prices Exclude GST

Livestock Supplies (N.Z.) Ltd:

Trace Elements:

Boron 48	per kg	\$1.48
Boronat	per kg	\$1.35
Cobalt Sulphate	per kg	\$18.00
Copper Chelate	per kg	\$16.35
Copper Sulphate Fine / Granular	per kg	\$3.95 / \$3.95
EMag Fertiliser	per kg	\$0.70
Flours of Lime	per kg	\$0.24
Iron Mono / Sulphate	per kg	\$1.20 / \$1.00
Livestock Supplies 1-year Selenium Chip - ORGANIC	per kg	\$3.90/ \$5.00
Magnesium Chloride Flake/Natural	per kg	\$0.52/\$0.44
Magnesium Phosphate	per kg	\$1.00
Magnesium Sulphate	per kg	\$0.50
Manganese Sulphate, fert grade	per kg	\$1.85
Potassium Carbonate	per kg	\$4.75
Potassium Iodate	per kg	\$62.00
Selcote Ultra Selenium	per kg	\$6.30
Sodium Molybdate	per kg	\$67.00
Sodium Sulphate	per kg	\$1.62
Ultra Selenium and 210g / 350g cobalt	per hectare	\$6.70 to \$10.00
Zinc Chelate Powder	per kg	\$19.05
Zinc Hepto/Mono Granular	per kg	\$1.75 / \$1.70
Zinc Oxide/Powder	per kg	\$5.75 / \$1.52

Ravensdown Fertiliser Co-Operative Ltd

Prices are direct debit prices, ex port store – Nelson, Hornby, Seadown or Ravensbourne.

N	P	K	S	Mg	Ca		\$ per tonne (bulk)
Pastoral Fertilisers							
N	P	K	S	Mg	Ca		\$ per tonne (bulk)
0.0	9.1	0.0	10.8	0.0	20	Superphosphate	\$311.00
18.0	20.0	0.0	1.0	0.0	0	Cropmaster DAP	\$827.00
46.0	0.0	0.0	0	0.0	0	Urea	\$620.00
0.0	20.5	0.0	1.0	0.0	16	Triple Super	\$1,050
0.0	6.7	0.0	8.6	5.5	15	Serpentine Super / Drilling Super	\$284.00
0.0	12.7	0.0	0	0.0	33	Reactive Phosphate Rock (Ben Guerir)	\$520.00
0.0	12.8	0.0	14.6	0.0	17	TSP Sulphur Super	\$609.00
0.0	14.9	0.0	5.9	0.0	18	Super Extra P	\$686.90
10.8	14.8	0.0	12.6	0.0	6	DAP 13 S	\$623.00
5.1	6.8	0.0	14.1	0.0	15	Super Boost	\$388.40
0.0	9.9	0.0	15	0.0	25	RPR 15S	\$416.90
0.0	10.4	0.0	12	0.0	26	RPR/Sulphur Super	\$438.80
Sulphur Fortified Fertilisers							
0.0	8.7	0.0	14.7	0.0	19	Sulphur Super 15	\$315.40
0.0	8.1	0.0	20.5	0.0	18	Sulphur Super 20	\$312.40
0.0	7.0	0.0	30.1	0.0	16	Sulphur Super Extra 30	\$301.00

Prices Exclude GST

0.0	5.1	0.0	47.0	0.0	11	Maxi Sulphur Super	\$288.00
Superphosphate and Trace Elements							
0.0	9.1	0.0	10.8	0.0	20	Molybdenum Super (500g)	\$347.76
0.0	9.3	0.0	10.8	0.0	20	Cobalt Super (1kg. 21% Co)	\$354.63
0.0	8.9	0.0	10.9	0.0	20	Copper Super 25kg	\$430.65
0.0	9.1	0.0	10.8	0.0	20	Selenium Super (2kg)	\$333.27
0.0	5.6	14.7	13.1	0.0	12	Lucerne Mix + TE	\$616.31
0.0	7.0	0.0	30.1	0.0	16	Moly Sulphur Super 30 (250g)	\$322.58
0.0	7.0	0.0	30.1	0.0	16	Moly Sulphur Super 30 (500g)	\$337.77
Potassium Fertilisers							
0.0	8.2	5.0	9.7	0.0	18	10% Potash Super	\$400.90
0.0	7.7	7.5	9.2	0.0	17	15% Potash Super	\$442.65
0.0	7.3	10.0	8.6	0.0	16	20% Potash Super	\$484.40
0.0	6.4	15.0	7.6	0.0	14	30% Potash Super	\$567.90
0.0	4.6	25.0	5.4	0.0	10	50% Potash Super	\$734.90
0.0	6.8	7.5	17.4	0.0	15	15% Potash Sulphur Super	\$438.40
0.0	6.4	10.0	16.4	0.0	14	20% Potash Sulphur Super	\$480.40
0.0	5.6	15.0	14.3	0.0	13	30% Potash Sulphur Super	\$564.40
0.0	0.0	50.0	0.0	0.0	0	Potassium Chloride	\$1,146.00
0.0	0.0	42.0	18.0	0.0	0	Potassium Sulphate Granular	\$1,347.00
Other General Fertilisers							
6.4	5.1	6.5	13.5	0.0	11	Hi-Gro Granular	\$525.15
4.1	6.6	4.0	12.6	0.0	14	Dairy Pasture Boost 4	\$441.00
4.1	6.2	6.0	12.1	0.0	14	Dairy Pasture Boost 6	\$474.40
4.1	5.8	8.0	11.7	0.0	13	Dairy Pasture Boost 8	\$507.80
4.1	5.5	10.0	11.3	0.0	12	Dairy Pasture Boost 10	\$541.20
4.1	5.1	12.0	10.8	0.0	11	Dairy Pasture Boost 12	\$574.60
4.7	5.6	7.5	12.2	0.0	12	15% Potash Super Nitro	\$507.97
4.4	5.3	10.0	11.5	0.0	12	20% Potash Super Nitro	\$545.75
4.8	4.8	12.0	11.3	0.0	10	Ravensdown Pasture 4	\$584.83
5.6	5.5	6.0	13.1	0.0	12	Ravensdown Pasture 6	\$495.13
Cropmaster DAP based							
18.0	20.0	0.0	1.0	0.0	0	Cropmaster DAP	\$827.00
10.8	12.0	20.0	0.6	0.0	0	Cropmaster 11	\$961.40
12.6	14.0	15.0	0.7	0.0	0	Cropmaster 13	\$929.10
15.1	10.0	10.0	7.7	0.0	0	Cropmaster 15	\$838.40
15.5	7.0	22.5	0.4	0.0	0	Cropmaster 16, High K Bulk	\$935.55
19.3	10.0	0.0	12.5	0.0	0	Cropmaster 20	\$735.40
14.4	16.0	10.0	0.8	0.0	0	Cropmaster Brassica Mix	\$897.20
13.9	15.4	9.5	0.8	0.0	0	Cropmaster Brassica + Boron	\$915.73
Nitrogen Fertilisers							
46	0.0	0.0	0.0	0.0	0	Urea	\$620.00
20.5	0.0	0.0	24.0	0.0	0	Ammonium Sulphate (Standard)	\$595.00
20.5	0.0	0.0	24.0	0.0	0	Ammonium Sulphate (Granular)	\$631.00
6.2	6.4	0.0	14.8	0.0	14	Nitrogen Super	\$402.60
27.0	0.0	0.0	0.0	0.0	8	Calcium Ammonium Nitrate (CAN)	\$590.00

Prices Exclude GST

30.7	0.0	0.0	14.4	0.0	0	Ammo 31	\$633.00
35.8	0.0	0.0	9.6	0.0	0	Ammo 36	\$630.80
Ammo-Phos MAP based							
11.0	22.0	0.0	1.0	0.0	0	Ammo-Phos MAP	\$990.00
7.7	15.4	15.0	0.7	0.0	0	Ammo-Phos/Hycrop 8-15-15	\$1,043.20
9.4	18.7	7.5	0.9	0.0	0	Ammo-Phos/Hycrop 9-19-7	\$1,019.80
High Analysis Compounds (Nitrophoska) * bagged price							
12.0	10	10	0.4	1.2	5	Ravensdown 12-10-10 Bulk	\$990.00
12.0	5.2	14.1	6.0	1.2	5	Nitrophoska Blue TE	\$990.00
12.0	5.2	14.0	6.0	1.2	5	Nitrophoska Blue Extra	\$1,070.00*
15.0	2.2	16.6	8.0	1.2	2	Nitrophoska Perfekt	\$1,597.00*
Nitrophoska Custom							
10.5	4.6	12.3	7.3	2.6	4	Nitrophoska Blue TE +Boron +Mag	\$958.90
9.2	4.0	10.9	9.2	4.4	4	Nitrophoska Blue TE + Kieserite	\$888.30
14.6	6.5	6.5	2.3	2.3	5	NitroYellow	\$849.40
9.7	3.6	13.6	7.8	3.5	4	Cutting's Avocado Regular Mix + Te	\$1,134.15*
14.0	3.7	11.9	3.8	1.6	5	Cutting's Avocado Young Mix + Te	\$1,117.99*
12.2	4.5	4.5	6.2	5.0	4	Citrus 12-5-5	\$757.52
17.0	2.1	5.6	5.4	2.7	6	Citrus 17-2-6	\$748.02
10.0	4.3	14.2	8.8	2.3	3	Olive Tree Mix	\$1,454.93*
Horticultural Fertilisers: (bulk)							
N	P	K	S	Mg	Ca		\$ per tonne
11.5	8.0	6.7	10.8	1.2	4	Early Potato Base	\$689.39
0.0	0.0	0.0	20.0	15.0	0	Esta Kieserite (Granular)	\$520.00
10.8	6.0	7.6	13.6	0.9	4	Brassica Base ½ SOP	\$728.21
Water Soluble							
N	P	K	S	Mg	Ca		
15.5	0.0	0.0	0.0	0.	19	Calcium Nitrate (bagged)	POA
0.0	0.0	0.0	13.0	9.9	0	K + S Magnesium Sulphate (Bittersalz) (25 kg)	\$621
46.0	0.0	0.0	0.0	0.0	0	Low Biuret Urea (bagged)	POA
10.5	0.0	0.0	0.0	9.4	0	Magnesium Nitrate (25 kg)	POA
0.0	22.6	28.7	0.0	0.0	0	Mono Potassium Phosphate (25 kg)	POA
13.0	26.0	0.0	0.0	0.0	0	Mono Ammonium Phosphate (tech)25 kg	POA
13.0	0.0	38.0	0.0	0.0	0	Potassium Nitrate (crystalline) 13- 0-38 AH (25 kg)	POA
13.0	0.0	38.0	0.0	0.0	0	Potassium Nitrate (prilled) 13-0-38 AH (bagged)	POA
0.0	0.0	42.0	18.0	0.0	0	Solupotasse (Potassium Sulphate) (25kg)	POA
7.8	17.2	8.2	7.5	2.4	0	Omni-start (25kg bag)	\$86.07
4.6	4.5	24.4	5.2	0.0	0	Nutriplex (25kg bag)	\$75.55
8.9	4.0	17.0	13.0	4.4	0	Omni-gro (25kg bag)	\$56.27

Prices Exclude GST

Rural Research Limited: (October 2009)

Liquid Fertilisers – Nitrosol Liquid Suspension Biological Fertiliser.

N	P	K	S	Name	Quantity	Price
8	3	6	2	Nitrosol Original for horticulture	5 litre	\$64.00
8	3	6	2	Nitrosol Original for horticulture	20 litre	\$180.00
8	3	6	2	Nitrosol Original for horticulture	60 litre	\$460.00
8	3	6	2	Nitrosol Original for horticulture	200 litre	\$1058.00
8	3	6	2	Nitrosol Original for horticulture	1000 litre	\$5060.00
8	3	6	2	Nitrosol Oceanic for pasture	5 litre	\$68.00
8	3	6	2	Nitrosol Oceanic for pasture	20 litre	\$187.00
8	3	6	2	Nitrosol Oceanic for pasture	60 litre	\$473.00
8	3	6	2	Nitrosol Oceanic for pasture	200 litre	\$1081.00
8	3	6	2	Nitrosol Oceanic for pasture	1000 litre	\$5175.00
3	3	6	2	Nitrosol Organic (AsureQuality)	5 litre	\$72.00
3	3	6	2	Nitrosol Organic (AsureQuality)	20 litre	\$196.00
3	3	6	2	Nitrosol Organic (AsureQuality)	60 litre	\$483.00
3	3	6	2	Nitrosol Organic (AsureQuality)	200 litre	\$1093.00
3	3	6	2	Nitrosol Organic (AsureQuality)	1000 litre	\$5233.00
13	0	0	0	Nitrosol Peptone Amino (100% soluble, (AsureQuality))	10 kg carton	\$293.00

NB:All prices are plus freight at cost and GST.

Bell-Booth Ltd: Liquid fertilisers and pasture trace elements

Supacrop Soluble Foliar Fertiliser:	Pack size	Retail price
Crop Spray (27-7-10)	10 kg	\$79.00
Soluble Phosphate (9-20-10)	10 kg	\$79.00
Soluble Potassium (6-6-30)	10 kg	\$79.00
Supacrop foliar sprays for pasture and crops:		
Fodder Blend	20 / 200 / 1000 L	\$138 / \$1,100 / \$4,780
Cereal Blend	20 / 200 / 1000 L	\$131 / \$1,223 / \$4,882
Lucerne Blend	20 / 200 L	\$123 / \$1,113
Stabilised N (liquid nitrogen)	20 / 200 / 1000 L	\$137 / \$1,050 / \$4,620
Pasture Spraying Trace Elements:		
AHX Boron	20 L	\$155.00
AHX Cobalt Supreme	5 / 20 L	\$172.50 / \$632.50

Bell-Booth Ltd: Bio-stimulants for pasture

Product	Pack size	Retail Price
Maxicrop Triple- Farm Concentrate	5 / 20 / 100 litre	\$65.00 / \$218.00 / \$950.00
	200 / 1000 litre	\$1,727.00 / \$8,100.00
Combo	200 / 1000 litre	\$1,391.00 / \$5,791.00
N-telligent	200 litre	\$1,391.00
Humusol Soil Conditioner	20 / 200 litre	\$130.00 / \$880.00

Prices Exclude GST

Phosphorus Availability:

To give an indication of the quickly available (to plants) phosphorus content of fertilisers, a citric solubility test is required for all phosphate fertilisers in New Zealand. With some fertilisers, particularly those containing reactive phosphate rock (RPR), the amount of plant available phosphorus is greater than indicated by the citric acid test. For such fertilisers *Ravensdown Fertiliser Co -op Ltd* has provided an estimate of the potentially available phosphorus (PAP). They state that the PAP estimates take into account slowly available phosphorus, which is a better guide to the value of the fertiliser for use on pasture.

Product:	Total P	Cit.sol.P	PAP
Superphosphate 0-9-0	9	8.5	8.8
15% Potash Super 0-8-8	8	7.2	7.6
Cropmaster DAP 18-20-0	20	20	20
Longlife Super 0-10-0	10	6.8	10
North Carolina RPR 0-13-0	13	4	13

Sulphur Availability:

The sulphur contained in fertilisers may be either quickly or slowly available (or intermediate) depending on the blend of sulphate sulphur (quick) and elemental sulphur (slow).

Fertilisers with only quickly available (sulphate) sulphur include: super phosphate, long-life super, potash super mixes and 'crop' or 'nitrogen' type fertilisers based on ammonium sulphate or potassium sulphate.

Fertilisers with mainly slowly available sulphur are those containing elemental sulphur such as RPR plus sulphur mixes, PAPR plus sulphur mixes and sulphur bentonite prills.

Fertilisers which have a mix of both quickly available and slowly available sulphur include sulphur supers and longlife sulphur supers.

Trace Elements:

As a guide the table below indicates the amount of additive (containing the trace element) which would normally be added to one tonne of fertiliser mixture, and the amount of the element which would be supplied (to one hectare) if the application rate was 250kg per hectare.

Trace Element	Form of additive	Additive per tonne	Element per ha
Boron	Sodium borate	25kg	0.94 kg B per ha
Cobalt	Cobalt sulphate	1.5kg	0.053kg Co per ha
Copper	Copper sulphate	25kg	1.56 kg Cu per ha
Selenium	Sodium selenate prills	4kg	0.01 kg Se per ha
Molybdenum	Sodium molybdate	0.25kg	0.025kg Mo per ha

Other additives available are Ferrous Sulphate, Zinc Sulphate, Manganese Sulphate, Magnesium Oxide, and Sodium Chloride.

Prices Exclude GST

2.6.2 Lime

Hatuma Lime Co Ltd:

	\$ per tonne
Hatuma Generate, formerly Cropfine	\$25.00
Agricultural Lime	\$18.00

McDonald's Lime Ltd: (Otorohanga)

	\$ per tonne
Agricultural Lime - bulk	\$24.00
- 1 tonne bulk bag	\$185.00
- 25kg bags	\$200.00
Calcimate - 25 kg bags	\$260.00
Hydrated Lime - 20 kg bags	\$550.00

Parkside Quarries Ltd: (Oamaru Stone)

Green Lime	ex-Quarry	\$14.50 per tonne
Kiln Dried Lime	ex-Quarry	\$20.00 per tonne
Track Lime for cow lanes etc	ex-Quarry	\$10.50 per tonne
Fine Lime	ex-Quarry	\$50.00 per tonne

Certified weighbridge available

Ravensdown Ltd:

Lime	\$ per tonne
South Island	
Ex Balfour, Southland	\$29.55
Ex Dipton, Southland	\$24.63
Ex Geraldine	\$23.15
Ex Ngarua, Takaka	\$23.64
Ex White Rock, Rangiora	\$25.61
Ex Westport Lime	\$28.89
North Island	
Ex Browns, Dannevirke	\$19.70
Ex East Cape Lime	\$25.61
Ex Greenleaf, Dargaville	\$17.73
Ex Ravensdown Supreme Lime, Te Kuiti	\$22.16
Ex Waikaretu	\$22.66
Ex Websters, Havelock North	\$18.22

Livestock Supplies:

Standard Lime / Lime Calcimate	per kg	\$0.07 / \$0.20
Lime – Burnt	25 kg	\$12.50
Lime – Hydrated	per bag	\$14.50

Prices Exclude GST

Rural Research Ltd:

PhloLime – sprayable rapid action lime		
PhloLime	20 litres	\$115.00
PhloLime	125 litres	\$328.00

Egmont Commercial Ltd:

Dolomite Lime	25 kg	\$7.95
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2.6.3 Fine Grind Dolomite

Ravensdown Fertiliser Co-op Ltd:

South Island		
ex Whiterock		\$375.45 per tonne
North Island		
ex Te Pahu		\$324.07 per tonne

Livestock Supplies (N.Z.) Ltd:

Dolomite		\$0.39 per kg
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2.6.4 Fertiliser Spreading/Application Costs

(i) Ground Spreading

N.T. Wealleans Ltd: (Waikato / BOP)

kg/ha	(cwt/acre)	Price per tonne
50 to 150kg / ha	(0.4 to 1.2)	\$11.50 per ha
200	(1.6)	\$53.00
250	(2.0)	\$48.20
300	(2.4)	\$40.62
350	(2.8)	\$39.94
400	(3.2)	\$39.24
450	(3.6)	\$38.56
500	(4.0)	\$37.87
550	(4.4)	\$37.18
600	(4.8)	\$36.50
650	(5.2)	\$35.81
700	(5.6)	\$35.12
750	(6.0)	\$34.43
800	(6.4)	\$33.74
850	(6.8)	\$33.06
900	(7.2)	\$32.37
1000	(8.0)	\$30.98
1250kg	(1.0)	\$20.60
2500	(19.9)	\$17.49
Chicken litter spread		\$35.00

Note: Minimum \$155 cart and spread. Spread per hour is \$170. There is an additional 10% charge (that is, rate + 10%) for fertilizer application on cultivated ground

Prices Exclude GST

Canterbury:

Boag Contracting (Rakaia) charges a flat rate of \$11.50 per hectare for cartage and spreading for rates of up to 500kg per ha. Above that, a flat figure of \$15.50 per hectare is charged.

Another contractor charges \$6.80 per hectare (flat rate) for spreading, \$24.00 per tonne for cartage ex Christchurch factory, with a minimum spreading charge of \$120.

(ii) Fixed Wing Spreading

The cost of aerial spreading of fertilizer varies greatly and depends very much on the location, condition of the airstrip, the rate of climb required, the weather and the rate of application. Most firms prefer to quote for individual situations rather than publish fixed rates. For the aerial (fixed wing) spreading of superphosphate and lime, the following are approximate costs.

Southland:

Superphosphate	\$65 to \$95 per tonne
Lime	\$50 to \$65 per tonne

The aerial rate for liquid fertiliser spreading is \$20 per ha, for jobs larger than 120 hectares, and \$33 per ha for jobs smaller than 20 hectares.

Canterbury:

Superphosphate	\$55 to \$90 per tonne
Lime – rate 1 tonne per ha	\$35 to \$55 per tonne

Waikato:

Superphosphate	from \$65.45 per tonne
Lime	from \$51.40 per tonne
Urea	from \$14.50 per ha

Wairarapa:

Superphosphate	\$65 to \$75 per tonne
Lime	\$45 to \$60 per tonne

Palmerston North:

Superphosphate	250 kg per hectare application	\$55 to \$70 per tonne
Lime		\$45 to \$60 per tonne

Prices Exclude GST

(iii) Helicopter

Helicopter spreading depends on the application rate, block size and positioning distance.

Auckland		\$200 to \$300 per tonne
		\$1450 per hour for Jet Ranger/\$2100 per hour for Squirrel
Application of product generally works out to between \$180.00 and \$225.00 per tonne of product applied, which is based on the hourly rate below for Hawkes Bay.		
Hawkes Bay		\$1,450 per hour
Marlborough	- lime	\$200 per tonne and upwards
	- superphosphate	\$260 per tonne and upwards
Canterbury	- lime	\$45 to \$80 per tonne
	- superphosphate	\$60 to \$120 per tonne

2.6.5 Testing of Soil, Water, Plant and Feeds

Livestock Supplies (N.Z.) Ltd:

AgConsult		
Basic soil	Cobalt	\$25
	Mo	\$25
	Basic	\$115
		Total \$165 per test
Basic, Co, Mo, total P and S		\$195 per test
D.D.T. Indicator		\$130 per test
A.O.B Test		\$75 per test
NZ Labs BASIC Soil Test		\$58 per test
Hill Laboratories Comprehensive Herbage Test		\$114-131 per test

R.J.Hill Laboratories Ltd.

Recommended Profiles:

Pasture	Basic Soil plus Sulphate-S	\$61.00
Maize	Basic Soil plus Sulphate-S, Available N	\$78.00
Arable crops	Basic Soil plus Sulphate-S, Available N	\$78.00
Avocados	Basic Soil plus Mehlich 3	\$68.00
Vegetables	Basic Soil plus Sulphate-S, Available N	\$78.00
All others	Basic Soil	\$48.00
Soil Samples:		Price
Basic soil test	pH, P, K, Ca, Mg, Na, CEC, Base Saturation, Volume Weight	\$48
Additional soil tests*	Mehlich 3 extended:	
	P,Mn,Zn,Cu,Co,Fe,B,Al,Ca,Mg,Na,K	\$27
	Mehlich 3: P,Mn,Zn,Cu,Co,Fe,B,Al	\$20
	Organic Soil Profile – Total N, Available N,	
	Organic Matter (Total Carbon)	\$36
	Sulphate-S, Soluble Salts, Aluminium	\$13 each
	Reserve Mg	\$22
	P Retention	\$18
	Resin P, Total-N, Organic Matter	\$18 each

Prices Exclude GST

Organic-S (Sulphate-S required), plus Anion storage capacity	\$15
Reserve K	\$25
Trace elements profile (Mn, Zn, Cu, Co)	\$29
Total P, Total S [if requested singly]	\$18 each
Total Mo, Total Se [if requested singly]	\$25 each
Boron (Hot Water Soluble)	\$24
Available Nitrogen	\$17
Chloride	\$30

Leaf tissue/Pasture samples:

Recommended profiles:

Extended pasture feed profile - Mixed Pasture plus Pasture Feed	\$145
Spring pasture profile Mixed Pasture plus Chloride plus ME plus CP	\$115
Mixed pasture Basic Plant plus Mo,Co, Se	\$103
Clover only Basic Plant plus Mo	\$85
Complete pasture Profile One Mixed Pasture + ME + CP + one clover only	\$145
Basic plant test N, P, K, S, Ca, Mg, Na, Fe, Mn, Zn, Cu, B	\$70
Pasture feed Dry Matter, Crude Protein (CP), Acid Detergent Fibre, Neutral Detergent Fibre, Soluble Sugars, Starch, Ash, Metabolisable Energy (ME), Digestibility (DOMD)	\$65
Selenium only	\$33
Additional plant tests* Mo, Co, Se	\$15 each
Cl, Sulphate-S, NO ₃ -N	\$16 each
Iodine	\$28

Other:

Recommended profiles:

Kiwifruit Basic Plant plus Chloride	\$86
Avocado Basic Plant plus Chloride	\$86
Brassica Basic Plant plus Molybdenum	\$85

Petiole samples.

Recommended profiles:

Potato Nitrate-N, Phosphorus, Potassium, Magnesium	\$48
Grape Basic Plant plus Nitrate-N (petiole only)	\$86
Grape Combined grape profile (petiole + blade)	\$105
Petiole = NO ₃ -N, P, K, Mg. Blade = N, P, K, S, Ca, Na, Fe, Mn, Zn, Cu, B.	

Fruit Samples.

Recommended Profiles:

Early season whole fruitlet N, P, S, Ca, K, Mg, Na, Fe, Mn, Zn, Cu, B, Mean Weight, Dry Matter	\$86
Whole fruit N, P, S, Ca, K, Mg, Na, Fe, Mn, Zn, Cu, B	\$86
Additional fruit tests* Dry Matter	\$22

Prices Exclude GST

Nutrient solution samples:		
Basic NFT profile	pH, CF, Nitrate-N, P, K, S, Ca, Mg, Na, Fe, Mn, Zn, Cu, B, Cl	\$50
Additional NFT tests*	Ammonium-N	\$16
	Silicate	\$27
	Molybdenum	\$15
Growing media samples:		
Basic potting media profile	pH, conductivity, Nitrate-N, Ammonium-N, P, K, Ca, Mg, Na	\$53
Trace Elements	Fe, Mn, Zn, Cu, B	\$37
Nitrogen draw-down index		\$110
Feedstuff samples:		
Recommended profiles		
Silage Profile	pH, Dry Matter, Crude Protein, Acid Detergent Fibre, Neutral Detergent Fibre, Ash, Soluble Sugars, Starch, Lactic Acid, Metabolisable Energy, Digestibility, Ammonium-N, Ammonium-N/Total N	\$75
Extended Silage Profile	Silage Profile + Minerals (as for Mixed Pasture)	\$145
Additional feedstuff tests*	Dry Matter	\$22
	Ash	\$16
	Starch	\$60
	Crude Fat	\$40

* For additional tests, the prices quoted only apply when tests are requested in addition to a Basic Profile. If single elements are requested then additional fees will apply.

NZLABS Limited
Ph 07 838 5920

New Zealand Laboratory Services (NZLABS):

Soil laboratory testing:		
Basic soil test: (pH, P, SO ₄ , K, Ca, Mg, Na)		\$58
Basic + Organic Sulphur (OS)		\$73
Crop Profile (pH, P SO ₄ , K, Ca, Mg, Na, CEC, BS, EB)		\$58
Brassica Profile (Crop Profile + Available Nitrogen & Boron)		\$92
Plant laboratory testing:		
Super Animal Health (N, P, K, S, Ca, Mg, Na, B, Cu, Co, Fe, Mn, Mo, Se, Zn)		\$100
Animal Health (N, P, K, S, Ca, Mg, Na, Cu, Mn, Mo, Fe, Zn)		\$80
Clover or Lucerne (N, P, K, S, Ca, Mg, Na, Cu, Mn, Mo, Fe, B, Zn)		\$80
General Horticultural (N, P, K, S, Ca, Mg, Na, Cu, Mn, Fe, B, Zn)		\$72
Vegetable (N, P, K, S, Ca, Mg, Na, Cu, Mn, Mo, Fe, B, Zn)		\$80

Prices Exclude GST

Feed laboratory testing:		
Dry Matter only		\$20
Feed Quality Analysis (FQAN) (Pasture, Hay, Greenfeed Crops) DM, crude protein, ADF, NDF ash/organic matter, digestibility, ME, carbohydrate		\$60
Feed Quality Analysis (FQAN) (Silages) DM, crude protein, ADF, NDF ash/organic matter, digestibility, ME, carbohydrate, pH, lactate, Ammonium-N/Total -N		\$70
Water laboratory testing:		
Domestic Chemical; Mg, Ca, Na, K, Mn, Zn, Cu, Fe, Cl, NO ₃ , SO ₄ , Hardness, pH, Conductivity, Turbidity		\$100
Horticultural Chemical; Mg, Ca, Na, K, Mn, Cu, Fe, Cl, No ₃ , So ₄ , Hardness, pH, B, Conductivity, Alkalinity, Sodium Absorption Ratio, Turbidity		\$100
Microbiological; E.coli, Coliforms		\$42
<i>RavensdownLtd:</i>		
Basic soil test	pH, Olsen P, Ca, K, Mg, Na, bulk density, CEC, and % base saturation	\$50
Standard soil test	Basic soil test plus sulphate sulphur	\$60
Standard soil test + Organic Sulphur	Basic soil test plus sulphate and organic sulphur	\$70
Mineral N (deep nitrogen test)	Nitrate -N, Ammonical	POA
Basic plant analysis	N, P, K, S, Mg, Ca, Na, Fe, Cu, Zn, Mn, B	\$68.50
Standard pasture analysis	Basic plant analysis plus Co, Se, Mo	\$98.50
Clover/brassica/legume analysis	Basic plant analysis plus Mo	\$78.50
Comprehensive pasture analysis	Standard pasture analysis plus clover analysis	\$137
Plant petiole analysis	Basic Plant Analysis + Nitrate-Nitrogen	\$78.50
Potato petiole analysis		\$41.50
Feed quality analysis	Pasture / Silage	\$65 / \$75
Domestics / drinking water analysis	pH, conductivity, alkalinity, Fe, Mn, Ca, Mg, K, Na, Cu, Zn, B, Cl, Carbon Dioxide, Hardness, Bicarbonate, Total Dissolved Solids, Nitrate N and Ammoniacal N	\$95
Discharge to receiving waters analysis	Nitrite/Nitrate N, Ammoniacal N, Total N, BOD, Settleable Solids, Suspended Solids, Total Solids and Turbidity	\$115
Farm Dairy effluent analysis	pH, Ca, Mg, K, Na, Total N, P and S, SAR,	\$95
Irrigation water analysis	pH, Conductivity, Alkalinity, Total Dissolved Solids, Hardness, Bicarbonate, Free Carbon Dioxide, Ca, Mg, K, Mn, Na, Zn, Fe, Cu, B, Cl	\$85

Prices Exclude GST

2.7 FREIGHT AND CARTAGE

2.7.1 Road Transport Rates

Road Freight rates are normally dependent on the type of goods and distance to be carted. The following figures are estimates for the wider Canterbury area, for other areas the rates may differ slightly. Publication of these is intended as a guide only; each operator determines their own rates on parameters according to their individual costs.

Estimated 2010 rates (\$ per tonne unless otherwise stated):

(km)	10	30	40	50	60	70
General Goods	\$40	\$50	\$65	\$70	\$77	\$80
Bagged lime/fertiliser	\$25	\$30	\$39	\$42	\$45	\$47
Bulk Lime	\$12	\$16	\$20	\$20	\$25	\$25
Bulk Fertiliser	\$12	\$16	\$20	\$20	\$23	\$25
Wool (per bale)		\$6	\$7	\$7.70	\$8.50	\$9.25
Bulk Grain	\$12	\$15	\$17	\$17.50	\$17.50	\$20
Metal	\$12	\$24	\$29	\$34	\$39	\$45

Small Goods Rates:

Weight	up to 16km	17 to 48km	49 to over 64km
Up to 32 kg	\$17.00	\$19.00	\$23.00
102 kg	\$15.00	\$36.00	\$40.00
508 kg	\$20.00	\$65.00	\$68.00
965 kg	\$30.00	\$77.00	\$81.00

Stock (dollars per head):

(km)	10	30	50	70	100	130	160
Store lambs	-	-	-	-	\$1.00	\$1.40	\$1.50
Prime lambs	\$0.71	\$1.05	\$1.45	\$1.70	\$2.07	\$2.37	\$2.68
Hoggets	\$0.80	\$1.00	\$1.37	\$1.60	\$2.00	\$2.03	\$2.27
Store sheep	-	\$1.00	\$1.25	\$1.45	\$2.00	\$2.00	\$2.00
Fat sheep	\$1.00	\$2.02	\$1.92	\$2.30	\$2.90	\$3.30	\$3.75
Weaner cattle	-	-	\$5-\$6	-	-	-	\$10-\$12
Yearlings	-	-	\$6-\$7	-	-	-	\$12-\$14
18 mth cattle	\$6.00	\$6.18	\$8.08	\$9.98	\$11.88	\$13.78	\$15.68
2 Year cattle	\$6.00	\$8.55	\$10.45	\$12.35	\$14.25	\$16.15	\$18.05
Prime cattle	\$16.00	\$22.00	\$26.00	\$31.00	\$36.00	\$40.00	\$38.00
Deer	-	-	\$7.22	\$8.48	\$10.36	\$12.00	\$13.88

A limited discount on the above prices could be expected for large lines.

Apples:

Nelson Region 2008 prices

	Moutere to Motueka	Moutere to Nayland	Moutere to Port Nelson
Pellet, high cube	\$9.00	\$14.00	\$17.50
Pellet, standard	\$8.60	\$12.50	\$16.00
CA bin / Juice bin	-	\$6.00 / \$7.50	-

Prices Exclude GST

Empty CA bin to grower	-	\$3.00	-
Empty juice bin to grower	-	\$1.50	-

Timber:

See *Section 2.22.3* for costs of transportation of timber.

Express Freight:

See also *Section 2.15.4* for Postage and *Section 2.15.5* for Courier Charges.

2.7.2 Railway Transport Rates

KiwiRail:

Rail freight rates vary according to departure and destination point, there is no specific per tonne or per km rate. Please contact local agent for an individual quote.

2.7.3 Inter-Island Ferry Freight Rates

(2008 prices)

Rates are \$53 to \$90 per truck metre. This does not include tractor unit. Price is regardless of load (bulk freight, stock etc). Rate is \$30 to \$65 per metre if empty. Usual truck and trailer unit is 19 or 20 metres.

2.7.4 Air Freight Rates

Pace:

MAA or Metro Airport to Airport (Auckland, Wellington and Christchurch)

\$88.95 for the first 2kg

\$9.48 per additional kg.

PAA or Provincial Airport to Airport (All other Air NZ domestic destinations)

\$112.66 for the first 2kg

\$10.67 per additional kg

By air - door to door. Between Auckland, Wellington & Christchurch. First 2kg

\$116+\$10.63 / additional kg

By air – door to door, to or from provincial airports First 2kg \$148+\$12.76 / additional kg

Pace Hazardous Goods Surcharge (by Air) \$77.40

Air New Zealand: International Rates quoted ex Christchurch¹ and Auckland²

These rates are guidelines only and may be subject to additional taxes and surcharges.

Please seek pricing directly from Freight Forwarders or the airline. (2008 prices)

Destination	Foodstuffs (per kg)				Flowers/Bulbs/Seeds (per kg)		
	Normal Rate/kg	100kg min	250kg min	500kg min	1000 kg	45kg min	100kg min
Sydney	\$4.22	\$2.24	-	\$1.43	-	\$2.09	-
Melbourne	\$4.22	\$2.24	-	\$1.43	-	\$2.09	-
Brisbane	\$4.22	\$2.24	-	\$1.43	-	\$2.09	-
Perth	\$7.48	-	\$2.49	\$2.19	-	\$3.50	-
Singapore	\$14.16	\$3.55	-	\$3.19	\$3.03	-	\$3.88

Prices Exclude GST

Hong Kong	\$15.60	\$3.47	\$3.31	-	\$3.06	\$4.37	-
London	\$22.51	\$6.05	-	-	-	\$6.72	\$6.25
Los Angeles ¹	\$22.15	\$5.51	-	-	-	\$5.25	(250kg)\$4.94
Los Angeles ²	\$21.13	\$5.01	-	-	-	\$4.75	(250kg)\$4.44
Tokyo	\$13.29	\$5.36	-	-	-	-	\$5.32

Prices Exclude GST

2.8 SEEDS, PLANTS AND PROPAGATION

2.8.1 Seeds - Pasture

Ryegrass

PGG Wrightson Seeds proprietary prices

Perennial Ryegrasses	Bare	Prillcote	Super Strike	Ultrastrike
Price per kg				
Kamo -AR37	\$10.14	\$7.02	\$12.96	\$14.16
Extreme -AR37	\$10.50		\$13.32	\$14.52
Extreme -AR1	\$8.82		\$11.64	\$12.84
Extreme -Lo Endo	\$7.26		\$10.08	\$11.28
Expo -AR1	\$8.94		11.76	12.96
Grasslands Pacific -Hi Endo	\$5.76	\$4.86	\$8.58	\$9.78
Grasslands Pacific -Lo Endo	\$5.76	\$4.86	\$8.58	\$9.78
Quartet II Tetraploid -Endo5	\$8.46		\$11.28	\$12.48
Long Rotation Ryegrasses				
Banquet II Tetraploid -Endo5	\$8.70		\$11.52	\$12.72
Banquet II Tetraploid -Lo Endo	\$7.50		\$10.32	\$11.52
Short Rotation Ryegrasses				
Delish Tetraploid - AR1	\$7.98	\$5.88	\$10.80	\$12.00
Delish Tetraploid - Lo Endo	\$6.42		\$9.24	\$10.44
Maverick G II	\$6.24	\$5.10	\$9.06	\$10.26
Winter Star II	\$4.08		\$6.90	\$8.10
Italian Ryegrass				
Cordura	\$4.92	\$4.38	\$7.74	\$8.94
Feast II Tetraploid	\$5.70	\$4.80	\$8.52	\$9.72
Agricom varieties				
Perennial Ryegrasses	Bare	Prillcote	Super Strike	Ultrastrike
Price per kg				
One50 - AR1	\$9.18		\$12.00	\$13.20
One50 - Lo Endo	\$7.62		\$10.44	\$11.64
Commando - AR37	\$10.20		\$13.02	\$14.22
Commando - AR1	\$8.64		\$11.46	\$12.66
Commando - Lo Endo	\$6.96		\$9.78	\$10.98
Halo Tetraploid - AR37	\$10.20		\$13.02	\$14.22
Hillary - AR1	\$7.56	\$5.70	\$10.38	\$11.58
Kingston - Hi Endo	\$6.00			
Kingston - Lo Endo	\$6.00			
Samson - AR37	\$9.37		\$12.54	\$13.74
Samson - AR1	\$8.16		\$10.98	\$12.18
Samson - Hi Endo	\$6.66			
Samson - Lo Endo	\$6.48			

Source: New Zealand Grain and Seed Trade Association.

Prices Exclude GST

<u>Agricom varieties</u>				
Long Rotation Ryegrasses	Bare	Prillcote	Super Strike	Ultrastrike
Sterling - Lo Endo	\$6.12			
Supreme Plus - AR1	\$7.38			
Supreme Plus - Lo Endo	\$5.94			
Short Rotation				
Ohau Tetraploid - AR37	\$9.24		\$12.06	\$13.26
Ohau Tetraploid - AR1	\$7.68		\$10.50	\$11.70
Ohau Tetraploid - Lo Endo	\$6.12			
Progrow Annual	\$3.78			
Italian				
Crusader	\$5.34		\$8.16	
Warrior	\$5.52		\$8.34	\$9.54
<u>Other varieties</u>				
Perennial Ryegrasses	Bare	Prillcote	Super Strike	Ultrastrike
Ruanui - 1 Gen	\$3.42			
Nui - 1 Gen	\$2.52	\$3.06		
Nui - 1 Gen - Lo Endo	\$3.30	\$3.54		
Uncertified	\$2.28			
Cropmark Matrix - Hi Endo	\$7.74			
Cropmark Matrix - Lo Endo	\$7.56			
Cropmark Revolution - AR1	\$9.00		\$11.82	\$13.02
Cropmark Ultra - AR1	\$9.12		\$11.94	\$13.14
Short Term				
Manawa - 1 Gen	\$3.24			
Moata - cert	\$3.18	\$3.96		
Uncertified	\$3.06			
Tama - 1 Gen	\$3.18			
Italian				
Uncertified	\$3.06			
Cropmark Sonik	\$5.58		\$8.40	\$9.60

Source: New Zealand Grain and Seed Trade Association.

Agriseeds:

Bag Size - 25kg	Perennial & Long Rotation	Price per kg
Alto	- without endophyte	\$7.93
	- AR1 endophyte	\$9.62
Arrow	-without endophyte	\$7.93
	- AR1 endophyte	\$9.62
Bealey	- without endophyte	\$8.19
	- NEA2 endophyte	\$9.56
Bronsyn	- without endophyte	\$7.80
	- AR1 endophyte	\$9.49
Impact	- without endophyte	\$8.32
	- AR1 endophyte	\$10.01
Tabu	- Italian ryegrass	\$4.97

Prices Exclude GST

Bag Size - 25kg	Annual, Italian & Hybrid	Price per kg
Archie	Tetraploid Annual	\$3.77
Tabu	Italian	\$5.98
Harper	Hybrid Ryegrass	\$6.50

White Clover

PGG Wrightson Seeds proprietary prices

	Bare	Prillcote	Super Strike	Ultrastrike
	Price per kg			
Bounty			\$12.96	-
Kopu II			\$14.88	-
Tahora II		\$8.16	\$10.32	-
Agricom Varieties				
Grasslands Emerald	\$14.52		\$12.84	
Grasslands Nomad	\$10.98	\$8.52	\$10.86	
Prestige	\$12.60	\$9.42	\$11.76	
Grasslands Tribute	\$14.88	\$10.74	\$13.08	
Other varieties				
Huia - Basic	\$8.34			
Huia - 1 Gen	\$6.60	\$5.88	\$8.10	
Uncertified	\$5.40	\$5.22		
90/10		\$4.80		
Cropmark Demand	\$13.68	\$9.90	\$12.30	

Source: New Zealand Grain and Seed Trade Association.

Agriseeds

Bag Size - 25kg	Bare \$/kg	Agricote Clover \$/kg	Agricote Oversow \$/kg
Apex Medium leaved	\$13.39	\$12.29	\$9.75
Weka Med - Lge leaved	\$15.67	\$13.65	\$11.12
Kotare Large leaved	\$17.29	\$14.56	\$12.09

Red Clover

Agricom varieties

	Bare	Prillcote	Super Strike	Ultrastrike
Colenso	\$14.76	\$10.68	\$13.02	
Sensation	\$14.76	\$10.68	\$13.02	
Other varieties				
Pawera - 1 Gen	\$11.40	\$8.58	\$10.92	
Mont - uncertified	\$10.20	\$8.28		
Uncertified	\$8.04	\$6.78		

Source: New Zealand Grain and Seed Trade Association.

Agriseeds:

Bag Size - 25kg	Bare \$/kg	Agricote Clover \$/kg	Agricote Oversow \$/kg
Tuscan Large leaved	\$14.89	\$13.20	\$10.66

Prices Exclude GST

Subterranean Clover

PGG Wrightson Seeds proprietary prices

	Bare	Prillcote	Super Strike	Ultrastrike
Leura		\$7.26	\$9.54	-
Agricom varieties				
	Bare	Prillcote	Super Strike	Ultrastrike
Denmark	\$8.94	\$7.38		
Goulburn	\$8.94	\$7.38		
Other varieties				
Woogenellup	\$8.40	\$6.84	\$9.24	
Dalkeith	\$8.40	\$6.84	\$9.24	

Source: New Zealand Grain and Seed Trade Association.

Caucasian Clover

PGG Wrightson Seeds proprietary prices

		POA	POA	
Endura Kura				

Source: New Zealand Grain and Seed Trade Association.

Annual Clover

Agricom Bolta Balansa	\$9.78	\$7.80	\$10.14	-

Source: New Zealand Grain and Seed Trade Association.

Cocksfoot

PGG Wrightson Seeds proprietary prices

Tekapo	\$8.10	\$5.94	\$10.86	
Agricom varieties				
Kara 90/85	\$7.56			
Cropmark varieties				
Vision 90/85	\$8.16	\$6.06	\$10.98	
Wana 90/85	\$7.80			

Source: New Zealand Grain and Seed Trade Association.

Agriseeds:

Ella – 25kg Bag				\$8.65
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Tall Fescue

PGG Wrightson Seeds proprietary prices

Quantum II Max P		-	\$16.88	\$17.94
Agricom varieties				
Advance - Max P	\$13.20	-	\$16.02	-

Source: New Zealand Grain and Seed Trade Association.

Other

PGG Wrightson Seeds proprietary prices

Puna II Chicory	\$15.96	\$14.88	\$18.72	
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Prices Exclude GST

Agricom Varieties	Bare	Prillcote	Super Strike	Ultrastrike
Atom Prairie Grass	\$5.16			
Gala Grazing Brome	\$5.22			
Tonic Plantain	\$12.42		\$15.24	
Maru Phalaris	\$12.00			
Choice Chicory	\$17.40		\$20.22	
Grouse Chicory	\$16.44		\$19.38	

Other varieties

Cropmark Chico Chicory	\$17.46			
Timothy uncertified	\$7.44	\$5.58		
Dogstail uncertified	\$6.60			
Matua Prairie Grass - easydrill	\$6.00			

Source: New Zealand Grain and Seed Trade Association.

Agriseeds:

Pasture Brome Bareno – 25kg Bag				\$5.20
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Lucerne

PGG Wrightson Seeds proprietary prices

Kaituna	\$19.32		\$19.56	
Stamina 5	\$19.32		\$19.56	
WL325 HQ	\$19.32		\$19.56	

Other varieties

Agricom Torlesse	\$19.02		\$19.32	
Wairau - uncertified	\$10.50		\$12.30	

Source: New Zealand Grain and Seed Trade Association.

2.8.2 Seeds – Forage Cultivars

Cereals

Agricom Hokonui Oats incl freight				\$1.58 per kg
Agricom Milton Oats incl freight				\$1.61 per kg
Rocket Triticale – Raxil				\$1.20 per kg

Source: New Zealand Grain and Seed Trade Association.

Agriseeds:

Hattrick Greenfeed Oats – 50kg bags				\$1.30 per kg
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Maize Source: New Zealand Grain and Seed Trade Association

Pioneer Maize - per 80,000 viable kernels 25kg	- Standard fungicide			\$259.58
	- Poncho			\$356.08
Forage King greenfeed maize 25kg	- Standard fungicide			\$92.50

Rape

PGG Wrightson Seeds proprietary prices

	Bare	Prillcote	Super Strike	Gaucho	Ultra Strike
Bonar per kg, (10kg packs)		-	\$16.80	\$16.68	\$22.74
Goliath per kg, (10kg packs)			\$17.82	\$17.76	\$23.94
Maxima Plus per kg, (10kg packs)	\$7.92	-	\$16.98	\$16.92	\$23.04
Titan per kg, (10kg packs)			\$18.00	\$18.00	\$24.12

Agricom

Winfrid per kg, (10kg pks)	\$8.70		\$17.70	\$17.70	\$23.82
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Source: New Zealand Grain and Seed Trade Association.

Prices Exclude GST

Agriseeds:

Interval	Agricote Brassica 5kg/10kg/25kg (\$/kg)	\$17.03 / \$16.97 / \$7.67
	Bare 5kg/10kg/25kg (\$/kg)	\$8.26 / \$8.19 / \$16.38

Forage Brassica

PGG Wrightson Seeds proprietary prices

	Bare	Prillcote	Super Strike	Gaicho	Ultra Strike
Pasja per kg (10kg packs)	\$10.08		\$18.84	\$19.08	\$24.50
Wairoa per kg (10kg packs)	\$9.66		\$18.48	\$18.78	\$24.78
Agricom varieties					
Hunter per kg (10kg packs)	\$9.66		\$18.60	\$18.78	\$24.78

*Source: New Zealand Grain and Seed Trade Association.***Swedes**

PGG Wrightson Seeds proprietary prices

Highlander per 1 kg pack	\$13.08		\$21.72	\$22.08	\$28.20
Aparima Gold per 1 kg pack			\$28.74	\$29.76	\$35.88
Keystone per 1 kg pack			\$33.72	\$35.22	\$41.34
Major Plus per 1 kg pack	\$12.84		\$21.48	\$21.84	\$27.96
Winton per 1 kg pack			\$27.72	\$29.16	\$35.28
Agricom varieties					
Dominion per 1 kg pack	\$12.36		\$21.12	\$21.48	\$27.48

*Source: New Zealand Grain and Seed Trade Association.**Agriseeds:*

Invitation	Agricote Brassica 1kg/5kg/25kg (\$/kg)	\$21.06 / \$20.80 / \$20.15
	Bare 1kg/5kg/25kg (\$/kg)	\$12.48 / \$12.22 / \$11.57

Turnips

PGG Wrightson Seeds proprietary prices

	Bare	Prillcote	Super Strike	Gaicho	Ultra Strike
Appin per 1 kg pack	\$12.00		\$20.76	\$21.00	\$27.12
Barkant per 1 kg pack			\$25.98	\$26.76	\$32.88
Green Globe per 1 kg pack	\$11.76		\$20.52	\$20.76	\$26.88
Green Resistant per 1 kg pack	\$11.76		\$20.52	\$20.76	\$26.88
Manga per 1 kg pack	\$11.76		\$20.52	\$20.76	\$26.88
York Globe per 1 kg pack	\$11.76		\$20.52	\$21.60	\$26.88
Agricom varieties					
New York per 1 kg pack	\$10.44		\$19.50	\$19.38	\$25.38
Rival per 1 kg pack	\$10.44		\$19.38	\$19.38	\$25.38

*Source: New Zealand Grain and Seed Trade Association.**Agriseeds:*

Dynamo	Agricote Brassica 1kg/5kg/25kg (\$/kg)	\$18.46 / \$18.20 / \$17.62
	Bare 1kg/5kg/25kg (\$/kg)	\$9.75 / \$9.49 / \$8.84

Prices Exclude GST

Kales:

PGG Wrightson Seeds proprietary prices

	Bare	Prillcote	Super Strike	Gaicho	Ultra Strike
Regal per kg (10kg packs)			\$23.52	\$24.06	\$30.18
Kestrel per kg (10kg packs)	\$14.16		\$22.68	\$23.16	\$29.28
Gruner per kg (10kg packs)	\$14.16		\$22.68	\$23.16	\$29.28
Agricom varieties					
Sovereign per kg (10kg packs)	\$14.10		\$22.62	\$23.10	\$29.22

*Source: New Zealand Grain and Seed Trade Association.**Agriseeds:*

Caledonian Kale	Agricote Brassica	5kg/10kg/25kg (\$/kg)	\$22.49 / \$22.43 / \$21.24
	Bare	5kg/10kg/25kg (\$/kg)	\$13.98 / \$13.91 / \$13.39

2.8.3 Seeds - Arable Crops

Cereals:	White Oats	- uncertified	\$475 per tonne
	Black Oats	- uncertified	\$500 per tonne
	Monad Wheat (milling)	- certified, Raxil treated	\$1,190 per tonne
	All Feed Wheats (eg. Savannah)	- Raxil treated	\$1,024 per tonne
	Barley - Dash	- Raxil treated	\$1,086
	Barley - Taven	- Raxil treated	\$1,086
	Ryecorn MD Petkuiser		\$1.80 per kg
	Peas:	Marrowfat	
White			\$950 per tonne
Blue			\$950 per tonne
Prussian			\$950 per tonne
Maple			\$950 per tonne

*Source: New Zealand Grain and Seed Trade Association.***2.8.4 Seeds - Process Crops**

Peas	\$630 per ha
Broad Beans	\$340 per ha
Green Beans	\$715 per ha

Charging rates are now set according to sowing rate, and equate to a set cost per ha.

2.8.5 Seeds - Turf Grasses

Ryegrass:	Bare	Per kg if a bag of 25kg or more is purchased
Joust	\$11.11	\$5.80
Tambour	\$11.11	\$5.80
Fescue:		
Red	\$15.11	\$7.90
Chewings	\$15.11	\$7.90
Browntop:		
Egmont	\$31.11	\$20.70

Prices Exclude GST

2.8.6 Coated Seed

See also *Section 2.8.1* for coated seed prices

Seed Coating – Drill (Seed coating can include insecticide/fungicide/N-fixing bacteria/molybdenum/growth enhancement factors and bird repellency).

Ultrastrike	Seed/Coat ratio	\$ per kg (coated weight)
Brassica	1:0.10	\$15.15
Superstrike	Seed/Coat ratio	\$ per kg (coated weight)
Brassica	1:0.10	\$9.55
Lucerne	1:0.25	\$3.85
Ryegrass	no increase	\$2.94
Clovers	1:0.75	\$4.20
Seed Coating – Oversowing (may include lime coat/fungicide/N-fixing bacteria).		
Prillcote	Seed/Coat ratio	\$ per kg (coated weight)
Ryegrass	1:1	\$1.86
Cocksfoot	1:1	\$1.86
Clovers	1:0.75	\$2.00
Lotus	1:0.75	\$2.00
Seed Insecticide Treatment for Maize		
Gaucho	per 80,000 kernels	\$88.89
Poncho	per 80,000 kernels	\$96.89

Bell-Booth Ltd:

Maxicrop Seed Treat	1 / 5 / 20 litre	\$13 / \$62.40 / \$208
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2.8.7 Vegetable Seeds

Vegetable seeds vary quite markedly in price depending on cultivar and quantity ordered. In the majority of cases, the huge range in price for a particular vegetable is due to the high cost of hybrid species. The following are estimates only.

South Pacific Seeds
www.spsnz.com

Beans	- Runner	\$407 per 25kg	
Beetroot		\$120 to \$143 per 500g	\$1,216 to \$1,020 per 5kg
Broccoli			\$916 to \$1,418 per 100,000s
Brussels			\$1,563 to \$2,590 per 50 000
Cabbage	- Savoy	\$147 per 50g	\$2,425 per kg
	- Red	\$170 per 50g	\$2,803 per kg
	-Green		\$807 per 100,000s
Carrot		\$123 per 250 000s	\$462 per million s
Cauliflower		\$132 to \$198 per 2,500s	\$496 to \$744 per 10,000s
Celery	- Hybrid	\$156 per 10g	\$722 per 50g
Chives		\$28 per 100g	\$238 per 1kg
Coriander		\$23 per 100g	\$907 per 5kg
Cucumber	Slicer	\$34 per 100 s	\$306 per 1,000s

Prices Exclude GST

Cucumber	Telegraph	\$71 to \$76 per 100 s	\$639 to \$684 per 1,000s
Egg Plant		\$26 per 1,000s	\$233 per 10,000s
Endive		\$173 per 5000s	\$800 per 100,000s
Leek	Hybrid	\$379 per 10,000s	\$1,753 per 50,000s
Lettuce	Iceberg	\$85 to \$328 per 10,000s	\$771 to \$2,967 per 100,000s
	Butterhead	\$170 to \$260 per 5,000s	\$2,955 - \$4,523 per 100,000s
	Gr/Red Oak	\$182 to \$299 per 5,000s	\$3,166 - \$5,200 per 100,000s
Melon	Honey Dew	\$119 per 1,000s	\$4,681 per 50,000s
	Rock	\$181-\$215 per 1,000s	\$7,118-\$8,455 per 50,000s
	Water Seeded	\$57 to \$650 per 1,000s	\$2,243- \$25,553 per 50,000s
Onion hybrid	Brown	\$19 per 100g	\$88 per 500g
	Brown / Red	\$250 / \$405 per 100,000s	\$2,125 / \$3,443 per 100,000s
	Bunching	\$130 per 500g	\$1,105 per 5kg
Parsley		\$17 to \$23 per 100g	\$145 to \$196 per 1kg
Parsnip		<90% germ \$86 per 500g	>90% germ \$102 per 500g
Peas		\$37 per 5kg	\$148 per 25kg
Pumpkin		\$62 to \$208 per 500g	\$527 / 5kg & \$2,529 / 8kg
Radish		\$20 to \$51 per 100g	\$791 to \$2,006 per 5kg
Silver Beet	\$62 to \$75 per 500g	\$555 to \$675 per 5kg	
Spinach		\$30 to \$104 per 100 000s	\$139 to \$481 per 500,000s
Squash			\$69 to \$416 per 500 g
Sweet Corn	\$102 per 1kg	\$2,183 per 25kg	
Tomato	Field	\$88 to \$96 per 1,000s	\$790 to \$861 per 10,000s
		Greenhouse	\$36 to \$185 per 100 s
Turnip		\$15 per 25g	\$259 per 500g
Zucchini	Scallopini		Yellow \$78 per \$100g
	Zucchini	\$73 to \$95 per 1,000s	
Beans	- Runner	\$407 per 25kg	
Beetroot		\$120 to \$143 per 500g	\$1,216 to \$1,020 per 5kg

Terranova Seeds

		Standard	Hybrid
Beans	- Dwarf	\$230 to \$375 per 25 kg	
	- Butter	\$230 per 25 kg	
	- Runner	\$185 to \$350 per 25 kg	
Beetroot		\$46 per 500g, \$46 per 25,000s	
Broccoli			\$280 to \$310 per 25,000s
Cabbage	- Green		\$143.75 to \$156 per 100g
	- Red		\$290 per 100g
	- Pak Choi	\$16.75 to \$40 per 500g	
	- Chinese		\$52 to \$75 per 100g, \$420 to \$480 per 100,000s
Capsicum	- Bell	\$110 per 500g	
	- Long, hot	\$28 per 100g	
	- Bell		\$225 per 5,000s

Prices Exclude GST

	- Mild		\$52 per 1,000s
	- Hot		\$160 per 25g
Carrot		\$55 to \$81.25 per 500g	\$356.25 per 500g
Cauliflower			\$395 per 10,000s
Celery		\$220 per 25g	
Chinese Greens		\$170 per 500g	
Chives		\$65 per 100g	
Coriander		\$16 per 100g	
Cucumber	- Slicer	\$14 per 100g	\$28per 500s, \$125per100g
Cucumber	- Telegraph		\$398 per 500s
Egg Plant		\$25 per 100g	
Endive		\$250 per 5,000 split pills	
Leek		\$265 per 500g	
Lettuce	Std outdoor	per 100g POA available 2010	
	Butterhead	\$255 per 5,000 split pills	
	Green/Red	\$224 to \$288 per 5,000 split pills	
	Coral		
	Green/Red	\$288 per 5,000 split pills	
	Oak Leaf		
	Salanova	\$396 per 5,000 split pills	
	Leaf		
Melon	Honey Dew		\$115 per 1,000s
	Rock		\$350 per 5,000s
	Water	\$40 to \$130 per 500g	\$200 to \$540 per 500g
Onion	Brown	\$87.50 per 500g	\$4,100 to \$6,360 per 2.5million
	Red		\$905 per 250,000s
	Bunching	\$95 to \$138 per 500g	
Parsley		\$48 to \$72 per 100g	
Pea		\$135 to \$320 per 25kg	
Pumpkin		\$68 per 500g	\$160 to \$165 per 500g, \$871.20 to \$940 per 10,000s
Radish		\$98 per 50,000s	\$235 to \$350 per 500g
Roquet		\$25 to \$30 per 100g	
Silver Beet		\$520 to \$628 per 6kg	
Spinach			\$59.50 per 100,000s
Squash		\$52 per 500 g	\$100 to \$380 per 500g
Sweet Corn			\$895 per 10kg
Tomato	Determinate	\$12.50 to \$260 per 25g	
	Indeterminate	\$50 to \$75 per 100g	\$50 per 10g
Turnip			\$358 per 500g
Zucchini			\$135 to \$168 per 3000s

Prices Exclude GST

2.8.8 Flower Seeds/Bulbs/Plants

Seeds and Plants:

There can be a wide range in cost of flower seeds, depending on the variety of seed. The following are indicative prices only.

Allenton Nurseries Ltd: (orchardists and trade suppliers only)

	Grade	
Forsythia	80/100	\$9.90
Lilac (Syringa) varieties	80/100	\$10.00
Viburnum	30/40	\$8.00

Green Harvest Pacific Ltd:

Aconium napellus		\$15.00 per g
Amaranthus varieties	\$1.95 to \$2 per g, \$3.00 to \$26 per 1000 seeds	
Antirrhinum varieties	\$45 to \$135 per g, \$39.00 to \$53.50 per 1000 seeds	
Asclepias		\$1.95 per g
Aster (Callistephus)	\$4.25 per g, \$5 to \$55 per 1000 seeds	
Bupleurem		\$1 per g
Calendula varieties	\$0.50 per 140 seeds, \$25.00 per 1000 seeds	
Campanula varieties		\$3 per g, \$100 per 1000 seeds
Carthamus	\$0.50 per, \$15 to \$20 per 1000 seeds	
Celosia varieties		\$10.00 to \$160 per 1000 seeds
Centaurea		\$0.70 per g
Craspedia Globosa		\$39 per 1000 seeds
Cucurbita		\$0.70 to \$1.80 per g
Cynara cardunculus		\$1 per g
Delphinium varieties		\$2.50 to \$7.50 per g
Delphinium belladona		\$39.95 to \$45 per 1000 seeds
Delphinium chinensis		\$155.00 per 1000 seeds
Dianthus varieties	\$1.95 per g, \$29.00 to \$59.00 per 1000 seeds	
Echinacea (White, green cone)		\$3.30 per g
Echinops		\$1.95 per g
Eryngium	\$3.55 per g, \$15 to \$30 per 1000 seeds	
Eucalyptus	\$39 per g, \$25 to \$53.25 per 1000 seeds	
Helenium		\$5.95 per g, \$16 per 1000 seeds
Helianthus (Sunflowers) varieties	\$0.50 to \$1.80 per g, \$55 to \$59 per 1000 seeds	
Hibiscus sabdariffa		\$70 per 1000 seeds
Kale		\$25 to \$75 per 1000 seeds
Larkspur		\$27.50 to \$30 per 1000 seeds
Lisianthus (Eustoma) Doubles		\$55 to \$65 per 1000 seeds
Papillion series		\$60 to \$65 per 1000 seeds
Singles		\$30 to \$55 per 1000 seeds
Lilium x formolongo		\$90 per 1000 seeds
Marigold		\$90 per 1000 seeds
Matricaria (Tanacetum)		\$25.00 per 1000 seeds

Prices Exclude GST

Molucella laevis		\$0.70 per g
Peppers Ornamental	\$55 per packet, approx 750 seeds	
Papaver somniferum		\$1.30 to \$1.95 per g
Papaver nudicaule		\$25 to \$65 per g
Rudbekia		\$1.50 per g
Statice	\$8 per 1000seeds, \$450 (First F1) per 1000seeds	
Stock (Matthiola) varieties		\$13.95 to \$35.00 per g
Sweet Pea (Lathyrus)		\$0.60 per g
Trachelium		\$30 per 1000 seeds
Zinnia		\$0.50 to \$0.95 per g

Bulbs:

Green Harvest Pacific Ltd:

Anemone varieties		\$0.40 to \$0.60 each
Ranunculus varieties		\$0.40 each

Fiesta Flower Bulbs: (Wholesale supply only)

			Bulk
Allium	per 1 – per 5	\$4.25 to \$2.35	
Anemone	per 8 - per 25	\$3.50 to \$2.75	per 1000 \$39 to \$99
Bluebell	per 5	\$3.75	
Brodaiea	per 10	\$2.25	
Chionodoxa	per 10	\$3.75	per 100 \$55.00
Crocus varieties	per 5 / 10	\$2.00-\$2.50 / \$3.95	
Dutch Iris / Mini varieties	per 7	\$2.40 / \$2.50	
Erythronium	per 2	\$2.75	
Freesia singles / doubles	per 10	\$2.25 / \$2.85	
Fritillaria	per 3	\$4.95	per 100 \$195 - \$220
Gladioli varieties	per 7	\$2.20 to \$2.75	\$38.21 to \$49.11
Hyacinths	per 3	\$3.65	\$95.00 to \$105
Ixia	per 10 / 15	\$2.35	
Lachenalia	per 5	\$2.95 - \$3.35	per 100 \$65 to \$195
Leucocoryne			per 100 \$195.00
Muscari	per 3 / 5 / 10	\$3.95/ \$3.20/ \$2.95	
Narcissus varieties	per 5	\$2.95 to \$4.95	per 100 \$39.95 to \$75.00
	per 10	\$4.25 to \$4.95	
	per 20	\$6.95 to \$9.55	
Narcissus, mini var	per 5 / per 15	\$3.25-\$4.75 / \$7.95	per 100 (\$49.50)
Nerines	per 1	\$2.95	per 100 \$185-\$195
Sparaxis	per 15	\$2.95	
Tritonia	per 10	\$3.95	
Tulip varieties	per 5	\$2.95 to \$3.85	per 100 \$45.00 to
	per 10	\$3.75 to \$5.50	\$55.00

Note: prices are exclusive of freight. Some bulk purchases have minimum quantity.

Prices Exclude GST

Plants for Cut Flowers:*Green Harvest Pacific Ltd:*

Gypsophila varieties	\$2.90 to \$3.75
Limonium Hybrids Indent Only	\$3.75
Statice Indent Only	\$2.95

2.8.9 Fruit Trees and Plants(See also *Section 2.22.1* for shelter plants)**Fruit Trees:***Allenton Nurseries Ltd:* (orchardists and trade suppliers only)

Discount available on orders over 1,000 trees (10%).

	Grade	
Apples	80/150	\$14
Apricots	80/150	\$14
Nectarines	80/150	\$14
Peaches	80/150	\$14
Plums	80/150	\$14
Pears	80/150	\$14
Cherries	80/150	\$14
Quinces	80/150	\$13

Copperfield Nurseries:

Grapefruit	\$9.90 to \$10.10
Golden Queen Peach	\$13.50
Lemons	\$6.00 to \$9.90
Limes	\$9.90 to \$10.10
Mandarins	\$9.90 to \$10.10
Oranges	\$9.90 to \$10.10
Photinia Red Robin PB 6.5	\$4.50
Persimmon Fuyu	\$20.00
Plums	\$13.50
Tangelos	\$9.90
Tangors	\$9.90
Feijoa Sellowiana PB 12	\$5.00

Minimum order 10 trees. All on Trifoliata rootstock. Containerised trees available all year round.

Harrisons Trees:

Prices are wholesale rates if a minimum of 5 of the same variety is purchased.

	Grade	Price
Apples on MM106	120 to 160 cm	\$12.00
Apples on M26 Dwarf	90 to 120 cm	\$12.00
Apricots	90 to 120 cm	\$12.00
Cherries – compact Stella	120 to 160 cm	\$12.00

Prices Exclude GST

Figs	90 to 120 cm	\$8.50
Nectarines	120 to 160 cm	\$12.00
Peaches	120 to 160 cm	\$12.00
Pears on Quince rootstock	90 to 120 cm	\$13.00
Plums	120 to 160 cm	\$12.00
Quinces	120 to 160 cm	\$12.00

Waimea Nurseries: (Nelson)

All prices based on commercial orders and may be dependent on grade and numbers.

Prices may not include all royalties.

Feijoa varieties	\$8.50 to \$11.50 each
Fig varieties	\$8.90 each
Apricots, Cherries, Nectarines, Peaches, Plums (contract grown)	from \$10.50
Apples, Nashi, Quinces, Pears (contract grown)	from \$10.50
Persimmon	\$20.90 each

Tharfield Nursery Ltd (Katikati):

Banana Mons Mari 4.7L	\$9.95
Casana 1.9L	\$5.50
Casimiroa varieties PB 55	\$15.25
Feijoa 3L	\$8.75
Fig varieties 3L	\$6.95
Guava varietie 3Ls	\$5.95 to \$6.95
Loquat PB 55	\$13.75
Mountain Pawpaw 3L	\$8.50
Pepino 1.9L	\$5.95

Nut Trees:

Allenton Nurseries Ltd: (orchardists and trade suppliers only)

	Grade	
Almonds – Burbank/Monovale/Fabrin	80/150	\$14.00
Sweet Chestnut (Castanea)	80/150	\$14.00
Hazelnut (Corylus)	80/150	\$14.00
Walnut (Juglans regia)	80/150	\$14.00
Pine Nuts	80/150	\$6.90

Harrisons Trees:

Prices are wholesale rates if a minimum of 5 of a variety is purchased.

	Grade	Prices
Almonds	120 to 160 cm	\$12.00
Chestnuts (grafted)	160 to 200 cm	\$14.60
Hazelnuts (from layers)	60 to 90 cm	\$7.00
Hazelnuts (pollinators grafted)	40 to 60 cm	\$12.50
Walnuts from seed	120 to 160 cm	\$12.90
Walnuts grafted	40 to 60 cm	\$29.25

Prices Exclude GST

Tharfield Nursery Ltd: (Kaitiaki)

Pine Nut 3L	\$8.25
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Waimea Nurseries: (Nelson)

All prices based on commercial orders and may be dependent on grade and numbers.

Prices may not include all royalties.

Almond varieties	\$12.30
Hazelnut varieties	\$10.90
Pine Nut	\$6.90
Walnut varieties	\$24.90

Olives:

Allenton Nurseries Ltd: (orchardists and trade suppliers only)

Olive Allenton	Grade 60/70	\$5.50
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Elliotts Wholesale Nursery:

Frantoio / Verdale / Koroneiki / Leccino / Pandalino	\$8.50 each
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10% discount applies to over 1000 mixed plants.

Tharfield Nursery Ltd: (Kaitiaki)

Frantoio, J2, J5, Koroneiki, Manzanillo, Picual varieties 1.9L	\$5.95
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Waimea Nurseries: (Nelson)

All prices based on commercial orders and may be dependent on grade and numbers.

Prices may not include all royalties.

Olive varieties	\$8.90 each
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Vines:

Harrisons Trees:

Grapes – on own cuttings	60 to 90 cm	\$8.50
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Tharfield Nursery Ltd: (Kaitiaki)

Grape Albany Surprise 3L	\$6.50
Passiflora – ligularis, quadrangularis 3L	\$6.50
Tamarillo varieties 1.9 and 3L	\$4.50 / \$5.50

Waimea Nurseries: (Nelson)

Baby Kiwifruit – commercial selections	\$7.90 each
Table Grapes – bagged cutting grapes	\$7.90 each
– bagged grafted grapes	\$9.90 each

Prices Exclude GST

Berryfruit:*Harrisons Trees:*

Prices are wholesale rates if a minimum of 5 of a variety is purchased.

	Grade	Prices
Currants – red and black	40 to 60 cm	\$5.50

Tharfield NurseryLtd: (Katikati)

	Variety	Price
Blackberry	Black Satin 3L	\$7.95
Blackcurrant	Magnus 3L	\$6.50
Blueberry	Blue Dawn, Blue Magic 3L	\$8.75
Boysenberry	3L	\$7.95
Cape Gooseberry	1.9L	\$5.50
Cranberry	Bergman, Crowley 1.9L	\$6.50
Hybridberry	3L	\$7.95
Loganberry	Waimate 3L	\$7.95
Raspberry	3L	\$7.95

Waimea Nurseries: (Nelson)

All prices based on commercial orders and may be dependent on grade and numbers. Prices may not include all royalties.

Cranberry	\$7.90 each
Currant	\$7.90 each
Blueberries	\$7.90 each

2.8.10 Planting/Propagating Expenses(See also *Section 2.11.5* for Packaging materials).*Athco Industries: (Auckland)*

Standard planters	- 1.3 to 13.0 litre – pack size 500 to 232	\$0.25 to \$2.90
SV house plant pots	- 0.2 to 1.3 litre – pack size 2000 to 550	\$0.14 to \$0.40
Square ‘Spacesaver’ pots	- 10 to 15cm – pack size 1150 to 300	\$0.15 to \$0.46
Plant labels	- 125mm, pack size 2000	\$60 per 1000
Propagation tubes	- 5.5 / 7 cm – pack size 1512 to 1848	\$0.07 to \$0.09
Nursery trays:	- pack size 30 to 50	\$0.70 to \$3.15
	- Tube tray (pack size 50)	\$8.40
	- Tube tray legs – small/large	\$1.00 / \$1.40
Seedling punnets:	-Standard 150 x 100 x 50	\$0.14
Cell trays	- 5 to 45ml, 288 to 32 cells	\$1.50

Quickheat:

Thermogro plant raising panels (230 volt)	
400 x 500mm	\$63.00
450 x 750mm/450 x 1200mm	\$78.00 / \$93.00
600 x 750mm/600 x 1200mm/600 x 1520mm	\$80.00 / \$110.00 / \$132.00

Prices Exclude GST

Cosio Industries Ltd:

Planter bags		
PB ¾ to PB2	price per 100	\$4.00 - \$6.00
PB3 to PB6.5	price per 100	\$6.50 - \$12.00
PB8	price per 100	\$18.00
PB10/PB12	price per 100	\$16.00 / \$23.00
PB18/PB28	price per 100	\$25.00 / \$31.00

Quantum Grow Ltd:

Cell trays:		
16/25/45 ml square, 198 / 144 / 60 cells per tray		\$6.00 each (50 trays)
Planter bags – PB ¾ to PB 95 (per 1000)		\$49.00 to \$1,552.00
Hydroponic growing pots		\$0.06 to \$0.24 each
Misting controllers		from \$280.00
Misting nozzles		from \$5.00
Solenoid valves 24 volt x 20mm		\$55.00
24 volt transformer		\$41.25
Thermostats ET 0 to 40 standard		\$95.00
ET 0 to 40 with phase interruption plug		\$140.00

Transplant Systems Ltd: (prices ex-Auckland)

Transplant Systems seedling trays	25 to 256 cells per tray	\$7.72 to \$10.50 / tray
Bumnong	50 to 512 plug tray	\$1.47 to \$210 each (cartons of 100)
Water absorbent polymers	25 kg bag	\$315
	5/ 10 kg pail	\$94.50/\$147
	1 kg pack	\$23.10
Transplant Systems planting tubes	49 to 68mm	\$194.25 to \$226.80
Kidney-shaped plant holder		\$114.45
Plastic growing trays for Paperpots		\$6.62 to \$7.56 / tray
Paperpots	vary in size	\$2.75 to \$11.27 / set
Thermoformed plastic pots	7 to 15 cm	\$0.04 to \$0.21 / pot
Dosmatic proportional injector – range of flow rates		from \$934.50

Egmont Commercial Ltd:

Planter bags	PB 0.75 to PB 6.5	\$28.75 to \$87.30 per 1000
	PB 8 to PB 40	\$125.85 to \$336.25 per1000
	PB 60 / PB 95	\$504.45 / \$1,106.65 per 1000
Computer labels (unprinted)	White / coloured	\$37.80 / \$44.75 per 1000

Flight Group Ltd:

Seedling trays	T1686	485 x 350 x 70mm	\$4.89 to \$4.65 per tray
	T1685	485 x 326 x 50mm	\$5.80 to \$4.80 per tray
Ace pots	T1203	75 x 75 x 63mm	\$68.69 to \$54.50 per thousand
	T1204	100 x 100 x 83mm	\$103.84 to \$86.27 per thousand
Propagation	T2642	45ml round cell 60	\$3.73 to \$3.04 per tray

Prices Exclude GST

Cell trays	T2643	30ml sq. cell 144	\$3.73 to \$3.04 per tray
	T2644	16ml sq. cell 198	\$3.73 to \$3.04 per tray

2.8.11 Growing Medium

Canterbury Landscape Supplies:

	Price per full scoop
Premium Chip / Premium Nuggets	\$23.11 / \$21.33
Standard Nuggets	\$19.55
Chunky Nuggets	\$26.67
Canterbury Bark	\$15.11
Bio-Blend	\$19.55
Mushroom Compost / Vege Gro	\$16.88 / \$19.55
Garden Gro / Feed n Mulch	\$18.67 / \$17.78
Garden Soil Blend / Organic Earth Turf Mix	\$20.45 / \$24.00
Screened Soil	\$16.00
Potting Mix	\$42.67
Sawdust / Manured Sawdust	\$7.11 / \$16.00

Quantum Grow Ltd:

Pumice (kiln sterilized) (50 litre sack)	Grades 1 to 5mm (fine) to 3 to 8mm, coarse,	\$37.80
Pumice (kiln sterilized)	Grades fine, 1 to 5mm, 1700 litre bulk bag	\$600.00
Perlite (100 litre sack)	Grades medium, coarse.	\$37.80
Vermiculite (100 litre sack)	Grades fine, medium and coarse	\$37.80
Hydroton (expanded clay) (50 litre sacks)	Grades 4 to 8mm, 8 to 16mm	\$37
Rockwool	Range of plug /cube sizes, slab of 200	from \$17.00

Egmont Commercial Ltd:

Vermiculite medium	100 litre	\$32.20
Perlite Propogating Media	100 litre	\$35.95

Prices Exclude GST

2.9 WEED, PEST AND DISEASE CONTROL

2.9.1 Weed and Pest Control – Budget Figures

Depending on farm type, location and other factors, typical weed and pest control costs are:

Sheep and Beef	(per su)
Northland	\$1.30
Waikato/Bay of Plenty Intensive	\$1.52
Central North Island Hill Country	\$1.04
Gisborne Hill Country	\$0.70
Hawkes Bay/Wairarapa Hill Country	\$0.50
Eastern Lower North Island Intensive	\$1.41
Western Lower North Island Intensive	\$1.86
South Island High Country	\$1.58
Canterbury/Marlborough Hill Country	\$1.92
Canterbury/Marlborough Breeding and Finishing	\$2.54
Otago Dry Hill	\$2.14
Southland/South Otago Hill Country	\$1.46
Southland/South Otago Intensive	\$0.95
National	\$1.30
Dairy	(per cow)
Northland	\$15
Waikato/Bay of Plenty	\$10
Taranaki	\$9
Lower North Island	\$13
Canterbury	\$10
Southland	\$8
National	\$10
Deer	(per su)
North Island	\$1.20
South Island	\$0.99
Arable	(per ha)
Canterbury	\$311
Horticulture	(per ha)
Kiwifruit	\$1,400
Hawkes Bay Pipfruit	\$2,423
Nelson Pipfruit	\$2,863
Viticulture	
Marlborough	\$982
Hawkes Bay	\$1,063

Source: MAF Horticulture and Pastoral Monitoring Reports - 2009.

For further examples see *Section 3, Gross Margins*.

See individual items in this section for accurate budgeting.

Prices Exclude GST

2.9.2 Weed, Pest and Disease Control – General

Some herbicides, fungicides, and insecticides are produced by more than one chemical company and come in a range of strengths. Hence the trade names shown are to serve only as examples of the chemical concerned.

No preferential endorsement by Lincoln University is implied, nor is any criticism implied of any chemical that does not appear in this Manual.

The following coding has been employed to distinguish between the various Agrochemical companies:

AV	Aventis	MO	Monsanto
B	BASF	N	Nu Farm
BY	Bayer	NO	Novartis
CC	CropCare	O	Orion
CW	Crop Watch	PM	Pest Management Services
CY	Cyanamid	RA	Ravensdown
D	Du Pont	S	Syngenta
DO	Dow AgriScience	T	Taranaki NuChem
FF	Fruitfed Supplies	W	Wrightson
K	Key Industries	Y	Yates
M	Merial		

2.9.3 Herbicides

For detailed information on products, active ingredients, application and dilution rates and for suitability of various chemicals for individual situations, farmers should consult their local Chemical company representative or refer to publications such as the “N.Z. Agrichemical Manual” (obtainable from rural retailers).

Trade Name	Active Ingredient (%)	Code	Unit Size	Retail Price
Achieve	tralkoxydim (40)	CC	4.5 kg	\$288.00
Answer	metsulphuron (20)	D	4.5 kg	\$699.00
Asulox	asulam (40)	BY	5 litre	\$232.00
Avadex Xtra	triallate (40)	N	20 litre	\$307.56
Axall	bromoxynil (7.5), ioxynil (7.5), mecoprop (34.5)	BY	5 L / 20 L	\$173.34 / \$490.67
Banvel	dicamba	O	5 litre	\$144.89
Banvel 200	dicamba (20)	O	20 litre	\$455.11
Banvine	2,4-D (20)	DO	1 litre	\$48.80
Basagran	bentazone (48)	B	10 litre	\$400.00
Betanal AM11	phenmedipham (7.9) desmedipham (7.9)	BY	5 litre	\$280.89
Bladex 90WDG	cyanazine (50)	B	5kg	\$286.23
Buster	glufosinate-ammonium (20)	BY	1 litre	\$61.87
			5 litre	\$211.56
			20 litre	\$648.00
Caragard 500 FW	terbuthylazine (25)	O	20 litre	\$462.23

Prices Exclude GST

Centurion Plus	terbumeton (25) clethodim (24)	N	1/10 litre	\$132.45 / \$1,031
Combine	bromoxynil (20), ioxynil (20)	BY	10 litre	\$487.11
Commando	L-flamprop, isopropyl(20)	B	10 litre	\$357.00
Cougar	diflufenican (10), isoproturon (50)	BY	5 litre	\$309.33
Duplosan Super	dichlorprop (60)	B	10 litre	\$169.78
Duplosan KV (MCP)	mecroprop-P (60)	B	10 litre	\$244.45
Escort	metasulfuron-methyl (60)	D	40 g	\$57.80
Foresite	oxadiazon (38)	BY	1 litre	\$102.22
Foresite 380			5 litre	\$632.00
Frontier	dimethanamid (90)	B	10 litre	\$576.00
Fusilade WG	fluazifop-butyl (25)	S	5 kg	\$445.34
Gallant NF	haloxyfop (10)	DO	1litre/ 5litre	\$142 / \$463.11
Gardoprim500FW	terbuthylazine (50)	O	5 litre	\$109.33
			20 litre	\$225.78
Gesagard 500FW	prometryn (50)	O	5 litre	\$216.00
Gesaprim 500FW	atrazine (50)	O	5 / 20 litre	\$72 / \$137.78
Gesatop	simazine (50)	O	5 / 20 litre	\$71.91 / \$194
Glean DF	chlorsulfuron (75)	D	200 g	\$126.00
Glyphosate 360	glyphosate (36)	RA	20/200 litre	\$138 / \$1,126
Gramoxone 250	paraquat (20)	S	5 / 20 litre	\$125.34/\$333. 33
Granstar	methylbenzoate complex (75)	D	200 g / 1kg	\$119.00 / \$461
Grazon	trichlopyr (60)	DO	5 / 20 litre	\$375.11/\$867.56
Harmony SG	thifensulfuron methyl	D	150 g	\$180.00
Jaguar	diflufenican (2.5),bromoxynil (25)	BY	10 litre	\$423.11
Karmex DF	Diuron (80g/kg)	D	11.34kg	\$391.00
Kerb 500	propyzamide	DO	5 litre	\$437.34
Lasso MicroTech	alachlor (48)	MO	10 litre	\$219.56
Lexone	metribuzin (75)	D	2.5 kg	\$245.00
Lexone DF	metribuzin (75)	N	2.5 kg	\$226.67
Linuron 50 DF	linuron (50)	D	2.5kg / 9.07kg	\$112.00/\$370.00
MCPA	MCPA (37.5)	DO	20 litre	\$134.22
MCPB	MCPB (40)	DO	20 litre	\$264.89
Mossoff	benzalkonium chloride (50)	T	1 litre	\$24.71 to
	copper sulphate (19.7)			\$29.16
Mostox	dichlorophen (43.2)	BY	5 litre	\$244.45
Nortron 500SC	ethofumesate (50)	BY	5 litre	\$171.56
Preeglone 250	diquat (6), paraquat (12)	S	5 / 20 litre	\$162.67/\$459.56
Pulsar	bentazone (20) MCPA (20)	B	10 litre	\$117.78
Puma S	fenoxaprop-p-ethyl (6.95)	BY	10 litre	\$1,055.11
Pyramin DF	chloridazon (43)	B	1 kg	\$74.40

Prices Exclude GST

Radiate	picloram (15) clopyralid (22)	DO	5 litre	\$791.12
Reglone	diquat (20)	S	5 litre	\$188.45
Roundup Renew Xtra	glyphosate (49)	M	100 litre	\$693.34
Roundup Transorb	glyphosate (54)	MF	20 litre	\$246.23
Sencor 70 DF	metribuzin (70)	BY	2 kg	\$188.45
Stomp xtra 455SC	pendimethalin (33)	B	10 litre	\$305.78
Surrender	benalkonium chloride (50)	Y	1 litre	\$24.45
Tigrex SC	diflufenican (1.2), MCPA (60)	BY	10 litre	\$190.22
Topik 240 EC	clodinafop-propagul (24)	S	1 litre	\$684.45
Tordon Brush- Killer	picloram (10) triclopyr (30)	DO	per litre	\$40.00
Tordon 2G	picloram (2)	DO	5 kg	\$121.78
Totril Super	ioxynil (25)	BY	10 litre	\$442.67
Tridan 480	trifluralin (48)	BY	20 litre	\$199.12
Trimec	mecoprop (60) MCPA (15) dicamba (1.8)	CC	20 litre	\$288.89
Trophy NF	acetochlor (84)	DO	20 litre	\$647.20
Triflur 480	trifluralin (40)	N	5 litre	\$97.78
Tropotox Plus	MCPA (2.5), MCPB (37.5)	BY	20 litre 200 litre	\$261.34 \$2,308.45
Versatil	clopyralid (30)	DO	20 litre	\$1,243.56
Velpar DF	hexazinone (75)	D	10 kg	\$1,100.00

2.9.4 Insecticides

Refer to *Section 2.9.2* for key to Company codes.

For detailed information on products, active ingredients, application and dilution rates and for suitability of various chemicals for individual situations, farmers should consult their local Chemical company representative or refer to publications such as the “N.Z. Agrichemical Manual”

Trade Name	Active Ingredient (%)	Code	Unit Size	Price
Actellic Dust	pirimiphos-methyl (50)	O	10 kg	\$182.23
Actellic	pirimiphos-methyl (50)	O	1 litre	\$91.56
Actellic SmokeGen	pirimiphos-methyl (50)	S	90 g	\$30.05
Altacor	rynaxaphyr (350g/kg)	D	540g	\$388.80
Antstop G	chlorpyrifos	PM	500g 10kg	\$11.00 \$154.38
Ascend 200SC	lipronil (20)	BY	1 litre	\$566.23
Basudin 600EW	diazinon (80)	S	5 litre	\$197.34
Coragen	rynaxaphyr (200 sc)	D	250ml	\$177.50
Counter 20 G	terbufos (20)	BY	15 kg	\$280.00
Decis Forte 2.5EC	deltamethrin (2.75)	BY	1 litre 5 litre	\$69.16 \$273.78

Prices Exclude GST

Dimilin 25W	diflubenzuron (25)	N	500 g	\$62.49
Dismissal	thiodicarb	W	20 kg	\$160.89
Gesapon 20G	diazinon (20)	BY	22 kg	\$337.78
Invict Cockroach Gel	abamectin	PM	30g	\$26.00
Karate Zeon	cyhalothin (5)	S	250 ml	\$171.56
Lannate	methomyl (20)	D	5 litre	\$220.48
Lorsban 750WG	chlorpyrifos (40)	DO	3 kg	\$352.00
Mavrik Aquaflo	fluvalinate (24)	N	1 litre	\$129.78
Mesuroil snail bait 150K	methiocarb	BY		\$1,590.23
Mesuroil 750WP	methiocarb (2)	BY	400 g	\$86.40
Mesuroil	methiocarb		5 kg	\$91.56
Monitor	methamidophos (60)	B	10 litre	\$289.78
No Wasps dust	5-8% carbaryl	PM	100g	\$15.00
Perfekthion	dimethoate (50)	B	5 litre	\$168.00
Phorate cropcare	phorate (20)	N	15 kg	\$160.00
Pirimor	pirimicarb (50)	S	1 kg	\$83.56
Diazinon 800	diazinon (80)	RA	20 litre	\$460.45
Steward 150SC	indoxacarb (150)	D	4 litre	\$657.00
Sumi-Alpha	esfenvalerate (5), xylene (74)	N	1 litre	\$89.78
SusCon Green	chlorpyrifos (10)	CC	15 kg	\$223.12
Tamaron	methamidophos (60)	BY	10 litre	\$332.45
Vydate L	oxamyl (24)	D	3.8 litre	\$253.33

2.9.5 Fungicides

Refer to *Section 2.9.2* for key to Company Codes.

Trade Name	Active Ingredient (%)	Code	Unit Size	Price
Acanto	picoxy strobilurin (250g/l)	D	5 litre	\$632.50
Acrobat MZ	dimethomorph (7.5)			
	mancozeb (66.7)	CY	10 kg	\$408.89
Aliette WG	fosetyl-aluminium (80)	BY	1 kg	\$113.78
Aliette Super	fosetyl-aluminium (52.8)			
	thiabendazole (12.9) thiram (17.2)	BY	2.9 kg	\$324.45
Alto	cyproconazole	N	5 litre	\$936.89
Amistar 250 SC	azoxystrobin (25)	S	5 litre	\$649.78
Amistar WG	azoxystrobin (50)	S	3 kg	\$966.23
Ant Ban	aerosol spray	PM	200ml	\$6.50
Baytan Universal	triadimenol (15)	BY	10 litre	\$1,125.34
Cereous 250 EC	triadimenol (25)	BY	5 litre	\$508.45
Euparen Multi	Dichlofluanid (50)	BY	2 kg	\$109.34
			10 kg	\$480.00
Folicur 430SC	terbuconazole (25)	BY	5 litre	\$716.45
Kocide Opti	cupric hydroxide (30)	D	10 kg	\$310.00
Manzate Evolution	mancozeb (48)	D	10 kg	\$157.00
Monceren DS	pencycuron (12.5)	BY	20 kg	\$861.34

Prices Exclude GST

Monceren IM 13.3 DS	pencycuron (25) imazall (6)	BY	20 kg	\$730.67
Monceren IM 270FS (twinpack)	pencycuron (25) imazall (2)	BY	11.5 litre	\$1,912.89
Octave 50W	prochloraz (46.2)	BY	1 kg	\$400.89
Opus	epoxiconazole (12.5)	B	10 litre	\$553.78
Ridomil Gold MZ WG	metalaxyl (8) mancozeb (64)	S	5 kg	\$174.22
Rovral Flo	iprodione (25)	BY	5 litre	\$342.23
Rovral Gold 750WG	iprodione (75)	BY	1 kg	\$182.23
Scala	pyrimethanil (40)	BY	5 litre	\$305.78
Score 250 EC	difenoconazole (10)	S	5 litre	\$671.12
Shirlan	fluazinam (50)	CC	5 litre	\$583.12
Sportak 45EC	prochloraz (45)	BY	5 litre	\$277.34
Sumisclex 500SC	Procymidane (25)	N	1 litre	\$152.00
Tilt EC	prop-isoconazole	S	5 litre	\$395.56
Topas 200 EW	penconazole (20)	S	1 litre	\$268.45
Topsin M-4A	thiophanate-methyl (40)	DO	5 litre	\$167.12
Vitaflo 200	carboxin (20) thiram (20)	N	20 litre	\$714.67

2.9.6 Algaecides

Coptrol Algaecide	1 litre	\$80.00
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2.9.7 Rabbit/Rodent/Opossum Control

Pest Management Services

Trade Name	Pack size	Unit price
Pindone Rabbit Pellet	2 / 10 / 25kg	\$27 / \$55 / \$94
Possum/Rats Pellet	2 / 10 / 25kg	\$28 / \$55 / \$98
Racumin Paste	2.25kg	\$58.00
Rabbit/Possum/Ferret/Cat Traps:		
Timms Possum Kill Trap	6	\$45.00
Victor soft catch #1 / #1.5 trap	12	\$21.00 / \$39.00
Conibear #50 single	4	\$16.50
Possum collapsible bait box		\$64.00
Non collapsible cage trap		\$139.00
Fenn Trap Single / Double Tunnel		\$23.00 / \$25.00
Wooden Box Trap (ferret, stoat, weasel)		\$39.00
Possum Bait Stations	varieties	\$1.50 to \$16.00
Rabbit Bait Stations		\$12.00 to \$15.50
Non collapsible rabbit cage trap with treadle		\$198.00
Rodent Bait Stations	varieties	\$2.00 to \$18.00
Ditrac Rodent Bait	1.8kg / 8.2kg	\$28.00 / \$83.00
Confrac Rodent Bait (1.8kg / 8kg)	Pellet x 36	\$32.00 / \$107.00
Rat / mouse traps	varieties	\$2.50 to \$17.00
Codling moth trap, 2 trap set	1 pkt	\$20.00
Codling moth trap refills		\$15.00

Prices Exclude GST

Bell-Booth Ltd:

	Pack Size	Price
Possum Control:		
Possum bait	10kg	\$70.00
Possum bait without bait station	2.5kg	\$26.00
Rodent Control:		
Rodent pellets	350g /3kg / 10kg	\$8.65 / \$40.10 /\$103.50
Rodent pellets plus bait feeder	350g	\$13.40
Rodent blocks	500g /3kg /10kg	\$14.60 / \$58.80/\$154.00
Mouse trap(pr)/mouse bait station		\$2.75 / \$6.75
Treated grain - wheat	1.5kg / 4kg/10kg	\$32.80 /\$78.75 /\$192.75
Treated grain - barley	1.5kg / 3kg/10kg	\$32.80 /\$60.40 /\$192.75
Treated grain - peas	1.5kg / 4kg/10kg	\$32.80 /\$78.75 /\$192.75
Ferret Control:		
Ferret control paste	450g	\$20.50

2.9.8 Bird Repellants

Pest Management Services

Eaton's 4 the Birds repellent 300g/3.8l	4/2	\$7.50 / \$39.00
Birdscare tape 1cmx 91m/2.5cmx150m	4 / 4	\$6.50 / \$7.00
Birdscare predator balloon/octopus	4 / 4	\$14.00 / \$9.00
Magpie Cage Trap		\$320.00
Alphachloralose wheat 1.5kg/4kg/10kg	4 / 2	\$38.00 / \$72.00/ \$192.00
Alphachloralose peas 1.5kg/4kg/10kg	6 / 6	\$30.00 / \$69.00 / \$184.00
Alphachloralose paste 500g	4	\$46.00

Bell-Booth Ltd:

Pestoff Bird control paste	500g	\$39.40
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2.9.9 Bactericides

Refer to *Section 2.9.2* for key to Company Codes.

Streptomycin	streptomycin (17)	K	600 g	\$114.00
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2.9.10 Wetting, Spreading and Marking Agents

Contact	FF	5 litre	\$100.44
Sprayfast	K	5 litre	\$289.78
Rain Guard	K		\$12.67
Nu Film 17	FF	4 litre	\$149.33
Been There	FF	1 litre	\$47.20

2.9.11 Penetrants

Pulse (for Roundup herbicide)	N	5 litre	\$167.12
Triton	M	15 litre	\$443.56
Boost	DO	5 litre	\$168.00
		10 litre	\$262.23

Prices Exclude GST

Guardall Liquid	Y	200 ml		\$19.65
Input	D	10 litre/60 litre	\$218.00/\$1,311.00	

2.9.12 Growth Regulants

Cycocel	chlomequat (75)	B	10 litre	\$93.34
Ethrel 48	chlorthethphon (48)	BY	1 litre	\$88.89
Moddus250ME	trinexapac-ethyl (25)	S	5 litre	\$870.23
Terpal	mepiquat chloride (30.5) chlorthethphon (15.5)	B	5 litre	\$224.45

2.9.13 Oil Sprays

Sunspray 6E	Oils-mineral-insecticidal (97)	B	5 litre	\$53.87
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2.9.14 Soil Fumigants

Basamid Granules	dazomet (99)	B	20 kg	\$389.34
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2.9.15 Root Forming Hormones

Egmont Commercial Ltd:

Ibadex #2 Root Hormone			500 grams	\$15.50
Liba 10,000	gamma-indolylbutyric		200 mls	\$20.00
			1litre	\$90.00

2.9.16 Spraying Costs - Aerial and Ground

(i) Aerial Spraying by Helicopter and Fixed Wing

Each job is taken on its merits, as there are so many variables to consider. These include distance to and from airstrip, climb to treatment area, size and shape of treatment area (small difficult blocks cost more), and general terrain such as obstacle avoidance – trees, buildings and hills.

Canterbury: (fixed wing)

Pasture and crop spraying	\$35 to \$90 per hectare
Brushweed spraying	\$120 to \$300 per hectare

Note: All spraying prices are dependent on water rate requirement and area to be covered.

Canterbury: (helicopter)

Pasture and crop spraying	\$30 to \$80 per hectare
Brushweed spraying	\$100 to \$350 per hectare

Marlborough:

Gorse	\$280 to \$350 per hectare
Pasture weed spraying	\$30 per hectare

Otago:

Pasture weeds	\$40 to \$60 per hectare
Gorse	\$250 to \$300 per hectare

Prices Exclude GST

Auckland:	
Pasture weeds	\$20 to \$25 per hectare
Gorse	\$300 to \$400 per hectare

Hawkes Bay:	
General spraying 80 to 100 litres / ha water rate	\$1,450 per hour
Generally the cost works out at around 0.50 cents per litre of water applied <u>plus</u> the cost of chemical: i.e. @ 80 litres / ha would be around \$40.00 per ha, and 100 litres / ha would be around \$50.00 per ha plus chemical plus GST.	

(ii) Ground spraying (crops)

Rates vary depending on chemical used, application rate and crop being sprayed.

Canterbury:	
<i>Hamish Calder Contracting:</i>	
Boom spraying	\$20 per ha at water rate of 200 litres per ha plus \$3 / ha for extra 50 litres application rate
Weed wiping	(approx \$35 per ha) \$70 per hr
Spot Spraying	(approx) \$70 per hr

Oamaru	
Boom spraying costs on average	\$26 per ha

Marlborough:	
Gun spraying with 2 men and a truck	\$75 - \$80 per hour
Pasture weed spraying	\$26 per ha

Hawkes Bay:	
Ground spraying of squash	\$40 per ha at 300ltr / ha

Prices Exclude GST

2.10 SELLING, HANDLING, PROCESSING CHARGES, AND LEVIES

2.10.1 Yard Fees

These are usually charged on a per head basis, and vary between stock and station agents. These rates can change.

Canterbury

	Vendor	Purchaser
Sheep and lambs	\$0.55	\$0.25
Prime cattle	\$6.00	\$2.00
Store cattle	\$5.00	\$2.00
Prime pigs	\$3.00	\$1.50
Store pigs	\$1.65	\$1.00
Bobby calves	\$2.00	\$1.00
Dairy cattle	\$6.00	\$2.00
Deer	\$5.00	\$2.00

Central and Lower North Island:

Sale Yards	Feilding	Levin	Masterton
Sheep	\$0.30	\$0.30	\$0.30
Cattle	\$4.00	\$4.00	\$3.00
Calves	\$1.00	\$4.00	\$2.40
Pigs		\$0.50	

2.10.2 Commissions on Stock and Plant Sold Through a Stock and Station Agent

Canterbury:

Sale Yards		Clearing Sales	
Sheep	6%	Sheep	6%
Prime/Store Cattle	6%	Store Cattle	6%
Vealers	6%	Dairy Cows	6%
Bulls Stud	6%	Horses	6%
Dairy Cattle	6%	Stud Sheep/Cattle	6%
Pigs	6%	Pigs	6%
Deer	6%	Dogs	6%
Goats	6%	Plant and Machinery	6% to 10%
Bobby Calves	6%	Deer	6%
Stud Deer	6%		

The above commission rates are for auction sales only and these rates can change. Most rates for private selling are slightly higher. The rates for plant and machinery are a guide only as it depends on the quality of the items and the value. High value can be negotiable.

Prices Exclude GST

The schedule below outlines the rates which will apply to auction and private sales.

Central North Island :

Sale Yards	
Sheep	6%
Cattle	6%
Bobby Calves	6%
Bulls Stud	9%
Deer - weaners	6%
Deer - breeding	6%
Deer - stud	9%
Sundry Plant and Machinery Auctions	10 - 12.5%

2.10.3 Wool Selling Charges

Brokers' Charges	12.0 to 15.0 cents per kg
Greasy Wool Testing – Yield, Mean Fibre Diameter and Colour	\$64.50 per test per lot
NZWB levy	A flat rate levy is imposed of 3.0 cents per kg of wool and nil per kg applied to dags, calculated on actual weight.
	Please note. Due to the recent vote by growers to have no wool levy this 3.0 cents will reduce to nil as of April 2010

Brokers' charges cover receiving, warehousing, weighing, lotting, cataloguing and advertising. Reclassing, binning and inter-lotting are not included. The fee quoted here is an average for the whole country and is likely to vary between companies depending on the services provided and the quality of those services.

2.10.4 Goat Fibre Charges

Mohair Pacific's classing and handling charges are as follows. Levies are included.

All fibres attract the following in-store charges:

Classing	55 cents per minute
Warehouse Fee	22 cents per kg
Marketing	5% on net sold

Mohair:

No levies are being deducted on behalf of *Mohair NZ* for fibre at present. Following the Meat & Wool NZ referendum held midway through 2009 the goat meat levy will not continue into 2010.

2.10.5 Velvet Charges

The *NZVM (NZ Velvet Marketing Co)* charges for collection, grading, storage and sale costs are:

A flat fee of \$7.65 per kg.

See also *Section 2.10.7* for *Deer Industry New Zealand* levies.

Prices Exclude GST

2.10.6 Meat Inspection Fees

These fees are payable by meat companies under a compulsory cost recovery contract negotiated with *AsureQuality* each year. The contract includes the recovery of the direct costs of front line meat inspection as well as of off-plant programme costs and overheads. These charges are a matter of agreement between *Asure New Zealand* and its industry clients, and are not available for publication.

Meat inspection fees are usually treated as an internal cost by companies in the South Island and are not shown as a deduction on the killing sheet. In the North Island the fees are often treated as an external cost and are shown separately. Variation in rates may occur between plants because of the different nature and pattern of kill between plants.

As a guide only, the 2009/2010 levels of meat inspection costs are approximately:

Lamb	\$1.60 per head	Goats	\$1.80 per head
Sheep	\$1.75 per head	Deer	\$10.75 per head
Cattle	\$12.00 per head	Bobby calves	rate built into price

2.10.7 Livestock Levies.

All levy rates shown below are GST inclusive. These are the rates of levy at which the Ministry of Agriculture and Forestry will invoice the licensees/ operators of abattoirs, meat export slaughterhouses and other premises where livestock are slaughtered for the purposes of human consumption.

Note: The *Animal Health Board* levy applied from 1 February 2004.

Current Levies per head:	Adult cattle		
Bovine - TB Cattle Levy (<i>Animal Health Board Inc</i>)	\$11.50		
Industry Levies per head:	Cattle	Sheep	Pigs
<i>Meat and Wool NZ Ltd</i>	\$3.80	\$0.45	-
<i>NZ Pork Industry Board</i>	-	-	\$4.50

Note: Adult cattle includes heifers, steers, cows and bulls.

Sheep includes hoggets and rams, and other adult sheep.

As of October 2009, there is no longer a Meat Board levy payable for goats.

1. The *Meat and Wool New Zealand Ltd* levy is imposed on meat from livestock slaughtered. Accordingly, the *M&WNZ* levy does not apply to any animal slaughtered where the carcass is entirely unfit for human consumption. That is, the levy does not apply to any animal slaughtered that is wholly condemned for any reason following slaughter up to the point of scales.
See also *Section 1.8.1*
2. The *Bovine TB-cattle levy (for the AHB)* applies only to slaughtered cattle, the carcasses of which are or exceed 40kg dressed weight at scales. As carcasses wholly condemned prior to scales are not weighed (nor arguably completely dressed), the AHB levy does not apply to any cattle slaughtered that is wholly condemned up to the point of scales.
3. The *Pork Industry Board* levy applies to all pigs slaughtered, notwithstanding that there may be carcasses wholly condemned as unfit for human consumption.

Prices Exclude GST

Wool Board Levy - see *Section 2.10.3*

Deer Industry New Zealand Levies

Levies effective from 1 October 2009:

	Velvet (per kg)		Venison (per kg)	
	Fallow	Other	Fallow	Other
DINZ	\$0.40	\$2.75	\$0.07	\$0.14
AHB	\$0.52	\$0.52	\$0.052	\$0.052
Total	\$0.92	\$3.27	\$0.122	\$0.192

The venison levy is paid on all farmed deer going through Deer Slaughter Premises. A nil levy is charged on all condemned animals, and the levy is waived for animals that are TB reactor positive.

2.10.8 Dairy Company Shares

All farmers who wish to supply milk to a co-operative dairy company need to apply to become a Supplying Shareholder. For *Fonterra and Westland* suppliers this means purchase of shares in the company before milk can be sold, on the basis of one share per kg milk solids supplied. For *Tatua* suppliers, five shares must be owned for each kg of qualifying milk solids. These shares can be purchased from *Tatua* for 50 cents each.

Fonterra Co-Operative Group Ltd shares are based on the “fair value” which is reviewed annually. The fair value share price for 2005/06 was \$5.44, in 2006/07 it was \$6.33, in 2007/08 it was \$6.79, for 2008/09 it was \$7.01 and for 2009/10 it is \$4.52.

Westland's shares are \$1.50 currently.

2.10.9 Herbage Seed Levy

The Commodity Levies (Non Proprietary and Uncertified Herbage Seeds) Order 1997 gives provision for a variable levy rate, which is adjusted annually. NPC levies are fixed under the Commodity Levies (Non Proprietary and Uncertified Herbage Seeds) Order 2009 and are used to pay *AgResearch* for the costs involved in maintaining the publicly owned common *Grasslands* cultivars.

Cultivar	<i>AgResearch</i> NPC Maintenance Rate	<i>FAR</i> Rate	
Red Clover	Grasslands Pawera	3.00%	0.8%
	Uncertified	0.30%	0.8%
White Clover	Grasslands Huia	0.30%	0.8%
	Grasslands Pitau	3.00%	0.8%
	Uncertified White Clover	0.30%	0.8%
All Proprietary Timothy			0.8%
Ryegrass	Grasslands Manawa	2.0%	0.8%
	Grasslands Moata	1.5%	0.8%
	Grasslands Nui	0.3%	0.8%
	Grasslands Ruanui	2.0%	0.8%
	Grasslands Tama	1.5%	0.8%

Prices Exclude GST

Uncertified Ryegrass	0.3%	0.8%
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2.10.10 Arable Crop Growers Levies

United Wheatgrowers (NZ) Ltd: Wheat insurance levy - \$4.00 per tonne, on wheat only . (Valid from 1st February 2010).

Foundation for Arable Research (FAR) levy is payable by the producers of any arable commodity grown in New Zealand. *Foundation for Arable Research Incorporated* has determined the levy for 2010 to be:

Herbage and amenity seed	0.8% of sale value
All other grain and seed crops (cereals, pulses etc)	0.8% of sale value
Open pollinated vegetable seed crops	0.8% of sale value
Hybrid vegetable seed crops	0.5% of sale value
Onion seed crops	zero rated

A levy has been imposed on maize grown in New Zealand for grain, seed or forage, and shall be payable by all maize growers. *Foundation for Arable Research Incorporated* has determined the rate of the levy from 1 July 2009 to the year ending 30 June 2010 to be:

Maize - 90c per 10,000 seeds purchased.

It is compulsory for growers to pay the levy on all grain and seed grown (except maize), at the time that it is sold or used on farm (eg fed to stock, whether whole or processed).

2.10.11 Seed Royalties

Wheat, forage oats, forage triticales and forage barley royalties may be charged on either seed or end point tonnage. Seed tonnage royalties are \$65 to \$100 per tonne of seed. End point tonnage costs range from \$2.50 to \$3.50 per tonne.

Feed barley royalties are \$100 per tonne of seed.

Potato royalties are \$50 to \$65 per tonne of seed.

2.10.12 Horticultural Levies

(i) Berryfruit

Blackcurrants:

This is levied at 4 cents per kg on all blackcurrants produced in New Zealand, under the Commodity Levies (Blackcurrants) Order 2007.

Blueberries:

These levies apply to all fruit, local market and export. However they are no longer compulsory, but if growers wish to be part of *Blueberries NZ Inc* and receive the advantages of new varieties, the levies need to be paid.

Levies are: 10 cents per kg for the first 30,000kgs
7.5 cents per kg for the next 50,000kgs
5 cents per kg for the next 100,000kgs
3.5 cents per kg for the next 200,000 kgs
2 cents per kg over 380,000kgs.

It is capped at \$25,000 per grower.

Boysenberries:

A voluntary levy of 2 cents per kilogram on local market sales. Export levies are through exporter contribution to industry expenses. There are no separate levies at this stage for

Prices Exclude GST

strawberries, blackberries, raspberries or other berryfruit.

(ii) Citrus

The *New Zealand Citrus Growers Inc.* imposes voluntary levies on all citrus fruit growers. The levy rates for 1 April 2009 to 31 March 2010 will be:

Mandarins (satsuma/other)	\$0.05 per kg
Lemons, limes, & grapefruit	\$0.02 per kg
Oranges (navel/other), tangelos	\$0.01 per kg
Processed citrus fruit (all varieties)	\$0.003 per kg

Note: Navel oranges and Satsuma mandarins have Commodity Levies in place, so growers are legally required to pay these levies on all fruit sold (except if sold for processing). All other levies are voluntary – these fund essential research and development work, but growers who are not members of NZCGI are not obliged to pay.

(iii) Summerfruit

Levy on:	Local Market	Export Market
Nectarines	1.5%	1.5%
Apricots	1.5%	1.5%
Peaches	1.5%	1.5%
Plums	1.5%	1.5%
Cherries	1.0%	1.0%

Summerfruit New Zealand (SNZ) is a recognised product group under the *Horticultural Export Authority (HEA)*. Any export of summerfruit comes under the auspices of *HEA*, while the export programme is administered by *SNZ*. Annual registration fees for all participants with *SNZ* are listed below for the 2009/2010 season, along with the applicable fees for all export programmes.

Programme:	Amount
Exporters	
Annual Registration	Annual fee \$1,890
Australian Preclearance	Deposit \$500
	First shipment \$1,500
	Share of total cost Apportioned by use
Western Australia	Annual Fee \$405
Korea	Annual Fee \$430
	Sealing tape for Korea \$15 each
	Inspector Share of total cost
Japan	Annual Fee \$1,890
	Sealing tape for Japan \$15 each
	Inspector Share of total cost
EU and Switzerland	Annual Fee \$510
Exemptions	<100kgs No fee
Annual registration	100 to 300kgs \$115
	300 to 500kgs \$265
	500 to 1000kgs \$425
	1000kgs+ \$540
Packhouses	

Prices Exclude GST

Annual Registration	Annual Fee	\$160
Western Australia	Annual Fee	\$245
Japan	Annual Fee	\$315
EU and Switzerland	Annual Fee	\$245
Growers		
Annual Registration	Paid between 1 and 30 September	\$190
	Paid between 1 and 15 October	\$240
	Paid between 16 and 31 October	\$285
Western Australia	Annual Fee	\$160
Japan	Annual Fee	No fee
EU and Switzerland	Annual Fee	\$125

All fees are non-refundable if exports do not occur. However, should *Summerfruit NZ* need to cancel a programme prior to fruit being shipped, any registration fees for that programme will be reimbursed.

(iv) Other Fruits

	Local market grower	Export market grower
Avocados	3.0% at first point of sale	15c up to a max of 50c per 5.5kg tray For Australia plus another 20c promotional levy plus 2% Processed product 0%
Feijoas	2.0% at first point of sale	2.0% at first point of sale
Nashi Pears	1.5c per kg	30c per 4kg tray
Persimmons		28c per 4kg tray

(v) Orchard Levies

Horticulture New Zealand:

Orchard Fruit Commodity levies apply to all fruit grown in orchard type conditions except berryfruits, e.g. kiwifruit, pip and stonefruit. The levy rate is 0.11% of the gross sales value (\$11.00 per \$10,000 of sales) of all orchard fruit.

(vi) Vegetables

Below are the rates under the commodity levy:

Fresh vegetables (domestic sector)	\$0.45 per \$100 of sales
Fresh vegetables (export sector)	\$0.35 per \$100 of sales
Process vegetables	\$0.5625 per \$100 of sales
Potatoes	\$0.75 per \$100 of sales
Process tomatoes	\$0.15 per \$100 of sales
Fresh tomato	\$0.675 per \$100 of sales
Asparagus	\$0.15 per \$100 of sales
Export squash	\$0.15 per \$100 of sales

The *Asparagus Council* has an additional levy of \$100 + GST per planted hectare.

Prices Exclude GST

2.11 SUNDRY CROPPING AND HORTICULTURAL EXPENSES

2.11.1 Seed Certification Charges

AsureQuality Ltd:

The following fees comprise the total Seed Certification Charge:

- Grower fee - per paddock
- Plot testing fee - per line
- Per kilogram fee - per kg MD seed

Grower Fees:

Crops requiring one inspection (additional charges may apply to crops requiring more than one inspection):

Crop eligible 1st or 2 nd Generation	\$70.00 per paddock
Crop eligible Breeders or Basic	\$140.00 per paddock
Plus travel	\$6.00 to \$63.00 per paddock
Late fee	\$56
Crops withdrawn before inspection date	\$28

Plot Testing Fee: \$12.00 per line

Per Kilogram Fee:

Certified Seed	cents / kg MD seed:
Cereals	\$0.0108
Grasses / Brassicas	\$0.0195
Herbage Legumes	\$0.0351
Redressing and downgrading	\$0.2730 per sack

Uncertified Seed:

Per line fee	\$48 per line
Per kilogram fee	kg MD Seed:
- Cereals	\$0.0057
- Grasses / Brassicas	\$0.0130
- Herbage legumes	\$0.0216

Example Calculation:

1st Generation crop of Perennial Ryegrass

Line size 6500kg MD seed

Grower fee	- Crop eligible 1st Generation	\$70.00
	- Travel	\$8.00
Plot Testing		\$13.00
Per kg fee - 6500 kg MD ryegrass x \$0.0195 per kg MD seed		\$126.75

Prices Exclude GST

2.11.2 Grain Drying Charges

Agri Pro Seeds: (Ashburton)

All grain drying - up to 15% moisture	\$24.00 per tonne
- for every 1% moisture above 15%	plus \$1 per tonne
Seed sampling for certification	\$35.00 per sample

SGS New Zealand Ltd.: (Timaru) - Grain Terminal charges 2010 for Wheat/Barley/Oats:

% Moisture	Price per metric tonne
0 to 15.0%	\$19.00
15.1% to 16.5%	\$20.00
16.6. % to 18.0%	\$23.00
18.1% +	P.O.A

Pricing may change due to fluctuating fuel prices

Wheat and Barley: Mt Stewart – Gillespies Line (PGG Wrightson Grain)

Moisture %	Price per tonne	Moisture %	Price per tonne
14.6 to 15.5	\$18.50	17.6 to 18.5	\$25.00
15.6 to 16.5	\$20.25	18.6 to 19.5	\$28.00
16.6 to 17.5	\$23.00	>19.6	\$3.25 per %

Maize: Mt Stewart – Gillespies Line (PGG Wrightson Grain)

Moisture %	Price per tonne	Moisture %	Price per tonne
<20.0	\$29.90	25.1 to 26.0	\$43.20
20.1 to 21.0	\$32.10	26.1 to 27.0	\$45.40
21.1 to 22.0	\$34.30	27.1 to 28.0	\$47.60
22.1 to 23.0	\$36.50	28.1 to 29.0	\$49.80
23.1 to 24.0	\$38.70	29.1 to 30.0	\$52.00
24.1 to 25.0	\$41.00	30.1 to 31.0	\$54.20

NB Prices are yet to deduct \$1 per tonne off total maize drying

2.11.3 Consolidated Dressing and Store Handling Charges

These rates include receiving, delivering, sampling, weighing, dressing, brushing of sacks and disposal of offal (prices based on machine dressed weight).

Ryegrasses	Perennial and Italian	\$0.19 to \$0.20 per kg
Cocksfoot		\$0.43 per kg
Clovers	White, Red and Alsike	\$0.46 per kg
Grass seed (Fine)	Browntop, Dogstail and Timothy	\$0.49 per kg
Fescue		\$0.25 per kg

Field dressed ryegrasses, clovers and tim othy usually dress out approxim ately 15% to 20% offal and field dressed cocksfoot from 25% to 35% offal.

Brassica	\$0.26 per kg
Chemical treating	\$50.00 per tonne plus materials

Prices Exclude GST

Machine Dressing (prices based on field dressed weight)

Wheat and Ryecorn	\$68.00 per tonne
Barley	\$68.00 per tonne
Field Peas and Lupins	\$60.00 per tonne
Garden Peas, Beans and Lentils	\$70.00 per tonne
Oats (dressing and clipping)	\$65.00 per tonne

Sampling is charged at \$40.00 per line and dumping of disposable offal is \$16.00 per tonne. Health certificates cost \$40.00 per line.

Grading

SGS New Zealand Ltd.: (Timaru) - Laboratory charges 2010

	Price
Grading service charges	
Pulses – (Peas, Lentils, etc)	\$5.00 per metric tonne
General purpose Wheat/Barley	\$1.50 per metric tonne
Opinion on samples – Pulses	\$50.00 per sample
Milling/Biscuit wheat	\$3.20 per metric tonne
Malting barley	P.O.A.

Storage Charges

SGS New Zealand Ltd.: (Timaru) - Grain Terminal charges

Standard storage charges are \$0.09 per metric tonne per day. Individual silage storage lease P.O.A.

Receiving and delivery charges

SGS New Zealand Ltd.:

	Grains
Receiving	\$3.50 per metric tonne
Delivery to road / ship	\$3.50 per metric tonne
Delivery to Pacifica / Toll, FCL	\$3.90 per metric tonne

PGG Wrightson Grain (Mt Stewart – Gillespies Line) – grain storage is based on around \$0.12 per tonne per day or \$3.60 per tonne per month.

A Canterbury company charges up to \$3.00 per tonne per week for small seeds and up to \$1.60 per tonne per week for pulses and cereals.

2.11.4 Seed Testing Fees

AsureQuality Ltd.: (New Zealand Seed Laboratories)

Purity and Germination Tests:	Cost per sample	
	*January-April	May-December
Purity and Germination combined (P&G)	\$192	\$152
Purity only	\$133	\$113
Germination only	\$136	\$117
Germination only, Field Dressed	\$76	\$77

Prices Exclude GST

*Includes an industry agreed surcharge of \$40 for a P&G test to assist in meeting the costs of employing overseas seed analysts to work in NZ from January to April each year.

Additional Tests or Services:

Endorsed certificate for export	\$91
Downgrading	\$63
Seed weight	\$20
Fluorescence	\$53
Moisture	\$105
Tetrazolium	\$130
Vigour	\$130
Buried clover seed content in soil sample	\$130
Seeds for identification	\$78
Heterogeneity tests	\$980

Seed-borne Disease tests:

Phytosanitary and Quarantine	
Tests for	
- Fungi	\$145
- Bacteria	\$145
- Viruses	\$145
- Nematodes	\$145
Combined Tests	
- Pea Bacterial Blight (PBB) and Pea Seedborne Mosaic Virus (PSBMV)	\$234
- PBB, PSBMV and Ascochyta	\$300

Endophyte Tests - Ryegrass and Fescue:

Seed-borne test	\$145
Grow out test	\$145

Trees:

Germination and seed weight	\$124
Germination, seed weight and Tetrazolium	\$186
Germination, seed weight, Tetrazolium and moisture	\$211

Agri Pro Seeds: (Ashburton)

Separate laboratory tests on Milling Wheat	
Protein/Moisture (NIR)	\$15.50
Falling number	\$15.00
Black point / Sprout	\$7.00
Kernel weight	\$7.50
Screenings (Rotoscreen)	\$4.50
Test weight	\$4.50
Full range of laboratory tests	\$35.00
Ear oven official test	\$35.00

Prices Exclude GST

SGS New Zealand Ltd.: (Timaru) - Laboratory charges - per sample

Moisture (NIR)	\$20
Moisture (air oven)	\$60
Moisture/Protein (NIR)	\$25
Germination (Aubrey method)	\$85
Germination (Aubrey method) - with certificate	\$120
Germination (Vitascope method)	\$55
Protein (NIR)	\$20
Admixture	\$20
Kernel weight	\$20
Screenings (Rotary)	\$20
Test weight	\$20
Falling number (meal and flour)	\$35
Black point	\$20
Skinnings	\$20
Full test (Wheat) - M%, P%, Scr%, B/P%, Kg/HI, K/w, F/n, Admix	\$52
Full GP Barley test – M%, Scr%, Kg/HI, Admix	\$36
Full Feed Wheat test - M%, Scr%, Kg/HI, Protein, Admix	\$36
Full Malting Barley test - M%, Scr%, Pro%, Kg/HI, Vitascope, Admix	\$65

2.11.5 Crates and Packaging

Crate Hire

Fruit Case Company:

F75, F47, F35, D47, F21/28	\$11 deposit plus \$1.05 hire fee
Plastic Bin 1200 x 1000 x 738mm	\$200 deposit plus \$15 hire fee
Pallet 1200 x 1000mm	\$25 deposit plus \$2.50 hire fee

Trays

Huhtamaki Moulded Fibre:

	Price per 1000
Apple trays	\$180
Pear trays	\$250
Wine packaging	Price per 1000
Stand up wine dividers	\$260
Laydown wine bottle dividers	\$380
Egg Packaging	Price per 1000
Egg cartons - dozens, printed	\$235
Egg cartons - twin sixes	\$243
Egg trays 30 cell / 20 cell	\$195

Punnets

Flight Group Ltd:

Punnets	T3289	159 x 114mm Cavity 900 per ctn	\$126.74 to \$1201.18 per thousand
	T2189	152 x 108 x 63mm	\$105.00 to \$87.33 per thousand
	T1880	6 cavity punnet	\$157.10 to \$131.00 per thousand

Prices Exclude GST

Punnets	T2346	6 cavity punnet	\$127.27 to \$115.00 per thousand
	T1408	100 x 150 x 50mm	\$99.05 to \$89.46 per thousand
	T2131	100 x 150 x 60mm	\$101.18 to \$81.14 per thousand
	T1863	6 cavity punnet	\$130.46 to \$119.28 per thousand

Flower Packing

Quantum Grow Ltd:

Freesia sleeve	perforated 350 x 220 x 80mm	from \$81.00 per 1000
Carnation sleeve	perforated 450 x 270 x 120mm	from \$97.00 per 1000
Spray carnation sleeve	perforated 450 x 210 x 100mm	from \$83.00 per 1000
Chrysanthemum sleeve	perforated 450 x 350 x 150mm	from \$118.00 per 1000
Flower cartons	(extensive range)	from \$1.35
White carton liner	1120mm x 25m roll	\$93.00
Acid free tissue	500 x 750mm. Ream 1000 sheets	\$93.00
Tetron	200mm, 250, 400, 500, 800mm 50m roll	\$50.00 to \$67.00
Calla wrap	widths: 150mm, 200, 250mm 75m roll	\$42.00
Jap hooks		\$111.00 per 1000
Jap band	Sizes 68W Bag 500	\$33.00
Ice pack, Q500	500gm pack	from \$0.86 each
Ice pack, Thermosorb	6 x 2 sheet	from \$0.78 each

Post harvest treatment for flowers:

Chrysal AVB	1 litre	\$210.00
Chrysal CVB	1000 tablets	\$100.00
Chrysal OVB	5 litres	\$110.00
Chrysal RVB	5 litres	\$230.00
Chrysal SVB	250 pills	\$189.00
Rogard Clear/Gold/Silgard	3.8 litre	\$79.50 / \$71 / \$103
Hydraboost	3.8 litre	\$78.00

Pacific Growers Supplies Ltd: (2008 prices)

Freesia sleeve	Plain / Perforated	\$40.13 / \$43.19 per 1000 (<5000)
Spray carnation sleeve	Plain / Perforated	\$47.25 / \$50.06 per 1000 (<2000)
Chrysanthemum sleeve	Plain, small / large	\$64.44 / \$72.00 per 1000 (<3000)
	Perforated, small / large	\$67.88 / \$75.38 per 1000 (<3000)
Orchid polyprop. sleeve	In a range of sizes	\$41.65 - \$70.32 per 1000 (<3000)
Lily sleeves	Plain	\$74.25 - \$84.63 per 1000 (<3000)
	Perforated 2 sides	\$76.94 - \$87.13 per 1000 (<3000)
General purpose sleeve	Plain / Perforated	\$56.81 / \$58.56 per 1000 (<2000)
Polypropylene long rolls	2500m length with varying widths	\$6.06 to \$6.88 per kg
	Polypropylene short roll	
	Plain, 300 and 350 widths x 1000m	\$6.74 per kg
	Perf. 300, 350, 450 widths x 1000m	\$7.56 per kg
Acid free tissue		(5+ packs) \$57.47 per pack
Calla wrap sheets	440 x 250 mm sheets	up to 9 bundles: \$25.25 each

Prices Exclude GST

	(in bundles of 100)	10 to 59 bundles: \$23.77 each 60 plus bundles: \$22.28
Calla wrap rolls	200mm x 75m - 1 to 20 rolls	\$33.80 per roll
	200mm x 75m - 20 rolls plus	\$32.33 per roll
Flower boxes with a lid	Plain 1200x400x150mm	(up to 100) \$4.14 each
and base	Printed 200x195x120mm	(up to 100) \$2.56each

Kiwifruit Tray Component Prices

Zespri International Ltd.:

Pack	\$1.47
Pallet	\$23.70
Pallet Cap Cardboard	\$3.00
Dust cover	\$1.18
Polyliner	\$0.06
Straps	\$0.032
Seals	\$0.0300
EAN label	\$0.0116
Glue and assembly	\$0.57
Corner boards	\$0.89

Twine

Fruitfed Supplies: (Donaghys products)

No:16 Twine	\$27.11 per ball
No:32 Twine	\$29.78 per ball

2.11.6 Grading and Packing Charges - Horticultural Produce

See also *Section 3*, Export Fruit Gross Margins.

Apples

Contract Grading/Packing (Canterbury 2010 prices)

Grading charge of \$70 for standard bin.

Packing charges

	\$ per TCE gross	\$ per TCE export
Hawkes Bay	\$3.02	\$4.13
Nelson	\$2.88	\$3.78

Source: MAF Horticulture and Arable Monitoring Report 2009

Avocado (*Avocado Industry Council Ltd.*)

Export avocados	\$4.50 per tray \$9 per double layer box
Local market avocados	\$3.50 to \$4.00 per crate

Kiwifruit (Note: These are average costs, which vary by pack type.)

<i>Seeka Kiwifruit Industries:</i>	Pack and packaging
Hayward CK (Green)	\$1.80 per tray
Gold	\$2.80 per tray

Prices Exclude GST

2.11.7 Cool Storage

One Canterbury company charges the following:

Blast Freezing (Fresh fruit, vegetables, meat, fish, etc)

Depending on volume and sorting requirements, up to 10 cents per kg.

Storage (Depending on volume involved and occupancy period)

- Chilled - up to \$20.00 per tonne per calendar month or part thereof
- Frozen Fresh Fruit - \$25.00 per tonne per calendar month or part thereof
- Vegetables - up to \$20.00 per tonne per calendar month or part thereof
- Meat – up to \$28.00 per tonne per calendar month or part thereof
- Fish – up to \$22.00 per tonne per calendar month or part thereof

Sorting/Picking Charges

These are extra, depending on requirements

2.11.8 Pollination

Also see *Section 1.15.5* Pollination and *1.15.6* Live Bees

Hive Hire

One Hawkes Bay company charges the following:

Stone and pipfruit:	\$75 to \$100 per hive
Kiwifruit:	\$135 to \$150 per hive

	2006/2007	\$ per hive 2007/2008	2008/2009
Pipfruit, stonefruit, berries	\$60 to \$90	\$60 to \$96	\$55 to \$96
Kiwifruit:			
Hawkes Bay	\$110 to \$150	\$110 to \$170	\$140 to \$160
Auckland / Waikato	\$100 to \$185	\$110 to \$150	\$115 to \$150
Bay of Plenty*	\$102 to \$175	\$110 to \$160	
Gold Kiwifruit			\$110 to \$145
Green Kiwifruit			\$130 to \$160
Nelson	\$100 to \$120	\$100 to \$120	\$125 to \$145
Canola & other brassicas	\$120	\$120	\$120 to \$140
Carrots		\$150	\$150 to \$180

* Prices at lower end are for hives delivered to depot sites. Higher end prices include delivery to orchard and sugar for three 1.5 litre feeds to stimulate bees to collect pollen.

Source: Horticulture and Arable Monitoring Report 2009.

Canterbury:

Vegetable seeds i.e. Cabbage, Cauliflower and Radish	\$125 per hive
Clover	\$110 per hive
Carrot	\$160 per hive

Note that costs will increase when beekeepers have to start treating for varroa in their areas.

Prices Exclude GST

Hive Purchase

Single box hive

\$150

Bumble Bees*Zonda Resources*: per hive (freight not included)

Serves up to 1,500 square metres. Both indoor and outdoor.

\$65 to \$125

2.11.9 Weighbridge Charges*Fulton Hogan Quarries* (Canterbury) - \$12.00 per weigh.**Prices Exclude GST**

2.12 REPAIRS AND MAINTENANCE

Expenditure on repairs and maintenance varies widely between farm types, districts and seasons. Farm profitability or otherwise is very often a major factor. Where records are not available the following should be used as a guide only.

2.12.1 Total Repairs and Maintenance per Farm/Orchard

Average figures are as follows:

Sheep and Beef	(per su)
Northland	\$5.17
Waikato/Bay of Plenty Intensive	\$5.35
Central North Island Hill Country	\$4.23
Gisborne Hill Country	\$3.41
Hawkes Bay/Wairarapa Hill Country	\$2.96
Eastern Lower North Island Intensive	\$3.53
Western Lower North Island Intensive	\$5.91
South Island High Country	\$2.93
Canterbury/Marlborough Hill Country	\$3.83
Canterbury/Marlborough Breeding and Finishing	\$5.92
Otago Dry Hill	\$4.81
Southland/South Otago Hill Country	\$4.41
Southland/South Otago Intensive	\$3.51
National	\$4.18
Dairy	(per cow)
Northland	\$109
Waikato/Bay of Plenty	\$97
Taranaki	\$75
Lower North Island	\$115
Canterbury	\$116
Southland	\$70
National	\$98
Deer	(per su)
North Island	\$3.77
South Island	\$4.04
Arable	(per ha)
Canterbury	\$114
Horticulture	(per ha)
Kiwifruit	\$1,920
Hawkes Bay Pipfruit	\$827
Nelson Pipfruit	\$1,285
Viticulture	
Marlborough	\$459
Hawkes Bay	\$646

Source: MAF Horticulture and Pastoral Monitoring Reports 2009

Prices Exclude GST

2.12.2 Repairs and Maintenance - Farm Improvements, Plant and Machinery

Where precise information is unavailable, expenditure on repairs and maintenance of farm improvements and plant may be estimated by using the following rates:

% capital value per annum

Dwellings	1 to 3%	depending upon the age of the building
Farm buildings	1 to 3%	
Piggeries	2 to 5%	
Water supply	Up to 5%	depending on water type
Implements and plant	5 to 15%	depending upon use
Roads, tracks and culverts	1 to 5%	depending on locality
Yards and dip	2.5 to 5%	
Fences	1%	

Farm Vehicles

Where no other figures are available use 100% of cost over the economic life of the vehicle. See *Section 2.13.2* for tractor examples.

2.13 VEHICLE EXPENSES

2.13.1 Total Vehicle Running Expenses

The following figures can be used as estimates for budgeting purposes where details are not available for the farm or orchard. Depending on the locality and type of property, typical total vehicle running expenses (including, oil, repairs and maintenance, registration etc) but excluding fuel costs on all farm vehicles including private car use, are as follows:

Sheep and Beef	(per su)
Northland	\$2.01
Waikato/Bay of Plenty Intensive	\$2.43
Central North Island Hill Country	\$2.18
Gisborne Hill Country	\$1.28
Hawkes Bay/Wairarapa Hill Country	\$1.59
Eastern Lower North Island Intensive	\$2.20
Western Lower North Island Intensive	\$3.59
South Island High Country	\$1.42
Canterbury/Marlborough Hill Country	\$1.89
Canterbury/Marlborough Breeding and Finishing	\$3.28
Otago Dry Hill	\$1.91
Southland/South Otago Hill Country	\$2.05
Southland/South Otago Intensive	\$3.29
National	\$2.17
Dairy	(per cow)
Northland	\$49
Waikato/Bay of Plenty	\$33
Taranaki	\$37
Lower North Island	\$38
Canterbury	\$35
Southland	\$47
National	\$38
Deer	(per su)
North Island	\$2.55
South Island	\$3.26
Arable	(per ha)
Canterbury	\$73
Horticulture	(per ha)
Kiwifruit (including fuel)	\$1,546
Hawkes Bay Pipfruit	\$555
Nelson Pipfruit	\$811
Viticulture	
Marlborough	\$281
Hawkes Bay	\$219

Source: MAF Horticulture and Pastoral Monitoring Reports 2009

For details see individual items in this section.

See also Section 2.12.2 for estimates of the repairs and maintenance component of expenditure on motor vehicles.

Prices Exclude GST

2.13.2 Tractor Running Costs

A useful calculation to determine the fuel requirements of a tractor is:

0.21 litres per kilowatt hour.

Guide to Tractor Fuel Requirements for Individual Field Operations.

Operation	Fuel Consumption litre/ha
Subsoiling	15
Ploughing	21
Heavy cultivation	13
Light cultivation	8
Rotary cultivation	13
Fertiliser distribution	3
Grain drilling	4
Rolling	4
Mowing, tedding, baling	3
Forage harvesting	15
Spraying	1

Source: "Choosing and Using Farm Machines", B. Whitney, 1988. Note this book has not been updated since then.

Guide for fuel consumption under minimum cultivation and normal cultivation conditions.

(This guide is based on 0.24 and 0.32 litres per kW hour.)

Tractor Power		Minimum Cultivation	Normal Cultivation
HP	kW	(0.24 l per kW hr)	(0.32 l per kW hr)
16	11.5	2.76 litres per hour	3.68 litres per hour
30	22.0	5.28 litres per hour	7.04 litres per hour
40	30.0	7.20 litres per hour	9.60 litres per hour
50	37.0	8.88 litres per hour	11.84 litres per hour
64	48.0	11.52 litres per hour	15.36 litres per hour
75	55.7	13.37 litres per hour	17.82 litres per hour
80	60.0	14.40 litres per hour	19.20 litres per hour
103	77.2	18.53 litres per hour	24.70 litres per hour
160	119.0	28.56 litres per hour	38.08 litres per hour

Prices Exclude GST

Total Tractor Running Costs - Examples

(i) 67 kW (90 HP) 4WD Tractor

Replaced after 3500 hours (6 years)

Initial Cost \$90,000; Resale price \$49,500

Running: Average 585 hours per year

Fixed costs per annum:		
Opportunity cost \$90,000 at 7% (Real)	\$6,300.00	
Replacement cost \$90,000 - \$49,500		
\$40,500 x sinking fund factor (7% for 6 years) 0.139796	\$5,661.74	
Annual licensing fee	\$35.12	
Insurance (full replacement)	\$900.00	
		\$12,896.86
Total fixed cost per hour (585 hours/year)		\$22.05

Variable costs per hour:		
Fuel usage - 14 litres at \$1.10 per litre	\$15.40	
- based on minimum cultivation conditions		
Oil and filters 15% of fuel cost	\$2.31	
Repairs and maintenance 100% of purchase price over 'economic life' of tractor (10000 hrs)	\$9.00	
Total variable costs per hour excluding labour		\$26.71

Total cost (fixed plus variable) per hour	\$48.76
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(ii) 115 kW (150 HP) 4WD Tractor

Replaced after 4000 hours (6 years)

Initial Cost \$150,000; Resale price \$82,500

Running: Average 670 hours per year

Fixed costs per annum:		
Opportunity cost \$150,000 at 7% (Real)	\$10,500.00	
Replacement Cost (\$150,000 to \$82,500)		
\$67,500 x Sinking fund factor (7% for 6 years) 0.139796	\$9,436.23	
Annual licensing fee	\$35.12	
Insurance (full replacement)	\$1,300.00	
		\$21,271.35
Total fixed cost per hour assuming 670 hours per year		\$31.74

Variable costs per hour:		
Fuel usage - 18 litres at \$1.10 per litre	\$19.80	
- based on minimum cultivation conditions		
Oils and filters 15% of fuel cost	\$2.97	
Repairs and maintenance 100% of purchase price over 'economic life' of tractor (10000 hrs)	\$15.00	
Total variable cost per hour excluding labour		\$37.77
Total cost (fixed plus variable) per hour		\$69.51

Prices Exclude GST

(iii) 165 kW (215 HP) 4WD Tractor

Replaced after 4500 hrs (6 years)

Initial Cost \$175,000; Resale price \$96,250

Running: Average 750 hours per year

Fixed costs per annum:	
Opportunity cost \$175,000 at 7% (Real)	\$12,250.00
Replacement cost (\$175,000 - \$96,250)	
\$78,750 x Sinking fund factor (7% for 6 years) 0.139796	\$11,008.93
Annual licensing fee	\$35.12
Insurance (full replacement)	\$1,500.00
	\$24,794.05
Total fixed cost/hour assuming 750 hours per year	\$33.05

Variable costs per hour:	
Fuel usage - 23 litres at \$1.10 per litre	\$25.30
- based on minimum cultivation conditions	
Oil and filters 15% of fuel cost	\$3.79
Repairs and maintenance 100% of purchase price over 'economic life' of tractor (10000 hrs)	\$17.50
Total variable cost per hour excluding labour	\$46.59

Total cost (fixed plus variable) per hour	\$79.64
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2.13.3 Car Operating Costs

Petrol-driven vehicles estimated on 14,000km per year, first five years of ownership.

Fluctuating fuel prices have minimal effect on overall costs. e.g. Fuel costing an extra 21c/litre will increase these costs by an average of 0.7%

Engine Capacity	Up to 1,500cc	1,501- 2,000cc	2,001 to 3,500cc	above 3,500cc
	New rrp to \$29,000	New rrp to \$40,000	New rrp to \$50,000	New rrp to \$65,000
Avg value of vehicle surveyed	\$23,331	\$33,266	\$43,546	\$56,760
Fixed Costs				
Average value at start of third year	\$15,931	\$20,006	\$27,945	\$35,325
Annual relicensing	\$248	\$248	\$248	\$248
Insurance - Comprehensive, No Claim	\$563	\$737	\$797	\$957
Warrant of Fitness annually for the first six years	\$45	\$45	\$45	\$45
Total Outlay	\$16,787	\$21,035	\$29,034	\$36,575
Interest on outlay	\$769	\$963	\$1,330	\$1,675
Capital Cost (Outlay + Interest)	\$17,556	\$21,999	\$30,364	\$38,250
Depreciation at third year	\$2,708	\$3,343	\$4,145	\$5,588
Depreciation Value	\$13,223	\$16,663	\$23,800	\$29,737

Prices Exclude GST

Total Fixed Costs	\$4,333	\$5,336	\$6,565	\$8,514
Fixed Costs per Day	\$11.87	\$14.62	\$17.99	\$23.32

Running Costs

Petrol - Litres used per 100km	6.35	7.63	10.32	12.27
Litres used over 14,000km	889	1,068.7	1,444.8	1717.3
Cost of fuel annually at \$1.67 / litre	\$1,457.96	\$1,752.67	\$2,369.47	\$2,816.37
Oil 'top ups'.	\$55.77	\$55.77	\$55.77	\$55.77
Tyres annual cost	\$272.20	\$310.46	\$349.23	\$489.86
Repairs and Maintenance	\$571.66	\$576.65	\$669.38	\$767.80
Total Running Costs	\$2,357.58	\$2,695.54	\$3,443.85	\$4,129.80
Running Cost per Kilometre	16.8c	19.3c	24.6c	29.5c
Fixed Costs Plus Running Costs	\$6,690.33	\$8,031.63	\$10,008.45	\$12,643.30
Cost cents per km	47.8	57.4	71.5	90.3
Previous Year	52.2	63.0	79.6	100.2
Percentage difference over last year	-8.4%	-8.9%	-10.19%	-9.87%
Overall costs have decreased by	9.4%			

Source: Automobile Association 2009 report

Diesel Running and Operating Costs.

Figures based on 14,000km per year for the first five years of ownership.

	Up to 1500cc new rrp to \$32,000	1501 to 2,000cc new rrp to \$42,000	2,001 to 3,000cc new rrp to \$60,000	3,000+ cc new rrp to \$80,000
Average value of vehicle surveyed	\$28,472	\$35,719	\$47,382	\$68,352
Avg value at start of 3 rd year:	\$18,870	\$23,643	\$32,178	\$39,367
Annual relicensing	\$372	\$372	\$372	\$372
Insurance (Comprehensive, no claim)	\$710	\$771	\$801	\$965
WOF annually first 6 years	\$45	\$45	\$45	\$45
Total Outlay	\$19,997	\$24,831	\$33,396	\$40,749
Interest on outlay	\$916	\$1,137	\$1,530	\$1,866
Capital Cost (Outlay + Interest)	\$20,913	\$25,969	\$34,925	\$42,615
Depreciation at 3 rd year	\$3,208	\$3,633	\$4,367	\$6,675
Depreciation Value	\$15,662	\$20,010	\$27,811	\$32,692
Total Fixed Costs	\$5,251	\$5,959	\$7,114	\$9,923
Fixed costs per day	\$14.39	\$16.33	\$19.49	\$27.19
Flexible Running Costs				
Diesel litres used per 100km	4.86	5.29	8.24	8.28
Litres used over 14,000km	680.4	740	1,154.2	1,159.7
Cost of fuel annually at \$0.99	\$672.92	\$731.86	\$1,141.50	\$1,146.94

Prices Exclude GST

Road User Charges	\$504.98	\$504.98	\$504.98	\$527.94
Cost of oil	\$55.77	\$55.77	\$55.77	\$55.77
Tyres cost per year	\$253.12	\$295.73	\$404.11	\$475.93
Repairs & Maintenance	\$601.99	\$675.54	\$785.90	\$1,047.94
Total Running Costs	\$2,088.77	\$2,263.88	\$2,892.26	\$3,254.52
Running Cost per km	14.9c	16.2c	20.7c	23.2c
Fixed Cost + Running Cost	\$7,339.65	\$8,222.77	\$10,006.17	\$13,177.51
Cost cents per km	52.4	58.7	71.5	94.1
Previous year	58.0	66.0	80.0	100.3
Percent difference over last year	-9.6%	-11%	-10.66%	-6.15%
Overall costs have decreased by	9.4%			

Source: Automobile Association 2009 report

2.13.4 Fuel, Oil and Grease

Petrol Nov 09	- Unleaded (91 octane)	\$1.50 to \$1.53 per litre
	- Unleaded (96 octane)	\$1.61 to \$1.64 per litre
Diesel Nov 09		\$0.95 to \$0.98 per litre

Note Petrol and diesel prices are bulk delivered to farm. Prices are for deliveries to Zone 1 (0 to 65km from nearest bulk terminal.) Deliveries beyond Zone 1 are subject to additional freight charges.

Oil: One major New Zealand company's oil prices:

	Container size	Wholesale (delivered)
Universal tractor oil 15W40	200 litre	\$1,112.80
Gear oil 80W90	60 litre	\$367.54
	20 litre	\$125.82
Two stroke oil	20 litre	\$139.11
Hydraulic fluid	200 litre	\$949.30
	20 litre	\$102.87
Antifreeze	20 litre	\$111.91
Grease:		
Heavy duty grease	15kg	\$167.50
Multi-purpose grease cartridges	12 x 425gm	\$59.53
Multi-purpose grease pail	18 kg	\$149.35

2.13.5 Tyres and Tubes

Bridgestone New Zealand Ltd:

Tubes:	Price each
Tractor/Earthmover/Forestry and Loader tubes, 9.5 - 24 to 35.5L - 32	\$68.40 to \$510
Tyres:	
Radial 45 degree and Multi angle Rear tractor tyres, 11.2R24 R7000 to 20.8R38 R8000	\$785 to \$2,658
320 / 70R24 R6000 to 580 / 70R38 R8000	\$928 to \$3,733

Prices Exclude GST

440 / 65R24 R9000 to 650 / 65R42 R9000EV	\$1,392 to \$4,537
Cross-ply rear tractor tyres, 8.3 - 24 Bridgestone to 12.4 - 42 Firestone	\$324 to \$1,263
Front Tractor: Front Rib 400 - 12 to 1100 - 16 + 400 -19	\$80 to \$495
Farm/implement/utility tyres:	
14.9 - 24 to 16.9 - 28 ATU (All Traction Utility)	\$999 to \$1,308
Rancher, 400-12 to 750 - 16	\$130 to \$320
Power Implement 12.5L15 to 16.5 - 16.1 + 12.5L20	\$338 to \$818.10
Farm Implement 8.5L - 14 to 21.5L - 16.1 + 750 - 20	\$230 to \$1,224
Transport AW tread 11.5 / 80 - 15.3 + 10.0 / 75 - 15.3	\$310 to \$430

2.13.6 Licensing/Road Charges

Re- Licensing Fees - (12 months) as at 1 July 2009 (including GST)

Type	Usage	Petrol	Diesel
Private Car/Van	Private Passenger Usage	\$247.86	\$372.32
Farmers Car/Van	Exempt Class B	\$56.50	\$56.50
Agricultural Machinery	Exempt Class B	\$35.12	\$35.12
Farmers Motorcycle	Exempt Class B, 61cc and over	\$35.12	\$35.12
Trucks (not subject to TLF)	Private Passenger - Up to 3500kg	\$247.86	\$398.45
	Private Passenger - 3501kg and over	\$249.36	\$399.95
Farmers Truck	Exempt Class B up to 3500kg	\$56.50	\$56.50
	Exempt Class B over 3500kg	\$56.50	\$56.50
Tractor	Exempt Class B	\$35.12	\$35.12
Trailer	Exempt Class B up to 3500kg	\$35.12	
	Exempt Class B over 3500kg	\$56.50	
Domestic Trailer	up to 3500kg	\$35.12	
Domestic Trailer	3501kg to 6000kg	\$59.84	
ATV	Exempt Class B	\$35.12	\$35.12

6-month licences are available and are usually approximately 50% of the 12 month fees.

Road User Charges (RUC)

The cost of using New Zealand roads is recovered from road users via levies included in the price of some fuels or via Road User Charges (RUC).

A vehicle subject to RUC is any vehicle that is powered by a fuel not taxed at source or has a manufacturer's gross laden weight of more than 3.5 tonnes (3500kg). Where the manufacturer's gross laden weight is more than 3.5 tonnes (3500kg) an approved hubodometer must be fitted to a non-lifting axle on the left-hand side of the vehicle. A current RUC licence label must be displayed while operating the vehicle on public roads.

Fuels taxed at source are petrol, compressed natural gas (CNG) and liquified petroleum gas (LPG).

There are three types of RUC licence to choose from. In the majority of cases a **distance** licence will be required. Distance licensed vehicles are classified according to whether the vehicle is powered or unpowered, the number of axles, and the number of tyres per axle. Distance licences are purchased in units of 1000 km or multiples thereof. Vehicles must be

Prices Exclude GST

continuously licensed. This means that a new licence must be purchased before the distance covered by the old licence is exceeded. Distance -licensed vehicles must be fitted with a distance recorder that is of a type and accuracy to provide reliable records of distance travelled.

In October 2009 a 10,000 km distance licence for a 2 tonne vehicle (Type 1) cost \$396.80 (including GST) plus a transaction fee. Transaction fees (GST incl) are \$9.56 over the counter, \$6.98 by phone or fax, ATM sales \$5.06 and Direct Connects are \$3.38.

Time licences are purchased for a period of one to 12 months. They are required for those vehicles being driven with trade plates and special machinery (front-end loaders, trailer scrapers, self-propelled trench diggers and excavators, etc). For a front-end loader of 10 tonnes the annual fee would be \$269.47 plus the transaction fee.

Supplementary licences are available for carriers of heavier than normal loads for a short distance. These licences are purchased in units of 50 km and replace the original licence for the distance. Once the Supplementary licence has expired the original licence will again be in force. Both licences must be displayed.

All licences must match the vehicle concerned, i.e. loaded weight, vehicle weight, vehicle type and registration plate. It is important that the correct licence weight is bought. To determine the correct unladen weight of the vehicle the vehicle manual or local dealer should be referred to. In all cases the expected vehicle load should be added to the unladen weight to establish the licence weight. This weight is then rounded up to the nearest tonne for the licence weight to be purchased.

2.13.7 Combine Harvester Running Costs

260 kW (338 HP) Header Harvester - Total Running Costs:

Replaced after 3000 hours (15 years) 200 hours per year

Initial Cost \$395,000; Trade in Value \$153,352

Fixed costs per annum:	
Opportunity cost \$395,000 at 7% (Real)	\$27,650.00
Replacement cost (\$395,000 - \$153,352)	
\$241,648 x sinking fund factor	
(7% for 15 years) 0.039795	\$9616.38
Annual licence (6 months)	\$35.12
Insurance	\$3223.00
	\$40524.5
Total fixed costs per hour assuming 200 hrs per year	\$202.62
Variable costs per hour:	
Fuel 45 litres at \$1.10 per litre	\$49.50
Oil and filters 15% of fuel cost	\$7.42
Repairs and maintenance 100% of purchase price	
over economic life (5000 hours)	\$39.50
Total variable costs per hour excluding labour	\$96.42
Total costs (fixed plus variable) per hour	\$299.04

Prices Exclude GST

2.14 PROFESSIONAL FEES

2.14.1 Accountancy Fees

Accountancy Fees

Accountants base their fees on input of time taken in compiling financial statements, tax returns and other services. Some of the reasons why fees vary considerably (time being one of the most important factors) are:

- The adequacy of the presentation of farm records to the accountant by the farmer;
- The form of ownership – individual, company or partnership, and if there is a trust entity involved;
- The amount of information the farmer wants: advice on management, financial advice, trial balances, etc;
- The degree of intensification of the farming operations;
- The amount of administration undertaken by the Accountant, ie GST returns, budgetary control, receiver/payee of all income/expenditure, budget/cashflow preparation for the farmer;
- **The accuracy, detail and consistency of information provided, is far more important than the method of presentation.**

An appropriate range of fees typically charged for pastoral and cropping farms would be from \$2,500 to \$5,000 per annum, depending on the services provided, with a typical fee for a typical Mum and Dad Partnership trading structure, being around \$2,500 to \$3,000 for a 3,500 su farm.

If the entity is a company, which owns land, stock and plant, add \$400 for the extra compliance requirements. If a multiple entity ownership structure is adopted, eg a trust owning the land, and the stock and plant owned by a trading partnership, add \$500 to \$1,000. For specific one-off assignments, eg the restructuring of the ownership, a separate fee would be charged. Accountants can be asked for estimates of costs of various services after they have a complete awareness of the structures and business involved.

A correctly prepared reconciled cashbook either manual or computerised with all other records being well presented for a standard ownership and trading structure, would reduce that typical fee by \$500.

Due to the increase in technology, accountants staff input on your average job has decreased. Accountants costs have increased, eg wages, electricity, etc but technology has to a certain extent offset this.

Also clients mindful of cost have put more effort into ensuring their records are of a better standard. Having said that, accountants are very commercial. The majority of accountants have crept their fees up each year.

Many dairy farmers are a special case. Due to the cost of entry and therefore quite often the complicated ownership structure, also the substantial wealth and income involved, dairy farmers now use their Accountant much more. Many now see their Accountant not just as a compliance requirement, but due to the amount of capital involved, and the high income and expense figures, as someone who is part of the management team. Therefore the Accountant is spending much more time on those clients' affairs, and this is reflected in the fee charged.

Prices Exclude GST

2.14.2 Farm Consultancy Charges

Charge out rates now range between \$125 and \$150 per hour. More difficult and litigious assignments are charged at a rate of \$200 per hour. Travelling expenses are now from 60 cents to \$1 per km, with the discounted rate applying to the longer trips.

Livestock Improvement Corporation offers the *FarmWise* service which makes highly experienced advisors available to individual farmers. Half day visits start at \$500. Full day visits (typically 6 hours) start from \$1,000. Services cover all aspects of dairy farming. When you use a Farmwise Consultant, you receive a free copy of a specially developed pasture monitoring computer programme for your own use.

2.14.3 Land Transfer Fees

Land Information New Zealand charges this fee on all land transactions, such as transfers, mortgages, discharges and related documents. Registration of any instrument (transfer, mortgage, discharges and withdrawals) is \$60.00 over the counter but \$37.00 if electronic. An additional counter fee of \$20 per instrument applies for manual priority lodgements. Every Certificate of Title costs \$8.00 manually and \$3 electronically. A New Title fee is \$65 (electronic). A title search costs \$8 when done manually, whereas it is \$3 electronically. The base fee for a survey plan is \$216, only available electronically. (As at October 2009)

2.14.4 Legal Fees

Fees take into account the nature of the job and expenses incurred by the solicitor or law firm. In general they are based on an hourly rate (in the South Island they are in the region of \$175 (Junior Solicitor) to \$350 plus GST). Lawyers are required by law to give written estimates for the cost of a job. Both parties should have a clear understanding of what work an estimate is to cover. Unexpected work or complexities will incur further fees. To keep costs minimised it is important that the client fully briefs the solicitor to assist the solicitor to work as cost efficiently as possible. Lawyers are required to charge in accordance with Law Society costing guidelines

Property Purchase

Fees vary widely depending on circumstances and how much work is involved. They are generally around \$950 to \$1200 plus GST and expenses for the average residential property purchase depending on whether finance is required, and \$700 to \$900 plus GST for a sale depending on mortgage repayments. Lawyers are able to provide accurate estimates for usual residential purchases and sales.

Sales and Purchases of farms of whatever type are more difficult to accurately quote, due to the larger number of variables involved. They will generally range between \$2000 to \$15,000 plus GST but sometimes significantly more.

Where the vendor is registered for GST and there is a dwelling house on the property, there is deemed to be two supplies – exempt supply (dwelling and curtilage) and a taxable supply (balance of property). The two must be arrived at by an apportionment along IRD guidelines and definitions. This can be completed by a registered valuer, or by *Quotable Value N.Z.* at a cost of \$300 to \$450. An example of where a dwelling and curtilage is required, is where a residential use is combined with commercial/industrial use, as in many lifestyle blocks and farms.

Prices Exclude GST

Family Trusts

A trust is an obligation (set out in a Trust Deed) under which a person having control of property (trustee) is bound to deal with that property for the benefit of persons (the beneficiaries) of whom he/she may be one. The trustee holds assets for the beneficiaries and becomes the legal owner of all the assets in the trust. There is usually more than one trustee. The cost to set up a discretionary family trust depends on a range of factors such as family and relationship situations, personal wishes, type of property or other assets to be transferred and other complexities. Lawyers charge different rates depending on their experience and in accordance with their specialist knowledge. Prices can range from \$800 to \$4,000 plus GST for the trust document alone, depending on the time spent on asset planning discussions and completing the necessary drafting to satisfy the settlor's personal requirements. If, as is usual, there is an ongoing annual gifting programme then an annual gifting fee of \$250 to \$400 plus GST would apply.

2.14.5 Real Estate Charges

There is no scale or recommended fee relating to any real estate transaction. However most agents work on a commission basis. The most common fee structures are in the following approximate ranges:

Farm Sales:

\$375 base fee plus 3.75% of the consideration to \$350,000 and then 2% thereafter. Plus G.S.T. Depending on the degree of exposure required marketing packages are tailored to a client's needs and budget, and high profile advertising is generally an investment by the vendor.

Auction Sales (Sales other than mortgagee sales):

In general these are levied at the same rate as residential sales. The auctioneer may, in addition and with the vendor's authority, charge to the vendor all auction advertising, flagging, other promotional costs and disbursements. In addition, an auctioneer may levy an offering fee if the property is not sold at auction or, alternatively, seek a term of sole agency after the auction sale to enable a sale to be concluded.

2.14.6 Valuation Charges

One Canterbury valuer's typical charges are:

There is a lot of competition for work so fees have a wide range.

High Country run \$2500 and up

Dairy farm \$3000 and up

Sheep farm \$1500 and up

Life style blocks \$650 to \$800

Residential Rural townships \$450

Residential Christchurch \$350 to \$550

All these plus GST

Charges include travel and disbursements

Hourly rate \$150 to \$250

A valuer in the Waikato region gave the following examples of likely charges.

For valuation of a 70ha dairy farm charges are usually around \$2000.

For valuation of a rural residential property charges are \$500 to \$700.

Prices Exclude GST

2.14.7 Survey Fees

Aurecon NZ Limited:

Subdivision of rural property requires an application to Council in terms of the District Plan. In conjunction with the Subdivision Application additional applications may also be required for Land Use matters, Earthworks, Stormwater Discharge, etc. After Subdivision Consent has been granted and the subdivision conditions accepted a legal Land Transfer Survey is completed so that new Certificates of Titles can be issued.

Survey consultants fees for typical subdivisions are charged on a time and expense basis and will vary depending on the location, size and complexity of the property being subdivided. Detailed estimates would be provided, however as a guide the following survey fees are anticipated. Costs to comply with any subdivision consent conditions, such as the provision of access and services, would be additional to the following fees.

Smaller subdivision - typically 2 to 3 lots	\$6,000 to \$10,000
Medium size subdivision - typically 3 to 10 lots	\$10,000 to \$30,000
Large subdivisions	from \$30,000
Council processing fees	\$2,000 to \$5,000
Council Development Contributions (costs per allotment as assessed by Council)	

Land Information New Zealand fees (survey plans base fee begins at \$216 for electronic transactions).

In addition there are solicitor's fees and costs of complying with Council's subdivision conditions (eg water supply, access etc).

Prices Exclude GST

2.15 ADMINISTRATION EXPENSES

Refer also to *Section 2.14. Professional Fees*

2.15.1 Average Administration Costs

Total annual administration expenses vary widely between farms and orchards.

The following are indicative costs:

Sheep and Beef	(per su)
Northland	\$6.19
Waikato/Bay of Plenty Intensive	\$7.64
Central North Island Hill Country	\$5.55
Gisborne Hill Country	\$5.10
Hawkes Bay/Wairarapa Hill Country	\$4.88
Eastern Lower North Island Intensive	\$7.97
Western Lower North Island Intensive	\$9.82
South Island High Country	\$4.21
Canterbury/Marlborough Hill Country	\$5.61
Canterbury/Marlborough Breeding and Finishing	\$9.95
Otago Dry Hill	\$4.84
Southland/South Otago Hill Country	\$5.09
Southland/South Otago Intensive	\$10.10
National	\$6.41
Dairy	(per cow)
Northland	\$134
Waikato/Bay of Plenty	\$140
Taranaki	\$117
Lower North Island	\$143
Canterbury	\$117
Southland	\$128
National	\$129
Deer	(per su)
North Island	\$8.97
South Island	\$7.95
Arable	(per ha)
Canterbury	\$217
Horticulture	(per ha)
Kiwifruit	\$3,400
Hawkes Bay Pipfruit	\$2,064
Nelson Pipfruit	\$2,533
Viticulture	
Marlborough	\$1,362
Hawkes Bay	\$1,266

Source: MAF Horticulture and Pastoral Monitoring Reports 2009.

Prices Exclude GST

2.15.2 Telephone Costs

Telecom: GST Inclusive

Residential Home Packages		
Package	Features	Mthly Fee
Total Home	Landline, 10GB broadband, unlimited calls*	\$99.00
Total Home Lite	Landline, 5GB broadband, unlimited one no.*	\$80.00
Total Home Starter –City	Landline, 1GB broadband, 30c/min national*	\$70.00
Outside Akl,Wgtn,Chch		\$75.00
Anytime Rates:		
Akl, Wgtn, Chch	18c natl, 40c telecom mob. 47c mob \$2.50 cap	\$43.80
Canterbury Regional	18c natl, 40c telecom mob. 47c mob \$2.50 cap	\$49.40
Standard RateWgtn,Chch	45c/19c natl. 63c to all mobiles. \$3 cap	\$38.30
Akl	45c/19c natl. 63c to all mobiles. \$3 cap	\$42.00
Canterbury Regional	45c/19c natl. 63c to all mobiles. \$3 cap	\$46.35

* Terms and Conditions Apply

Smartpack	Call minder, caller display, call waiting	\$11.51 or \$8.88 if calling is with Telecom
Smartphone services	Call waiting, diversion, display, FaxAbility, restriction, track, dual no. 3 way call	\$3.51 each or \$2.22 if calling with Telecom
Smartphone services	Call minder	\$8.84 or \$6.22 if calling with Telecom

Call Plans:

Talk it up Neighbouring area + mthly landline plan charges	\$5.00
Talk it up Down under + mthly Homeline/Anytime charges*	\$25.00
Talk it up NZ & Overseas + mthly Homeline/Anytime charges*	\$45.00

* some discounts available with Total Home plans

Mobile Phone Plans

Telecom:

Plan	Mthly Fee	Free Minutes	Peak National	Off peak National
Anytime Go 50	\$44.44	50	\$0.44	\$0.44
Anytime Go 100	\$70.00	100	\$0.40	\$0.40
Anytime Go 200	\$110.00	200	\$0.36	\$0.36
Anytime 400	\$190.00	400	\$0.35	\$0.35
Anytime 800	\$300.00	800	\$0.33	\$0.33
XT Network	Mthly Fee	Included Minutes	Extra Min. Rate	Discount 12mth /24mth
One Rate 50	\$26.62	50	52c	\$35.55 / \$71.11
One Rate 100	\$44.44	100	44c	\$62.22 / \$133.33
One Rate 180	\$71.07	180	40c	\$88.89 / \$195.56
One Rate 250	\$88.85	250	36c	\$106.67 / \$222.22
One Rate 400	\$133.29	400	33c	\$133.33 / \$284.45

Prices Exclude GST

Mobile Broadband Plans (via T-Stick)

Telecom:

Postpaid Plan (+cost of T-Stick)	Mthly Fee	Mthly data allowance	Additional data
2GB	\$53.29	2GB	\$26.63 for another 2GB then 9c/MB
4GB	\$71.07	4GB (8 on 24mths)	9c per MB
Prepaid Plan (+cost of T-Stick)		Incl MB calendar mth expiry	
500MB	\$26.62	500MB	\$26.63 for another 2GB then 9c/MB

MetPhone - *The New Zealand Meteorological Service* provides a telephone weather forecast service for the whole of the country. Forecasts can be accessed from any part of New Zealand through *Telecom* for a charge of \$1.30 a minute. Forecasts for each region can be obtained by phoning 0900 999 then the area code for your region e.g. 03 for Canterbury.

MetPhone Mountain and Ski Info

Central North Island	0900 999 15
Nelson Lakes	0900 999 02
Canterbury Region	0900 999 26
Southern Lakes	0900 999 81

FarmInfo Forecasts

Provides farmers with the most up-to-date seasonal weather forecasts available at a cost of \$2.00 per minute incl GST.

Phone Number	Region	Frost forecast available for:
0900 998 05	Northland	Kerikeri
0900 998 55	Waikato	Hamilton, Pukekohe, Katikati
0900 998 30	Bay of Plenty	Te Puke, Katikati, Opotiki
0900 998 70	Gisborne	Gisborne
0900 998 19	Hawkes Bay	Havelock North, Roys Hill
0900 998 20	Wairarapa	Masterton, Martinborough
0900 998 39	Taranaki	
0900 998 16	Wanganui	
0900 998 10	Manawatu	
0900 988 01	Nelson	Nelson, Takaka
0900 998 23	Marlborough	Blenheim, Renwick, Riwaka
0900 998 25	Canterbury Plains	Waipara
0900 998 90	Otago	Alexandra, Cromwell
0900 998 79	Southland	

MetFax forecasts extend out ten days. Subscribe to MetFax* for \$125.00 + GST per month (or part thereof) per region. Direct Dial: 04 470 0713 Fax: 04 4700 836 *Use of MetFax is subject to MetFax Terms & Conditions - available by calling 0800 932 843.

Prices Exclude GST

2.15.3 Internet Charges

All prices quoted include GST

Telecom Broadband

Plan	Monthly Fee	Monthly Data Allowance	
Go	\$39.95	3GB	Daily email and internet browsing
Explorer	\$49.95	10GB	Bigger households and students
Adventure	\$59.95	20GB	Download large files / play online
Big Time	\$59.95	No fixed cap	Lge households/reg lge downloads
Pro	\$79.95	40GB	Home businesses / gaming

Note: Most internet companies offer combined internet and toll call packages offering increased data download quotas and discounts on their internet plans of approx. \$10 per plan and cheaper toll call rates. *Telecom* internet rates increase by \$10 per plan if all phone lines and tolls are not through *Telecom*.

Slingshot:

Dial up charges:

Free dial-up with unlimited access if homeline and tolls are with Slingshot.

Standard Dialup \$9.95/mth for 30 hours access per month. \$1.50 per hour thereafter.

Unlimited Dialup: - \$12.95 (\$16.95 without tolls). Unlimited access.

Xcelerator Dialup: - 15.95 (19.95 without tolls). Unlimited internet with boosted speed.

Broadband internet charges: (maximum down or upload means maximum line allows)

Plan	Max. Speed (down/up)	Data allowance	Monthly Cost
Starter	256kbps / 128kbps	2GB	\$24.95
Everyday	Full Speed / 128kbps	5GB	\$29.95
Advanced	Full Speed/ 128kbps	15GB	\$39.95
Pro	Full Speed / Full Speed	25GB	\$49.95

Ihug:

Dial up charges:

Unlimited hours per month \$10.00 (bundled) to \$20.00 (without Vodafone fixed line)

Broadband internet charges: (with homephone and calling) \$10 discount per month for Red Zone customers

Plan	Data	Monthly cost
Easy Pack	1GB	\$80.00
Ideal pack	5GB	\$90.00
Ultimate Pack	20GB	\$100.00
Prepay Mobile Broadband	Vodem Stick and Prepay SIM	\$99.00

Homeline

	Inside Red Zone	Outside Red Zone- zone 1	Outside Red Zone-rest of NZ
Home phone	\$40 per month	\$54 per month	\$50 per month

Prices Exclude GST

Wireless Homeline (Wireless device needed – Free on 12 month plan)

Plan	Per Month
Local Plan	\$25.00
National Plan	\$40.00
plus Mobile Broadband	
Local pack 1	\$65.00
Local pack 2	\$85.00
National pack 1	\$80.00
National pack 2	\$100.00
Home phone \$41 / month and calling	

2.15.4 Postage

Domestic Rates and Services: (Prices are GST inclusive)

	130 x 235mm	165 x 235mm	230 x 325mm	260 x 385mm
Maximum size	130 x 235mm	165 x 235mm	230 x 325mm	260 x 385mm
Max Weight	500g	500g	750g	1kg
Max Thickness	6mm	10mm	20mm	20mm
Standard Post	\$0.50	\$1.00	\$1.50	\$2.00
FastPost	\$1.00	\$1.50	\$2.00	\$2.50

Parcels:

ParcelPost (*New Zealand Post*) 2009 prices

Size	Max Dimensions Height x Length x Thickness	Max Weight	ParcelPost	ParcelPost Fast
DLE	130 x 235 x 70mm	1.5kg	\$2.50	\$3.00
C5	165 x 235 x 70mm	1.5kg	\$3.00	\$3.50
C4	260 x 325 x 70mm	1.5kg	\$4.00	\$4.50

ParcelPost Tracked (*New Zealand Post*) 2009 prices

Size	Max Dimensions Height x Length x Thickness	Max Weight	Standard Post
C5	165 x 235 x 70mm	3kg	\$4.00
C4	260 x 325 x 70mm	3kg	\$5.00
C4	valid for tubes up to 650mm x 70mm		
FS	260 x 385 x 70mm	3kg	\$6.00
LF	395 x 455 x 70mm	3kg	\$8.00
C5	165 x 235 x 170mm	5kg	\$5.50
C4	260 x 325 x 170mm	5kg	\$6.50
FS	260 x 385 x 170mm	5kg	\$7.50
LF	395 x 455 x 170mm	5kg	\$9.50

Prices Exclude GST

2.15.5 Courier Charges

New Zealand Couriers:

Parcel Solutions

Ticket Type	Area Covered	Volumetric (1 ticket per)	Price per Book
Local	Chch metro incl Lyttleton, Belfast and Templeton	0.1m ³ / 25kg	\$3.84 per book – 20 tickets
Outer Area	South to Ashburton North to Amberley	0.025m ³ / 15kg	\$4.65 per book – 20 tickets
Shorthaul	South Island North of Dunedin	0.025m ³ / 15kg	\$6.73 per book – 20 tickets
Longhaul	South of Dunedin Central Otago	0.025m ³ / 5kg	\$10.11 per book – 20 tickets
Capital Link	Wellington Metro, Hutt At depot by 3pm	0.025m ³ / 5kg	\$12.18 per book – 10 tickets
Inter - Island	Rest of North Island	0.025m ³ / 5kg	\$20.63 per book – 10 tickets
Saturday Delivery	Check areas of send for Saturday delivery	1 per item Main centres*	\$3.84 per book – 10 tickets
Rural Delivery	Required on all deliveries to a rural address	1 per item	\$2.87 per book – 10 tickets

* Saturday Delivery – Additional costs may apply, POA

Maximum length is 1.8m, maximum volume size is 2m³ and maximum weight is 25kgs.

Post Haste Couriers:

As Post Haste do not pick up from rural areas, it is up to the sender to ensure the items are delivered to the nearest agent. Phone 0800 106 828 to find out your nearest Post Haste agent. From Nov 2009 Fuel Adjustment Factor (FAF) to be added.

Code	Ticket Type – Description	Weight	Rate
LTR	Express Pak Letter - 150mm x 260mm (DLE)	Unlimited	\$2.40
SML	Express Pak Small - 210mm x 260mm (A5)	Unlimited	\$2.80
MED	Express Pak Medium - 280mm x 390mm	Unlimited	\$4.80
LGE	Express Pak Large - 360mm x 415mm	Unlimited	\$5.50
XL	Express Pak XL large 450mm x 540mm	Unlimited	\$9.00
		Volume	
MS	Localink - within 10km of city limits	0.125m ³ /25kg	\$2.50
PE	Intra Island Express	0.03m ³ /8kg	\$8.00
NE	Inter Island Express	0.03m ³ /8kg	\$15.00
TD	2 Day Inter Island Express	0.03m ³ /8kg	\$11.75
SD	Saturday delivery (nationwide)	Per item + normal ticket charges	\$3.65
RZ	Rural Delivery	Per item + normal ticket charges	\$3.30

Prices Exclude GST

Express Pack Envelope

One price covers anywhere in the country. Pre-Paid Express Packs have a generous weight allowance, though discretion should be used and items must not extrude from packs.

NZ Couriers prices are subject to change and a Flexible Fuel Factor (FFF) price will be added.

New Zealand Couriers:

Pack Type	Size	Price excl FFF	Quantity per wrap
E11– DLE Plastic	225mm x 115mm	\$2.48	20
E20 – A5	260mm x 190mm	\$2.79	20
E40 – A4	325mm x 235mm	\$5.20	20
E50 – Foolscap	390mm x 280mm	\$6.73	10
E60 – A3	415mm x 360mm	\$9.63	10
Document Pack Card A4+	379mm x 260mm	\$4.63	10
PP Plastic A3 +	440mm x 450mm	\$14.11	10

CourierPost: (New Zealand Post) (GST included)

Pre-paid TrackPak	Dimensions	Non-Signature required	Signature required
DLE	130mm x 240mm	\$5.14	\$7.85
A5	190mm x 280mm	\$7.04	\$9.64
A5 Bubble	190mm x 280mm	\$7.75	\$14.36
A4	257mm x 325mm	\$8.94	\$11.59
Line flow	400mm x 440mm	\$19.45	\$22.22

Pace (Joint Venture NZ Post and DHL)- All prices based variable fuel- refer Pace updates.

Local	Across Town by Vehicle from \$ per zone	Across CBD only by Bike
60min service	\$5.15	\$4.57
30min service	\$10.31	\$9.12
Bullet service	\$15.46	\$13.69

NB above prices are for Christchurch. Auckland and Wellington prices may differ.

Pace:

MAA or Metro Airport to Airport (Auckland, Wellington and Christchurch)

\$88.95 for the first 2kg, \$9.48 per additional kg.

PAA or Provincial Airport to Airport (All other Air NZ domestic destinations)

\$112.66 for the first 2kg, \$10.67 per additional kg.

Nationwide:

By road - Direct Drive Service: \$2.02 per km

By air - door to door: Between Auckland, Wellington & Christchurch First 2kg \$116 + \$10.63 / additional kg

By air - door to door: to or from provincial airports First 2kg \$148+\$12.76 / additional kg

Pace Hazardous Goods Surcharge \$77.40

Vehicle Hire from: \$79.72/hr

Prices Exclude GST

2.15.6 Subscriptions (Magazines/Farming Organisations)

Some examples are:

Magazines

“Wine NZ”	\$50.73 per year
“Dairy Exporter”	\$68.60 per year
“Lifestyle Block”	\$65.38 per year
“Lifestyle Farmer”(incorp Horticulture News)	\$64.76 per year
“The Orchardist”	\$113.20 per year
“Straight Furrow”	\$143.69 per year
“NZ Farm Trader”	\$42.50 per year

Organisations

Young Farmers: (All are GST inclusive)

Full Year Membership 6-12 months Jan to June	\$70.00
Half Year Membership 1-5 months Jul to Nov	\$40.00
Youth under 18 years (if entering YF Contest - full membership applies)	\$30.00
NZYF Supporter (31+ years includes Patrons and Advisory Members)	\$30.00

Federated Farmers:

Full Farm	\$444.44
Farmlet	\$300.00
Rural Services	\$200.00
Retired	\$100.00
Associate	\$100.00

2.15.7 Aerial Photographs and Farm Maps

Aerial Photographs

New Zealand Aerial Mapping Ltd.: Mapping and Land information

Photographic enlargements:

Contact Prints	23 x 23	\$55.00
A4 (21 x 29)	23 x 34	\$170.00
A3 (29 x 42)	34 x 46	\$195.00
A2 (42 x 59)	46 x 70	\$215.00
A1 (59 x 84)	70 x 95	\$275.00
Other sizes	\$0.05 per cm ²	

Custom built orthophotos for Farm Management Packages start at \$528.00

Scans for farm management packages:

Per frame or part there of	\$210.00
Processing Fee	\$34.50 per order
Archive fee (photography over 5 years old)	\$48.00 per run
Research fee	
First 15 minutes	no charge
Per 15 minutes	\$23.50
Over 2 hours	negotiated price
Urgent fee	\$100.00

Prices Exclude GST

GPS Units

Tracmap:

TM333	Entry unit, suited to fertilizer spreading and tractor work	\$2,995
TM334	Able to download job maps to USB stick for printing/uploading	\$3,950
TM335	Powerful processor, exporting abilities, uses mapping software	\$6,950
TM344	Instant farm display on the move. Useful for irrigation shifts.	\$5,950
TMi24	Travelling/tracking Irrigator Management, shuts pump at problems	\$3,995
TMi27	auto warning to cellphone	\$4,495
TMi28	auto tracking to Tracmap system	\$4,495

2.15.8 Travelling

Cost of travel is fully tax-deductible when the purpose is farm business. This can represent a large expenditure item with some systems of management or some types of farms, e.g. stud farms. For information on costs of travel see *Section 2.13.3* car operating costs.

2.15.9 Payroll Outsourcing

Your Payroll (a division of Tradestaff Ltd)

Providing full payroll service throughout NZ including PAYE, Kiwisaver, Holiday pay etc. \$4.50 per person per pay.

2.15.10 Bank Fees and Stock Company Charges

(See *Section 2.17* Financial Charges)

Prices Exclude GST

2.16 STANDING CHARGES

2.16.1 Insurances

Stock Insurance

PGG Wrightson Ltd (Vero):

Cover C: Death, including theft, escape, infertility and maternity.

	Minimum premium of \$100
Bull Insurance	11.0% of value for 12 months
Stud Rams	11.0% of value for 12 months
Deer- Stags	14.0% of value for 12 months
Deer- Hinds	11.5% of value for 12 months

Farmplan Livestock Cover:

Livestock on farm (fire and lightning only) Rate 0.11%, minimum premium of \$100

Crop Insurance

PGG Wrightson Ltd (Vero):

Cover A: Full Combined Perils including company earthquake	No rates were given as
Cover B: Fire, Lightning or Explosion	this is too sensitive.

Please refer to Crop policy wording for full details of cover and exclusions.

There is no cover for any loss or damage that occurs within first 48 hrs after acceptance by Vero Insurance;

There is no cover for loss or damage caused by frost unless occurring:

- on or after 15th November; or
- on or after 7th December for crops south of Canterbury/Otago boundary or in McKenzie District area.

Farmers' Mutual Group (FMG)

An average Farm Insurance Package in the Canterbury region is around \$5000 to \$6000.

This includes insurance for farm vehicles, house, farm and personal contents, farm buildings, public liability, personal disability and medical cover.

Insurances are very much individual to each farm, so FMG tailors each policy to suit specific client needs. An example is given below of some policies that a farmer may require depending on his or her situation. All premiums can vary with the nature of the risk and the value of items. There are also a number of ways to reduce premiums, such as voluntary excesses and a good claims history based on good risk management practices.

See an example of a farm insurance package after the advertisement.

Prices Exclude GST

*An example of a Farm Insurance Package quote (annual premiums):
FMG:*

Item	Policy Type	Sum Insured	Excess	Premium
House	Replacement	\$374,400	\$150	\$610
Household contents	Nominated replacement	\$100,000	\$150	\$341
Private car	Full cover – market value	\$5,000	\$300	\$250*
Medical	Family includes children under 20	\$60,000	\$250	\$1,787
Personal Disability	Male farmer – actively engaged	\$400	14 day stand down period	\$1,225
Woolshed	Full replacement	\$99,000	\$100	\$584
Hayshed	Full replacement	\$7,770	\$100	\$128
Sundry farm buildings	Max. \$5,000 per bldg	\$10,000	\$100	\$99
General farm contents	Nominated replacement	\$30,000	\$100	\$324
Baled hay/silage	Nominated replacement	\$15,000	\$100	\$83
Tractor	Full cover – market value	\$50,000	\$300	\$576
4 wheel farm bike	Full cover – market value	\$5,000	\$300	\$151
Toyota Hilux	Full cover – market value	\$10,000	\$300	\$297*
Liability	Incl. automatic \$250,000 cover for Forest & Rural Fires Act	\$1,000,000	\$250	\$225
Forest & Rural Fires Act	For cover over automatic inclusion above	\$500,000	\$250	\$100
Employers Liability		\$100,000	\$500	\$68
Statutory Liability		\$100,000	\$500	\$55
Farm dogs	Heading dog – aged 5	\$3,000	Nil	\$198

* includes No Claims Bonus

FMG offers comprehensive cover for many other requirements including livestock, horses, farm dogs, engineering and mechanical breakdown. FMG also offers specialist cover for fresh & processed fruit, nut and arable crops as well as fruiting trees & vines.

Prices Exclude GST

IAG – State Insurance (The premium and excess amounts shown on this table represent standard State pricing as at the date of this publication and should be used as a guide only)

South Island Farm

Policy	Item	Sum Insured	Excess	Premium
Dwelling	Homestead (200sqm)	Full replacement	\$500	\$472
Farm building	Woolshed	Full replacement	\$250	\$514
Farm contents	Indemnity value	\$10 000	\$250	\$193
	Farming interruption	\$10 000		
	Livestock and goods in transit	\$20 000		
	Baled hay	\$5 000		
Contents of dwelling	Household contents	\$50 000	\$250	\$473
Motor vehicle	Private and farm use	\$5 000	\$300	\$357
Agricultural vehicle	Tractor	\$50 000	\$300	\$574
Farm bikes	2 Wheel motorbike	\$5 000	\$500	\$123
Farm Truck/Ute	Toyota Hilux	\$10 000	\$300	\$384
Livestock and dogs	Working dog	\$1 000	nil	\$80
Personal disability	Farmer, male, actively engaged	\$400 weekly benefit	7 days	\$488
Public liability	Farmers liability	\$500 000	\$250	\$126
	Forest and Rural Fires Act	\$50 000	\$250	
North Island Farm				
Dwellings	2 at 200m ² each	Full replacement	\$150	\$461 ea
Contents of dwelling	Household contents	\$80 000	\$250	\$362
Farm Buildings	All buildings	\$500 000	\$250	\$2,132
Farm contents	Plant and equipment	\$120 000	\$250	\$617
	Additional costs of working	\$70 000	\$250	\$365
Agricultural vehicles	John Deere tractor	\$80 000	\$300	\$916
Farm bikes	Two at \$3000 each	\$6000	\$500	\$121 ea
Public liability	Farm liability	\$2 000 000	\$250	\$193
Motor vehicle	Private car	\$30 000	\$300	\$503

Forestry

See *Section 2.22.2*

2.16.2 Accident Compensation Commission Levy

See *Section 4.14 and 4.15.7* for details of Employer and Self-Employed levy rates.

Prices Exclude GST

2.16.3 Rates

See *Section 2.18.9* for stock and rural domestic water supply charges.

In New Zealand rates are charged by District and Regional Councils. District Councils administer the local district plan while Regional Councils deal with region wide issues and administer the regional plan.

The main classes of rates are as follows:

- General rates set by both District and Regional Councils.
- Uniform Annual Charges set by Regional and District Councils on all rateable property.
- Targeted Rates set by District and Regional Councils, categories dependent on whether District or Regional Council.
- Special rates for repayment of loans for various purposes, eg water treatment works, raised by any local body.
- Water supply charges where stock water is supplied by a local body, e.g. water races, district water schemes.
- Pest Destruction (weed/plant/animal) rates set by the Regional Council where applicable.
- Flood protection and drainage rates set by the Regional Council where applicable.
- Rates can be set on capital, land value or annual value system. Water and pest destruction rates may be assessed on either per hectare, capital value or land value basis.

The examples that follow are based on a 200-hectare rural property with a rateable value of:

Improvements	\$200,000
Land Value	<u>\$500,000</u>
Capital Value	<u>\$700,000</u>

Total rates are approximate only and reflect the district wide rates not specific community rates. This excludes water supply, flood protection, drainage, region specific animal and plant rates eg Bovine TB, sewage disposal, and specific services eg libraries and reserves. Rates are reflected as a cents per dollar of Capital Value or Land Value or alternatively by the area of the property. Some District Councils charge a uniform annual charge. Rates include GST.

Regional Council	District Council	Uniform Annual Charge	General Purposes Rate	Works and Services Rate
Northland		\$117		\$0.0001899(LV)
	Whangarei	\$427	\$0.0020376 (LV)	
Hawkes Bay	Tararua	\$549	\$0.00036128 (LV)	
	Central Hawkes Bay	\$280.00	\$0.08881 (CV)	
	Hastings	\$155	\$0.002437 (LV)	
South Wairarapa		\$377	\$0.001883 (LV)	
Waikato	Waikato District	\$450	\$177.84/\$100k CV	
	Waitomo District	\$626	\$0.09995 / \$100CV	
	Hauraki District	\$298	\$0.00136632 (CV)	
	Ruapehu	\$402	\$0.000397 (LV)	

Prices Exclude GST

Taranaki		\$47.25	\$0.00014581 (CV)	
	New Plymouth	\$362.50	\$0.00169501 (LV)	
	South Taranaki	\$400.00	\$0.08744 (CV)	
Tasman	Tasman District	\$240	\$0.002134 (CV)	
Marlborough		\$349	\$0.00180169(LV)	
West Coast			\$0.00027998 (CV)	Westland district
			\$0.00038171 (CV)	Grey district
			\$0.00035857 (CV)	Buller District
	Westland	\$376.20	\$0.000992 (LV)	0.000029 (CV)
	Buller District	\$420	\$0.00179 (LV)	
Canterbury	Kaikoura District	\$356.19	\$0.00139236 (CV)	
	Selwyn District	\$130.30	\$0.0007757 (CV)	
	Timaru District	\$382	\$0.00052 (LV)	\$0.00019 (LV)
	Waimate District	\$434.65	\$0.0015410 (CV)	
Southland	Gore	\$559.52	\$0.000158 (CV)	

Targeted Rates can include water schemes, swimming pools, roading development and many other issues.

2.16.4 Rent on Leased Land

Pastoral/Arable Land

Rents are set by comparison with other leases in the district, often analysed per hectare or per stock unit. They can be checked by assessing the cash returns from farming the property and also by looking at the return on capital. Rules of thumb have been 50% to 60% of EBIT (Gross income less farm working expenses) or 2.5% -4% of the capital value paid in rent. Both methods evolve with changes in the market. Return on capital has reduced in recent years with property values rising out of proportion to any improvement in farm incomes. Generally the lessee will pay for rates and insurance, repairs and maintenance, fertiliser, weed and pest. The intention is that the property should be returned in the same condition as at the start of the lease.

The lessor may need to budget up to 10% of the rent for expenditure on improvements such as shelter trees, new fencing, tracks and water supply which are not the responsibility of the lessee. This will maintain the value of the asset.

Rents are often set by negotiation between the lessor and lessee. The rent paid for similar farms may vary significantly depending on the conditions of the lease and the relationship between the lessor and lessee. Rent paid by a trusted neighbour who can be relied on to maintain the property may be less than that paid by a corporate farmer in an open tender.

The term of the lease before a rent review can vary from one year to over five. The lessor may agree to pay for rates and water charges, or to maintain shelter and fencing in which case the cash rent payment will be higher. Some leases allow for the lessee to carry out development work eg conversion to spray irrigation, with compensation at termination.

Canterbury:

Pastoral Land

Sheep and cattle rents vary significantly depending on the carrying capacity of the land and the farm programme possible. Better breeding and finishing \$20-\$25 per stock unit. Harder store country \$12-\$20/stock unit.

Prices Exclude GST

Dairy and Dairy Support

Land for dairy support will be of good contour, high rainfall or irrigated with good pastures. Rents seen range from \$400/ha for light soils with lower rainfall to a peak of \$800/ha for good scale properties.

Land leased for milking will be within walking distance of the dairy shed, flat, generally irrigated or high rainfall and good fertility. Canterbury rents observed in 2009 have been \$800 to \$1,200/ha.

Comment: dairy rents have responded quickly to changes in the forecast payout with a peak at the high pay out followed by a drop in offers at a \$4.20 forecast. Prices are firming at a forecast payout of over \$6. Variation in rent is subject to soils, rainfall and standard of irrigation.

Paddock Lease

Potato lease - \$2,000 to \$2,200/ha plus \$1.50 per mm of irrigation water applied.

Larger areas of cultivatable and irrigable land are in the range of \$500 to \$1000 per hectare per year depending on the quality of irrigation.

Southland:

Dairy milking only	\$ 1,000 to \$ 1,250 per hectare
Dairy run-off blocks	\$ 500 to \$ 750 per hectare
Sheep and Beef ¹	\$ 18 to \$ 23 per stock unit
Cropping	\$ 625 to \$ 750 per hectare

¹Alternatively \$20.00 per SU for flat land and \$10.00 to \$15.00 per SU for harder land.

Waikato:

Dairy support ranges from rolling hills suitable for grazing only up to blocks where feed is cut and carried back to the dairy unit. Rentals would be from \$350 to \$1,100 per ha.

Dairy milking rentals are in the range of \$800 to \$1,200 per ha.

Dry stock farms: Around \$150 to \$700 per ha. Dry stock ranges from traditional sheep and cattle with limited finishing ability up to beef production units.

Cropping Rentals: No reliable figures for maize land. The fluctuation in milk price and the availability of alternative feeds eg Palm Kernel Extract (PKE) gives a gap between growers and land owners expectations.

Vegetable Field Crops: \$1500 to \$2050/ha (Premiums paid by some specialist growers).

Taranaki:

Dairy Farms (generally without <i>Fonterra</i> shareholding)	\$1,100 to \$1,300 per ha (\$445 to \$526 per acre)
Cropping	\$1,000 to \$1,250 per ha (\$404 to \$506 per acre)
Dry stock - flat - hard hill depending on the quality	\$220 to \$425 per ha (\$90 to \$172 per acre)

Prices Exclude GST

Hawkes Bay:

Orchard – typically apples, land and trees only	\$2,000 to \$2,500 per ha
Cropping	\$500 to \$2,000 per ha
Good average land 30km from Napier/Hastings, generally require access to water, esp at \$1,400+	(\$1,200 to \$1,800 per ha)
Grazing for medium steep / easy hill (Lower rents for stand alone trad. sheep/beef hill country)	\$150 / \$350 per ha
Dairy - Large range and & up to high end for easy run off	\$800 up to \$900

Crown Land

Where they still exist, rents on Crown Renewable Leases, under the Land Act 1948, remain at 4.5% of the rental value (being the “value of the land exclusive of improvements”) with 11 year renewal periods.

Pastoral Leases, under the Crown Pastoral Land Act 1998, are at 2.25% of the rental value, (reducible to 2% for prompt payment).

Prices Exclude GST

2.17 FINANCIAL CHARGES

2.17.1 Interest and Bank Charges

Important Note:

Interest rates, where quoted, are as at late 2009 to early 2010, unless otherwise stated. Readers are advised not to rely on these figures for budgeting purposes as market interest rates can change rapidly.

(i) Trading Banks

ASB Bank: ASB Bank Rural lending criteria apply

Term Loans

Term:	Table loans up to 25 years with interest only options available.
Pricing:	All rates priced daily, subject to individual circumstance Fixed rates up to 10 years. Treasury Products available (SWAP's, CAP's, Collars etc)
Security:	Registered first mortgage over land. Livestock security may also be required. Usual maximum loan to 60% of Bank's valuation.
Seasonal Finance:	
Overdraft Facilities:	Incorporates seasonal and revolving credit facilities (i.e. capital requirements). An agreed limit may be set high enough to have funds in reserve. Has ability to direct credit income. Withdrawals by cheque, EFTPOS, ATMs, Fastnet Internet Banking and Fastphone.
Security:	As per the term loan security.
Term:	Facilities requirements are reviewed annually.
Fees:	Transaction fees and service commitment fees may be charged.
Application Information:	Budget and cashflow (including capital budget). Current statement of position. Accounts and balance sheets for last 3 years (if available).

BNZ Partners:

The following are the specialised farm finance packages offered by BNZ Partners:

Farm First Term Loan

Uses:	Funding for land, livestock and for any other farm capital expenditure. Can hedge against interest rate rises up to 60 days in advance of draw down date.
Minimum loan:	\$10,000
Minimum term:	90 days.
Maximum term:	15 years with an amortisation period of up to 20 years (subject to normal lending criteria).

Pricing:	Fixed Rates, 90, 120, 150, 180 days, 1-5, 7, 10 years. Automatically rolls to 90 day fixed period at the end of the current fixed period. No variable interest rate
Repayments:	Can be weekly, fortnightly, monthly principal and interest or interest only.
Security	Mortgage over farm property.
<i>Rapid Repay Farm loan</i>	
Uses:	Consolidated borrowing with built-in repayment discipline, "Set and forget"
Minimum loan:	The greater of \$100,000 or one third of total bank debt.
Term:	1 to 15 years.
Pricing:	Variable Rate
Repayments:	At any time. Account balance to remain within agreed limit
Security:	Mortgage over farm property.
Access:	Access funds anytime via ATM's, EFT-POS, Telephone Banking, PCBB (PC based banking), internet, or teller transaction
<i>Farm First Overdrafts</i>	
Uses:	Seasonal Financing required. Requires a Farm First transaction account.
Term:	Reviewed annually
Pricing:	Variable rates
Amount:	No minimum
Repayments:	At any time. Account balance to remain within agreed limit.
Security:	Mortgage over farm property, stock
Access:	Access funds anytime via ATM's, EFT-POS, Telephone Banking, PCBB (PC based banking), internet, or teller transaction
<i>Farm First Vehicle Finance</i>	
Uses:	Purchase or refinance of cars, light commercial vehicles, ATVs & tractors
Term:	Maximum 5 years
Pricing:	Fixed rate 1-5 years
Maximum loan:	\$150,000.
Repayments:	Can be weekly, fortnightly, monthly principal and interest.
Security:	Specific security agreement over asset purchased
<i>Asset Finance Agreement</i>	
Uses:	Purchase assets, or fund working capital from existing assets with collateral security.
Term:	Maximum 5 years
Pricing:	Fixed rate 1-5 years
Minimum loan:	\$15,000
Repayments:	Monthly principal and interest
Security:	Specific security agreements and/or a General Security Agreement

Other

BNZ Partners also utilises its strong Treasury capability and offers a full bespoke loan service for clients over \$500,000 of debt, providing access to a full range of Interest rate risk management solutions. We work with clients to provide a total capital solution including standard loan products, subordinated debt, hybrid equity, and/or pure equity to target high value land transformation projects in the dairy, dry-stock, viticulture and other capital intensive agricultural sectors.

The National Bank of New Zealand Limited:

Term Lending

Uses: To purchase land, stock, plant, machinery and other capital expenditure, or to refinance existing debt.

Security: A registered First Charge Mortgage. Livestock security may also be required.

Loan Type: The Bank provides the following term lending options:

Floating Rate Loan

Fixed Rate loans* 6 months, 1 to 5 year fixed terms.

forward fixed rates for future draw down available.

BKBM Rural 1, 2, 3 and 4 month rate terms.

A margin is applied to the BKBM and is transparent to the customer.

Repayment: The following repayment options are available:

Table: Repayments of interest and principal in equal monthly instalments (maximum term 25 years).

Straightline: Monthly repayments of a set principal amount plus the full monthly interest cost (maximum term 25 years).

Interest Only: Payments of interest (maximum term 5 years).

Interest Rate: Floating rate

Fixed interest rate - 6 months, 1,2,3,4 and 5 year terms, plus non standard terms between 6 months and 5 years.

Forward fixed interest rates for future drawdown available.

Interest rate management:

Uses: As an alternative to fixed rates, interest rate swaps can be used to manage interest rates.

Currency Risk Management Solutions

Uses: Currency Risk Management products to manage the exchange rate risk farmers are exposed to.

Currency Cover – a forward exchange contract specifically for rural customers. Currency Cover effectively hedges farmers' income against movements in the exchange rate.

Currency Option – an option may be likened to insurance, where the holder pays an up front premium and receives insurance in the form of a guaranteed exchange rate.

Seasonal Finance – FreePlan

Uses:	A working account designed to bring together all farm finance requirements - term, seasonal and savings (or any combination) into one account.
Credit Interest:	Credit balances earn competitive interest, paid monthly.
Account Fees:	The following account fees apply to FreePlan Accounts: Fixed monthly fee of \$12.50, which covers all standard transactions. On personal FreePlan Accounts or where DirectLink is taken on a business FreePlan, the fixed monthly fee is \$5, which covers all standard transactions.
Account Access:	Access to accounts is easy with many alternatives including: Cashpoint card - for use in ATM and EFT-POS facilities. Chequebook. Rural Freephone – dedicated, operated assisted freephone for day to day banking requirements. A telephone banking (touchtone) option is also available. Freepost - for depositing cheques. Internet On-line Banking. DirectLink – PC Banking compatible with many farm accounting software applications.
Payments:	Electronic payment services such as automatic payments, direct debits, direct credits and bill payments.
Information:	The following information is required to support applications:. Budget and cashflow forecasts. Financial statements for the previous years.

Rabobank New Zealand Limited:

All in One Account:

Uses:	Combines long term funding with short term working capital and transactional access. Available for land purchase, stock purchase, financing existing debt, diversification, development, plant and machinery purchase and off farm investment. Combines internet banking, debit card and chequebook.
Term:	1 to 15 years interest only. No penalty for permanent repayments made during the term of the loan at the end of a fixed interest option or at any time if on the variable rate. No minimum repayment requirement within the loan limits.
Interest Rates:	Variable, 90 day, 180 day, 1, 2, 3, 4 and 5 years. Forward book rates up to 180 days in advance for fixed interest options of 1 year or more, or up to 30 days in advance for fixed interest options of less than 1 year. Longer-term forward bookings are available (conditions apply).
Security:	Land, livestock, plant or dairy company shares.

Equipment Finance:	Equipment finance is available for a broad range of agricultural related plant and equipment that is used predominantly in a farming enterprise, from tractors through to grape harvesting equipment, spraying machinery and motor vehicles. Up to 100% finance to approved applicants. Payments can be structured relative to the decrease in the equipment's value over its estimated useful life.
Deposit:	Call deposits and term deposits of 30 days to 5 years.

ANZ Bank:

Farm Finance Loans

Description:	To purchase land, stock or plant, capital expenditure and to refinance existing debt.
Terms:	Terms of up to 20 years are available, sometimes more, consisting of fixed and/or variable interest rate options. Interest-only terms are also available. "Forward Start" allows the client to pre-book a fixed interest rate up to 3 months in advance.
Fixed Interest:	ANZ Fixed Rate Farm Loans allow the client to lock in an interest rate.
Variable Interest	ANZ Redraw lets clients apply surplus funds to an ANZ Variable Rate Farm Loan, repaying the principle ahead of schedule when cash flow allows minimising interest rate cost. Should clients need to reborrow these funds later, ANZ Redraw lets them do so easily.
Repayments:	Can be varied to suit individual requirements, eg. fortnightly, monthly, quarterly or yearly.
Pricing:	Each client is priced individually to reflect their unique situation.
Security	Registered first mortgage over land. Livestock security may also be required.

Farm Equity Credit Line

Description	A working capital account that has no fixed repayment arrangements. Drawings are allowed up to an approved limit in line with the farm's cash flow position.
Control	Night and Day Card for cash and EFTPOS facilities. Cheque books ANZ Phone-Direct access to the client's account to transfer funds, pay bills and make other account inquiries, 24 hours a day. ANZ Direct. A computer based banking package for managing daily financial requirements on a personal computer.
Security	Registered first mortgage over land. Livestock security may also be required

General Information: Electronic payment facilities such as direct debit, automatic payments and direct credits are available. A monthly management fee may also be payable. A range of personal accounts, credit cards and term deposits are available if required. ANZ lending criteria and charges will apply.

Westpac:

All loans are subject to meeting *Westpac's* credit criteria.

Overdrafts for farm seasonal requirements.

- Amount by negotiation;
- Term subject to annual review, on presentation of annual cashflow budget and financial accounts;
- Interest charged monthly and based on *Westpac's* Farm Lending Rate plus a margin based on the individual credit assessment of the borrower.
- Line of Credit charge may apply at 0.1% per month, calculated on the overdraft facility limit.
- Facility can be accessed by chequebook, or a range of telephone, card access and computer banking options to suit.
- An establishment charge of up to 1.0% may apply.

Agri-line – revolving credit facility designed to operate with a credit limit that allows customers to repay / redraw at any time.

Term Loans for farm purchase, stock or other capital expenditure.

- Amount by negotiation.
- Terms: Up to 15 years against farm mortgage security, with up to 5 years interest only; or 8 years against livestock security, with up to 6 months interest only.
- Repayments of principal normally arranged on a monthly basis. Depending on the farm's cashflow patterns, flexibility can be applied, with combined monthly Principal and Interest (P and I) repayments, or principal repayments based on quarterly, half yearly or annual cycles in lieu of monthly, or "ballooned" repayments during the term of the loan.
- Interest is charged monthly to the farm working account (unless P and I repayments are arranged) and based on *Westpac's* Farm Lending Rate plus a margin based on the individual credit assessment of the borrower. Fixed interest rate terms available up to 5 years and rates may be fixed forward by up to 12 months ahead of drawdown.
- An establishment charge of up to 1.0% may apply.

Security

Westpac will normally require a registered first mortgage over the farm property and will lend up to 65% of the farm's valuation (registered or assessed by *Westpac*).

Where the loan to security ratio is over 50%, *Westpac* will also seek a registered charge over livestock or crop in lien to support the loan.

Where lending is against livestock security, *Westpac* will lend up to 60% of the market value (as assessed by *Westpac*) depending on the nature of the livestock.

(ii) Stock and Station Agencies

The finance departments of most Stock and Station Agencies have both seasonal and term lending facilities available. Loan facilities are offered to all new and existing farmers.

PGG Wrightson Finance Ltd:

PGG Wrightson Finance Ltd provides a comprehensive range of financial services designed to assist farmers with their day-to-day farm financing requirements. Products and services include:

Term Loans

Long term finance option to cover everything from land purchases to capital development.

Current Account

A flexible line of credit to cover working capital and seasonal requirements.

Transactional banking*

Full transactional banking services including:

- 24/7 access via internet banking
- Debit cards (EFTPOS, ATM)
- Cheque book
- Automatic payments
- Direct debits
- Cheque and deposit narration on statements
- Interest paid on credit balances

**PGG Wrightson Finance* is not a registered bank.

Livestock Trading Scheme

A tailored livestock trading solution that provides flexibility to defer payment until resale.

Flexi Pay

A revolving facility providing the ability to defer payment of purchases with *PGG Wrightson Ltd* to match farm cash flow.

Equipment Lease

Loans for the purchase of plant and machinery.

Payroll Services

A convenient way to manage day-to-day staffing, including wage and salary management and IRD reconciliations.

Investment options are available.

(iv) Trust Companies

Perpetual Trust Ltd.:

Rural Lending Criteria

Loan Types:	Flat mortgage, reducing mortgage and table equivalent types available
Interest Options:	Fixed interest, floating interest and a combination of both available.
Term:	Normal term is three years. At the end of the term borrowers will be given the option of renewing the mortgage for a further term subject to security and debt servicing remaining within <i>Perpetual Trust's</i> criteria at the time.
Amount of Loan:	Maximum advance \$4m.
Security:	Registered first mortgage over the freehold title of land and buildings.
Loan/Value Ratio:	Maximum of 66% of the property's value. The "value of the property" will be determined by <i>Perpetual Trust Limited</i> . In most instances the lower of the "sale price" or "registered valuation" will be used in assessing this ratio where a property purchase is involved.
Application fee:	Depends on the complexity of the application but will typically be around 0.25% of the principal borrowed.

(v) Other Institutions

Under certain circumstances several other institutions will lend money for land, stock and plant purchase, development or other agricultural and related projects. These include Building Societies, Life Insurance Companies and solicitors. Interest rates and terms are usually negotiated for individual situations.

2.17.2 Cost of Table Mortgages

Monthly/Quarterly/Annual Payments

(i) Monthly Payments

(Monthly Payments on Amortised Loans).

The monthly payment (interest and principal combined) per \$1000 borrowed on a table mortgage, is set out below:

Repayments of Principal and Interest Per \$1000 Borrowed

Terms of Loan:

Years (Mortgage Term)

Interest Rate	5 \$ p.m.	10 \$ p.m.	15 \$ p.m.	20 \$ p.m.	25 \$ p.m.
6%	19.33	11.10	8.44	7.16	6.44
6.5%	19.57	11.35	8.71	7.46	6.75
7%	19.80	11.61	8.99	7.75	7.07
7.5%	20.04	11.87	9.27	8.06	7.39
8%	20.28	12.13	9.56	8.36	7.72
8.5%	20.52	12.40	9.85	8.68	8.05
9%	20.76	12.67	10.14	9.00	8.39
9.5%	21.00	12.94	10.44	9.32	8.74
10%	21.25	13.22	10.75	9.65	9.09
10.5%	21.49	13.49	11.05	9.98	9.44
11%	21.75	13.77	11.37	10.32	9.80
11.5%	22.00	14.06	11.68	10.66	10.16
12%	22.24	14.35	12.00	11.01	10.53
12.5%	22.50	14.64	12.33	11.36	10.90
13%	22.75	14.93	12.65	11.72	11.28
13.5%	23.01	15.23	12.98	12.07	11.66
14%	23.27	15.53	13.32	12.44	12.04
14.5%	23.53	15.83	13.66	12.80	12.42
15%	23.79	16.13	14.00	13.17	12.81
15.5%	24.05	16.44	14.34	13.54	13.20
16%	24.32	16.75	14.69	13.91	13.59
16.5%	24.58	17.06	15.04	14.28	13.98
17%	24.85	17.38	15.39	14.67	14.38
17.5%	25.12	17.70	15.75	15.05	14.78
18%	25.39	18.02	16.10	15.43	15.17
18.5%	25.67	18.34	16.47	15.82	15.57
19%	25.94	18.67	16.83	16.21	15.98

(ii) Quarterly Payments

(Quarterly Payments on Amortised Loans).

The quarterly payment (interest and principal combined) per \$1000 borrowed on a table mortgage, is set out below:

Repayments of Principal and Interest Per \$1000 Borrowed

Terms of Loan:

Years (mortgage Term)

Interest Rate	5 \$ p.q.	10 \$ p.q.	15 \$ p.q.	20 \$ p.q.	25 \$ p.q.
6%	58.25	33.43	25.40	21.55	19.38
6.5%	58.97	34.20	26.22	22.43	20.30
7%	59.70	34.98	27.06	23.33	21.25
7.5%	60.43	35.76	27.91	24.24	22.22
8%	61.16	36.56	28.77	25.17	23.21
8.5%	61.90	37.37	29.65	26.11	24.21
9%	62.65	38.18	30.54	27.07	25.23
9.5%	63.40	39.01	31.44	28.04	26.27
10%	64.15	39.84	32.36	29.03	27.32
10.5%	64.91	40.68	33.28	30.03	28.38
11%	65.68	41.54	34.23	31.05	29.46
11.5%	66.45	42.40	35.18	32.08	30.55
12%	67.22	43.27	36.14	33.12	31.65
12.5%	68.00	44.15	37.11	34.17	32.76
13%	68.78	45.03	38.09	35.23	33.89
13.5%	69.57	45.93	39.09	36.31	35.02
14%	70.37	46.83	40.09	37.39	36.16
14.5%	71.16	47.74	41.11	38.48	37.32
15%	71.97	48.66	42.13	39.59	38.47
15.5%	72.77	49.59	43.16	40.70	39.64
16%	73.59	50.53	44.21	41.82	40.81
16.5%	74.40	51.47	45.26	42.95	41.99
17%	75.22	52.42	46.32	44.08	43.18
17.5%	76.05	53.38	47.38	45.23	44.37
18%	76.88	54.35	48.46	46.38	45.56
18.5	77.72	55.32	49.54	47.53	46.76
19%	78.56	56.30	50.63	48.69	47.97

(iii) Annual Payments

(Annual Payments on Amortised Loans).

The annual payment (interest and principal combined) per \$1000 borrowed on a table mortgage, is set out below:

Repayments of Principal and Interest Per \$1000 Borrowed

Terms of Loan:

Years (Mortgage Term)

Interest Rate	5 \$ p.a.	10 \$ p.a.	15 \$ p.a.	20 \$ p.a.	25 \$ p.a.
6%	237.40	135.87	102.96	87.18	78.23
6.5%	240.64	139.11	106.36	90.76	81.99
7%	243.89	142.38	109.79	94.39	85.81
7.5%	247.17	145.69	113.29	98.10	89.72
8%	250.46	149.03	116.83	101.85	93.68
8.5%	253.77	152.41	120.43	105.68	97.72
9%	257.09	155.82	124.06	109.55	101.81
9.5%	260.44	159.27	127.75	113.48	105.96
10%	263.80	162.75	131.47	117.46	110.17
10.5%	267.18	166.26	135.25	121.49	114.43
11%	270.57	169.80	139.07	125.58	118.74
11.5%	273.98	173.38	142.92	129.70	123.10
12%	277.41	176.98	146.82	133.88	127.50
12.5%	280.85	180.62	150.76	138.10	131.94
13%	284.31	184.29	154.74	142.35	136.43
13.5%	287.79	187.99	157.76	146.65	140.95
14%	291.28	191.71	162.81	150.99	145.50
14.5%	294.79	195.47	166.90	155.36	150.08
15%	298.32	199.25	171.02	159.76	154.70
15.5%	301.85	203.06	175.17	164.20	159.34
16%	305.41	206.90	179.36	168.67	164.01
16.5%	308.98	210.77	183.57	173.16	168.71
17%	312.56	214.66	187.82	177.69	173.42
17.5%	316.16	218.57	192.10	182.24	178.16
18%	319.78	222.51	196.40	186.82	182.92
18.5%	323.41	226.48	200.73	191.42	187.69
19%	327.05	230.47	205.09	196.05	192.49

2.18 WATER SUPPLY, IRRIGATION AND DRAINAGE

Many manufacturers continue to express capacity in gallons and pump pressure in gallons per hour (gph). The conversion figure to obtain the metric rate is 1 gallon = 4.546 litres.

2.18.1 Water Supply Development Costs

Type	Typical Cost	Cost Range
Surface (direct) pumping systems	\$700/ha	\$500 to \$1,000 / ha
Wells (submersible pumps)	\$1,300/ha	\$900 to \$3,200 / ha
Dams	\$2,300/ha	\$700 to \$8,000 / ha
Open Channels	\$1,200/ha	\$700 to \$3,000 / ha
Long Pipelines	\$4,500/ha	\$2,700 to \$5,900 / ha

On-Farm Irrigation Development Capital Costs

System Type	Typical Cost	Cost Range
Rotary boom	\$2,800 / ha	\$2,100 to \$3,000 / ha
Fixed boom	\$3,000 / ha	\$2,500 to \$3,000 / ha
Centre-pivot	\$3,200 / ha	\$2,800 to \$3,800 / ha
Lateral move	\$3,500 / ha	\$2,800 to \$3,800 / ha
K Line	\$1,900 / ha	\$1,500 to \$2,000 / ha
Long lateral	\$1,900 / ha	\$1,500 to \$2,000 / ha
Guns	\$2,800 / ha	\$2,200 to \$3,000 / ha
New borders	\$2,500 / ha	\$2,000 to \$3,800 / ha
Renovating borders	\$1,300 / ha	\$1,200 to \$2,500 / ha

Source: Aqualinc Research Ltd

Refer to *Section 2.18.9* for supply charges.

2.18.2 Water Troughs

Concrete

Hynds Rural

Product Code	Description	Retail Price
TC130SI	500l sheep/beef concrete trough & lid	\$626.33
TC200SI	500l sheep/beef concrete trough & lid	\$823.65
TC200WVP	900l sheep/beef concrete trough & lid	\$527.88
TC350WVP	1365 litre dairy concrete trough & lid	\$1,002.25
TC350WVP	1500 litre dairy concrete trough & lid	\$601.76
TD040SI	180l deer/horse concrete trough & lid	\$379.12
TCALFMC	Calf trough 585mmx380mmx230mm	\$84.13
TD020SI	90l concrete trough & lid	\$280.66
TPIGCMC	Pig trough cover	\$93.44
TPIGSMC	Small pig trough	\$176.17
TPIGMMC	Medium pig trough	\$229.44
TPIGLMC	Large pig trough	\$251.27
TR200SI	200 gal (910l) cattle, high side & lid	\$550.00
TR350SI	350 gal (1590l) cattle, high side & lid	\$904.98

TR060SI	60gal sheep, oblong & cover	\$505.57
TR070SI	70gal sheep oblong & cover	\$487.57
TR120SI	120gal sheep oblong & cover	\$596.72
DOGBOWL MC	Concrete dog bowl	\$38.90

Humes:

Rectangular troughs: (includes cover)		
RB 200/300/400	280kg / 366kg / 525kg	\$155 / \$185 / \$338
Round troughs: (includes cover)		
CB 100/150/500	235kg / 278kg / 470kg	\$132 / \$155 / \$270
CB 750/1000	680kg / 854kg	\$285 / \$358
CB 1500	1034kg	\$414
Fittings Required:		
Trough Valve	20mm / 25mm	\$39.22 / \$40.46
Top Elbow	20mm / 25mm	\$15.24 / \$20.42
Ball Float	115mm / 150mm	\$7.02 / \$8.27

*All troughs come complete with concrete ball valve cover.

2.18.3 Tanks

Plastic

Devan Plastics:

Litres	Height(m)	Width(m)	Price (any std colour)
30,000 D6500	3.1	3.7	\$3,333.34
25,000 D5500	3	3.5	\$2,928.89
15,000 D3000	2	3.5	\$2,386.67
4,550 D1000	2	1.9	\$1,315.56
1,000	Slimline		\$626.67
750	Handi		\$520.00

*Prices include delivery charges for the North Island and South Island.

Humes: Skellerup Rotomould

Size	Price
500 litre	\$274.94
1100 litre	\$403.22
2,000 litre	\$659.78
3,200 litre	\$873.65
5,250 litre	\$1,325.80
7,500 litre	\$1,875.59
10,000 litre	\$2,254.40

Concrete

Hynds Pipe Systems: (Prices ex yard in Whangarei – freight extra)

Litres	Gallons	Diameter (m)	Height (m)	Price
4,500 / 9000	1000 / 2000	1.95 / 2.82	1.75 / 1.75	\$1,422.00 / \$1,866.67
13,600	3000	2.82	2.5	\$2,222.22
22,700 / 27,000	5000 / 6000	3.6 / 3.6	2.5 / 2.97	\$2,844.44/ \$3,377.78

Hynds Rural

Product Code	Description	Retail Price
WT1000AM	4500 litre concrete water tank	\$4,159.49
WT2500AM	11000 litre concrete water tank	\$7,113.55
WT5000AM	22000 litre concrete water tank	\$10,335.18
WT5000LIDCH	Lid for 22000 litre water tank	\$1,320.79

2.18.4 Pumps and Windmills

(i) Pumps

Williamson Hi-Flo Rampumps (trading as Kevin Smith Steelworkers Ltd):

Rampump Model 150	4,500 litres/Day	\$6,250.00
Rampump Model 250	20,500 litres/Day	\$8,250.00
Rampump Model 400	55,000 litres/Day	\$10,250.00
Rampump Model 600	135,000 litres/Day	\$14,250.00

Russell Thomas Chainsaws & Mowers:

High pressure pump + auger, 4 stroke	\$895
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Fosters Outdoor Power Equipment Ltd (Briggs and Stratton):

Water pumps petrol powered including fire pumps

3.5 to 7.5 cm (1.5" to 3")	\$844.44 to \$2,666.66
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Power Farming: (Sprayrite 12 Volt Pumps)

Shurflo pump 12 volt, 35psi to 100psi	\$179 to \$895
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Bertolini (Diaphragm Pumps)

Medium to high Pressure models	Maximum continuous working pressure	litres per minute	Price
PA 330	40 Bar (580 psi)	34	\$1,075 to \$1,532
PA 430	40 Bar (580 psi)	40	\$1,116 to \$1,625
PA 530	40 Bar (580 psi)	54	\$1,480 to \$2,222
PA 730	40 Bar (580 psi)	70	\$1,753 to \$2,530
PA 908	50 Bar (725 psi)	90	\$2,253
PA 144	50 Bar (725 psi)	140	\$3,334
PA 154	50 Bar (725 psi)	150	\$3,610

Onga (NZ) Ltd - Davies and Onga Pumps:

Prices for various pressure systems vary according to tank size.

Farm Pressure Systems. Shallow well jet pumps.

JJ400	750 W	20 to 40 psi	AP 50 tank	\$1,043.00
JJ600 (1ph)	1100 W	20 to 50 psi	AP 50 tank	\$1,393.00
OJ700 (1ph)	1500 W	20 to 70 psi	AP 80 tank	\$2,174.00
OJ800 (1ph)	2400 W	30 to 75 psi	SR 60 tank	\$3,316.00

Prices include a shallow well injector.

General Purpose Water Transfer

Hi Flow Self Priming Moulded Centrifugal Pumps

Models	415	750 W	31psi	240v	\$598.00
	112	1100 W	37psi	240	\$975.00
	143	2400 W	60psi	240 / 415v	\$1,409 / \$1,296

Irrigation

Blazemaster Single Impeller B55H Honda 6x160 5.5hp 200l/min at 37m head	\$1,559
Blazemaster Twin Impeller BM65H Honda 6x200 6.5hp 200l/min at 41m head	\$1,877
Blazemaster Twin Impeller BM10YE Yanmar HODAE ES 10hp Diesel, Electric Start 200l/min at 54m head, 100l/min at 64m Head	\$8,769.00

Hydra-Cell Pumps Ltd.:

Hydra-Cell G20 Brass Head	up to 4 litre per min up to 1000 psi	\$1605
Hydra-Cell G03 Brass Head	up to 9 litre per min up to 1200 psi	\$2385
Hydra-Cell G10 Cast Iron Head	up to 30 litre per min up to 1200 psi	\$3280
Hydra-Cell G25 Cast Iron Head	up to 76 litre per min up to 1000 psi	\$8980
Hydra-Cell G35 Cast Iron Head	up to 140 litre per min up to 1200 psi	\$13,560

McNeill Drilling Co Ltd:

(Grundfos Pumps)

High Pressure Multi Stage – Farm Reticulation

Bare Pumps	kW	Pressure	Flow, litres/minute	Price
CR 5-8	1.1	45psi	120	\$1,808
CR 5-15	2.2	100psi	120	\$2,765
CR 10-9	3.0	85psi	200	\$2,967
CR 15-5	4.0	75psi	330	\$3,396

Variable Speed Pressure Systems

Hydro Solo E 5-8	1.1	45psi	120	\$6,675
Hydro Solo E 5-16	2.2	100psi	120	\$8,253
Hydro Solo E 10-9	3.0	85psi	200	\$9,360
Hydro Solo E 15-5	4.0	75psi	330	\$10,403

General Purpose Transfer Pump

	kW	Pressure	Flow, litres/minute	Price
CH2-40	0.39	50psi	18	\$749
CH4-40	0.69	40psi	36	\$789
CH8-60	1.46	65psi	65	\$1,908

Domestic Pumps

MQ3-35	0.67	35psi	55	\$893
JP6 PC15	0.92	40psi	65	\$1,098
JPB2 PT08	0.44	35psi	30	\$571
JPB4 PT18	0.75	40psi	50	\$815
CHV 4-80 PT80	1.7	75psi	85	\$2,103

Submersible Bore Hole Pumps

SQE 3-65	1.0	90psi	60	\$2,275
SQE 5-70	1.6	90psi	100	\$3,425
SQE 7-40	1.3	55psi	120	\$3,079
SP8 A-15	2.2	75psi	140	\$3,810
SP 17-10	5.5	100psi	310	\$6,596
SP 60-12	22	130psi	1000	\$15,241
SP 125 – 5A	45	130psi	2250	\$21,975

McNeill Drilling Co Ltd:

Drainage Waste Pumps

KPb 300a	0.22	5.8psi	120	\$403
KP250 A1	0.25	5.8psi	125	\$587
AP12-40-06 A1	0.40	8.7psi	230	\$998
AP 50-50-11-A1 Vortex	1.1	12.3psi	265	\$1,636

Waste Water Heavy Duty Pumps

DP 10-65-26	2.6	24psi	533	\$3,724
EF 30-50-06	0.6	9psi	265	\$2,014
SLV 65-65-11	1.1	7.2psi	300	\$2,662
SEV 65-65-30	3.0	11.5psi	630	\$4,682
SEV 65-65-40	4.0	20.3psi	630	\$5,589

Pressure Tanks

Tank	Capacity (litres)	Maximum working pressure	Price
PTF18	18	1000	\$166
PTF80	80	1000 free standing	\$600
PTF130	130	1000 free standing	\$915
PT450	450	1000 free standing	\$2,058

(ii) Windmills

Ferguson Windmills Company

1.8m (6ft) complete windmill (incl. fan, standard mast, pump and accessories)	\$2,580
Extension mast and accessories	\$702

2.18.5 Effluent Pumps, Sumps and Irrigators.

Numedic Ltd:

Pumps – New Generation Grease Model

Motor Size (3 phase)	Motor and pump price
5.5 kW 2800 rpm	\$4,621.00
7.5 kW 2800 rpm	\$4,839.00
11 kW 2800 rpm	\$6,026.00
15 kW 2800 rpm	\$6,550.00
18.5 kW 2800 rpm	\$6,990.00

Effluent Pump price includes motor cover, mounting bracket, lifting bracket, 50mm non-return valve and galvanised pipefittings.

Chopper pumps in the above sizes add \$528.00

Ecostream Irrigation:

Dairy Shed Effluent Irrigation Equipment

Stone Trap 3450 x 2450 x 900 mm \$1,650

Ecostream Self Cleaning Effluent Sumps

Effluent Sump 3,000 litre includes sump, mesh cover, pump mounting brackets and debris basket \$3,700

Effluent Sump 10,000 litre includes sump, conical internal base, pontoon, discharge pipework & pump switching system (excludes assembly) \$6,700

Effluent Sump 25,000 litre includes sump, conical internal base, pontoon & discharge pipework & sump pump switch (excludes assembly) \$9,000

Ecostream Pontoons for Storage Ponds

Pontoon 2 Drum c/w 6.5m Discharge Pipe (for Pump only) \$1,900

Pontoon 4 Drum c/w 8.0m Discharge Pipe (for Pump only) \$3,300

Pontoon 6 Drum c/w 8.0m Discharge Pipe & Legs (for Pump & Stirrer) \$4,000

Pontoon 8 Drum c/w 8.0m Discharge Pipe & Legs (for Pump & Stirrer) \$5,000

Electric Effluent Pump & Motor 10 hp 2800 rpm \$4,400

Electric Effluent Pump & Motor 15 hp 2800 rpm \$5,600

Electric Effluent Pump & Motor 20 hp 2800 rpm \$6,200

Ecostream PTO Trailer Pump 285 \$6,600

Ecostream PTO Trailer Pump 380 \$7,600

Electric Stirrer 5 hp (suitable for sumps) \$4,900

Electric Stirrer 10 hp (suitable for ponds) \$6,100

Tractor Pond Stirrer c/w Extension 5.7m long \$7,700

Ecostream Sump Pump Switches \$450 -

\$1,000

Ecostream Electric Pump Controllers 2.2 – 22 kW (for sumps & ponds) \$1,500 -

\$4,500

Dairy Shed Effluent Disposal Equipment

Ecostream Irrigation:

Effluent Pump Mainlines

MDPE Pipe 75 mm dia. 8 bar \$9.00/m

MDPE Pipe 90 mm dia. 8 bar \$9.50/m

PVC Pipe 65 mm dia. 6 bar \$8.00/m

PVC Pipe 80 mm dia. 6 bar \$9.00/m

Ecostream No Block Effluent Hydrants.

Fits all common pipe sizes and types. PVC Rubber Ring Joint, MDPE Hose Tail or BSPT Fittings

Effluent Hydrant 1 way (end of pipeline) \$145

Effluent Hydrant 2 way (connection within a pipeline) \$400

Effluent Hydrant 3 way (tee in a pipeline) \$550

Effluent Hydrant 4 way (cross in a pipeline) \$650

Hydrant Take Off c/w camlock \$150

Effluent Irrigators

Ecostream Irrigation Ltd:

Ecostream Effluent Irrigators

Travelling Irrigator - low pressure, continuous drive (many optional extras available at an additional cost)	\$4,700
Stationary Irrigator – for steep contours and smaller herds	\$1,600
Raingun on Skid	\$3,000
Travelling Irrigator Draghose x 50 m c/w camlock couplings and hose clamps (typical effluent system uses 3 or 4 sections)	\$360

Numedic Ltd:

EVENSPREAD ADCAM®750 Travelling Irrigator. Unique short & long arm boom design for improved spread. Adjustable cam with 7 different speeds enabling 7 different application depths. Wire rope winder ensures even layering of wire rope back on to the drum.	\$5,065.00
Stationary Irrigator. Ideal for steeper farms, adjustable riser pipe.	\$2,085.00

McNeill Drilling Co Ltd:

Yardmaster RH7	11kW	65psi	840 litres / min	\$5,185
Yardmaster RH8	15kW	88psi	840 litres / min	\$5,649
Yardmaster RH9	18.5kW	97psi	840 litres / min	\$6,000
Yardmaster RH10	22kW	108psi	840 litres / min	\$9,637

Anderson and Rooney:

Travelling Irrigators - Effluent or fresh water irrigation

Spitfire mk VIII	runs 50m wide 400m long	\$9,549
LP25 Pluck	runs 25m wide 200m long	\$4,650
LP30 Pluck	runs 30m wide 300m long	\$4,850

2.18.6 Well Drilling

McMillan Water Wells Ltd:

Price for drilling wells	Price per metre
4 inch (100mm) / 5 inch (125mm)	\$136.25 / \$149.00
6 inch (150mm) / 8 inch (200mm)	\$159.50 / \$279.00
10 inch (250mm) / 12 inch (300mm)	\$387.00 / \$457.00
14 inch (350mm)	\$539.00

Developing charged at \$164.50 per hour for a 100 to 150 mm well and \$183 for a 200 to 300 mm well. Compressing and test pumping for a 150 mm well charged at approximately \$164.50 per hour. Compressing and test pumping for a 200 mm well and larger is charged at \$201.25 per hour and \$189.75 per hour respectively. Install telescoped casing for 250mm or 300mm well charged at \$195 per hour if applicable. All prices include drilling and steel pipe. Stainless steel screens are normally fitted, and range in price from \$396 per metre for 100 mm to \$871 per metre for 300 mm. However, prices will vary depending on location and depth.

2.18.7 Dam Liners

Permathene Ltd: (Permaliner range)

300 micron	\$3.85 per m ²
500 micron	\$6.60 per m ²
750 micron	\$10.00 per m ²
1000 micron	\$13.20 per m ²

2.18.8 Pipes and Fittings

Hydroflow Distributors (Hansen Products):

Polythene Pipe Fittings:

Straight coupling (HS)	15mm to 50mm	\$2.85 to \$20.47
Reducing straight coupling (HRS)	20x15mm - 50x40mm	\$3.73 to \$20.47
Long straight coupling (HLS)	15mm to 25mm	\$5.10 to \$7.60
Female straight coupling (HFS)	15mm to 40mm	\$3.19 to \$12.21
Reducing female straight coupling (HRFS)	20x15mm - 50x40mm	\$4.87 to \$15.55
Male straight couplings (HMS)	15mm to 50mm	\$2.54 to \$15.08
Reducing male straight couplings (HRMS)	20x15mm - 25x20mm	\$4.51 to \$4.95
Bends (HB)	15 to 50mm	\$6.12 to \$28.02
Male Bend (HMB)	15mm to 50mm	\$6.29 to \$18.80
Female bends (HFB)	15mm to 50mm	\$8.91 to \$22.45
Reducing female bends (HRFB)	15x20mm - 25x20mm	\$9.13 to \$13.45
Male bends short (HMBS)	15mm to 25mm	\$6.18 to \$11.06
Reducing male bends (HRMB)	15x20mm - 20x25mm	\$9.87 to \$12.63
Tees (HT)	15mm to 50mm	\$5.49 to \$38.89
Reducing tees (HRT)	15x20mm - 50x40mm	\$8.54 to \$38.89
Female tees (HFT)	15mm to 50mm	\$6.92 to \$39.45
Male tees (HMT)	15x20mm - 20x20mm	\$6.60 to \$7.94
Bracket elbow (HBE)	15mm to 20mm	\$6.74 to \$8.99
Plug (HSP)	8ml	\$0.62
Reducing bush (HRB)	25x10mm	\$2.04
Hex nipple (HSN)	6mm to 8mm	\$0.65 to \$0.86
Reducing hex nipple (HRHN)	15x8mm to 32x20mm	\$0.98 to \$2.04

MICO Pipelines: PVC Pressure pipe, metric pipe series (available in 6m lengths).

PN 6 - Red print			
Diameter (mm)	Socketed one end	Size (mm)	Rubber ring joint
40 to 65	\$66.34 to \$137.73	100 to 175	\$243.98 to \$683.63
80 to 100	\$176.09 to \$478.07	200 to 375	\$824.48 to \$2,632.00
PN 9 – Blue print			
50 to 65	\$109.03 to \$176.09	50 to 125	\$115.70 to \$1,145.00
80 to 100	\$247.64 to \$447.31	150 to 300	\$683.63 to \$5,616.00
PN 12 – Green print			
32 to 50	\$88.44 to \$134.18	50 to 125	\$141.66 to \$1,480.00
65 to 100	\$220.29 to \$395.03	150 to 225	\$840.99 to \$5,049.00
PN 15– Brown print			
15 to 40	\$45.32 to \$108.63	50 to 100	\$164.54 to \$569.69

50 to 100 \$157.29 to \$555.97 125 to 200 \$1,792.00 to \$1,878.00

MICO Pipelines: PVC Pressure Pipe Fittings

Size	Plain 90° Elbow	Formed 90° Bend
15 mm to 32 mm	\$2.68 to \$8.42	\$6.55 to \$23.87
40 mm to 80 mm	\$10.77 to \$44.82	\$39.79 to \$115.88
100 mm	\$67.88	\$270.54

Alkathene Low Density Polyethylene Pipe

Coil Length	Pipe size					
	15mm	20mm	25mm	32mm	40mm	50mm
25m	\$38.85	\$74.18	\$93.27	\$116.62	\$144.75	\$187.78
50m	\$77.71	\$148.34	\$186.52	\$233.24	\$289.49	\$375.55
100m	\$155.42	\$296.69	\$373.02	\$466.48	\$578.99	\$751.13
200m	\$310.83	\$593.36	\$746.07	\$932.96	\$1,158.00	-

Medium Density Polyethylene Pipe (9 Bar)

Coil Length	Pipe size					
	20mm	25mm	32mm	40mm	50mm	63mm
50m	\$127.99	\$157.55	\$208.35	\$305.60	\$468.03	\$529.55
100m	\$255.85	\$315.23	\$416.57	\$610.93	\$935.66	\$1,059.00
200m	\$511.31	\$630.46	\$833.40	\$886.38	\$1,395.00	-

Medium Density Polyethylene Pipe (Greenline)

Coil Length	Pipe size					
	20mm	25mm	32mm	40mm	50mm	63mm
50m	\$97.70	\$127.25	\$156.75	\$190.90	\$295.46	\$446.62
100m	\$195.39	\$254.50	\$313.52	\$381.78	\$590.94	\$893.23
200m	\$390.75	\$508.99	\$627.01	\$763.58	\$1,182.00	\$1,786.00

Horticultural Lateral Tube. (Maximum working pressure: 3.1 bar / 310kpa / 45psi)

Coil Length	Pipe size			
	13mm	16mm	19mm	25mm
25m / 50m	\$31.32/\$51.39	\$29.45/\$70.52	\$29.91/\$56.90	-
100m	\$77.84	\$96.59	\$127.60	\$189.26
200m	\$146.79	\$313.86	\$227.53	\$342.55
300m	\$208.97	\$355.21	\$382.77	-
400m	\$311.38	\$396.30	-	-

Effluent Pipe - medium density polyethylene pipe.

Coil Length	Pipe size		
	63mm	75mm	90mm
50m	\$446.62	\$868.05	\$1,137.00
100m	\$893.23	\$1,736.00	\$2,275.00

Quantum Grow Ltd:

Low density black polythene pipe	Price per 100 m
15 / 20 / 25 / 32 / 40 / 50mm	\$70/\$133/\$167/\$207/\$254/\$335
Low pressure lateral tube	
13mm / 16mm / 19mm / 25mm	\$36/\$45/\$56/\$84
PVC Pipe Class E 6m lengths - 15/20/25/32/40/50mm	\$11/\$16/\$23/\$35/\$45/\$71

Valves	
Solenoid valves	from \$55.00
Polypropylene ball valves	from \$16.00
PVC ball valves	from \$13.10
Check valves	from \$22.08
Pressure reducing valves	from \$27.55
Trough valves	from \$24.00

Steel & Tube N.Z. Ltd.: Nov 2009

Galvanised wrought steel pipe fittings:	10 mm	20 mm	40 mm
Tee	-	\$19.29	\$63.95
M & F Bend	\$9.68	\$21.53	\$43.42
90° Elbow	\$8.72	\$14.56	\$43.38
Plug	\$2.17	\$4.49	\$13.53
Barrel Piece	\$4.76	\$2.37	\$5.07

Galvanised and black malleable fittings:	10mm	20mm	40mm
Elbows - banded equal	\$1.77	\$2.19	\$7.84
- banded reducing	-	\$2.45	\$8.12
- banded 45 ⁰	-	\$2.33	\$7.29
Tees - banded equal	\$2.33	\$2.99	\$8.76
- banded reducing	-	\$3.06	\$10.22
Plugs	\$1.01	\$1.24	\$3.14
Ball Valves chrome on brass, lever handle (1710)	\$8.03	\$13.99	\$45.02
chrome on brass, T handle (male/ female)	\$9.45	\$15.81	-

Jobe Valves Ltd:

Reservoir Valves - Megaflo

Drop	20 mm	25 mm	32 mm	50mm
100 mm differential	\$167.50	\$192.50	\$217.50	\$424.90
300 mm differential	\$192.50	\$217.50	\$242.50	\$449.90
600 mm differential	\$217.50	\$242.50	\$267.50	\$474.90

Trough valve – Megaflo	20 mm	25 mm	32 mm
Side and bottom entry	\$40.05	\$40.90	\$46.50
Topaz Megaflo top, side or bottom entry	\$48.05	\$49.65	\$56.45
Tank water level indicator			\$153.20

Trough valve – Rojo float	15 mm	20 mm
Side, bottom and top mounting	\$25.80	\$25.80

2.18.9 Rural Domestic and Supply Charges

Stock water is charged for in a number of different ways. Some examples only are quoted here. Note: These prices are all inclusive of GST.

Whangarei District Council

Water charges are a flat rate to all properties of \$1.85 per cubic metre.

Waikato District Council

Water supply charges vary, depending on location. Metered water charges vary from \$0.97 to \$1.34 per m³. Targeted annual water rates vary from \$60 to \$448.

Hauraki District Council

Rural domestic and stock water is charged for at 99c per m³. There is also an annual charge of \$70 per connection.

Waitomo District Council

Water is charged to “extraordinary” water users at \$1.19 per cubic metre.

Taranua District Council

Minimum charge per quarter of \$71.75 for extraordinary users, plus a charge of \$1.06 per cubic metre for consumption over 100m³ during that three-month period

Central Hawkes Bay District Council

Water is metered for use above 300m³ at \$1.25 per m³.

South Taranaki District Council

Targeted rates for rural water supplies vary from \$0.43 to \$1.19 per m³.

South Wairarapa District Council

Featherston-Longwood Water Race - a rate of 0.0007616 is charged, per dollar of land value, for every rating unit in the district, which has access to the water race within the scheme area.

Moroa Water Race - a rate of 0.0003128 per dollar of land value is charged for every rating unit in the district, which has access to the water race within the scheme area.

Buller District Council

Rural stock water is charged at 56 cents per cubic metre.

Rural domestic water costs \$405 for the first 550 cubic metres and \$1.05 per cubic metre thereafter.

Kaikoura District Council

East Coast Rural Water is \$301.68 per water unit (1800lt / day / unit).

Kincaid Rural Water is \$100.27 per water unit (1000lt / day / unit).

Oaro Rural Water is \$199.77 per water unit (1000lt / day / unit).

Peketa Rural Water is \$254.55 per water unit (1000lt / day / unit).

Selwyn District Council

Stock water supply charges range from \$5.80 to \$13 per hectare or part thereof . Minimum charges range from \$10 to \$187.70, depending on location.

Gore District Council

Gore and Mataura: \$211.84 is charged for each separately used or inhabited part of a rating unit that is connected to either the Gore or Mataura water schemes.

Otama Water Scheme: Water costs \$200 per water unit, plus \$215 per water connection.

2.18.10 Resource Consents, Water and Discharge Permits

Consent Application Deposits from two North Island Regional Councils (GST inclusive)

Costs	
Non-notified consent	\$450
Notified consent	\$1,100
Consent renewal, change or review	
Non-notified consent	\$450
Notified	\$1,100
Extension of a consent lapsed due to non-exercise	\$325
Certificate of compliance	\$325
Transfer of consent	\$65

	Non-notified	Notified
Take water/dam water/divert groundwater	\$495	\$928.12
Land use consent for earthworks and / or vegetation clearance incl mining, quarrying, forestry, bridging, gravel extraction. Fee incl stormwater diversion and discharge applications where required.	\$742.50	\$2,475
Coastal permits excl moorings		\$2,475
Coastal permits incl moorings and offsite marine farms	\$495	\$1237.50
Bore Drilling Permits	\$247.50	n/a
Plus per additional bore	\$30.94	n/a
Domestic On-site Sewage Discharge <3m ³ / day	\$495	n/a
Discharge of sewage > 3m ³ / day	n/a	n/a
Discharge Permit to land, water or air incl farm waste and air discharges to the coastal marine area	\$495	\$1,237.50
Diversion and discharge of stormwater to land and / or water	\$495	n/a
Transfer a consent to another person	\$49.50	n/a

Other Deposit Charges

Certificate of compliance	deposit	\$371.25
Transfer existing water permit between sites within catchment	Notified	\$618.75
	Non-notified	\$247.50

Consent Application Deposits from Hawkes Bay Regional Council (GST inclusive)

Costs	
Non-notified consent	\$900.00 deposit + actual & reasonable
Notified consent	\$5000.00 deposit + actual & reasonable
Consent renewal, change or review	\$900.00 deposit + actual & reasonable

Non-notified consent	\$900.00 deposit + actual & reasonable
Notified	\$5000.00 deposit + actual & reasonable
Extension of a consent lapsed due to non-exercise	\$112.50 fee
Certificate of compliance	Actual & reasonable
Transfer of consent	\$73.12 for 1 consent, \$106.87 for 2 or more consents

Resource Consent for West Coast - South Is (*West Coast Regional Council*)(GST excl)

Humping and hollowing of farm land	\$700
River protection works	\$500
Gravel extraction	\$350
Discharge Permits for dairy effluent discharges	\$500
Dairy effluent inspection	\$100

2.18.11 Irrigation Equipment - Pastoral and Horticultural

(i) Low Pressure Systems

K-Line pods	\$104.88
40mm Irripod with Naan 5022 sprinkler	\$78.43
40mm Irripod pipe x 200m	\$650

Ecostream Irrigation Ltd:

Irrigation Equipment – Pastoral & Horticultural

Ecostream Irrigators

Travelling Irrigator - low pressure, continuous drive (many optional extras available at an additional cost)	\$4,700
Raingun on Skid	\$3,000

All prices exclude GST & Freight

Source: Grant Titchiner, Ecostream Irrigation, February 2010.

IrriPod Ltd:

Irripod Irrigation System, available in LDPE 32mm, 40mm and 45mm.
Indicative costs per hectare include Irripod fittings, mainline and pump.
Average cost per hectare of flat terrain is \$900 to \$1400.
Average cost per hectare of rolling terrain is \$1400 to \$2000.

(ii) Travelling Irrigators

Rainer Irrigation Ltd:

Briggs Model 200 Roto Rainer and Hose Trailer (Standard)	\$50,963.00
Briggs Model 250 Roto Rainer and Hose Trailer (Standard)	\$60,412.00
Briggs Model 250 Linear Rain Turbine Drive and Hose Trailer (Std)	\$74,261.00
Briggs Model 125 Roto Rainer and Hose Trailer (Standard)	\$48,213.00
Briggs Model 100 Roto Rainer and Hose Trailer (Standard)	\$36,443.00
Briggs Model 25 Roto Rainer and Hose Trailer (Standard)	\$25,883.00
Briggs Model 25 Trailer	\$6,501.00
Briggs Model 10 Roto Rainer Standard (Effluent Irrigator)	\$4,378.00

Briggs Model 15 Roto Rainer Standard (Effluent Irrigator)	\$6,578.00
Briggs hose trailer	\$6,501.00 to \$10,714.00

Hoses (Angus)	
65mm to 75mm	\$24.00 to \$31.00 per metre
89mm to 100mm	\$38.75 to \$49.00 per metre
114mm to 125mm	\$55.00 to \$59.50 per metre

Underground Mainline (PVC pipes) Class B (per metre)
 80 / 100 / 125 / 150 / 175 / 200mm \$6.45 / \$8.58 / \$13.27 / \$16.35 / \$25.59 / \$30.86
 Hydrant outlets cost \$162 to \$780 each. Trenching and laying costs \$2.50 to \$4.50 / metre.

PGG Wrightson Ltd - Irrigation & Pumping
 Ph 0800 864 774

PGG Wrightson Irrigation and Pumping:

Ocmis Hard Hose Irrigator

R2/1 90mm x 300m / R3/1 110mm x 300m	\$29,900 / \$35,500
R4/1 110mm x 450m / VR6 125mm x 400m	\$48,500 \$53,000

(iii) Centre Pivots

PGG Wrightson Irrigation and Pumping

Centre Pivot Length	Price
400m	\$160,000
500m	\$200,000
600m	\$240,000
700m	\$280,000

KB Irrigation Ltd) January 2010: Pierce Range

Length (all plus end gun)	Irrigated Area	Cost per hectare	Price
167m	10.98ha	\$4,371	\$48,000
172m	11.58ha	\$4,274	\$49,500
244m	21.89ha	\$3,113	\$68,150
300m	28.27ha	\$3,215	\$90,900
416m	59.72ha	\$1,930	\$115,300
450m	72.38ha	\$1,722	\$124,700
540m	102.07ha	\$1,443	\$147,300
630m	136.85ha	\$1,233	\$168,800
670m	153.93ha	\$1,166	\$179,500
800m	216.42ha	\$990	\$214,300

Price includes the machine, freight to New Zealand, delivery to farm, unloading of containers, concrete pivot pad, erection and commissioning of machine, wiring and connection to the power source. Prices do not include pipe work or the power cable to the pivot point, pumps, intakes or bore drilling.

Soft Hose Irrigators

(KB Irrigation Ltd) January 2010: Trailco Range

Trailco Model	Approx Irrigated Area	Cost per hectare	Price
T50	2.67ha	\$1,224	\$3,266
T100	4.87ha	\$1,031	\$5,021
T150-2	11.08ha	\$974	\$10,793
T250-2	32.45ha	\$826	\$26,827
T300-2	36.19ha	\$805	\$29,158
T450-2	57.56ha	\$1009	\$58,138

Price includes the irrigator and hose, cable and sprinkler. Prices do not include pipe work, hydrants, pumps, intakes or bore drilling.

2.18.12 Irrigation Equipment - Horticultural

Quantum Grow Ltd:

Drippers For Lateral Pipe		
Button dripper 2 / 4 / 8 litres per hour		\$0.56
Dropper Naandan Clicktif – pressure compensating 2 / 4 / 8 litres/hour		\$0.56
Regulated button dripper – pressure compensating 2 / 4 / 8 litres/hour		\$0.56
Driptape T –Tape		
10cm drip spacing 455m roll / 2300m roll		\$125 / \$550
20cm drip spacing 455m roll / 2300m roll		\$125 / \$550
30cm drip spacing 455m roll / 2300m roll		\$125 / \$550
Low Pressure Lateral Tube per 100m		
13mm / 16mm / 19mm / 25mm		\$36 / \$45 / \$56 / \$84
Fertiliser Injectors c/w tube / strainer and valve		\$205 to \$1,082
Dosematic Proportional Feeder		from \$1,650

Egmont Commercial Ltd:

Dutch water spikes	Price per spike quantity 1-999	\$0.16ea
Whisker micro tube - 1.27mm bore size. 200m coil		\$45.60
Watering wand		\$17.50
Lateral tube 13mm / 16mm / 19mm / 25mm -per 20m coil		\$72.52/\$20.15/\$25/55/\$38.21
Sprinkler tube PVC 4mm internal diameter - 50m roll		\$45.60
Elbow barbed fitting 13mm/16mm/19mm/25mm		\$1.07/\$1.13/\$1.13/\$1.54
Joiner barbed -13mm/16mm/19mm/25mm		\$0.67/\$0.76/\$0.93/\$1.02
Tee barbed -13mm/16mm/19mm/25mm		\$1.28/\$1.28/\$1.28/\$1.54
Cray Clip -13mm/16mm/19mm/25mm		\$0.31/\$0.67/\$0.31/\$0.67
Quick action shut off valve- 13mm/16mm/19mm/25mm		\$3.13/\$5.00/\$6.45/\$8.67
End Plug -13mm/16mm/19mm/25mm		\$0.52/\$1.02/\$1.02/\$1.21
Nut & Tail 20mm x 13mm/16mm/19mm Tail		\$2.05/\$2.31/\$2.42
Nut & Tail 25mm x 13mm/19mm/25mm Tail		\$2.05/\$2.42/\$2.65
Inline Filter 13mm/16mm/19mm/25mm		\$7.22/\$13.06/\$8.06/\$9.04
Increasing Tee 13-16/13-19/16-19/19-25mm		\$1.80 / \$1.80 / \$1.97 / \$2.05
Threaded Tee13-15/19-15/25-20mm Male Bsp & Female		\$1.78 / \$1.78 / \$2.53 & \$3.20

Reducing Tee16-13/19-13/19-16&25-13/25-16/25-19mm	\$1.02/\$1.21/\$1.36 & \$1.88
Reduce Joiner16-13/19-13/19-16&25-13/25-16/25-19mm	\$1.36 & \$1.54
Threaded Elbow Female 13 / 19mm & Male 19 / 25mm	\$2.83 & \$1.71 / \$2.05
Threaded director13-15/16-15/19-15/19-20/25-25mm bsp	\$1.04/\$1.12/\$1.35/\$1.69\$1.57
Takeoff Conn & Grommet 13 / 16 / 19mm	\$1.21 / \$1.36 / \$1.64
Takeoff 16mm / Goof plug / Lateral pipe hole punch	\$0.93 / \$0.11 / \$2.42
Grommet Top Hat13/16mm - Dble flange 13/16/19mm	\$0.86 / \$1.06 - \$0.76 / \$1.16
Self Comp Drippers 2Lph / 4Lph	\$0.60
Rigid Riser 200 / 300mm / 1½m long / 1m / 200mm / 2m long	\$0.34 / \$0.52 / \$1.21 / \$0.89 / \$0.34 / \$1.71
Microjet 90° / 180° / 360° - Stake Sprinkler black / red	\$0.52 - \$1.28 / \$1.25
Micro Sprinkler 55/90 - Flow Sprinkler35/42/75/120 Lph	\$2.98 - \$1.10
Stake Threaded complete 5mm / threaded only 5mm	\$4.74 / \$2.25

2.18.13 Irrigation Water Supply Charges

Farm Charges

Charges for irrigation vary depending on the length of time the scheme has been in operation, the size of the scheme, the source of water and the number of farmers participating in the scheme.

Some examples of water charges for the 2009/2010 season for community irrigation schemes in the South Island are as follows:

Scheme	Charges
<i>Amuri Irrigation Co</i>	
- Borderdyke: entitled to one day for every 31 ha owned	\$1,302 per day's water
- Spray Irrigation	\$62.44 / litre / second per year
<i>Ashburton Lyndhurst Irrigation Ltd</i>	\$37 / ha / year, + \$80 admin charge
	For those that have pressurised water delivered through the pipe system, \$140/ha/year in addition to base water charges
<i>Mayfield Hinds Irrigation Ltd</i>	\$50 / ha / year
<i>Morven, Glenavy and Ikawai Irrigation Co</i>	
- Borderdyke	\$25.06 per ha for 17 day roster \$30.08 per ha for 14 day roster \$5.00 per hour for additional water
- Spray	\$18.88 per ha
<i>Lower Waitaki Irrigation Co.</i>	\$14.60 / ha spray irrigation (on demand) \$36.60 / ha for borderdyke irrigation (16 day rotation)

2.18.14 Irrigation Scheduling Service

HydroServices:

Provides agricultural and horticultural properties with irrigation management advice based on weekly soil moisture measurements in selected paddocks / blocks / crops on the property.

Canterbury / Otago:

Fees per site depend on the number of sites per property/farm.

Dairy Pasture	\$980.00 for 1 site to \$685.00 for more than 7 sites
Arable - short rotation	\$435.00 for 1 site to \$270.00 for more than 7 sites
Arable - long rotation	\$650.00 for 1 site to \$450.00 for more than 7 sites
Vineyards	\$810.00 for 1 site to \$605.00 for more than 7 sites

North Island

Fees per site depend on the number of sites per property/farm.

Pasture	\$990.00 for 1 site to \$790.00 for more than 7 sites
Arable	\$640.00 for 1 site to \$420.00 for more than 7 sites
Vineyards	\$1,145.00 for 1 site to \$820.00 for more than 7 sites

System Evaluation

Provides irrigation system evaluation, measuring system pressure, flow and distribution uniformly. The report identifies whether the system meets design specifications and/or remedial work to improve efficiency.

Canterbury / Otago

Fee per system evaluation

Single -centre pivot, no cnr arm, linear move, travelling irrigator	\$1,500 to \$2,000
Centre pivot with corner arm	\$2,000 to \$2,500

2.18.15 Border Dyke Irrigation

One Canterbury contractor charges the following rates:

Rebordering 25 – 40m wide	\$1200 per ha
Headrace construction (includes sills)	\$1500 per metre
New borderdykes	From \$1500 per ha
Feeder race construction	\$10 per metre

Rooney Earthmoving:

(i) Earthworks

Earthworks only - \$1,350 per hectare or \$3,350 per hectare which includes the borders, headraces etc. This cost includes: All levelling, construction of levees, construction of supply and headraces.

(ii) Structures

Concrete Dams

Depends on flow rate of water and will vary depending on water flow but average \$405.

Sills

Standard sills cost on average \$100 each.

There are various other designs, which would generally be more expensive.

Cutting out grass sills costs \$100 per group of borders.

Weirs

2.5m - \$500 each.

Access Crossings

For a 6 metre crossing, cost including installation and pipes:

300mm diameter pipe	\$300 per metre
4.8m crossing, including headwalls	\$2,400
Concrete bridge crossing	\$3,500

2.18.16 Drainage and Subsoiling Costs

The cost of intensive pipe/tile and mole drainage depends on a very large number of variables. *Blackley Construction Ltd* of Manawatu quoted typical flatland costs for intensive (20 to 25mm drainage coefficient) systems:

Clay soils, metal backfill with mole drainage	\$4,950 per ha
Clay soils, mole drainage, no metal backfill	\$3,700 per ha
Silts (no moling), metal backfill	\$4,500 per ha
Silts (no moling or metal backfilling)	\$3,400 per ha
Mole drainage	\$230 per ha
Difficult sites with poor outlet conditions or flat country may range up to	\$5,300 per ha

Southtile Ltd: Field Tiles

Code	Diameter (mm)	Length (mm)	Per unit for 100	Per unit for 500
FT31	75	300	\$1.37	\$1.13
FT41	100	300	\$1.37	\$1.13
FT51	125	300	\$2.05	\$1.72
FT61	150	300	\$2.96	\$2.47
FT71	190	300	\$4.45	\$3.70
FT42	100	600	\$3.12	\$2.61
FT52	125	600	\$4.54	\$3.78
FT62	150	600	\$6.50	\$5.42
FT72	190	500	\$9.79	\$7.97
FT95	225	500	\$14.72	\$12.27

*Seconds also available.

Junctions	Size	Price
JT33	75 x 75	\$24.36
JT55	125 x 125	\$24.98
JT77	190 x 190	\$34.08
Bends:		
JB	100 x 300	\$21.60
	150 x 300	\$24.30

MICO Pipelines:

PVC culvert pipe, available in 3 and 5 metre lengths

Pipe Length	Pipe Size					
	160mm	200mm	250mm	315mm	400mm	500mm
3m	-	\$199.50	\$237.65	\$500.07	\$784.26	\$1,339
5m	\$248.78	\$328.06	\$382.68	\$808.91	\$1,257.00	\$2,118

Nexus Novaflow - land drainage system and Nexus Novacoil - unpunched, slotted/unslotted.

	Diameter	Length	Price
Pipe low drainage slotted nexus	110mm	15m	\$182.23
&	110mm	30m	\$364.46
Pipe low drainage unslotted coil	110mm	50m	\$607.40
	110mm	100m	\$1,215.00
	160mm	45m	\$1,139.00
	160mm	185m	\$4,682.00

Novaflow - land drainage system and Novacoil – unpunched pipes are low-density drainage, corrugated, slotted and unslotted range.

Coil length	65mm	110mm	160mm
15m	\$98.47	\$132.12	\$275.25
30m	\$196.89	\$264.24	-
45m	-	-	\$825.72
50m	-	-	-
100m	-	\$880.74	-
150m	\$984.53	-	-

Nexus Hi-Way Drain, Heavy Duty

	Diameter	Length	Price
Pipe corrugated high density polyethelene	200mm	5m	\$323.94
Pipe culvert twin walled polyethelene nexus	110mm	5m	\$61.78
	160mm	5m	\$123.56
	200mm	5m	\$200.78

Concrete Culvert Pipes

Hynds Pipe Systems: (Prices ex yard in Whangarei – freight extra)

Inside Diameter: mm, 2.5m long	Price
225 / 300 / 375 / 450	\$99.00 / \$132.70 / \$161.22 / \$249.16
525 / 600 / 675 / 750	\$305.70 / \$348.93 / \$416.72 / \$419.38
825 / 900 / 1050 / 1200	\$530.97 / \$708.84 / \$978.11 / \$1200.00
1350 / 1600 / 1800	\$1339.72 / \$1736.39 / \$2187.79

Backfill Gravel

Canterbury supplier:

	per tonne
Crushed stabilised metal courses SAP 40 to SAP 20	\$11.28 to \$13.88
Crushed metal courses CAP 65 to CAP 20	\$6.84 to \$11.63
Transit crushed metal course AP 65 to AP 20	\$8.32 to \$12.25
Drainage aggregates AP 40/GC 14-10/10-5	\$12.12 / \$22.14 / \$22.14
Isaac ballast / clay	\$17.59 / \$25.42
Pit run	\$5.25
Sealing chip grade2 to grade6 / reject chip	\$22.14 / \$17.86
Concrete sand / fill sand / natural NAP5	\$23.03 / \$19.29 / \$24.19

Aggregate Supply (tip truck delivery)

Higgins Concrete Ltd: (Manawatu area)

Pea Metal	(minimum charge \$60 per load)	\$25.00 per m ³
River Run	(minimum charge \$60 per load)	\$25.00 per m ³
Gap 40 Basecourse	(minimum charge \$75 per load)	\$30.00 per m ³

2.18.17 Dairy Shed Effluent Disposal

See also *Section 2.18.4.*

Ecostream Irrigation:

Typical Effluent Irrigation System for a 300 cow Farm Dairy

System based on the following assumptions

** Effluent pumped from a sump

** Irrigation area of 15 ha of flat land

** Wet weather storage pond 1,000 m³ capacity for 60 days storage

Effluent & Stormwater Diverter 3 Way (manual)	\$700
Wet Weather Pond (excludes retired land & fencing)	\$15,000
Stone Trap & associated pipe and fittings	\$2,100
Sump 25000 c/w pontoon assembly	\$9,000
Electric Effluent Pump 11 kW	\$5,600
Sump Pump Switch 2000	\$1,000
Pump Cable 50 m	\$1,400
Electric Pump Controller	\$3,200
Electrician	\$1,900
Effluent Mainline 700m x 90 dia. MDPE Pipe	\$6,300
Effluent Hydrants	\$2,500
Irrigator Draghose 200 m	\$1,400
Travelling Irrigator	\$4,700
Installation Costs	\$10,500
Total	\$65,300

Annual Operating Cost

Holding pond repairs and maintenance	\$500
Labour for shifting irrigator	\$2,100
Electricity	\$800
Pump & Irrigator repairs and maintenance	\$1,800
Depreciation 10 to 20+ year life	\$3,800
Total	\$9,000

The annual nutrient value of fresh dairy effluent from 300 cows is approximately \$6,000.

All prices exclude GST & Freight

Source: Grant Titchiner, Ecostream Irrigation, February 2010.

2.18.18 Septic Tanks

Concrete

Precast Concrete Products Ltd: (prices ex yard)

3,460 litre	\$1,088.76
4,500 litre	\$1,477.73
4,500 litre combo	\$1,640.68

Note: prices are ex yard and subject to change due to increasing prices of raw materials

Humes: (2008 prices)

CST2700 litre septic tank complete	\$2,369.26
CST3300 septic tank 3300 litre complete	\$2,572.41
Eco Tank round:	
CSE5000 litre Ecotank complete	\$3,817.37
Circular concrete sump range	\$94 to \$1,046.03
Concrete Wingwall range	\$669.23 to \$3,755.25

Claymore Concrete Ltd: Hynds (Prices ex yard in Whangarei) 2008 prices

4,500 litre - 2.4m x 1.25m x 1.6m (includes filter)	\$1,111.25
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Plastic

Devan Group:

Devan Septic 3600 litre	\$2,900
Devan Septic 2100 litre:	\$2,075

2.19 FENCING COSTS

2.19.1 Guide to Fencing Costs

Materials plus Erection Cost for a standard fence

North Island

Morice Ltd: Napier

Cost per metre for a typical 400m North Island sheep and cattle fence - posts 4 metres apart, 7 wires (No.8 bottom, 1 barb, six 12.5G steel) 4 battens per bay.

Total materials	\$ 7.52 per metre
Erection cost	\$6.00 (average) with \$8.00 per metre (steep)

2.19.2 Full Contract Fencing Rates (Sheep)

The following four examples have been kindly supplied by a Canterbury contractor, *Mike Warwick Fencing*.

(i) 300m Standard 8 Wire Fence

Post Spacings 5m, batten spacing 1m

Item	Price per unit	Total price
4 strainers	\$30.40	\$121.60
2 stays	\$23.00	\$46.00
60 posts	\$12.33	\$739.80
240 battens	\$1.50	\$360.00
5 coils of wire	\$89.00	\$445.00
Staples	\$200.00	\$200.00
32 hours labour	\$35 to \$40 average	\$1,280.00
8 hours postdriver	\$80.00	\$640.00
Total fence	\$12.77 per metre	\$3,832.40

(ii) 300m Netting (includes top plain wire)

Item	Price per unit	Total price
4 strainers	\$30.40	\$121.60
2 stays	\$23.00	\$46.00
50 posts	\$12.33	\$616.65
3 coils of netting	\$209.00	\$627.00
1 coil of wire	\$89.00	\$89.00
Staples	\$200.00	\$200.00
24 hours labour	\$35 to \$40	\$960.00
7 hours postdriver	\$80.00	\$560.00
Total fence	10.74 per metre	\$3,220.25

(iii) 300m 8 Wire Fence, Medium Hill Country

Posts 10m spacing, waratahs 1.5m spacing, includes 4 bends

8 strainers	\$30.40	\$243.20
6 stays	\$23.00	\$138.00
180 waratahs	\$7.93	\$1,427.40

36 posts	\$12.33	\$443.88
Staples	\$100.00	\$100.00
5 coils of wire	\$89.00	\$445.00
64 hours of labour	\$35 to \$40 average	\$2,560
10 hours of postdriving	\$80.00	\$800.00
Total fence	\$20.52 per metre	\$6,157.08

(iv) 200m 2 Wire Fence, Medium Hill Country

Posts 10m spacing, waratahs 1.5m spacing, includes 4 bends

2 strainers	\$30.40	\$60.80
20 x ¼round posts	\$6.17	\$123.40
44 Insulators	\$0.56	\$24.64
Bungy gate x 2	\$17.00	\$34.00
10 hours of labour	\$35.00	\$350.00
3 hours of postdriving	\$80.00	\$240.00
Total fence	\$4.16 per metre	\$832.84

Optional extras

4.25 economy gate \$109.00 to \$140.00

Permanent wire strainers \$3.30 each

Joiners wire \$2.40 to \$3.30

2.19.3 Electric Fence

Morice Ltd: Napier

Cost per metre for a typical North Island electric fence - No.3 posts 50 metres apart, 4 wires (3 electrified), eight 1.5 metre ground treated battens at 5 metre intervals between posts.

Total materials \$2.88 per metre

Erection costs \$3.50 to \$4.00 per metre

Canterbury (full contract)

The following two examples have been kindly supplied by a Canterbury contractor, *Mike Warwick Fencing*.

(i) 300m Electric Fence 3 wire

4 strainers	\$30.40	\$121.60
2 stays	\$23.00	\$46.00
28 posts	\$12.33	\$345.24
3 coils of wire	\$89.00	\$267.00
Staples	\$200.00	\$200.00
150 insulators	\$0.56	\$84.00
16 hours labour	\$35 to \$40	\$640.00
5 hours postdriving	\$80.00	\$400.00
Total fence	\$7.02 per metre	\$2,103.84

(ii) 200m Electric Fence 2 wire

2 strainers	\$30.40	\$60.80
20 quarter round posts	\$6.17	\$123.40

44 insulators	\$0.56	\$24.64
Bungy gate x 2	\$17.00	\$34.00
10 hours labour	\$35.00	\$350.00
3 hours postdriving	\$80	\$240.00

(iii) 300m 7 Wire Sheep Fence

7 wire standard spacing (posts 8m apart) - 3 wires electric

4 strainers	\$30.40	\$121.60
2 stays	\$23.00	\$46.00
36 posts	\$12.33	\$443.88
5 coils of wire	\$89.00	\$445.00
Staples	\$150.00	\$150.00
114 insulators	\$0.56	\$63.84
24 hours labour	\$35 to \$40	\$960.00
6 hours postdriver	\$80.00	\$480.00
Total fence	\$9.03 per metre	\$2,710.32

2.19.4 Deer Fencing

Deer Fencing

Canterbury (Full contract)

The following two examples have been kindly supplied by a Canterbury contractor, *Mike Warwick Fencing*.

(i) 400m Deer Boundary Fence

Posts every 5m, strainers every 200m, includes top wire

80 posts	\$23.75	\$1,900.00
3 strainers	\$47.00	\$141.00
3 stays	\$23.00	\$69.00
1 coil of wire	\$81.00	\$81.00
4 rolls of wire netting	\$312.00	\$1,248.00
1 gate	\$303.00	\$215.00
12kg staples, 40mm	\$4.96/kg	\$59.52
Thru post gudgeon	\$16.44	\$16.44
Screw in gudgeon	\$8.44	\$8.44
Gate fastener and staple	\$10.22	\$10.22
40 hours labour (est.)	\$35 to \$40 (average)	\$1,600.00
11 hours postdriver (est.)	\$80.00	\$880.00
Total fence	\$31.15 per metre	\$6,228.62

(ii) 300m Deer A13 Netting

4 strainers	\$47.00	\$188.00
2 stays	\$23.00	\$46.00
3 coils of netting	\$312.00	\$936.00
Staples	\$200.00	\$200.00
42 posts	\$23.75	\$997.50
24 hours labour	\$35 to \$40	\$840.00
6 hours postdriver	\$80.00	\$480.00
Total fence	\$12.30 per metre	\$3,687.50

2.19.5 Wire

(see also Section 2.19.9 Wire Netting)

Goldpine (ex Hurricane):

Barbed wire standard 2.5mm,	75 & 100mm	25kg coil	\$149.95
Reverse twist 1.6mm HTR	100 & 150mm	25kg coil	\$158.95
Lacing wire	2.0mm	5kg	\$54.95
	1.6mm	5kg	\$54.95

PGG Wrightson Ltd:

Flexspan: (mild steel)		\$ per 25kg coil
	4.50 mm (No. 8) 25 kg	\$128.00
Hispan: (high tensile steel)		
	2.50 mm, 25 kg	\$75.12 - \$118.23
	4.00 mm, 25 kg	\$108.00
Barbed:		
Iowa pattern	75 mm spacings	\$140.45
HT RT	100mm spacings	\$179.56

2.19.6 Posts/Strainers/Droppers/Battens/Stays

Note: Price discounts may be possible for bulk orders

Goldpine:

Pointed Intermediate Round Wood		
Half-Round	1.8m x 150	\$7.45
	1.8m x 175	\$9.55
Deer Halves	2.7m x 150	\$12.35
	2.7m x 175	\$14.65
Full Rounds	1.8m x 80	\$6.65
	1.8m x 100	\$10.95
	1.8m x 125	\$12.95
	1.8m x 150	\$15.15
Quarter Rounds	1.8m x 100	\$5.97
	1.8m x 125	\$7.55
Sheep Super Posts (rounded ¼ rounds)	1.8m x 100	\$6.45
	1.8m x 125	\$7.95
Deer Rounds	2.7m x 125	\$22.95
	2.7m x 150	\$28.25
Deer Quarter Rounds	2.7m x 125	\$13.75
Deer Super Posts (rounded ¼ rounds)	2.7m x 100	\$13.25
	2.7m x 125	\$14.95
Strainers –		
Sheep	2.1m x 150	\$20.45
	2.1m x 175	\$22.45
	2.1m x 200	\$26.05
Deer	3.0m x 150	\$34.95
	3.0m x 175	\$41.45
	3.3m x 150	\$37.75

	3.3m x 175	\$43.45
	3.3m x 200	\$54.65
Droppers/Battens –	1.07m x 50 x 40	\$1.45
	1.17m x 50 x 40	\$1.25

Goldpine (ex Hurricane):

Fencing standards Imports	1.5m / 1.65m / 1.8m	\$5.95 / \$6.65 / \$8.35
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Placemakers:

100 x 75mm	1.8 / 2.4 / 2.7 / 3 m	\$8.88 / \$10.21 / \$11.55 / \$14.21 each
100 x 100mm	1.8 / 2.4 / 2.7 / 3 m	\$11.29 / \$13.32 / \$15.99 / \$16.88 each
125 x 75mm	1.8 / 2.4 / 2.7 m	\$10.66 / \$12.44 / \$13.32 each

2.19.7 Gates

Electric Spring/Tape Gates

Gallagher: indicative retail pricing only

Insulgrip handle		\$2.87
Econo gate handle (White)		\$6.44
Gate handle, insulated (orange / white)		\$6.89
Spring gate kit complete with handle and insulator (galvanised / white)		\$18.63/\$20.67
Spring for gate kit (galvanised / white)		\$9.62 / \$12.24
Gate, tape complete with handle and insulator		\$20.53
Gate, bungy kit complete with handle and insulator (3.5m and up to 11m)		\$20.55/\$24.98
Gate activator three way		\$3.54

Beattie Insulators:

Spring gate kit – white – 5 m / 6.5 m		\$12.98/\$14.76
Tape gate kit - 5m		\$18.53
Unbreakable gate handle		\$4.90
Bungy gate kit (3.5 – 6 metre stretch)		\$15.73
Gate tape (white only) 25mm power horse tape x 100m (10 wires)		\$38.48
40mm power horse tape x 100m (15 wires) (white)		\$65.34

Steel

PGG Wrightson Ltd:

Farm Gates:		
Economy	3.05m to 4.88m	\$156.45 to \$200.89
Deer gates: 1.55m high	3.66m long	\$257.34
1.9m high	3.66m long	\$267.56

Goldpine:

Farm Gates		Price
Economy	3.05m to 4.25m	\$129.95 to \$149.95
Cattle	3.05m to 4.25m	\$222.95 to \$266.95
Stock Master	3.66m to 4.25m	\$242.95 to \$256.91
Deer - 1.9m	3.05 to 4.25m	\$230.95 to \$249.95

2.19.8 Cattle Stops

Hynds Rural:

Product Code	Description	Retail
CS1.2MC	Cattle Deterrent – 1200mm x 2200mm	\$685.37
CS1.5MC	Cattle Deterrent – 1500mm x 2200mm	\$832.76
CS1.8MC	Cattle Deterrent – 1800mm x 2200mm	\$988.65
CSHY3.5	Hystop – 3500mm	\$5,263.78
CSHY4.5	Hystop – 4500mm	\$7,873.70

2.19.9 Wire Netting

Placemakers:

Galvanised hexagonal wire netting 900 x 13mm x 20G / 900 x 50 mm x 19G	\$119.99 / \$75.55 per 50m roll
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PGG Wrightson Ltd:

(100m rolls)	
8 line 900 mm high, 150 / 300 mm spacings	\$348.44 / \$200.00
7 line 900 mm high, 150 / 300 mm spacings	\$347.56 / \$192.89
Tightlock Deer (100m rolls)	
16 line 1900mm high, 240mm spacings	\$526.22
13 line 1900mm high, 150 / 300mm spacings	\$477.33 / \$356.44
11 line 1550mm high, 150 / 300mm spacings	\$521.78 / \$367.11
Tightlock Field Fence (100m rolls)	
9 line 900mm high, 300mm spacings	\$419.56
8 line 900mm high, 150 / 300mm spacings	\$348.44 / \$200.00
7 line 900mm high, 150 / 300mm spacings	\$375.11 / \$259.56

Goldpine:

High Tensile 2.5mm Boundary Fence: -		
Stay tight 100m	13 / 190 / 15	\$509.95
	13 / 190 / 30	\$325.95
	11 / 155 / 15	\$459.95
	11 / 155 / 30	\$324.95
	8 / 90 / 30	\$199.95
	8 / 80 / 30	\$199.95
	7 / 90 / 30	\$279.95
Stay tight 200m	6 / 70 / 30	\$369.95
2.5Ht Hi-Performance Wire		\$92.95

Newfield Marketing:

Galvanised sheep netting 1.06m x 50m roll	41 x 41mm mesh	\$319 per roll
Galvanised emu netting 1.7m x 50m roll	41 x 41mm mesh	\$518 per roll

2.19.10 Fencing Tools and Equipment

Straining Equipment

Beattie Insulators:

Plastic black end strainer (25 pack)	\$1.10 each
Porcelain Reel Insulator, 40mm x 40mm (10 pack)	\$0.85 each
High Strain White end insulator (25 pack)	\$1.45 each

TePari Ltd:

Tedmon Netting Strainer	\$49.00
Fencing Claw	\$65.00

PGG Wrightson Ltd:

Hayes wire strainers:	Price per item
Hayes permanent 302 (pack of 25)	\$2.46 each
Wire strainer handle	\$9.33 to \$16.00
Wire strainer chain grab	\$108.44 to \$110.22

Hydraulic Post Drivers

Fairbrother Industries Limited: (King Hitter Post Drivers)

Series I Rancher	Free standing, fixed legs, 3.8m standard beam (205kg).	\$5,320
Series II Deluxe	Free standing, adjustable legs, 3.8m heavy duty beam	\$8,600
rear mounted	205kg, hydraulic top link, hydraulic angular adjustment	
	4.25m, c/w 227kg STR beam	\$9,570
	4.9m c/w 272kg STR beam	\$10,430
Series III Deluxe	Fully hydraulic side shifting, side mounting	\$12,865
side mounted	3.8m adjustable legs, 205kg, heavy duty beam, hydraulic top link, hydraulic angular adjustment and hydraulic side shift	
	4.25m, c/w 227kg STR beam	\$13,930
	4.9m, c/w 270kg STR beam	\$15,370

*Additional options also available

Taege Engineering Ltd: (Ex-Christchurch, add \$360 for freight delivery in Cant Area)

Hydraulic Post Drivers:

Farmers units – 500	1 spool control bank, hydraulic monkey ram,	\$5,878
700	500lb monkey, post clamp, manual angle shift.	\$7,178
Contractors units	4 m mast, twin RHS mast, 600lb monkey, 1/2”	
Light Duty	wire rope, fully adjustable legs, hydraulic top	\$14,320
Contractor	link 250mm stroke, hydraulic angle mast 30 ⁰	\$15,626
Contractor.	angle and hydraulic side shift 200mm movement.	
Optional Extras for Farmer Unit at time of ordering		
	Hydraulic Top Link	\$655 - \$685
	Hydraulic Angle Shift	\$575 - \$615
	Hydraulic Sliding Side Shift	\$1,420
	Hydraulic Easy-Spike Unit 75mm & 90mm	\$3,984 - \$4,192

Hydraulic Fold Down Mast 4.0m & 4.6m	\$1,317 - \$2,093
Optional Extras for Contractor Unit at Time of Ordering	
Hydraulic End Shift 150 mm Movement	\$2,573
Hydraulic Easy-Spike Unit 75mm & 90mm	\$3,984 - \$4,192
Hydraulic Spike Turner	\$2,140
Hydraulic Fold Down Mast 4.0m & 4.6m	\$1,478 – \$1,823
700lb (320kg) and 850lb (385kg) Monkey.	\$312 - \$576
Hydraulic Independent Legs	\$1,259
Heavy Duty Side Mount 600 or 900mm(All Models)	\$4,978

Post Hole Borer

Russell Thomas Chainsaws & Mowers:

Posthole Borer, Single man unit	\$1038
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Fencing Tools

TePari Ltd:

Gudgeon Guide Pack	\$225.00
Fencing Claw	\$65.00

PGG Wrightson Ltd:

Post rammer pipe	\$40.62
AHM spade	\$79.11
AHM Crowbar 1.75m x 32mm	\$105.78
AHM Shovel – long handle round mouth	\$37.69
Sledge hammer – 8lb	\$54.93
Gudgeons lock through post range of sizes	\$14.40 to \$19.91
Gudgeons through post 12mm x 190mm / 16mm x 250mm	\$5.60 / \$9.96
Gate fasteners and Staples	\$8.84
Gate latch, spring loaded	\$19.73
Joint Clamps – range of sizes	\$1.02 to \$1.73

Gallagher: indicative retail pricing only:

Pliers, side cutting	\$93.18
Wire twisting tool	\$8.33

2.19.11 Electric Fence Energisers

Gallagher: indicative retail pricing only

Mains Energisers	MX7500	\$3,410.86
	MR6000	\$2,341.41
	MR5000	\$1,797.19
	MR2500	\$1,259.30
Mains Powered	Powerplus M300	\$393.56
	Powerplus M600	\$702.79
	Powerplus M1200	\$864.24
Battery Powered	B40 – up to 1.5 km multi wire fencing	\$248.73
	B1600 – up to 60 km multi wire fencing	\$1,623.73

Solar Powered	B180 solar kit	\$1,306.20
	B1600 solar kit, 100 watt	\$5,473.22
	Additional Panel for B160 / B1600	\$606.53 to \$1,562.17

Stafix:

Stafix M36 Energiser Remote	\$1721.11
Stafix AN90 Energiser	\$130.03

2.19.12 Insulators

Beattie Insulators:

Wooden post insulators	\$0.35 to \$0.62
Waratah or Y insulators and flat standard insulators*	\$0.36 to \$0.65
Strainer / corner insulators	\$0.85 to \$1.45
Wire Outriggers	\$1.96 to \$2.18
Pigtail outriggers	\$1.55 to \$3.28

*With nuts and bolts for fastening.

Gallagher: indicative retail pricing only

Plastic:	
Super Strain – white	\$1.84
Long Life wooden post	\$0.36
Pinlock wooden post / Y steel post	\$0.50 / \$0.65
Polytape insulator for polytape, up to 40mm	\$1.66
Offsets – pigtail offset 175mm / 400mm	\$3.21 / \$3.42

2.19.13 Electric Fence Reels and Wire

Beattie Insulators:

Fence Reel (unbreakable bobbin)		\$35.09
Livestock Electric Netting – 50 metres		\$199.65
Megawire (white/red stripe)	9 wires, S/S, 200 metres	\$36.44
Megawire (white/red stripe)	9 wires, S/S, 500 metres	\$76.96
Powertape (white)200m	6 wires, S/S,	\$30.64
Powertape (white)400m	6 wires, S/S	\$56.05
Megatape (white/orange stripe)	10 wires, S/S, 200 metres	\$37.46
Megatape (white/orange stripe)	10 wires, S/S, 400 metres	\$69.55

PGG Wrightson Ltd: - Electric Fence Wire

Electric fence Wire, 1.6mm – 10kg	\$69.34
Lacing wire galv, 1.6mm to 2,5mm (rolls of varying lengths)	\$22.58 to \$25.07
Lacing wire, 1.0mm/1.6mm/2mm/2.5mm (500g coil)	\$9.33 to \$20.36

Gallagher: indicative retail pricing only

Strip grazing reels - small	\$52.85
- medium complete with handle and insulgrip	\$79.76
Triple reel system (3 reels prewound polywire mounted on stand)	\$601.06
Reel stand for deer fencing (1 to 4 reels)	\$86.61

Reel stand (1 to 3 reels)	\$63.72
Lead, connector for single reel	\$10.80
Lead, connector for multi reels	\$23.17
Wire and Tape:	
XL wire, aluminium coated high conductive 1000m	\$632.81
Polywire - Ultra white, 6 strand, 200 / 500m	\$27.00 / \$59.13
Turbo Wire - white XL, 9 strand, 200 / 400m	\$55.97 / \$105.81
Polytape - white, 5 strand, 200m	\$44.61
Turbo tape - white, 200 / 400m	\$60.10 / \$119.40
Turbo Rope - 200 / 500m	\$223.36 / \$435.86
Electric Netting - Euronet 50m	\$263.10

2.19.14 Electric Fence Standards / Outriggers

Gallagher: indicative retail pricing only

Tread-in, polymer, multiwire	\$4.38
Heavy duty multiwire tread-in	\$5.14
Extenda-post (heavy duty tread-in with extension)	\$8.05
Pigtail standard (white plastic coated)	\$3.72
Fibreglass:	
Post 1200 x 10mm	\$5.62
Post 1500 x 10mm	\$5.36
Post 2000 x 10mm (white)	\$7.08
Quick Clips 10mm	\$0.60
Pressure Plate (for 10 and 13mm)	\$1.87
Cap driver	\$19.33
Outrigger pointed 10mm diameter x 300mm (White)	\$3.18

2.19.15 Electric Fence Cable

Gallagher: indicative retail pricing only

2.5mm undergate double insulated cable (50m)	\$66.83
Leadout cable, XL high conductive, 100m	\$158.20

Beattie Insulators:

Underground Cable - 2.5 mm x 25 metres(heavy duty)	\$21.72
- 2.5 mm x 50 metres (heavy duty)	\$39.08
- 2.5 mm x 100 metre (heavy duty)	\$76.71
- 2.5 mm x 250 metre (heavy duty)	\$195.42

2.19.16 Electric Fencing Accessories

Gallagher: indicative retail pricing only

Testers -	Neon	\$51.07
	Digital volt meter	\$128.30
Batteries -	Dry cell	\$78.98
	Low loss	\$421.20
Earthing Equipment:	Galvanised joint clamp	\$1.46
	Screw in tie down (galvanised)	\$8.31
	Screw in tie down handle	\$100.63

Earthing stake, galvanised 2m	\$25.77
Earth clamp, galvanised	\$10.18
Gallagher super earth kit	\$165.04

Jenquip Ltd: (prices include delivery)

Electric fence power probe	\$168
Click stop lightning arrestor	\$94.22
Batt-Latch timer to release spring or tape gate at a preset time and day.	\$395

Stafix:

Stafix Lite tester	\$37.90
Stafix digital voltmeter / with earth clip	\$105.56 / \$105.89

2.19.17 Staples

Goldpine:

Barbed	40mm x 5kg	\$39.95
	40mm x 20kg	\$116.95
	50mm x 5kg	\$39.95
	50mm x 20kg	\$109.95

PGG Wrightson Ltd:

Barbed staples	40 x 4.0 (25 kg box)	\$135.12
	50 x 4.0 (25 kg box)	\$140.45

2.20 MACHINERY, IMPLEMENTS and PLANT

Many manufacturers and importers of farm and horticultural machinery do not have fixed price lists. In many instances, especially for larger models, machinery will be imported only when specifically ordered by a client, and the price will be negotiated on an individual basis. Trade-in provisions and financing arrangements, also negotiated on an individual basis, may alter final prices considerably, as will fluctuations in exchange rates.

2.20.1 Vehicles - Average Prices

These are guidelines only - please refer to later sections for details of specific models.

Tractors (see *Section 2.20.3*)

The tractor prices below show price ranges for different sizes (power ratings) but they also indicate the price range for different models/brands (2WD and 4WD).

	Average Price	Range
0 to 21 kW (0 to 29 hp)	\$18,886	\$7,150 to \$26,990
22 to 37 kW (30 to 50 hp)	\$33,101	\$17,990 to \$49,200
38 to 52 kW (51 to 70 hp)	\$45,234	\$28,000 to \$64,344
53 to 75 kW (71 to 100 hp)	\$73,772	\$44,000 to \$118,000
75 to 100 kW (100 to 133 hp)	\$91,427	\$75,290 to \$107,099
Over 100 kW (over 133 hp)	\$220,897	\$140,000 to \$320,000

Farm Bikes (see *Section 2.20.4*)

2 wheel	\$5,686	\$2,929 to \$11,107
4 wheel (2 or 4 WD)	\$12,661	\$6,217 to \$21,329

Trucks and Utilities (see *Section 2.20.15*)

There is a range of models with differing cab/deck arrangements, mostly with a choice of fuel type and 4WD option.

2WD vehicles	\$36,780	\$26,844 to \$52,080
4WD vehicles	\$48,948	\$33,054 to \$106,658

2.20.2 Implements and Plant - Average Prices

Please refer to later sections for details of specific models.

Mowers (see *Section 2.20.5*)

Drum or Disc	\$17,789	\$13,400 to \$27,700
Mower Conditioners	\$59,875	\$40,000 to \$124,000

Hay Rakes and Tedders

(see *Section 2.20.6*)

	\$25,982	\$8,810 to \$56,660
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Hay Balers (see *Section 2.20.6*)

Conventional	\$51,750	\$49,500 to \$54,000
Big balers - Round	\$96,045	\$58,000 to \$179,000
- Square	\$272,500	\$185,000 to \$357,500

Ploughs (see Section 2.20.16)

Depending on the number of furrows and tractor mounting

\$51,775 \$21,000 to \$85,500

Discs (see Section 2.20.16)

\$60,310 \$41,950 to \$78,670

Harrows (see Section 2.20.16)

\$2,209 \$295 to \$6,520

Power Harrows (see Section 2.20.16)

\$47,354 \$18,700 to \$179,000

Rollers (see Section 2.20.16)

Heavy rollers

\$20,267 \$15,000 to \$28,000

Cambridge rollers

\$20,282 \$5,995 to \$37,500

Drills (see Section 2.20.17)

\$33,320 \$10,995 to \$153,920

2.20.3 Tractors

As most manufacturers express tractor power in horsepower (hp) rather than kW, that description has been used in this manual. 1 hp = .7475 kW, ie a 100 hp tractor = 74.6 kW tractor. Readers also need to be aware that tractor power may be expressed as maximum PTO power or as engine power usually to DIN 70020 standard. For further explanation see the companion volume; Farm Technical Manual.

Power Farming:

<i>Daedong:</i>		
31 to 50hp 4WD ROPs		\$20,000 to \$33,990
51 to 65hp 4WD ROPs		\$35,990 to \$49,000
75 to 90hp 4WD ROPs		\$44,000 to \$49,000
75 to 90hp 4WD CAB		\$49,000 to \$65,000
<i>Iseki</i>		
31 to 50hp 4WD		\$17,990 to \$39,900
51 to 60hp 4WD		\$39,900 to \$44,990
<i>Landini:</i>		
70 hp ROPs only		4WD \$47,000
85 hp ROPs CAB		\$62,000
80 to 100 hp		\$75,000 to \$84,000
<i>McCormick:</i>		
81 to 100hp CAB		\$80,000 to \$118,000
81 to 100hp ROPS		\$67,000 to \$78,000
Over 100hp CAB		\$91,000 to \$207,000

Drummond & Etheridge Ltd - John Deere tractors:

Model	2WD	4WD
5000 Series 55 to 100 hp	From \$28,000	\$32,000 to \$70,000
5000 Series (European) 80 to 100 hp	-	\$70,000 to \$85,000
6030 Standard Series 83 to 155 hp		\$84,000 to \$140,000
6030 Series 95 to 175 hp	-	\$100,000 to \$195,000

7030 Series 140 to 200 hp	-	\$140,000 to \$235,000
8000R Series 225 to 345 hp	-	\$195,000 to \$320,000

Kubota: (C.B. Norwood)

Lifestyle Series

T1880	18hp	\$7,150
GR2100	21hp	\$19,990

Commercial Garden and Mowing Tractors:

ZD 60" – 72"		\$24,900 to \$30,750
G21HD		\$22,500
F1900 Tractor only	4WD	\$17,800
F3680 Tractor only	4WD	\$34,400

Compact Tractors and Optional Mid Mowers:

B2630/B3030	4WD	Ag/turf tyres	\$26,990/\$27,500
STV40HST	4WD	Ag/turf tyres	\$34,500

L Series Tractors:

L3540	4WD	Ag/turf tyres	\$33,400	
L4240	4WD	Ag/turf tyres	\$40,130	
LA4240 frnt end loader	4WD	cab	Ag/turf tyres	\$49,200
L5240	4WD	Ag/turf tyres	\$44,050	
L5740/ with cab	4WD	Ag/turf tyres	\$58,950	

M Series:

MX5100			\$43,500
M6040	4WD	Ag tyres	\$47,950
M7040 / with cab	2WD		\$46,290 / \$56,490
M7040 / with cab	4WD	Ag tyres	\$52,250 / \$64,050
M8540 / with cab	4WD	Ag tyres	\$63,850 to \$74,900
M9540 / with cab	4WD	Ag tyres	\$67,050 / \$79,500
M105S / with cab	4WD	Ag tyres	\$75,290 / \$83,550
M95X cw cab	4WD	Ag tyres	\$87,750
M105X cw cab	4WD	Ag tyres	\$93,100
M125X cw cab	4WD	Ag tyres	\$102,200

New Holland: (C.B. Norwood)

Utility and Special Tractors:

T4000F Series	74 to 92 hp	\$74,298 to \$97,792
T4000N Series	76 to 92 hp	\$68,000 to \$84,136
T4000V Series	59 to 92 hp	\$54,218 to \$76,800
T4000D Series	73 to 76 hp	\$78,000 to \$90,750
TDD Series	59 to 89 hp	\$64,344 to \$83,987
T5000 Series	82 to 100 hp	\$87,630 to \$109,241

High hp Tractors:

T6000 Series – 4WD	101 to 165 hp	\$107,099 to \$189,000
T7000 Series	137 to 192 hp	\$202,000 to \$246,000
T8000 Series	209 to 283 hp	\$261,767 to \$320,000

2.20.4 Farm Bikes, Bike Trailers and Accessories.

Blue Wing Honda

ATVs:

TRX500FA9	auto	500cc	Fully automatic hydro mechanical,	\$15,555
TRX500FPE9	man	500cc	Power steering, ES push-button auto shift	\$14,932
TRX500FM9	man	500cc	Rigid beam rear axle	\$14,221
TRX420FPM9	4wd	420cc	Power steering, manual, rigid beam axle, 5 spd	\$12,977
TRX250TM9	2wd	250cc		\$7,999

Motor Cycles:

CTX200	2 wheeler	200cc	Road registerable. 14.4hp	\$4,888
CT110	2 wheeler	110cc	Road registerable	\$3,999

MUV:

Big red	680cc			\$26,666
Big Red MUV ER	680cc	Lcd dash, windscreen, fabric roof, tow bar kit		\$29,777

Kawasaki: (Norjo Motorcycles.)

ATVs:

KLF300C		2 x 4		\$7,240
KLF 300C		4 x 4		\$8,440
KVF 650A Prairie		4 x 4		\$12,707
KAF 600 Mule		2 x 4		\$11,551
KAF 610 Mule		4 x 4		\$13,329
KAF 620 Mule 4010 p/s		4 x 4		\$16,440
KAF 620A Mule 4010 Diesel p/s		4 x 4		\$19,996
KAF950 Trans Diesel p/s		4 x 4		\$21,329
KRF750 Treyx		2 x 4/4 x 4		\$16,884
KSF450 Sport		2 x 4		\$10,660

Motorbikes (2 wheelers):

KLX110		4 stroke		\$2,929
KLX140 Small Wheel		4 stroke		\$4,084
KLX140 Big Wheel		4 stroke		\$5,329
KLX250 s Road Legal		4 stroke		\$7,818
KL250 Stockman		4 stroke		\$7,018
KLX450		4 stroke		\$11,107

Suzuki New Zealand:

Model	Engine	Drive	Capacity	Transmission	Price
TF125 Mudbug	2 stroke	-	123cc	6 speed	\$3,196
DR200SEL0 Trojan	4 stroke	-	199cc	5 speed	\$5,329
DR-Z250K7	4 stroke	-	249cc	6 speed	\$6,844
ATV	Engine	Drive	Capacity	Transmission	Price
LT-F160K7	4 stroke	2WD	158cc	5-speed/reverse	\$6,217
LT-F250K8 Ozark	4 stroke	2WD	246cc	5-speed/reverse	\$7,551
LT-F300FK4	4 stroke	2WD/4WD	280cc	5-speed, multi range	\$7,995
KingQuad 300					
LT-F400K8	4 stroke	2WD	376cc	5-speed, dual range	\$9,769
KingQuad 400 2WD					

LT-A400FK9 KingQuad 400	4 stroke	2WD/4WD	376cc	Auto, dual range	\$12,000
LT-F400FK9 KingQuad 400	4 stroke	2WD/4WD	376cc	5-speed, dual range	\$11,644
LT-A450XK9 KingQuad 450	4 stroke	2WD/4WD	454cc	Auto, dual range	\$13,778
LT-A500XP9 KingQuad 500	4 stroke	2WD/4WD	493cc	Auto, dual range	\$15,107
LT-A750XK9 KingQuad 750	4 stroke	2WD/4WD	722cc	Auto, dual range	\$15,551

Farm ATV Trailers and Stock Crates

Smith Attachments: (6 standard models available, also made to order. Prices subject to change)

1200 x 900mm	- Trailer - deck: mesh	\$1,236
	- Stock crate – door: swing	\$503
1500 x 1100mm	- Trailer - deck: mesh	\$1,374
	- Stock crate – door: sliding	\$560
1500 x 1100mm	- Trailer - ply deck	\$1,169
	- Stock crate – door: sliding	\$560
1800 x 1200 mm	- Trailer - deck: mesh	\$1,689
	- Stock crate – door: sliding / swing	\$657 / \$712
2400 x 1200mm (tandem)	- Calf trailer - mesh	\$2,755
	- Stock crate, door sliding / swing doors	\$712 / \$765
3000 x 1500mm (4-wheels)	- Calf trailer - mesh	\$3,182
	- Stock crate, centre divider, 2 sliding doors	\$1,351

All trailers have ATV 4-ply tyres on 4-stud hubs with Taper Roller bearings, ball coupling, hot-dip galvanised steel construction, and freight paid to nearest depot in South Island.

Farm Bike Accessories

Smith Attachments Ltd: (Honda, Suzuki, Yamaha, Kawasaki, Polaris)

Prices subject to change.

ATV 4 Wheeler accessories		Motorcycle Accessories	
Bullbar kits	from \$400	Carriers	from \$160
Mudflap kits	from \$104	Handlebar protectors	from \$102

2.20.5 Mowers and Toppers

Fosters Outdoor Power Equipment Ltd

Rider Mowers (Countax) 30” – 50”	\$6,133 to \$12,444
Ride on Mowers (Cub Cadet) 42” – 60”	\$4,444 to \$16,000
Ride on Mowers (Grillo) 34” to 60”	\$5,333 to \$31,111

Giltrap Engineering:

(prices include freight to dealers yard North (NI) and South (SI) Island).

Pasture Toppers:		NI	SI
LS1200 3 blade topper – 1.20m cut – for up to 40 hp tractors		\$2,500	\$2,850
LS1500 3 blade topper – 1.50m cut – for up to 40 hp tractors		\$2,800	\$3,150

TM1500	4 blade Lo-Speed topper - 1.50m cut	\$5,100	\$5,450
TM2300	Twin rotor 4 blade topper - 2.30m cut	\$9,950	\$10,350
TM2700	Twin rotor 4 blade topper - 2.70m cut	\$10,400	\$10,850
TM3000	Twin rotor 4 blade topper - 3.0m cut (fixed one piece body)	\$11,600	\$12,150

Claas: (Landpower NZ Ltd)

Disco Mowers (6 to 8 disc)	2.45m to 3.4m	\$13,400 to \$27,700
Jaguar 8500C self propelled mower	8.5m	POA

Taarup: (Power Farming)

TA 2424	6 disc mower 2.4m cut std drive	>45 hp	\$15,650
TA 2428	7 disc mower 2.8m cut std drive	>50 hp	\$16,900
TA 2432	8 disc mower 3.2m cut std drive	>55 hp	\$18,500

Trimax:

Flail Mowers	Cutting width	Standard
Ezeemow (orchard and parks)	1.34 to 1.83 m	\$4,750 to \$6,990
Warlord	1.44m to 2.34m	\$8,350 to \$11,990
FlailDek (Parks)	1.36m to 1.83 m	\$6,150 to \$8,490
Rotary Mowers		
Pegasus (wide area)	4.93m to 6.1 m	\$45,000 to \$54,990
Stealth wing roller mower	3.42m	\$20,990 to \$22,990
Procut (orchard and parks)	1.38 to 3m single roller	\$8,120 to \$11,990
	1.74 to 2.89m double roller	\$8,640 to \$12,990

Tulloch: (2008 prices)

KRONE AM 323S 3.2 m rear disc mounted hay mower	\$17,900
KRONE AM 283S 2.8 m rear disc mounted hay mower	\$15,600
KRONE AM 243S 2.4 m rear disc mounted hay mower	\$13,300
KRONE EasyCut32 front mower	\$26,700
KRONE EasyCut 9140CV triple mowers	\$123,030
KRONE BIG M self propelled mower	\$466,100

Vicon: (Power Farming)

VI CM 247H	6 disc 2.4m cut, 3 blades per disc	>46 hp	\$13,900
VI DMP 2400	6 disc 2.4m cut, 3 blades per disc	>50 hp	\$16,650
VI DMP 2800	8 disc 2.8m cut, 3 blades per disc	>55 hp	\$17,900
VI DMP 3200	8 disc 3.2m cut, 3 blades per disc	>60 hp	\$19,500
VI DMP 4000	10 disc 4.0m cut, 3 blades per disc	>80 hp	POA

Mower Conditioners

Claas: (Landpower NZ Ltd)

Disco mower conditioners (7 disc)	2.6m to 3.0m	\$45,000 to \$55,000
Disco front mounted mower conditioner	3.0m	\$40,000
Disco mower conditioners (2 to 8 mower units)	8.5m	\$66,000 to \$124,000

Drummond & Etheridge Ltd:(John Deere)

1365 Mower Conditioner	\$42,000
730 Centre Pivot Mower Conditioner	\$52,000
735 Centre Pivot Mower Conditioner	\$55,000
Grouper	\$13,000 to \$16,000

Taarup: (Power Farming)

TA 3532 F	3.2m 8 disc front mounted moco	>80 hp	\$37,600
TA 4232 LT	3.2m 8 disc trailing moco	>80 hp	\$56,000
TA 4232 LT	3.2m 8disc trailing moco with centre pivot drawbar	>80 hp	\$60,000

Tulloch: (2008 prices)

KRONE EasyCut 320CV mounted mower conditioner 3.2m	\$31,000
KRONE EasyCut2800CRi roller-conditioner	\$46,800
KRONE EasyCut 3200CV trailed mower conditioner 3.2m	\$47,550
KRONE AMT5000CV – trailed mower conditioners	\$89,900

2.20.6 Hay Making Equipment

Hay Rakes and Tedders

Kuhn: (Kuhn New Zealand)

Kuhn Gyrotedders

GF 5001 T / GF 5001 THA	\$12,900 / \$14,340
GF5001 MH/GF5801 MH/GF6401 MH/GF7601 MH	\$15,790/\$24,770/\$24,430/\$32,300
GF 6401 T / GF 8501 T	\$30,740 / \$40,500
GF 6401 MHO / GF 7601 MHO	\$27,700 / \$35,030

Kuhn Gyrorakes

GA 300 GM / GA 4121 GM	\$8,810/ \$16,045
GA 4521 GM c/w bogie axle	\$25,985
GA 6501 c/w directional steering kit	\$45,245
GA 7301 GM	\$44,090
3D kit only	\$5,450
Bogie Kits (GA300)/(GA4121 & GA7301 each)	\$1,250/\$1,675
Kuhn Combination Rake / Tedder GRS 25 N	\$16,230

Vicon: (Power Farming)

Combination Rake / Tedders:

VI Haybob300	3.0 m, centre	>15 hp	\$9,250
VI HS360	3.6 m, side	>20 hp	\$12,500

Tedders:

Fanex 523 / 553 hydraulic fold	5.2m / 5.5m	>20 hp	\$15,900/\$20,950
Fanex 763 hydraulic fold, heavy	6.8m / 7.6m	>30/35 hp	\$26,600

Rakes:

Andex 423 / 463	4.2m/4.5m	Single rotor rakes	\$19,500 / \$21,900
Andex 633	6.3m	Twin rotor rake	\$32,690
Andex 783 / 843	7.8m to 8.4m	Twin rotor rake	\$44,690 / \$56,660

Tulloch: (2008 prices)

Fransgard TI- 4000 to 6000 mounted or trailed hay rake	\$12,100 to \$20,700
Krone Swadro windrowers	\$40,450 to \$121,400
Krone KW 4.62 to 15.02 rotary or trailed tedders	\$14,900 to \$63,150

Big Balers – Round

Drummond & Etheridge (John Deere):

854 Baler	\$58,000
864 Baler precutter net wrapping	\$65,000 to \$80,000
578 Fixed chamber baler	\$75,000
678 Baler / Wrapper combo	\$140,000

Landpower NZ Ltd:

R 355 UW	Rollant Uni Wrap	\$179,000
R 355RC	Rollant 355 Rotocut	\$89,000
V385RC	Variant Rotocut Cut Baler	\$97,000

Vicon: (Power Farming)

Variable Chamber Balers:

VI-RV 2160-OC	1.2 x 1.6m variable chamber ‘chopper’	>80 hp	\$92,500
VI-RV 2190-OC	1.2 x 1.9m variable chamber ‘chopper’	>80 hp	\$97,500

New Holland: (C.B. Norwood)

Roll-belt balers – 7000 Series	from \$83,500
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Tulloch: (2008 prices)

Gehl RB2580 SS round baler	\$65,050
KRONE 1500 to 1800 round balers	\$69,450 to \$78,650
KRONE Combi Pack 1500 V	\$126,800

Big Balers - Square

Claas: (Landpower NZ Ltd)

Quadrant 3200	Rotocut medium square baler	\$275,000
Quadrant 3400	Rotocut large square baler	\$357,500

New Holland: (C.B. Norwood)

BB9000 Series	from \$185,500
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Tulloch: (2008 prices)

KRONE BiGPack 890 baler	from \$173,650
KRONE BiGPack 1270 baler	from \$194,700

Conventional Balers

Claas: (Landpower N.Z. Ltd.)

M65Markant - conventional baler 65	\$54,000
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New Holland: (C.B. Norwood)

5060 Conventional Baler	\$49,500
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Bale Wrappers

Kverneland Taarup: (Power Farming)

TA-7520C Tractor or baler trailing wrapper for round bales:	\$41,500
TA- 7640C-3D Fully automatic wrapper, twin satellite, 3D wrapping	\$68,000
TA-7664 Big bale wrapper- trailed offset big bale wrapper for square and round balers, twin satellite	\$114,000

Tulloch: (2008 prices)

Pronovost P-6300 round bale silage tubing machine	\$39,550
Pronovost P-6302 square bale silage tubing machine	\$49,800
Pronovost P-6808 round handler	POA

Baling Twine

Agpac Ltd:

2 ball pack	\$104.50
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Hay Handling Equipment

Aitchison / Reese:

Heli-Wrapper 1.5 round bale wrapper (including variable speed drive)	\$20,995
RH2200 bale handler – handles round/square bales	\$2,595
RS 280 Multi Stacker – 3 point linkage. Lifts 1250kg up to 2.8m high	\$3,595
Udy Fork/Bale Feeder – Round bale fork set	\$1,150

Giltrap Engineering:

(prices include freight to dealers' yards in North (NI) and South (SI) Island).

DML Bale Feeder 3 PTL	NI \$8,300 to SI \$8,700
DML Bale Feeder 2 Bale Trailing	NI \$14,900 to SI \$15,650

Quinn Engineering Ltd:

Big bale clamp - 3 point linkage models	\$3,450 / \$3,250
3 pt unit + D/A cyl, unrolling cones or Tipping Rails fitted	\$2,900
Gate arms to fit (above)	\$750 per pair
F.E.L. Frame to fit (above)	\$650
Big bale forks -forged tines 3pt linkage <u>OR</u> F.E.L. Brackets fitted	
3pt linkage single bale spike 1200mm long	\$950
3pt linkage two bale spikes 1200mm long	\$1,250
Big bale tine - 2" solid bale spike with sleeve ready to fit into a frame	\$200
Silage forks 5 tine / 7 tine / 9 tine / 11 tine forks (welded tines)	\$1,250 / \$1,400 / \$1,600 / \$1,800
Silage forks 5 tine / 7 tine / 9 tine / 11 tine forks (forged tines)	\$1,700 / \$1,850 / \$2,000 / \$2,200
Silage grab 4 to 7 tine, incl grab, brackets, ram(s), hose kit	\$1,900 to \$3,200

Pearson Engineering Ltd:

Silage forks	1.3 m to 1.8 m wide, 7 to 11 tine	\$1,500 to \$2,400
Big bale/Silage combo fork	1.3 m to 1.6 m wide, 7 or 9 tine	\$1,915/\$2,640
Big bale fork	1.3 m wide, 2 tine	\$1,200 to \$1,275
Silage grab	1.2 m to 1.8 m wide, 7 to 11 tine	\$3,540 to \$5,435
Silage shear grab	1.2m to 1.76 wide, .62 to .90m ³	\$6,375 to \$7,698
Wrapped bale clamp	Standard/standard + heavy duty arms	\$3,055 to \$3,600

Clough Agriculture Ltd: (2008 prices)

Duncan Ag Balefeeders

3 point linkage	\$9,300
2 bale trailing – standard wheels	\$14,200

Tractor Forks

Millars Machinery Ltd: Leeston:

Tractor Front and Rear Forks		
500kg front fork / 500kg (no mount brackets)		\$3,350 / \$2,470
1,000kg front double lifter /1,000kg (no mount brackets)		\$6,490 / \$5,460
3 ptl fork 500kg / 1,000kg		\$1,480 / \$1,880

2.20.7 Spray Equipment

GPS Units

Tracmap:

TM333	Entry unit, suited to fertilizer spreading and tractor work	\$2,995
TM334	Able to download job maps to USB stick for printing/uploading	\$3,950
TM335	Powerful processor, exporting abilities, uses mapping software	\$6,950
TM344	Instant farm display on the move. Useful for irrigation shifts.	\$5,950
TMi24	Travelling/tracking Irrigator Management, shuts pump at problems	\$3,995
TMi27	auto warning to cellphone	\$4,495
TMi28	auto tracking to Tracmap system	\$4,495

Power Farming:

Orchard Sprayers:

Linkage hydraulic orchard sprayers, 300 to 600 litre	\$3,495 to \$4,395
400 litre EXPO c/w 600 fan and APS51 pump	\$8,195
600 litre EXPO c/w 800 fan and APS96 pump	\$9,795
Trailed airblast sprayer, 2000 litre, 800 SV fan, electric controls	\$21,695
Trailed airblast sprayer, 2000 litre, 900 SV fan, electric controls	\$22,495
Multi duct airblast sprayer, 2000 litre, 920 SVT fan, electric controls	\$24,895
Turbomiser 400/600 litre, linkage sprayer	\$8,895 to \$12,895
Airdrop G4 2000 litre trailed sprayer c/w spray controller	\$42,995

Agricultural Sprayers:

Expo Pak 600 litre comes with comet pump	from \$4,395
Expo Pak 800 litre comes with comet pump	from \$5,995
Midi Sled 600 / Maxi Sled 1150	from \$2,395 / \$3,395
Midmount broadacre sled sprayer, 1000 litre, 10m / 12m	from \$9,185
6m / 8m BDL boom	\$1,675 / \$2,095

Expo Professional Sprayers 600 to 1000 litre tank and comet pump	\$5,395 to \$8,395
Expo Pak 600 litre 41rpm pump,6m boom, 30m hose, Reel & gun	\$6,645

Booms:

Agri-Boom 3m to 4.5m range, incl mounting brackets and hoses	\$735 to \$795
Expo Booms 6m to 12m range, folds horizontally	\$1,675 to \$3,895
Vine Boom 5 x 5 x 2 or 4 x 4 cluster	\$845
Sprayrite Hydraulic Fold Boom 6m to 15m range	\$3,595 to \$9,995
Sprayrite 18m MEC Boom, 5 section, hydraulic folding	POA

Monitors:

Farmscan Hectaremetre 1100 and 2000	\$695 to \$1,099
Farmscan surveillance monitor c/w wheel sensor	\$1,795
Farmscan Litremetre	\$695
Farmscan Bazooka Batchmetre c/w remote readout	\$1,695
Farmscan spray controller	from \$4,995
Farmscan Jackal monitor	from \$895

General:

Spot Pak self contained spraying units 20 to 200 litre	\$455 to \$795
Lightfoot trailed sprayers for ATVs & ride on lawn mowers 200 litre	\$3,195

Croplands Equipment Ltd:

Agripak series - Linkage Sprayers

Agpak 500	Complete package, 500 litre linkage sprayer, AR70 pump, 6 m boom, hose reel c/w 30 m 10 mm hose and turbo 400 pistol	\$5,243
Agpak 700	Complete as above with 700 l linkage sprayer& 10m boom.	\$6,670

Ute Pak Series - non motorised

US 30 - US 200	30 litre / 200 litre, 12 volt ute pack	\$455/\$850
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Ute Pak Series – motorised

US 200 19 PE	200 litre, 4.0 hp petrol	\$3,902
US 400 - US 500 - 30 PE	400 to 500 litre, 5.5 hp petrol	\$4,405 to \$5,494

Utility Trailed sprayers

UA 300 -12v / UA 300 -19 PE	300 litre 12 v pump, 4 m boom / 300 l AR 19	\$3,668 to \$5,373
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ATV Bike sprayer

UM 70 series	70 litre tank, 12 volt pump c/w reg kit, 6 m hose, adjustable lance, 3 / 4 metre boom	\$1,830 to \$1,912
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Foam marking systems

ARAG & RHS	Pressure marking system single / double side 12 metre hose and droppers	\$699 to \$4,117
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Polyethylene tanks

30 litre foam tank	\$159
70 litre bike tank	\$250
120 to 450 litre tanks	\$250 to \$621
500 to 1000 litre three point linkage tanks	\$682 to \$1,364
1000 to 4000 litre tanks	\$1,591 to \$3,335

Linkage booms		
CFB Series	3 m to 12 m boom, 6 to 24 nozzles	\$764 to \$2,860
	12 metre Hydralink boom, 24 nozzles, self levelling	\$9,710

AES (Ag Equipment Specialists Ltd):

Sprayers - motorised

AES Petrol powered 20 to 53 litres per minute	\$1,795 to \$4,950
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Spraying Accessories

Spray Booms 4.5 and 6 m complete with nozzles	\$695 to \$895
Hose Reels 100 mm and 150 mm	\$275 to \$295
Spray Hose 10 mm ID	\$2.75 per m
Spray Guns	\$120 to \$125

Bertolini

Three point linkage sprayers:

Econo Series	
400L tank 6m boom 40 lpm/580 psi diaphragm pump 20m10mm 600 psi hose spraygun driveshaft jet agitation/ optional fresh water tank	\$4,396
650 litre tank	\$4,860
Proline Series	
400L 6m boom 55 lpm diaphragm pump 30m 10mm 600psi hose, 3 tap control spraygun driveshaft jet agitation fresh water tank (BA 001 and BA 005)factory tested	\$5,830
650L 6m boom 55 lpm	\$6,300
650L 8m boom 55 lpm	\$6,668
1,000L 70 lpm pump	\$7,746
1,000L 70 lpm pump 8m boom	\$8,179

Three point linkage Pasture Pack – Field Sprayer

1,000L 3ptl tank+frame,10L fresh water tank, Poli pump, K boom, in cab ctrl 124 lpm,220psi TeeJet 744, 9.6m boom, twinjet nozzles-381mm spacing	\$14,690
124 lpm,220psi TeeJet 744, 10m boom, DG nozzles-500mm spacing	\$15,100
124 lpm,220psi TeeJet 744, 12m boom, DG nozzles-500mm spacing	\$15,516

Optional Factory Fitted Extras

TeeJet ball valves, bank of 3	No longer available
TeeJet Computer ctrl, 3 section	\$3,350
Manifold and dump valve	\$995
Hydraulic boom lift / boom suspension	\$2,748 / \$995
Fresh water flushing tank	\$465
Bertolini foam marker	\$1,495

Agripower Ltd:

Hand operated sprayers

Backpack lever operated sprayers, 15 / 20 litre	\$199 / \$245
Compression sprayers, 1.5 / 5 / 8 litre	\$26.50 / \$110 / \$115
Lawnboy sprayer	\$240
Sionopower sprayer	\$25 to \$49

12V Sprayers

Hardi Swift compact sprayers, 25 / 50 / 100 litre	\$395 to \$620
Hardi Swift compact sprayers with 60S Gun	\$595 to \$725
Hardi Professional sprayers, 100 / 250 / 300 litre	\$750 to \$1,135

Hardi NL Mini

400 litre polyethylene tank. Lift mounted. Udor 33 litre per minute diaphragm pump with PTO shaft. Single SNAP-FIT with Non-drip valves. Manual control unit. Manually folded Hardi ATV boom with break-away.

3 metre / 8 metre boom	\$3,349/ \$3,449
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Hardi NL Sprayers

Integrated steel chassis and tank design. Udor diaphragm pump (580 psi) with PTO shaft. Pressure regulation, gauge and bypass control. 2-way boom distribution. Snap fit, non-drip nozzles.

Tank (L)	Pump (L per min)	Boom (metre)	Price
400	53	6 / 8	\$3,605 / \$3,970
600	53	6 / 8	\$4,205 / \$4,570
	75	10	\$5,355
800	53	6 / 8	\$5,175 / \$5,535
	75	8 / 10	\$6,030 / \$6,325
1000	75	6 / 8 / 10	\$7,230 / \$7,595 / \$7,885

Amazone: (Landpower NZ Ltd)

UG3000	Trailed sprayer with 24 m Super S boom	\$100,000
UF1800	3 point linkage sprayer with Super S boom	\$69,000

Handgun Sprayers/Wet Booms

AES (Ag Equipment Specialists Ltd):

Hurricane spray pack, including 250/500 litre spray tank, tractor driven, 17 to 75 litres per minute, hose and gun	\$2,520 to \$3,695
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C-DAX Systems Ltd.:

ATV Mounted, Deck Mounted and Trailed Sprayers

ATV Mounted sprayers, complete with 10m of 8.5mm hose, handgun, on/off switch, 12 volt pump, wiring loom, tie-down straps and hose clips.

front/front or rear/rear mount 50 / 80 litre	\$1,145/ \$1,215
Additional front or rear tanks 50 / 80 litre	\$632 / \$678

Pressure Nozzle Booms for ATVs:

- Budget Boom 4.5m	\$495 to \$720
Vertical fold booms - 3m to 4m, complete with breakaway	\$597 to \$925
- Quick-Smart vertical fold boom	

CDA Booms for ATVs:

Low volume CDA boom	
Two to four CDA atomiser boom 3.6m to 7.2m coverage	\$1,715 to \$3,265

Weed Wiper:

ATV trailed 'Eliminator' weed wiper with electronic control 2.35m coverage	\$2,100
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Deck or trailed sprayers, include 10m hose and gun, spot spray. 12 volt pump:

SO200 spot sprayers – 200 litre, deck/trailed, 12 volt	\$1,295 to \$2,795
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400 litre spot sprayer, deck/trailed	\$1,650 to \$3,360
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Engine driven deck or trailed sprayers:

400 litre Engine driven units	\$4,285 to \$6,175
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Accessories

Hose Reels, 25m to 100m, manual wind	\$259 to \$439
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Hose 580 psi - 8.5 mm / 10mm / 13 mm	\$3.65 / \$5.50 / \$7.60 per m
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- 19.0 mm / 25mm, 580 psi	\$13.75/ \$31.06 per m
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Spray guns, lance style/pistol style	\$55.00 to \$215.00
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Foam markers, single foam / double foam	\$1,160 / \$1,615
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Knapsack Sprayers

Croplands Equipment Ltd.:

Plastic knapsack 15 litre	\$204.00
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Pump up sprayers 3 litre / 6 litre	\$90.00 / \$105.00
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White Star Products:

"Fynspray" WS 75 high pressure plastic knapsack sprayer	\$250.00
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"Fynspray" WS 75V Hi pressure sprayer with Viton "o" rings	\$277.00
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Power Farming: (Sprayrite)

Knapsack Sprayer 15.8 litre	\$110
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Greenhouse Sprayers

Kanters Engineering & Machinery Ltd.:

Low volume mist sprayer - fully automatic	\$3,850
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- deluxe model, pneumatic adjustable height	\$4,350
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Hand Held Sprayers

C-Dax Systems Ltd.:

Low volume hand held sprayers:

6 volt low volume CDA band sprayer, 0.1m to 0.5m spray width	\$399
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White Star Products:

Fynspray Spray Pumps:

WS 21 Orbit double action pump	\$70.15
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WS 23 Sprite double action pump	\$101.20
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WS 23K Jerry can conversion kit	\$26.45
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Wheelbarrow Sprayers

Power Farming: (Sprayrite)

Wheelbarrow Sprayers, 125litre, 284psi, spray gun and hose	\$2,195 to \$2,895
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2.20.8 Tractor Transport Trays

Giltrap Engineering:

(prices include freight to dealers' yards in North (NI) and South (SI) Islands).

Speedy Hitch Transport Trays 2.13 m x 1.37 m	Tray only	Complete	
	NI \$1,470 SI \$1,720	NI \$1,850	SI \$2,100

2.20.9 Frontend Loaders/Forklifts

Pearson Engineering Ltd.:

Front-end Loaders	Bucket Size	Price
Natty	1.2 m x 0.9 m	\$9,341
2005	1.2 m x 0.9 m	\$9,278
2405/2708	1.2 m x 1.0 m	\$8,899 to \$10,066
WL3111	1.2 m x 1.2 m	\$10,129 to \$12,006
WL3218	1.5 m x 1.3 m	\$12,710 to \$14,300
WL3518	1.5 m x 1.3 m	\$12,925 to \$ 14,820

Front-end Loaders 20 Series

20-31	1.5 m x 1.3 m	\$13,016 to \$16,321
20-34	1.5 m x 1.3 m	\$16,210 to \$19,515
20-36	1.8 m x 1.3 m	\$16,530 to \$19,835
20-39	2.1 m x 1.3 m	\$17,195 to \$20,500
20-42	2.1 m x 1.5 m	\$18,920 to \$22,225
20-46sl (self level only)	2.1 m x 1.5 m	\$28,160 to \$29,395

Front-end Loader Buckets and Implements:

Buckets	1.2 to 2.1m wide x .9m to 1.7m shell	\$948 to \$2,555
4 in 1 buckets	1.2 m to 1.8 m wide	\$5,997 to \$6,675
Auger bucket	1.2 cubic metre capacity	\$8,230
Fine chop silage teeth	1.2 m to 2.1 m wide	\$522 to \$848
Implement back plates	Single or twin crowd	\$230
Manual quick hitch		\$1,265
Pallet fork, fixed/adjustable	1000 kg/1500 kg	\$1,107o \$1,915
Log fork, standard	1.5 m (700 mm tines)	\$1,645 to \$3,240
Fence Post Clamp		\$4,420
Bull blade	1.8 m wide/2.1 m wide	\$1,314/\$1,473
Bull blade/Root rake	1.8 m wide/2.1 m wide	\$2,060/\$2,135

Landpower NZ Ltd:

J.C.B Loadalls (telescopic handlers)

526 'S'	4WD	4WS	\$109,500
531-70 AS	4WD	4WS	\$134,450

Telehandlers: (Gough, Gough and Hamer Ltd)

	Machine	Operating weight (kg)	Engine	hp / kW	
Caterpillar	TH220	6700	Cat 3054E	120 / 92	\$130,000 to \$140,000
	TH330	7200	Cat 3054E	120 / 92	\$145,000 to \$155,000
	TH350	8480	Cat 3054T	90 / 67	\$135,000 to \$145,000
	TH360	9440	Cat 3054T	90 / 67	\$163,000 to \$173,000

TH460	10760	Cat 3054	90 / 67	\$193,000 to \$203,000
TH560	12000	Cat 3054E	120 / 92	\$205,000 to \$220,000

Forklifts

Quinn Engineering Ltd: (freight included)

	Height	Lift capacity	3 point linkage	Front-mounted	F/M + Sideshift
2 Stage	2.00 m	450 kg	\$3,550	\$7,550	\$9,550
	1.50 m	750 kg	\$4,000	\$8,600	\$10,900
	2.40 m	750 kg	\$4,300	\$8,900	\$11,200
	3.30 m	750 kg	\$4,700	\$9,300	\$11,600
	1.50 m	1250 kg	\$5,600	\$10,200	\$12,500
	3.00 m	1250 kg	\$6,400	\$11,000	\$13,300
	2.00 m	1500 kg	\$7,000	\$12,800	\$15,300
	3.00 m	1500 kg	\$7,800	\$13,600	\$16,100
	2.00 m	2000 kg	\$7,200	\$13,000	\$15,500
	3.00 m	2000 kg	\$8,000	\$13,800	\$16,300
3 Stage	2.59 m	1000 kg	\$7,000	\$11,600	\$14,200
	2.59 m	1250 kg	\$7,200	\$11,800	\$14,400
	2.59 m	1500 kg	\$8,400	\$13,400	\$16,000
4 Stage	2.59 m	1000 kg	\$9,400	\$14,000	\$16,600

All forklifts fitted with adjustable forks. Other lift heights available on request.

3 point linkage includes pins, hose and couplers; no valve or tilt ram.

The front mounted includes a subframe, bolts, tilt ram/s, valve, hoses; add \$400/ valve slice for cab tractors.

The F/M with sideshift includes an extra valve slice, hyd. auxiliary to forks, sideshift frame and ram.

Options available:

Bin tipper – tips 150 degrees, 1250 kg / 1500 kg capacity	\$3,900 / \$4,300
Fitting brackets	\$300 to \$600
Bucket attachment – 1200mm / 1500mm / 1800mm wide, crowd action. No brackets, hoses nor valve	\$2,900 / \$3,000 / \$3,200
Bin / pallet forks (500 kg to 2000 kg capacity)	\$700 to \$1,700
Hydraulic TopLink Cat 1-1 / Cat 2-2	\$480 / \$490

2.20.10 Trailers

Giltrap Engineering:

(prices include freight to dealers' yards in North (NI) and South (SI) Islands).

	North Island	South Island
3 tonne tip trailer 2.75 x 2.3 deck	\$10,500	\$11,900
4.5 tonne tip trailer 3.2 x 2.3 deck	\$11,400	\$12,800
5 tonne tip trailer 3.65 x 2.3 deck – on tandems	\$14,900	\$16,300
6 tonne tip trailer 3.65 x 2.4 – on tandems	\$16,500	\$17,900
8 tonne tip trailer 4.4 x 2.4 – on tandems	\$24,900	\$26,600
10 tonne tip trailer 4.4 x 2.4 – on tandems	\$33,500	\$35,200
12 tonne tip trailer 5.0 x 2.4 - on tandems	\$36,300	\$38,200
14 tonne tip trailer 5.5 x 2.4 – on tandems	\$47,600	\$49,500

2.20.11 Silage Wagons/Forage Harvesters

Silage Wagons

Taege Manufacturing:

Side Delivery

8.5 m ³ Side delivery	Single / tandem axle	\$31,500 / \$34,500
9.5/12m ³ Side delivery	Tandem axle	\$36,200 / \$37,300
14.0 m ³ Side delivery	Tandem axle 3 chain	\$45,800
16.3/18.0 m ³ Side delivery	Tandem axle 3 chain / 4chain	\$50,800 / \$58,800
20.0m ³ Side delivery	Tandem axle 4 chain	\$59,700

Giltrap Engineering:

(Prices include freight to dealers' yards in North (NI) and South (SI) Islands).

Centre Feed Forage Wagons – Super Hydraulic Models:

RF9C / RF11C	9/11 m ³	NI \$31,200 / SI \$33,180 / NI \$33,300 / SI \$35,280
RF13C / RF16C	13/16 m ³	NI \$41,300 / SI \$43,700 / NI \$45,500 / SI \$47,900
RF21C	21 m ³	NI \$53,200 / SI \$56,150

Side Delivery Forage Wagons – RF Models:

RF9 / RF11	9/11. m ³	NI \$34,500 / SI \$36,480 / NI \$36,900 / SI \$38,880
RF13 / RF16	13/16 m ³	NI \$43,900 / SI \$46,300 / NI \$47,800 / SI \$50,200
RF21	21 m ³	NI \$55,900 / SI \$58,850

Forage Harvesters (precision chop)

Tulloch: (2008 prices)

Krone Big-X 500 / 650 forage harvester	\$578,000 / \$637,750
Krone R/54 GL loader wagon	\$127,200
Krone Titan 6XL/R-GL loader wagon	\$167,000

Silage/Hay Covers and Wraps

Agpac Ltd:

Netwrap – UV treated, 3150m edge to edge	\$464
Silage Cover 15m x 400m x 150 micron	\$4,536
Balewrap plastic: 750mm x 1500m	\$175
500mm x 1800m	\$145.50

PGG Wrightson Ltd:

Silage covers: 18m x 50m (heavy B/W)	\$852.45
18m x 250m (heavy B/W)	\$4,323.56
15m x 300m (heavy B/W)	\$15.83 per m
Balewrap plastic: 750mm x 1500m	\$140.00
500mm x 1500m	\$103.12

(see also *Section 2.20.23*)

Silage/Hay Preserves

Pioneer:

Pioneer Pasture specific silage inoculant:		
Pioneer 1127	40g pack treats 50 wet tonnes	\$164.78
	200g pack treats 250 wet tonnes	\$823.90
Pioneer Multi-Crop silage inoculant:		
Pioneer 1174	40g pack treats 50 wet tonnes	\$125.40
	200g pack treats 250 wet tonnes	\$627.00

Granular Chemical Applicator

Specialty Machinery (Marton) Ltd:

Gandy Forage and hay additive applicators:

Bare shaft models (10, 16, 20 and 40kg hoppers)	from \$821
Electric drive models (10, 16, 20 and 40kg hoppers)	\$1,580 to \$2,730

2.20.12 Grain Crushers and Feed Mixers

Streamline Feeding Systems:

John Turner (freight may apply)

Junior all grain roller crusher, 4" roller, chain driven rollers, ¾ hp	\$711
Senior all grain roller crusher, 1 hp	\$1,778
Hayway Chaff cutter, 2hp - electric / PTO	\$3,111 / \$3,500

Kuhn: (Kuhn New Zealand)

Mixer Wagons	
Euromix II 1460 /Euromix II 1860	\$95,060 / \$103,390

2.20.13 Prill Applicators

Beattie Insulators:

KG Prill applicator – for prills and granules	\$31.46
Bottle only	\$2.05

2.20.14 Fertiliser and Manure Spreaders and Toppers

Specialty Machinery (Marton) Ltd:

Precision fertiliser applicators		
F.P.	Precision side dressers	from \$7,000
Mechanical Transplanter	Precision side dressers	from \$5,500

Amazone: (Landpower NZ Ltd)

Twin Disc Fertiliser Spreaders:

ZAXW502	ZA-XW Perfect	500 litre	\$9,250
ZAM900	ZA-M900	900 litre	\$11,000
ZAM1500	ZA-M1500	1500 litre	\$13,500
ZA-M1500	ZA-M Profis	1500 litre	\$28,000

Aitchison / Reese:

Linkage mounted spinner spreaders – 460 to 660 litres capacity	\$2,295 to \$2,495
Linkage mounted spinner spreaders – 800 to 1200 litres capacity	\$3,595 to \$4,595
A.T.V. Trailed spreaders – 260 to 460 litres capacity	\$2,395 to \$2,695

Giltrap Engineering Ltd:

(prices include freight to dealers yards in North (NI) and South (SI) Islands).

Slurry Spreaders (5000 to 15,000 litre tanks, tandem axles)	NI \$32,500 / SI \$34,490 to NI \$64,500 / SI \$66,850
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Kuhn: (Kuhn New Zealand)

MDS 85	\$9,100
MDA 735M	\$8,890
MDS 935M	\$10,560
AXIS 20.1 single acting hydraulic controls	\$16,260
AXIS 30.1 double acting hydraulic controls	\$17,270
AXIS 40.1 double acting hydraulic controls	\$19,780

Vicon: (Power Farming)

Superflow Pendulum Spout Spreaders:

VI-PS 203	175 litre, 12 metre spout width	\$4,400
VI-PS 403	400 litre, 12 metre spout width	\$7,950
VI-PS403VITI	Same as above but 1.15 m hopper for orchards/vineyards.	\$7,950
VI-PS 604	600 litre, 12 metre spout width	\$8,650

Rotaflow Twin Disc Spreaders:

VI-RO-M1100	1100 litre - spout width up to 24m	\$12,900
VI-RO-XL1500	1500 litre - spout width >36m	\$16,750
VI-RO- XL1500EDW	1500 litre - spout width >36m, with ED spreading computer and 5 cell weighting system	\$39,900

C-Dax Systems Ltd:

Ground driven ATV trailed broadcast spreader,GT 300 L/400 L	\$2,595 to \$3,350
12 volt electric 70 litre hopper, ATV mounted	\$1,050 to \$1,250
Ground driven ATV trailed Magmaster spreader	\$1,880.00

2.20.15 Trucks and Utilities (Light Commercials)

Toyota:

Hi-Lux – 2WD:		chassis/cab	ute
Single cab 2.7 petrol (manual)		\$29,937	-
Single cab 3.0 turbo diesel (manual)		\$33,653	-
Extra cab 4.0 V6 petrol SR5 (auto)		-	\$46,952
Double cab 2.7 petrol (manual)		-	\$34,533
Double cab 3.0 turbo diesel (manual)		-	\$37,591
Double cab 4.0 V6 SR5 (automatic)			\$49,147

Hi-Lux – 4WD:		chassis/cab	ute
Single cab 3.0 turbo diesel (manual)		\$43,182	-
Extra cab 3.0 turbo diesel (manual)		\$44,080	-
SR5 ute (manual)		-	\$51,147
Double cab 3.0 turbo diesel (manual/ auto)		-	\$48,035 / \$49,742
SR5 ute (manual / auto)		-	\$51,840 / \$53,991
Double cab 4.0 V6 petrol SR5 (auto)		-	\$66,590
Land Cruiser 70:	(chassis/cab) / (chassis/cab LX)		hardtop
4.5 turbo diesel (manual)	\$56,880 / \$62,213		-
4.5 turbo diesel (manual)	-		\$66,213
4.5 turbo diesel (manual) LX Wagon			\$68,880
Land Cruiser Prado (manual/auto)	3.0 GX T/Diesel SUV		\$69,769 / \$71,102
	VX T/Diesel SUV auto		\$79,911
	VX Ltd T/Diesel SUV auto		\$93,324
Land Cruiser 200 (auto)	4.5 VX twin turbo diesel SUV		\$106,658
	VX Limited option pack		\$16,889

Ford:

	chassis / cab	wellside
Ranger diesel – 2WD	\$36,790	\$38,790
Ranger diesel – 4WD (manual)	\$44,290 to \$51,290	\$49,290 to \$59,490
Falcon Utility (auto)	chassis / cab	pick-up
		\$43,790 to \$53,190

Holden: (Blackwell Motors Ltd)

Commodore Ute				\$42,480 to \$52,080
Holden VE Utility	3.6 V6 Auto to V8 Auto/Manual			\$41,858 to \$52,080
Colorado Diesel				
2wd	Chassis	Single/Space Cab	LX Manual	\$30,168 / \$31,058
4wd	Chassis	Single/Space Cab	LX Manual	\$35,947 / \$38,169
2 / 4WD	Pickup	Space Cab	LX Manual	\$33,725 / \$40,836
2 / 4WD		Crew Cab	LTR Manual	\$39,947 / \$47,502
2 / 4 WD		Crew Cab	LTR Automatic	\$41,725 / \$49,280

Canterbury Mazda: (Prices include on road costs)

BT50 – 2WD 3.0L turbo diesel	chassis	wellside
Single cab	\$27,295	\$26,887
Cab plus	\$29,701	\$29,292
Double cab DX	-	\$29,580
Double cab SDX / SDX auto	-	\$32,642 / \$34,090
BT50 – 4WD 3.0L turbo diesel	chassis	wellside
Single cab	\$33,054	
Cab plus	\$35,460	\$35,050
Double cab DX		\$35,190
Double cab SDX / SDX auto		\$38,120 / \$39,569

Nissan:

Navara – DX (D22) (ABS & Dual AirBag)		
S/Cab 2.5 T/Diesel 5 Speed Manual 2WD/4WD chassis		\$26,844/\$35,067
D/Cab 2.5 T/Diesel 5 Speed Manual 2WD/4WD W/Side		\$30,622/\$39,556
Navara – ST-X D/Cab		
2.5 T/Dsl 6 Speed Manual 2WD/4WD W/Side		\$41,200/\$50,178
2.5 T/Dsl 5 Speed Auto 2WD/4WD W/Side		\$42,978/51,956
D/Cab 4.0 V6 Petrol 5 Speed Auto 2WD/4WD W/Side		\$42,978/\$51,956
Navara ST-X K/Cab ABS, Dual A/Bags, Cruise Ctrl, Towbar		
2.5T/Dsl 6 speed Manual Chassis/Flat Deck		\$44,311/\$45,689
2.5T/Dsl 5 speed Auto Chassis/Flat Deck		\$46,089/\$47,467
2.5T/Dsl 5 Speed Auto W/Side		\$47,467

Prices exclude dealer and on road costs

2.20.16 Cultivation Implements

Ploughs

Kverneland: (Power Farming)

AD 85-3	Conv 3 furrow, auto reset, vari width, 85cm interbody clearance	\$21,000
AD 85-4	Conv 4 furrow, auto reset, vari width, 85cm interbody clearance	\$27,900
BE 100-4-8	Conv 4 to 8 furrow, auto reset, vari width, 100cm interbody clearance	\$50,000 to \$85,500
LD 85-4/5	Rev 4/5 furrow, 200hp headstock	POA
LS 85-4/5	Rev 4/5 furrow, 200hp headstock, vari width	\$35,000/\$44,500
ES 85-3/4/5	Rev 3/4/6 furrow, 200hp headstock, auto reset, vari width	\$37,500/\$50,000
EG 85-4/5	Rev 4/5 furrow, 300hp headstock, auto reset, vari width	\$58,900/\$66,000
EO 85-5/6/7	Rev 5/6/7 furrow, 300hp headstock, auto reset, vari width	\$61,000/\$84,000

Chisel Ploughs and Subsoilers

Aitchison /Reese: 'Earthquaker' Soil Aerator

Double Beam Model No. of tines	Frame width (metres)	without coulters	with coulters
3	1.83	\$3,295	\$4,615
4	1.83	\$3,995	\$5,604
5	1.83	\$4,615	\$6,815
5	2.40	\$5,055	\$7,145
7	2.40	\$6,265	\$9,235
Optional extra	Plain roller, (1.83/2.4 m)		\$1,955 / \$2,085

Kverneland: (Power Farming)

CLC-9-1	9 tine, 2.5m width, chisel type cultivator, base unit	\$14,950
	with wheel set, disc and cage roller	\$32,700
CLC-11-1	11 tine, 3.1m width, chisel type cultivator, base unit	\$17,500
	with wheel set, disc and cage roller	\$35,600
CLC-13-1	13 tine, 3.6m width, chisel type cultivator, base unit	\$19,950
	with wheel set, disc and cage roller	\$42,100

Clough Agriculture Ltd: (2008 prices)

950 Goliath chisel plough/cultivator - 7 tine (2.7 m) to 15 tine (4.65 m)	POA
300 Panaerator subsoiler plough 3 to 7 legs (with coulters and roller crumbler)	\$5,400 to \$15,700

Discs

Kverneland: (Power Farming)

DVP-A315/	2.7m /3.15m Offset discs, hydraulic adjustment	>85hp	\$41,950
DVB-A450		>160hp	POA
DVS-RL-B570	5.7m Heavy duty, offset discs, hydraulic adjust.	>190hp	POA
DXE-A315/	3.15m/3.6m/4.05m Tandem discs, hydraulic	>95hp	POA
A360/A405	adjustment	>105hp	POA
		>120hp	POA
DXA-A450/	4.5m/5.4m 36/44 heavy duty wheeled tandem	>130hp	\$78,670
A540	disc	>130hp	POA

Cultivators

Specialty Machinery (Marton) Ltd.:

Lilliston inter row rolling cultivators	from \$5,000
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Clough Agriculture Ltd: (2008 prices)

Duncan Ag

920 Mounted Maxi-Till standard models with crumbler:

3.13m to 3.63m, 30 and 34 tine	\$4,900 to \$5,200
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929 Contoura – Foldup mounted Maxi-till

4.25m to 5.6m, 42 to 56 tine	\$10,500 to \$11,900
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Kuhn: (Kuhn New Zealand) Power tillers – up to 200hp

EL 201-300 Cultirotor – L Blades/EL 201-400 Cultirotor – L Blades	\$38,500 / \$46,500
EL 201-300/EL 201-400 Cultiplow angle tines	\$40,770 / \$51,050
Compulsory equipment :	
Maxi crumbler roller 300cm / 400cm	\$3,070 / \$3,375
Maxi packer roller 300cm / 400cm	\$6,290 / \$9,210

Tine Cultivators

Kuhn: (Kuhn New Zealand)

CD300 2 rows tines / 3 rows tines, 3.0m, suitable to mount integra or any 3 point mounted drill on	\$9,340 / \$10,540
CD400 2 rows tines / 3 rows tines, 4.0m, suitable to mount integra or any 3 point mounted drill on	\$13,390 / \$14,040

Rotary Hoes

Maschio: (Power Farming)

MG L-85 to 125 25hp, 0.85m to 1.25m, single speed, chain drive	\$4,550 to \$4,900
MG W-105/125 35hp, 1.05/1.25m, single speed, chain drive	\$5,300 / \$5,450
MG U-155 to 205 80hp, 1.55m to 2.05m, single speed, gear drive	11,350 to \$12,500
MG C-230-300P 130hp, 2.35 to 3m, 2+2 speed, PTO, slip clutch	\$17,900 to \$25,900
MG SC-230-300P 170hp, 2.35 to 3m, 2+2 speed, PTO, cam clutch	\$24,500 to \$33,000
MG G-300 to 400 250hp, 3 to 4m, 3 speed, PTO, oil cooler	\$45,000 to \$49,500
Super Cobra:	
MG 250C to 300P 2.5 to 3m, 160 hp, 2+2 speed, PTO, straight blades	\$31,500 to \$37,500
Panterra :	
MG 520C to 570P 270hp, 5.28 to 5.78m folding, 2 speed, PTO, oil cooler, cage roller	\$111,000 to \$119,000

Power Harrows

Kuhn: (Kuhn New Zealand) HR Power Harrows –

Up to 140 hp (price includes levelling bar and cam clutch)	
HRB 252 D With std crumbler roller / with std packer roller	\$21,610/ \$23,135
HRB 302 D With std crumbler roller / with std packer roller	\$24,660/ \$27,860
Up to 250 hp (price includes levelling bar and cam clutch)	
HR 3003 D with maxi crumbler roller / maxi packer	\$32,240 / \$35,455
HR 3503 D with maxi crumbler / maxi packer	\$34,785 / \$39,175
HR 4003 D with maxi crumbler / with maxi packer	\$39,645 / \$39,645
HR 4003 / 4503 DR with maxi packer	\$70,330 / \$74,850
HR 5003 / 6003 DR with maxi packer	\$80,190 / \$96,220
Disc Cultivators	
HVA 26 26 Blade V formation 660mm Blades	\$35,245
Discover XS 28 28 Blade X formation 660mm Blades	\$47,450
Discover XM 36 36 Blade X formation 660mm Blades	\$57,740

Amazone: (Landpower NZ Ltd)

With cage rollers: -		
KE253	2.5m power harrow	\$18,700
KE303	3.0m power harrow	\$21,000

Kverneland: (Power Farming)

NGH 301 CR/PR/KP	3m, 180hp, cage/packer roller/ cracker packer	\$23,900/\$25,900/ \$29,900
NGH 351 CR/PR	3.5m, 180 hp, cage/packer roller	\$26,900 / \$28,900

Maschio: (Power Farming)

MG DC-2500C to 3000P	2.5 to 3m, 120hp, 4 speed	\$22,750 - \$28,500
MGDM-Rapido-3000C- 3000P	3 to 4m, 200hp, 4+2 spd, quick fit tines	\$34,000 - \$37,750
MG Falco-4000C-4600P	4 to 4.6m hydr folding 180hp	\$57,500 - \$64,750
MG-Aquila - 4000C -6000P	4 to 6m folding, 280hp, quick fit blades	\$84,000 - \$99,000
MG-Jumbo-5000C to 6000C / P	5 to 6m folding, 350hp, central 2 speed, oil cooler,	POA - \$179,000

Harrows

Lyndon Harrows:

“Lyndon” Chain Harrow

1.5 to 2.1 m width – 10 and 12 mm square (suitable for motorbikes)	\$685 to \$1,030
2.4 to 4.2 m width – 10, 12 and 16 mm square	\$980 to \$3,410

Spiked Chain Harrows

12 mm Round, 1.83 x 1.83 to 3.66 x 2.4 m (6' x 6' to 12' x 8')	\$980 to \$2,525
16 mm Round, 2.4 x 2.4 to 4.27 x 2.4 m (8' x 8' to 14' x 8')	\$2,270 to \$3,537
20 mm Round, 2.4 x 2.4 to 4.27 x 2.4 m (8' x 8' to 14' x 8')	\$3,130 to \$5,055

Tripod and ‘Lyndon’ Chain Harrows

10 / 12 mm square chain, 2.4 to 4.2 m	\$2,650 to \$4,710
16 mm square chain, 3.0 to 4.2 m	\$4,583 to \$6,240

Standard Models

	2.4 m (8 foot)	3.1 m (10 foot)	3.65 m (12 foot)
12 mm round and 10 mm square	\$1,535	\$1,890	\$2,335
12 mm round and 12 mm square	\$1,845	\$2,150	\$2,570
16 mm round and 12 mm square	\$2,317	\$2,720	\$3,190
16 mm round and 16 mm square	\$3,350	\$4,100	\$4,577

Round Ring Harrow

12 mm round, 2.4 x 1 to 3.65 x 1 m	\$750 to \$1,110
16 mm round, 2.4 x 2 to 3.65 x 2 m	\$1,450 to \$1,850
20 mm round, 2.4 x 2.4 to 4.25 x 2.4 m	\$3,130 to \$5,055

Round Ring Contractor’s Harrow

24 mm round material, 2.4 x 2.4 to 4.25 x 2.4 m	\$3,795 to \$6,520
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Utility Harrows

10, 12 and 16 mm diameter, round, 2.15 to 4.25 m	\$535 to \$1,340
Pea Harrow / Potato Harrow / Organic Weed Harrow	\$295 to \$320

Diamond Harrows

16 mm tine / 20 mm tine	\$490 / \$490
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Zig Zag Harrows - high tensile tines

35kg 16mm tine / 45kg 20mm tine	\$390 / \$450
Bars – 3 / 4 / 5 leaf	\$430 / \$500 / \$575
Zig Zag Harrow sets	
3.1m, 3 leaf and bar 16mm / 20mm	\$1,580 / \$1,730
4.05 m, 4 leaf and bar 16mm / 20mm	\$2,030 / \$2,240
5.05m, 5 leaf and bar 16mm / 20mm	\$2,480 / \$2,535

Horse training track harrows - blade type harrows that cut into hard tracks

Bolt on 320x70x12, 2 leaf and bar / 3 leaf and bar	\$2,020 / \$3,015
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Taege Engineering Ltd:

Taege Tyne Harrows – Can be fitted to any brand of drill or farm implement. They can be custom built for size and application but typical sizes and prices are:-

1.00m to 1.600m	\$578 - \$728
3.00m to 4.000m	\$1,456 - \$1,700

Soil Looseners

Amazone: (Landpower)

Deep Loosener

TL302	3.0m	\$15,000
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Rollers - Cambridge Rollers

Aitchison / Reese:

Cambridge Roller	3m / 3.3m	\$5,995 / \$6,495
Self-Transporting Roller	3m / 3.3m	\$10,995 / \$11,995

Kverneland: (Power Farming)

KC RTG5-CB	5.25m, 3 roller sections, hydraulic folding	\$33,500
KC RTG6-CB	6.25m, 3 roller sections, hydraulic folding	\$35,500
KC RTG7-CB	7.25m, 3 roller sections, hydraulic folding	\$37,500

Clough Agriculture Ltd (2008 prices)

Duncan Ag

310 Roller	2.4/2.75/3.1 m - standard rings c/w with hyd. wheels	\$12,000 to \$12,700
	2.4/2.75/3.1 m - standard rings less wheels	\$9,000 to \$9,700

Heavy Rollers

REL - Rakaia Engineering Ltd:

Water Ballast Rollers

Rolling Width	Approx Weight - full (kg)	Approx pricing
2.4 metres	7,400	\$15,000
3.05 metres	8,500 to 8,700	\$15,800 to \$17,000
3.05 metres	11,900 to 17,900	\$19,000 to \$28,000
3.66 metres	11,000 to 11,400	\$18,600 to \$20,000
3.66 metres	14,350	\$22,000
3.66 metres	16,300	\$27,000

Field Rollers

Aitchison / Reese:

Weight transfer roller	2.75m / 3.00m	\$8,995 / \$9,995
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Rubber-Tyred Rollers

Taege Engineering Ltd:

Taege Tyre Rollers – Designed with two rows of inflated tyres with rocking movement for contour following: -

3.000m Fixed Beam		\$8,995
3.600m Fixed Beam		\$9,995
4.000m Fixed Beam		\$10,995
6.000m Folding Beam		\$20,390
Floating Beam options on 3-4 m		\$1,200
Hydraulic Floating Beam 3-4 m		\$2,400
Credit for 3-4m sod as a kitset ex yard		\$1,000

2.20.17 Planting Implements

Drills and Seed Boxes

Aitchison / Reese:

Seedmatic 3000 seed only drills

Linkage 16 to 24 row	2.4 to 3.6 m	\$14,995 to \$20,995
Trailed 16 to 24 row	2.4 to 3.6 m	\$18,495 to \$24,495
Coulter / Linkage 16 to 24 row	2.4 to 3.6 m	\$17,995 to \$25,745
Coulter / Trailed 16 to 24 row	2.4 to 3.6 m	\$21,745 to \$29,245

Seedmatic 3100 seed and fertiliser drills:

Linkage 16 to 24 row	2.4 to 3.6 m	\$17,495 to \$24,995
Trailed 16 to 24 row	2.4 to 3.6 m	\$20,995 to \$28,495
Coulter / Linkage 16 to 24 row	2.4 to 3.6 m	\$20,745 to \$27,745
Coulter / Trailed 16 to 24 row	2.4 to 3.6 m	\$24,745 to \$32,745

Seed and fertiliser boxes for rollers, powers harrows etc:

Seed only	2.0m to 4.0 m	\$6,495 to \$8,495
Roller drills, no transport wheels	3.0m "ECO"	\$13,995
Roller drills hydraulic transport	2.7m / 3.0m sowing	\$22,995 to \$24,995
Seedking Professional no-till drill	3 m 22 run (133 mm)	\$65,995
Grassfarmer pasture drill	2.1m 14 run	\$10,995 to \$13,995

Seedmatic Professional		
- Seed only, disc coultter, linkage	3.0m 20 / 22 row	\$26,495
- Seed only, disc coultter, trailed	3.0m 20 / 22 row	\$28,995
- Seed & fertiliser, disc coultter, linkage	3.0m 20 / 22 row	\$31,495
- Seed & fertiliser, disc coultter, trailed	3.0m 20 / 22 row	\$33,995

Taege Engineering Ltd: Ex-Christchurch, add \$360 for freight delivery in Cant Area

Vineyard Drill (Variable Speed Electric drive) single and double		Single	Double
120cm	Variable speed controller. Upgradeable to fully	\$8,182	\$12,357
140cm	computerised system. This allows for 25 saved	\$8,797	\$12,229
160cm	calibration settings per box, speed sensitive, fast and	\$9,721	\$14,409
180cm	simple calibration. \$2,868.75 for single, \$3,140 for	\$10,337	\$15,281
200cm	double. 3-point linkage as standard. Trailing option	\$10,953	\$16,153
240cm	available. 300mm pneumatic depth wheels. 3-tool bar - 121mm spacing.	\$11,773	\$17,231

Unidrills – 3.0m, 3Point Linkage, 2 Tool Bar, 19 Drops at 152mm Spacings

3.0m Uni Hoe Drill	Single Box	\$16,163 - \$19,359
3.0m Uni Disc Drill	Single Box	\$23,030 - \$26,490
3.0m Uni 19 Drop Seed Box	Seed box includes fully	\$7,419
3.0m 23 Drop Seed Box	computerised system, sub frame,	\$7,540
6,753.6m 29 Drop Seed Box	collector tray, short hoses. Can be simply fitted to Taege Direct Drills.	\$8,154

Heavy Duty Seed Drills 300 – 360 Series, 121 or 150mm spacings, 3.5 Tool Bars, Fully Computerised

300ESBT121 3.0m 23 Drops at 121mm	Single Box	\$28,667 - \$30,635
300EDBT121 3.0m 23 Drops at 121mm	Double Box	\$38,052 - \$40,021
360ESBT121 3.6m 29 Drops at 121mm	Single box	\$32,009 - \$34,343
360EDBT121 3.6m 29 Drops at 121mm	Double Box	\$41,791 - \$44,125

These drills also have the option of having 150mm row spacings with the following Specs
 3.0m at 150mm. 21 Drops Drilling Width of 3150mm. 23 Drops Drilling Width 3450mm.
 3.6m at 150mm. 25 Drops Drilling Width of 3450mm. 27 Drops Drilling Width 4050mm.

Clough Agriculture Ltd (2008 prices)

Enviro Multiseeder drill 15 to 26 run triple disc		\$64,000 to \$88,800
Enviro 3000e drill 23 to 27 run triple disc		\$116,000 to \$125,500
720 Quantum arable seeder	17 to 23 run hoe coultter	\$46,100 to \$53,100
	17 to 23 run double disc	\$50,300 to \$56,200
320 roller drill	2.4/ 2.75/ 3.1 m – c/w hyd. wheels	\$24,300 to \$25,800
	2.4/2.75/3.1 m – no hydraulic wheels	\$21,000 to \$22,400
Duncan renovator	19 run seed and fertiliser c/w disc	\$38,000
	23 run seed and fertiliser c/w disc	\$43,200
Duncan Eco Seeder	16 Run 3PL Dual Box c/w disc	\$22,935
	16 Run Trailing c/w disc	\$25,510

Direct Drills

Kuhn: (Kuhn New Zealand)

Working widths of 3m to 6m (9'10" to 20') with 18 to 38 rows. Triple disc system.	
SD 3000 P20R	\$118,670
SD 4000 P26R	\$153,920
Disc markers (hydraulically folding) for SD 3000 and SD4000	\$4,460
Reducing head 26/13 for SD4000 26R	\$500
Slug pellet hopper	\$4,270
Hector 3000 control box, tramlining, hopper and turbine monitoring	\$4,470

Precision Drills

Amazone: (Landpower NZ Ltd)

Seed Drills – Pack Top Seed Drills

AD303	24 row	3.0 m	\$32,350
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Seed Drills – D9 Super Seed Drills 3 point linkage

D930 / D940	25 / 33 row	3.0 / 4.0 m	\$23,500 / \$32,100
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Seed Drills – Pneumatic

AD-P 303	Airstar Progress Economy 24 roll disc coulters	3.0 m	\$34,800
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Transplanters

Specialty Machinery (Marton) Ltd:

Mechanical transplanter - vegetable and nursery transplanters	from \$4,150
Kennco vegetable transplanters	from \$5,100

Transplant Systems Ltd: (prices ex-Auckland)

RT-2 transplanters	Two / three row	\$12,285 / \$17,430
Optional extras	- second toolbar	\$441
	- land compression rollers	\$577.50
Automatic transplanters		From \$63,000
Cell root transplanters		
3 point linkage	1 row / 2 row	\$6,510 / \$12,705
Planting pots or cell transplants	1 row	\$8,610

Potting Machines

Specialty Machinery (Marton) Ltd:

For nursery use, filling pots or planter bags and cell trays	
Javo range	from \$31,000
B & L	From \$32,300

Cell Tray Seeders

Specialty Machinery (Marton) Ltd:

Gro Mor hand wand	from \$400
B & L	from \$4,200

Potato Planters

Landpower NZ Ltd:

Grimme Potato	GL32B 2 row cup planter	\$42,500
Planters	GL34T 4 row trailed planter	\$69,000

Bed Formers

Specialty Machinery (Marton) Ltd:

Kennco super bedder	from \$6,000
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Polythene Film Layers

Kennco	from \$4,350
Mechanical transplanter	From \$3,800

Bed Former Polythene Layer Combo

Kennco	from \$7,000
Mechanical transplanter	From \$6,880

2.20.18 Harvesting Equipment

Lifters, Diggers and Harvesters

Grimme Potato Harvesters: (Landpower NZ Ltd)

Dominator	SE7520 single row harvester, 2.2 tonne bunker	\$138,000
	SE7530 high capacity single row harvester, 3.5 tonne bunker	\$162,200
	SE7540 high capacity single row harvester, 4.5 tonne bunker	\$168,600
	GT1705	\$210,000

Midland Machinery: Schumacher Crop Lifters – (ex-Christchurch)

Button type lifters (blue)	\$42.00
Spring lock lifters (orange)	\$44.85
Mounting reel with bolt and nut	\$5.60

Specialty Machinery (Marton) Ltd:

Lilly & flower bulb harvesters	
Asa-Lift Bulb harvester	from \$48,500

Vegetable Harvesters

Specialty Machinery (Marton) Ltd:

<i>Asa-Lift</i>	Carrot Harvesters	from \$65,000
	Leek Harvesters	from \$60,000
	Cabbage Harvesters	from \$84,000
	Potato Harvesters	from \$51,000
	Onion Harvesters	from \$50,000
	Green Bean Harvesters	from \$68,300
	Lettuce Harvesters	From \$49,650
	Celery Harvesters	From \$51,500

Windrowers

Landpower NZ Ltd:

Grimme GVR 1700	\$50,000
Grimme Combi star CS1500/CS1700	\$119,000 / \$129,000

Combine Harvesters

Landpower NZ Ltd: (prices vary with size and specifications)

Lexion 530 Combine + 6 m Lexion front	POA
Lexion 540 Combine + 6.6 m Lexion front	POA
Lexion 560 Combine + 6.6m Lexion front	POA

Drummond & Etheridge: (prices vary with size and specifications)

John Deere Model T670	From \$490,000.00 to \$530,000.00
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Grain Augers

REL - Rakaia Engineering Ltd:

31' x 10"	Galv truck load pto	\$9,795
41'/46'/51' x 8"	BH grain auger pto	\$9,920 / 10,740 / \$11,050
61'/71'/81'/91x10"	Swing Away Auger	\$18,210/\$19,930/\$25,325/\$31,910
10"	Reverser kit	\$852
71'/81'/91'x13"	Swing away + reverser	\$30,775/\$34,655/\$40,675
13"	Reverser kit	\$1,075

Another company

45° (13.8m)	200 / 250mm	\$7,000 / \$8,800
50°(15.4m)	200 / 250 mm	\$8,500 / \$9,750

2.20.19 Farm Bulldozers

Gough Gough and Hamer Ltd: Track Type Tractors - Caterpillar

Machine	Operating weight (kg)	Engine make	kW/hp	RPM	Price
D3G XL	7345	Cat 3406	52/70	2400	\$180,000 - \$220,000
D4G XL	7800	Cat 3406	60/80	2400	\$205,000 - \$225,000
D5G XL	8904	Cat 3406T	67/90	2400	\$425,000 - \$450,000

2.20.20 Grader Blades

Pearson Engineering Ltd:

Regular	1.8 m/2.1 m wide	\$4,410 / \$4,595
Heavy Duty	2.1 m/2.4 m wide	\$5,435 to \$6,035
Mighty	2.1 m/2.4 m wide, 1, 2, or 3 hydraulic ram	\$6,625 to \$8,455

2.20.21 Other Farm/Orchard Equipment

Fruit Bin Carriers

Transtak Engineering & Equipment

Fruit Bin Trailers

1500L 3-bin / 2500L 4-bin	\$17,489 / \$24,267
2000N 3-bin / 3500N/W 6-bin; stack with tilt	\$20,700 / \$27,408

Waterblaster Sprayers

Power Farming:

General Interpump and Comet High Pressure Pumps

11 litres / minute and 138 bar to 15.2 litres / minute and 207 bar, electric	\$599 to \$1,725
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AES (Ag Equipment Specialists Ltd):

Hurricane Complete, tractor driven:

250/500 litre – tanks 21.5 to 27.5 litres per minute, 2000 psi	\$3,995 to \$4,750
Tornado-motorised 1750 to 5000 psi, 11 to 30 litres per minute, 5-24hp	\$1,595 to \$10,100
Electro-blast electric 1400 to 5000 psi, 9 to 30 l per minute (1/3phase)	\$1,875 to \$7,150

Steam Cleaners (Hot/Cold Water Blasters)

Alberti Medijet 130, 1740 psi, 9 litres per minute	\$4,295
Alberti Compact & Maxijet 1740 to 3000 psi, 11 to 21 litres per minute (single and three phase)	\$5,200 to \$7,850

Kanters Engineering & Machinery Ltd.:

Electric Waterblasters 1.5 hp to 3 hp	\$795 to \$1,695
Petrol Models up to 13 hp, 2000 to 3000 psi	\$1,695 to \$3,950

Mulchers

Nobili Mulchers (Power Farming)

VK	1.m to 1.35m vineyard/orchard mulcher		from \$8,700
VKDO 155 to 210	1.5m to 2.1m general purpose orchard/vineyard mulcher	>50-90hp	\$12,225 to \$13,150
VKP 170 to 210	1.7m to 2.1m heavy duty orchard mulcher	>70-100hp	\$12,595 to \$13,425
BNU 195	1.9m scrub, stubble & topping mulcher	>60-80hp	\$12,650
BNG 230 to 270	2.3m to 3.1m stubble and topping mulcher	>80-100hp	\$15,875 to \$22,285
NK7	2.1m heavy duty general purpose mulcher	150 hp	from \$36,250

Chainsaws

Fosters Outdoor Power Equipment Ltd:

Stihl:	Bar length	Price
30/32cc	36 cm (14")	\$440.00 to \$662.00
40/45cc	41 cm (16")	\$795.00 to \$973.00
50/57cc	46cm (18")	\$1107.00 / \$1196.00
60/65cc	51 cm (20")	\$1,284.44 to \$1368.88
72cc	56 cm (22")	\$1862.00
77cc	63.5cm (25")	\$2040.00
92cc	56cm to 91.5cm	from \$2218.00

Russell Thomas Chainsaws & Mowers:

Model - Makita	Power rating / Bar length	Price
DCS231T - top handle	22cc, 20cm (8")	\$648
DCS34 - utility	33cc, 40cm (16")	\$518
DCS4610 - utility	46cc, 40cm (16")	\$583
DCS3500 - compact	35cc, 40cm (16")	\$817
DCS4300 - compact	43cc, 40cm (16")	\$869
DCS4600S - rapid	46cc, 45cm (18")	\$1,233
DCS501	50cc, 45cm (18")	\$1,077
DCS520	52cc, 45cm (18")	\$1,038
DCS6401/50 bar/chain	64cc, 50cm (20")	\$1,467
DCS6401/54 bar/chain	64cc, 54cm (22")	\$1,493
DCS7301/50 bar/chain	73cc, 50cm (20")	\$1,519
DCS7301/54 bar/chain	73cc, 54cm (22")	\$1,529
DCS7301/60 bar/chain	73cc, 60cm (24")	\$1,549
DCS7907/60	79cc, 60cm (24")	\$1,727
DCS7901/70	79cc, 70cm (28")	\$1,747

Log Lifter

TePari Ltd:

Davis Starlifter	\$279.00
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Brushcutters/Trimmers/Edger

Russell Thomas Chainsaws & Mowers:

Dolmar	Power rating	Price
RST250 Line trimmer	24.5cc, curved shaft,	\$388
RBC2510 Line trimmer	24.5cc, straight shaft, loop handle	\$609
EBH251L Brushcutter	24.5cc, straight shaft, loop handle, 4 stroke	\$752
EBH251U Brushcutter	34.5cc, straight shaft, bull handle, 4 stroke	\$765
EBH341R Backpack brushcutter	33.5cc 4 stroke	\$1,207

Rising Plate Meters / Pasture Meters / pH Meters

Jenquip Ltd: (prices include delivery)

Filip's folding plate pasture meter	\$435
Plate Meter carry bag	\$51
Pasture management software	\$31.11
EC-09 Electronic pasture meter c/w software (replaces F200)	\$700
Automated sward stick	\$320

Egmont Commercial Ltd:

pH Meter- Soil / Waterproof	\$48.50 / \$208.00
Moisture Meter - Soil	\$37.70

Rain Gauges

Leader Products:

Rain gauge 600ml / 1000ml	\$26.67 / \$48.89
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Shoof International: (Prices include delivery on orders over \$75)

Rain gauge ground level small / large	\$14.17 / \$28.00
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Egmont Commercial Ltd:

Rain gauge square	\$19.95
Rain gauge – Rainomatic, self emptying digital gauge	\$136.00

Portable Generators and Welders

Fosters Outdoor Power Equipment Ltd (Briggs and Stratton):

0.7kW to 8kW (Manual and Electric Start)	\$600.00 to \$3,600.00
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Lincoln Electric:

Weldanpower 230 + petrol	KA 1390	\$12,986
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Small Engines

Fosters Outdoor Power Equipment Ltd (Briggs and Stratton):

3.5hp to 35hp (Manual and Electric Start)	\$427 to \$3,111
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Norjo Motorcycles (stationary engines)

FE170 5.5hp / FE250 8hp	\$662 / \$929
FE120D Recoil Start 4hp/ FE350D Recoil Start 11.5hp	\$675 / \$1,066
FE350G 2.1 Reduction 11.5hp	\$1,155
FH381V 13hp / FH430V 15hp / FH541V 17hp	\$1,596 / \$1,773 / \$2,040

Pruning Equipment

PGG Wrightson Ltd:

Tina Budding Knife 654/9K	\$161.78
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Fosters Outdoor Power Equipment Ltd:

Stihl HT75	Extending Petrol Powered Pole Saw	\$2,040.
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Egmont Commercial Ltd:

Garden maintenance to new generation Felco secateurs	\$51.20 to \$97.70
Ceramic sharpening stone	\$27.70
Interchangeable loppers straight/curved blade var. handle options	from \$175.65

Levin Sawmakers Ltd:

Pruning Chainsaws:	CS 3400 / 350T	34 / 35cc	\$618 / \$643
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Pruning Saws:

Gomtaro	Sheath saw, 180-300 mm with 7.5-8 teeth / 30 mm	\$67 to \$80
Gomtaro –	13 teeth 30mm for smaller branches and dry wood,	
Finetooth	240 mm to 300 mm	\$72 to \$80
Masaru	Heavy duty saw with 5.5-7 teeth / 30mm, 330 / 360mm	\$112 / \$120
Natanoko 60	Two sizes; 300 & 330mm with 7.5 mm teeth	\$95 / \$103
Super Accel 21	Lightweight folding pruning saw,	

	210mm blade with 7.5 teeth / 30 mm	\$54.49
Zubat	Taper ground blade, 240 mm to 330 mm	\$85 to \$98
Ibuki	Curved sheath saw for larger branches, 390 mm	\$137.86

Extension Pole Saws:

Hayauchu - heavy-duty extension pole saw in three sizes.		
	177-39 One extension pole, 2.28m to 3.7m	\$295.76
	178-39 Two extension poles, 2.35m to 4.9m	\$361.94
	179-39 Three extension poles, 2.44m to 6.3m	\$447.66
Zubat - lightweight extension pole saw with Zubat 330mm blade:		
	272-12 Extension pole saw, 1.75 m to 2.7m	\$203.03
	272-15 Extension pole saw, 2.0 m to 3.3m	\$223.08
Sandvik P34-37	Telescopic tree pruner, 2.5m extendable pole	\$199.73
Timbersaws Long Pole Pruning Saw	2.9m for 4m pruning height	\$136.20

Loppers

Kiwi	for branches up to 45 mm diameter	\$132.00
Prun-off	for branches up to 65 mm diameter	\$159.90
Rami Lopper	for branches up to 85 mm diameter	\$170.90
Arborist Ladder	3D climbing frame 2.6m to 6.2m	\$1,220.00 to \$1,449.60

Orchard Ladders

Transtak Engineering & Equipment

Orchard Ladders		
1.2m / 1.5m / 1.8m / 2.1m / 2.4m		\$241.14 / \$256.08 / \$266.19 / \$288.16 / \$310.00
2.7m / 3m / 3.3m / 3.6m		\$334.71 / \$370.24 / \$403.48 / \$428.55

Implement Hitches

Giltrap Engineering Ltd:

3 Point Linkage Quick Hitch, rated up to 12,000kg GVM		NI \$1,095 to SI \$1,095 plus freight
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Effluent Pond Stirrer

Anderson and Rooney Ltd:

Pearson PTO pond stirrer includes drive shaft and freight		\$7,459
Yardmaster electric stirrer pump – 4kW		\$4,625
A & R pontoon with pivot arm & walkway		\$1,865
Yardmaster pontoon		from \$1,365 to \$1,790

Numedic Ltd:

1.5kW Stirrer for use in effluent sumps		\$3,425.00
5.5kW Stirrer for use in small effluent ponds		\$4,040.00
7.5kW Maxi Stirrer for use in larger effluent ponds		\$6,055.00

Stump Chippers and Log Splitters

Giltrap Engineering:

(prices include freight to dealers yard North (NI) and South (SI) Island)

Hydraulic Woodsplitter – 3 point linkage		NI \$3,400 to SI \$3,650
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ICS Manufacturing Ltd:

Logsplitters – 3pt linkage or trailed models	
LS40V Vertical 3pt linkage splitter / LS35V Vertical 3pt linkage splitter	\$3,300 / \$3,100
LS30T Trailed Splitter -base only / LS35T Trailed splitter -base only	\$4,530 / \$4,610
LS40T Trailed splitter –base only	

Trailed splitters then need to have a power pack attached ranging from 6.5Hp thru to 13Hp motors. The power pack includes motor, tank, 2 stage pump. Filler breather, temp level gauge, return line filter and all hydraulic hose and fittings.

PGG Wrightson Ltd: 2008 price

Logsplitter – 7 tonne - electric	\$532.44
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Buckets

Shoof International: (Prices include delivery for orders over \$75)

Stainless Steel Buckets, 9½ / 12 / 15 litre	\$44.40 / \$88.85 / \$96.89
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2.20.22 Safety Equipment

Croplands Equipment Ltd:

Kasco helmet and portable filter	\$1,667
Kasco spray helmet	\$1,036
Breathalon spray suit	\$301

Fosters Outdoor Power Equipment:

Hi Visibility tops	\$32 to \$63
Safety boots	\$168to \$693
Chainsaw safety chaps	\$158 to \$225
Hard hat system (with muffs and visor)	\$146 to \$167
Safety glasses	\$23

N.Z. Safety Limited:

Overalls (drill, polycotton, Hi-Visibility, flame retardant)	from\$36.52
Waterproof clothing (<i>Tornado</i> range, jackets, overtrousers and coveralls)	from\$34.66
Horticultural spray coveralls (PVC to breathable material)	from \$120.08
Class 4 ear protectors	from \$10.27
Gumboots – <i>Bata</i> and <i>Skellerup</i> range	from \$28.28
Respiratory –	
- Maintenance free dust / mist respirators	from \$1.74
- Spray kits (½ mask)	from \$43.93
- Portable powered air / Supplied air units	from \$844.48
Hand Protection – PVC chemical gloves	from \$1.99
Eye Protection – chemical goggles	from \$7.42

Levin Sawmakers Ltd:

Arborist chainsaw trousers	\$210.27
Chainsaw trousers	\$166.41
Chainsaw chaps	\$153.51

Protector safety hard hat with visor and peltor Cl 5 to 5+ muffs	\$93 to \$95
Jonsered hard hat with visor and muffs	\$96
Gloves - cotton lattice knitted glove with PVC stripes	\$4.95
- heavy duty leather glove	\$4.85
- western rigger gloves, leather	\$8.90
Safety Glasses - Lexa dust goggles	\$29.90
- Skyper Supravision	\$26.05
- Forestry mesh goggles	\$33.50

Fire Extinguisher – (N.Z. Safety Limited)

1kg Fire extinguishers Dry Powder	from \$24.01
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Leedsafe:

Tsunami Safety Spectacles	\$8.80
Robuck Safety Boots	\$115.47
Turu polycotton overalls / elastic shoulder overall	49.69
Leather riggers glove / maxi-grip glove	\$8.80
Fire extinguishers	1 / 2.5 / 6.0 kg \$35 / \$79 / \$133
3M 1425 earmuffs	\$19.90
Safety vests	\$13.00 to \$27.00
Unisafe hard hat	\$15.50
Leedsafe first aid kit	\$35.00
3M Respirator starter kit	\$71.00

2.20.23 Protection (Crop)

Electro-tek Engineering Ltd:

Scarecrow Gun Zon Mark 4	- complete unit	\$939 to \$1014
	- gun only / timer only	\$597 / \$159
	- tripod (3 sizes)	\$183 to \$258

Quantum Grow Ltd:

Birdnetting white or black	5m / 10m x 100m roll	\$409 / \$818
Birdnetting clips	pack of 200	\$45

Frost Protection

Frost Boss Wind Machines:

Powered by Cat. or Perkins engines	Price incl orchard mapping, engine & cabinet, concrete foundation, tower, gear boxes, blades, installation of complete machine & training	
Standard 2 Blade (alloy)	Manual start	Approx \$48,000.00
Premium 4 Blade (composite)	Auto start	Approx \$62,000.00

Price does not include any local building or resource consents.

Tarpaulins

Straitline Canvas:

Hay Covers	- Pextra	\$10.00 per square metre
Trucks	- PVC tarpaulin	\$19.75 per square metre

Tarpaulin Makers (B.O.P):

Size	Pextra	Ripstop PVC
2.7 x 7.3 m	\$181.00	\$408.00
3.6 x 7.2 m	\$240.00	\$466.00
5.4 x 11 m	\$547.00	\$870.00
7.3 x 11 m	\$670.00	\$1,283.00

2.21 BUILDINGS and STRUCTURES

2.21.1 Building Consent Charges

The Department of Building and Housing Levy:

The rate of the levy is 0.197% of the estimated value of building work for which the consent is issued. Buildings with a total estimated value of less than \$20,000 are exempt from the levy. For example, there is no levy payable on building work with an estimated value of \$19,000 but for work valued at \$21,000 a levy of \$41.37 will be charged. The levy can only be changed by an amendment to the Building Act 2004.

The Building Research Authority Levy:

This levy is also chargeable on building consents for building work with an estimated value of greater than \$20,000. It funds research projects carried out by BRANZ (the Building Research Association of New Zealand). The rate is currently 0.1%.

2.21.2 Dairy Sheds

The cost of building dairy sheds varies considerably depending on the type, size & design of shed, materials used, building site (greenfield site or conversion of existing shed) and access to electricity and water to name but a few factors. The cost of round and rectangular holding yards are similar, depending on backing gate requirements.

REL Dairy Construction - Rakaia Engineering:

Herringbone

The costs for building under full contract range from approximately \$10,000 to \$11,600 per bail. This price includes the building and yards, electrical and plumbing, but not milking plant or refrigeration.

For example: 40 bail Herringbone

Building contract	\$9,000 - \$10,400 per bail
Site works (shed & yards only)	\$500 - \$600 per bail
Effluent disposal system	\$500 - \$600 per bail
Total cost	\$10,000 - \$11,600 per bail

Rotary

The costs for rotary dairies including building, platform and yards and associated works range from about \$12,500 to \$15,000 per bail (excluding milking plant & refrigeration).

Building cost estimates: (depending on preferred style and type of material used)

Building (complete including all rooms and concrete)	\$6,500 to \$8,100 per bail
Platform and associated works	\$2,200 to \$2,400 per bail
Electrician	\$800 to \$900 per bail
Plumber	\$700 to \$900 per bail
Yard pipe work, gates and backing gates	\$1,300 to \$1,500 per bail
Effluent disposal system	\$500 - \$600 per bail
Site works (shed and yards only)	\$500 - \$600 per bail
Total cost	\$12,500 - \$15,000 per bail

Complete Sheds: (including equipment)

DeLaval Rotary Milking System:

Average Project Costs: (\$,000)

	Platform Size (bails)				
	44	50	54	60	70
Building:	240- 280	270-300	290-320	300-330	320-350
Electrical	20-30	25-35	30- 40	35-45	35-50
Plumbing	30-35	32-40	35- 42	35-42	38-45
Platform and milking equip.	181- 207	265- 320	280- 340	300- 360	340- 390
Total	471- 552	592- 695	635- 742	670- 777	733- 835
Per bail	\$10,705- \$12,545	\$11,840- \$13,900	\$11,759- \$13,740	\$11,166- \$12,950	\$10,471- \$11,928

Building costs include yard, concrete and pipe work. Site preparation, access, water and power supply to site and effluent disposal from site are not included.

2.21.3 Stock Underpasses

Fulton Hogan

Construction costs vary widely depending on length and width of the underpass and the type of road that the underpass is travelling beneath. The price for building a 20 to 30-metre underpass is in the region of \$88,000. However, the prices for State Highway underpasses are much higher.

2.21.4 Feeding Pads / Wintering Systems

There are options of covered and uncovered standoff pads, herd homes and wintering barns. Recent figures suggest that wintering barns cost between \$2,000 and \$2,700 per cow. A herd home may cost around \$1,500 per cow. An uncovered standoff pad may be around \$100 per cow whereas a covered standoff pad may cost around \$800 per cow.

In 2008 the *Dexcel* website under Farm Facts, gave a basic cost per cow of \$125 for a 200-cow herd. However this cost does not include extras such as feed bins, drainage, fencing posts, wire and insulators, gates and labour costs.

A recent example in 2008 gave a cost of \$950 per cow but that may have had extra complexities. Renovating a loafing area was in the region of \$43.60 per cow.

In 2006 figures from *Dexcel* case studies indicate that typical prices for concrete construction pads range from approximately \$185 per cow (3.7 m³ per cow and including all fencing, troughs, and water supply and effluent storage) to \$375 per cow (7.3 m³ per cow, including all fencing, troughs, effluent storage and lighting). These figures include all earthworks and site preparation.

2.21.5 Deer Sheds

Kean Deer Yards (Peter Hendriks, Loburn):

Red Deer Complex:	
Sheds, price includes stamped concrete floor, nova-lite panels in roof, spouting and downpipes, walls clad 150 x 40 RS H3 7.5x7.5m - 9x9m	\$17,000 to \$25,000

Shed internals, 6 various plans available, example of two plans:	
Plan B - 2.4m $\frac{1}{4}$ circle, 3m workrace, 6 internal subdivision panels, 1.8m door, 4 x 1.2m doors.	\$11,850
Plan D - 4.5m $\frac{1}{2}$ circle, 3m workrace, 7 internal subdivision panels, 1.8m door, 4 x 1.2m doors, 0.8m door, 0.8m triangle	\$15,192

Converting an existing shed would cost approximately 50% of the cost of a new shed.

2.21.6 Woolsheds

Calder Stewart Industries Ltd:

Woolsheds - \$470 to \$520 per m²

Woolaway Woolsheds

A basic 3 stand level shearing board woolshed with the floor approximately 2.4 metres above ground level, costs between \$550 and \$650 per square metre to erect. The floor area for such a shed is 126m²

A basic 4-stand shed as above would have a floor area of 167m² and the cost per square metre would be about the same.

Raised Board Sheds

Add a premium of 5% for a raised shearing board shed.

Additional costs

Add the following "Extra Values" to 3 or 4 stand sheds to determine the overall costs of woolsheds .

Freight \$3,000 average

Electrical \$6,500

Internal painting & floor sanding/varnishing \$3,500

Accommodation & builders travel \$4,000 for sheds over 100km from Napier.

Covered Yards

Basic covered yards excluding sheep yards and gates vary between \$110 and \$160 per square metre.

2.21.7 Stockyards - Cattle

TePari Ltd:

Cattlemaster Permanent small and medium yards range in price from \$3,975 for a holding capacity of 5 (with 6 bar cattle rail) and minimum features to \$92,605 holding 555 head of cattle - minimum features for medium and large yards. Many more options may be added.

Cattle Equipment

TePari Ltd:

Cattleyard Gates 750mm to 3600mm x 1400mm high	\$235.00 to \$595.00
Slam latches left or right – Heavy duty /extra striker plate	\$70.00 / \$17.50
Slam latch economy type / long handle type	\$36.50 / \$31.90
360° Pole Kit	\$395.00
Sliding gate - rail to post / post to post / rail to rail	\$995 / \$995 / \$1,050
Sliding gate top handle for cat walk	\$40.00
Anti backing ratchet	\$430.00
Post Extender Bracket	\$28.50
Catwalk Brace	\$49.00

Stockyards Ltd: (ex Te Kauwhata) 2008 prices

Slam gate catch	\$40
Sliding gate	\$386
Automatic backing gate/rail	\$289/\$258
Creep backing rail - 0.75 /1.2 m	\$277/\$343
Catwalk bracket	\$36
Catwalk mesh	\$9 / m
Race hoop	\$68
Race/Vet gate – 0.7m	\$186
Race gate - .0.8m	\$198
Diversion gate – 1.1m	\$220
Draft gate – 1.6m	\$265
Yard gates – 2.4m	\$300
Entrance gate – 2.8m	\$315
Anti-rustler gate	\$333

Mobile Yards

Panels	\$332
Race bows	\$186
Loading race	\$2,771

Drafting Race

TePari Ltd:

3 Way Draft Module Standard	\$3,850.00
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Loading Race

Hynds Rural

Product Code	Description	Retail
LRCH	Loading race with 1.4m high rails	\$4,228.38

TePari Ltd:

Cattlemaster Standard loading ramp - no catwalk /catwalk	\$3,295.00 / \$3,495.00
Cattlemaster - Adjustable height / dual height	\$9,995.00 / \$18,850.00

Headbails

TePari Ltd: (Further features available for purchase)

Cattlemaster Calf Bail - Front opening / Maxi Bail	\$995.00 / \$1,675.00
Cattlemaster lifestyle series – Vario / Standard	\$695.00 / \$1,195.00
Cattlemaster utility series - Standard / Classic	\$1,950.00 / \$2,450.00
Cattlemaster professional series - Classic	\$3,450.00

Holdem Cattle Handling Equipment Ltd:

450 calf bail	450mm wide, for de-horning and tagging calves	\$675.95
660 head bail	Galvanized, race width 600mm to 720mm	\$1,159.95
800 head bail	800mm wide, race width 720 to 900mm	\$1,259.95

LH660 Statesman Crush	LH660 head bail, 2700mm length, 800mm width, comes with nosebar, S/S pulley, 2x draft gates, 1x vet gate (gates c/w slam latches and anti-backing ratchets).	\$5,999.95
Slam-Close latches	Fully galvanised, for wood or steel gates	\$69.95 to \$79.95
Nose bar attachments	Attaches to all models of bail, 3 sizes.	\$299.95
Anti-backing ratchets	1200mm long, fits any gap between rails of 125-225mm	\$559.95
Heavy Duty Automatic anti-backing arm		\$559.95
Sliding gates	for holding stock on a weighing platform, fully galvanized	\$999.95
600mm vet gates	height 1200mm, hot dip galvanized	\$499.95

Stockyards Ltd: (ex -Te Kauwhata) 2008 prices

Manual 'V'	\$1,237
Warwick Headbails Drover	\$3,164

See also *Section 2.3.15* Stock Management.

Cattle Crushes

Stockyards Ltd: (ex -Te Kauwhata) 2008 prices

Warwick Cattle Crush - Drover models	\$8,682/\$9,449
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TePari Ltd: (Further features available for purchase)

Vario Handler lifestyle series Std / Multi Purpose	\$3,250.00 / \$6,950.00
Cattlemaster utility series - various	\$5,900.00 to \$9,500.00
Cattlemaster vet models, professional series	\$14,150.00 to \$16,750.00
Cattlemaster vetless models, professional series	\$12,150.00 to \$14,750.00

2.21.8 Stockyards - Deer

Kean Deer Yards (Peter Hendriks, Loburn):

Outer Yards, various plans available	
Plans D, E and F - 40 m yard walls, 3.6m, 3 x 3m, 1.8m gates, loading ramp	\$14,248
Yards with 500 head capacity (9m x 7.5m) would cost in the region of \$28,080 to \$39,000 (includes some holding pens outside the shed).	

Equipment

Kean Deer Yards (Peter Hendriks, Loburn):

Gates	1.2m wide 2.2m high	\$234
	2.4m wide 2.2m high	\$459
	3.6m wide 2.2m high	\$659
Gate catches	12mm pin frame catch	\$20
	12mm pin, spring and flat/ 16mm pin, spring, and flat	\$9.50/\$10.50

Loading Race

Kean Deer Yards (Peter Hendriks, Loburn):

Work and weigh race, 3m long x 800m wide, curtain	\$2,930
Swinging work race, part of large pen, push into race situation, 2.7m gate	\$1,248
Scale race, weigh, record, and draft from one position.	\$2,457
Loading ramp, free standing	\$2,368

Crushes

Heenan Engineering Company Ltd:

Heenan workroom hydraulically controlled deer handler	
Standard Model – fits between walls 3.1m apart	from \$10,453
Short Model – fits between walls 2.6m apart (made on order)	POA
Electric Power Pack	from \$2,117
Wedge wall	from \$1,430

Kean Deer Yards (Peter Hendriks, Loburn):

Crushes	
Full circle 4m with two revolving doors, up to 8 exit doors	\$6,006
Half circle 4.5m with two revolving doors, up to 4 exit doors	\$4,290
Quarter circle 2.4m with one forcing door, 2 exit, 3 door panel	\$3,579
Octagon with 4 x 0.8m doors and walls	\$3,640
Crush, side loading, portable, padded	\$3,709

2.21.9 Stockyards - Sheep

Prattley Industries: Price varies markedly, depending mainly on capacity.

3 m (10') Standard 580 ewe capacity	\$8,447
4.3 m (14') Alloy Mobile Sheeppark 2200 ewe capacity	\$21,182
4.9 m (16') Alloy Mobile Sheeppark 2600 ewe capacity	\$25,623

This example sheep yard is an average of *Prattley Industries Ltd* production line.

Portable 3m (10') Super Alloy sheep yard (750 ewe capacity), includes 3 section, single lane handling race	\$15,983
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Equipment

Stockyards Ltd: (ex Te Kauwhata) 2008 prices

4.0 entrance gate	\$278.00
2.5 yard gate	\$166.00
1.8 diamond gate	\$137.00
1.2 drafting gate	\$109.00
Slam gate catch	\$29.00
Adjustable sheep race	\$559.00
Sheep loading race/6 deck loading on 12v electric winch	\$2,800.00

Sheep Handlers

Prattley Industries Ltd:

Standard Sheep Handler	\$4,188
Sheep Conveyor 4.2m-Mobile	\$34,350

Loading Ramps

Prattley Industries: (freight additional)

Sheep	6.8m loading ramp on 13" wheels	\$4,400
	5.8m double or single lane ramp on 8" wheels	\$3,950
	portable, single lane 2.3m / 3.0m / 3.6m long	\$825 / \$1,125 / \$1,245
Cattle	- 2.8m mobile standard on 8" / 13" wheels	\$4,010 / \$4,320
(c/w wooden	- 3.6m mobile deluxe on 13" wheels	\$6,490
floors)	- 2.8m stationary standard / collapsible (alloy)	\$3,030 / \$2,363

2.21.10 Greenhouses, Growing Tunnels and Tunnel Houses

Redpath Pacific Ltd:

Commercial:

Crop King curved rafter truss house. Double ridge ventilation 30% roof area, twinskin covers, up to 4.5m stud height, crop support, doors, 180 micron *Duratough* 4 year life minimum greenhouse film (delivered).

Approximately 929 square metres	- kitset	from \$63.00 per sq metre
	- constructed	from \$85.00 per sq metre

Vented Arch Design:

Roof ventilated crop cover. Single skin, roll up side vents and doors.

Approximately 929 square metres, ultra heavy-duty kitset from \$45.00 per square metre

180 micron, 4 year warranty greenhouse covers constructed from \$62.00 per square metre

Crop Cover:

Side ventilated arch roof design, single skin, up to 3 metre stud height.

Approximately 929 square metres, ultra heavy-duty kitset from \$34.00 per square metre.

200 micron, 4 year warranty greenhouse covers constructed from \$46.00 per square metre.

Propagation Greenhouse:

Semi-commercial, truss design, twinskin, ridge vent for full length, 1 door.

Sizes	4.1 x 6m / 8m / 10m	\$3,990 / \$4,415 / \$4,837
	4.1 x 12m / 14m / 16m	\$5,247 / \$5,650 / \$6,008

Hobby & Training Greenhouses:

All 2.5m wide, one sliding door one end, glass louvre window one end, aluminium frame & base rail included, *Duratough* 180 micron 4 year cladding, Roof vent on 4 larger models.

Sizes	2.4m / 3.6m / 4.8m	\$1,071 / \$1,199 / \$1,531
	6.0m / 7.2m / 6.0m	\$1,690 / \$1,950 / \$2,220

Harford Greenhouses:

Harford Propagator, single vent, 2.1 metre column, no gutters:

6 metres x 9 / 12 / 15 metres long	\$8,007 / \$9,046 / \$10,092
9 metres x 12 / 15 / 18 / 21 metres long	\$12,176 / \$13,608 / \$14,698 / \$16,131

Harford Maxi Span, twin vents, 9.2 metre span, 2.1 metre column:

24 / 30 / 36 / 48 metres long	\$20,680 / \$23,601 / \$26,497 / \$32,338
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Harford: Super Maxi Span, twin vents, 12.5 metre span, 3.0 metre column:

24 / 30 / 36 / 48 / 60 metres long	\$33,771 / \$38,337 / \$42,930 / \$52,096 / \$61,377
Maxi Sawtooth	from \$88 per m ²
Budget Span	from \$49 per m ²
Crop topper	from \$38 per m ²

Sliding doors	\$748 per set
Wind and temperature controllers	\$1,875 to \$7,199

Redpath Pacific Limited/ Kerilea Horticultural Systems Ltd:

All frames priced and sold in packs of 25 (prices - ex factory Levin).

Lo-Tunnel Cloche Frames			Keri-Tough Cloche Plastic			
Frame width	Frame height	Price per pack	Roll width	µ	Roll length	Price per roll
0.6m	0.30 m	\$103.91	1.12 m	50	250 m	\$99.00
0.6mh	0.55 m	\$112.02	1.62m	50	250m	\$129.20
0.8m	0.50 m	\$127.02	1.76 m	50	250 m	\$129.38
0.8mh	0.65 m	\$144.62	1.96 m	50	250 m	\$179.00
1.0m	0.45 m	\$136.17	2.65 m	50	100 m	\$86.00
1.0mh	0.55 m	\$144.71	3.40 m	50	100 m	\$139.00
1.0mhp	1.00 m	\$189.87				
1.5m	0.60 m	\$172.89				
1.5mh	0.75 m	\$189.86				
2.0m	0.90 m	\$223.82				
1.3hy	0.8 m	\$173.24				
1.8hy	0.9 m	\$212.27				

End frames (per single unit)	1.3 x 0.8m	End frame only	\$14.40
	1.8 x 0.9 m	End frame only	\$20.00
Insulnet/ frost cloth	2m x 100m rolls		\$279.80
	3m x 50m rolls		\$215.00
	4m x 50m rolls		\$279.80

Hi GroTunnels (relocatable crop covers)

Available in 5m widths	
5m x 12 m length	\$3,500.00
5m x 16m length	\$4,066.00
5m x 20m length	\$4,632.00
5m x 24m length	\$5,200.00
5m x 36m length	\$6,700.00
5m x 48m length	\$8,200.00
5m x 60m length	\$9,750.00
Optional	
Hi-Tunnel door ends	\$448.14 per end
Hi-Tunnel closed ends	\$220.60 per end

Tunnelworld:

Townhouse Model:

3m x 2.3m to 2.3m x 6m - all with 1 covers, solid ends	\$1,145 to \$1,496
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Mini Tunnelhouses

3m x 4m to 3m x 30m (1.5m height) - all one cover only	\$1,766 to \$5,558
4m x 6m to 4m x 30m (1.5m height) - all one cover only	\$2,624 to \$7,163

Greenhouse Film

Quantum Grow Ltd:

Duratough – 200 micron, 1 to 14 metre widths

0 to 50 square metres	\$4.20 per square metre
50 to 100 square metres	\$3.30 per square metre
100 to 200 square metres	\$2.64 per square metre
over 200 square metres	\$2.37 per square metre

Placemakers: Price per roll

Polythene Black heavy duty 4m x 25m / 4m x 50m	\$128.38 / \$252.03
Agpac Polythene black 125 micron 1m x 100m	\$204.48
Agpac Polythene Clear 250 micron 2m x 50m	\$328.00
Sellotape BGPVC joining tape 48mm x 30m	\$9.76

Cosio Industries Ltd:

Building and Agricultural Polythene				
	Width	Length	Gauge	
Black	1 to 4m	50 to 100m	80µ	\$36.00 to \$72.00
	1 to 5m	50 to 100m	125µ	\$50.00 to \$125.00
	2 to 4m	25 to 50m	250µ	\$89.00 to \$164
Clear	2 to 4m	50 to 100m	50µ	\$72.00
	1 to 5m	50 to 100m	80µ	\$60.00 to \$150.00
	1 to 5m	50 to 100m	125µ	\$90.00 to \$225.00
	2 to 4m	50m	250µ	\$170.00 to \$340.00

Polythene Packs

Black 125µ, 2m x 5m to 4m x 15m	\$9.50 to \$57.00	
Black 250µ, 2m x 5m to 4m x 15m	\$11.00 to \$66.00	
Polygro per m	200µ 2/4/6m	\$4.40/\$8.80/\$13.20
	200µ 7/8/10m	\$15.40/\$17.60/\$22.00
Titan Reinforced Polythene Film 2m x 50m roll, clear	\$355.00	
Greenhouse Film Lock		
Single Base 4m length / Twin Base 4m length	\$17.50 to \$37.00	
Steeltight screws 12 x 20 per 100 each	\$13.00	
Timbertech screws 12 x 25 per 100 each	\$13.50	
Black polythene adhesive tapes - per roll	\$4.10 to \$16.00	
Ducting- layflat polythene tube, clear, varying sizes	\$53.00 to \$118.00	
Frametape - film protection adhesive 30mm/50mm/70mm	\$19.50 to \$43.00	
Greenhouse repair tapes- clear UV stable tape 25m x 48mm / 96mm	\$11.50 / \$23.00	
Mulch film, black, 30µ, 500m x 750 /900 /1200 /1600 /1800mm	\$78.00 to \$225.00	
Cloche film/row covers, clear 50µ, 500m x 1200 / 1600 / 2000mm	\$175 / \$228 / \$295	

Glasshouse Heating

Quantum Grow Ltd:

Propagation Heating	
Soil heating cable "Camplex"	\$101 to \$648
Thermostat ET 0° – 40° standard	\$95.00
Thermostat ET 0° – 40° fitted with phase interruption plug	\$140.00

Egmont Commercial Ltd:

Thermometer – propagating / soil /	\$12.80 / \$14.40
Thermometer Max-Min / Digital-Hydro / Digital-Pen	\$19.95/\$64.00/\$29.95

Exal Industries Ltd:

Exal Heating Cable

Cable Size to suit:		
0.2 to 0.3 m ²	25 watt	\$100.00
0.6 to 0.8 m ²	100 watt	\$150.00
1.2 to 1.6 m ²	230 watt	\$296.00
1.8 to 2.3 m ²	350 watt	\$332.80
3.6 to 4.6 m ²	700 watt	\$453.00
5.5 to 7.5 m ²	1150 watt	\$617.00
8.0 to 11.7 m ²	1750 watt	\$653.00

Glasshouse thermostats:

ETP 0 - 40 std	\$95.00
ETP 0 - 40 plug set	\$115.00
ETP 0 - 40 3 stage	\$140.00
Aspirator box all models	\$240.00

Stainless Steel Electric Fan Heaters

300 series	10kW / 15kW	\$1,450 / \$1,950
400 series	20kW / 30kW	\$3,200 / \$3,800
500 series	20 to 40kW / 30 to 60kW	\$4,450 / \$4,950

Redpath Pacific Ltd:

Environment Controllers	from \$4,680
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Shoof International: (Prices include delivery on orders over \$75)

Min-Max outdoor mercury thermometer	\$15.07
Soil Temperature Thermometers	\$20.40 to \$22.17

Richard Anderson Greenhouses Ltd.:

Propagation Heating	
- soil heating cables	\$125 to \$825
- heatwave heating panels (made to order) e.g. 1m x 5m	\$670

Energy Products International:

Indirect Air Heaters (Flued):

Greenhouse heaters. Aquatherm Clever AH series have a size range of 100kW to 1500 kW with the option of diesel oil, natural gas, TLP gas or LPG as fuel. \$12,860 to \$40,425

Hot Water Air Heaters:

Aquatherm Clever SB series fan coil units from 100 l/s air to 1500 l/s (3kW to 67 kW heating). \$1,390 to \$4,275

Aquatherm Clever MC series air handling units from 500l/s air to 16,300 litres per second (18kW to 720kW). \$2,890 to \$44,814

Greenhouse Radiators:

Econorad series radiators, hot dip galvanised for protection, size range from 140 to 770mm height x 500 to 3800mm long. \$265 to \$4,045

Greenhouse Hot Water Boilers:

Aquatherm Ygnis AY and EM series boilers have a range of 100kW to 3000kW with option of diesel oil, natural gas, TLP gas or LPG \$9,240 to \$64,500

Pensotti/Immergas/DeDietrich small boilers LPG, natural gas, diesel, 30-100kW. \$1,800 to \$7,200

Greenhouse Gas Heating

Lennox Ducted Furnaces G34 – G62, multi position furnaces, range 12kW – 36kW. Natural gas or LPG \$2,425 to \$5,150

(Freight not included. Prices may fluctuate depending on exchange rate.)

Glasshouse Ventilation

Exal Industries Ltd:

	Product	CFM	Price
Ventilation Fans	EM 24	5500	\$990
	ER 36	12000	\$1,260
	ER 50	25000	\$1,375
Stirrer Fans	SF 450	4000	\$385
	SF 600	5500	\$550
Evaporative coolers	EV 1200	3600	\$640
	EV 1800	5400	\$780
	EV 2400	7200	\$925
	EV 3000	9000	\$1,185
Automatic Louvres	EL 1200	4500	\$700
	EL 1800	6750	\$900
	EL 2400	9000	\$1,100
	EL 3000	11250	\$12,000

Kanters Engineering & Machinery Ltd:

Greenhouse Fans – 180 watt \$329

Quantum Grow Ltd:

Vortex – Horizontal greenhouse fan from \$375.00

Glasshouse Watering

Cosio Industries Ltd:

Aquafelt capillary watering mat

Reinforced, white, 1050mm x 25m rolls / 2100mm x 25m rolls	\$175.00 / \$350.00
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Quantum Grow Ltd:

Propagation

Balance arm misting controller	\$280.00
Transformer, 24 volt	\$41.25
Solenoid valves, 24 volt x 20 mm	\$55.00
Misting nozzles	range from \$1.50

Plant Feeding

Fertigation nutrient injectors	Venturis Mazzei	\$205 to \$1,082
	Automatic proportional feeders	from \$1,650

Exal Industries Ltd:

Misting kit	\$280
Balance arm mist controller	\$150
24 volt transformer	\$44
Solenoid valve	\$38
Mist nozzle	\$7
Fog nozzle	\$24

Richard Anderson Greenhouses Ltd:

Misting equipment	
- Minimist system	\$405
- Mist timer	\$485
- Misting nozzles	\$7

2.21.11 Houses/Cottages

Skyline: (prices may vary depending on location and other factors)

One bedroom unit shell / complete	7.2m x 6.0m	\$24,450 / \$55,000
One bedroom unit shell / complete	9.0m x 6.0m	\$30,000 / \$60,000
Two bedroom unit shell / complete	9.6m x 6.6m	\$35,200 / \$68,700
Two bedroom unit with garage, shell / complete	12.0m x 7.2m	\$41,500 / \$80,200
Three bedroom unit shell / complete	12.0m x 7.2m	\$45,000 / \$85,000
Three bedroom unit with garage, shell / complete	15.6m x 7.2m	\$55,150/\$103,200
Sleepouts/Offices: (estimates only)		
Basic single 3.6 x 2.7m no building consent required. Erected		\$12,000
Basic 1 bedrm 4.2 x 3.0m concrete or timber floor		\$16,000
Bedroom / Optional Ensuite / 4.8m x 3.6m concrete or timber floor		\$19,000 / \$25,000
Bedroom with study 6.0m x 3.6m concrete or timber floor		\$22,000

Note all lined buildings are insulated, and double-glazed, to Council specifications.

Durobuilt Industries Ltd: Range of 6 cottage styles – completed price incl GST

One bedroom	\$41,011 to \$81,795
Two bedroom	\$66,640 to \$86,066
Three bedroom	\$96,869 to \$114,654

2.21.12 Garages

Durobuilt Industries Ltd:

All Steel: Zinalume cladding	(GST excl)
6m x 4m / 6m / 9m	from \$4,596 / \$5,699 / \$6,978
7.2m x 6m / 9m / 12m	from \$6,775 / \$9,078 / \$11,918
6m x 3.6m steel carport	from \$1,338
6m x 5.4m steel carport	from \$1,732
9m x 6.3m steel carport	from \$2,742

Skyline:

Colorcote	m	approx
Double Garage/Sleepout, concrete floor (Shell)	9 x 6m	\$27,200
Double Garage/Sleepout concrete floor, lined, dble glazed	9 x 6m	\$35,300
Single Garage, Kitset (1 tilt door - 1 access door)	6.0 x 3.6	\$5,500
Double Garage Kitset (2 tilt doors - 1 access door)	6.0 x 6.0	\$7,360
Double Gge+Workshop Kitset(2 tilt doors - 1 access dr)	9.0 x 6.0	\$9,400
Single Gge, Built, (1 tilt door - 1 access door) Colorcote	6.0 x 3.6	\$8,200
Double Gge,Built (2 tilt doors - 1 access door) Colorcote	6.0 x 6.0	\$13,300
Double Gge +Workshop Built (2 tilt doors - 1 access door)	9.0 x 6.0	\$17,500

Skyline: Carports

Formsteel – Flat Roof	Unpainted	Painted
Single 6.0 x 3.6m erected	\$2,850	\$3,400
Double 6.0 x 6.0m	\$4,100	\$4,800
Triple 9.0 x 6.0m	\$5,350	\$6,320
Pitched Roof Carport	Clearcote	Colorcote
6.0 x 3.6m	\$4,260	\$4,600
6.0 x 6.0m	\$5,600	\$6,000

2.21.13 Implement Sheds/ Haybarns/ Packing Sheds/ Stock Shelters / Dog Motels

Implement Sheds

Durobuilt Industries Ltd:

Small Block Implement Sheds - 3m wide bays, 3m stud, open one side.

6m x 6m	2 bays / extra bay	from \$6,133 / \$1,886
6m x 7.5m	2 bays / extra bay	from \$7,258 / \$2,077
9m x 9m	3 bays / extra bay	from \$10,829 / \$2,452
12m x 10.5m	4 bays / extra bay	from \$15,005 / \$2,660
12m x 12 m	4 bays / extra bay	from \$16,163 / \$2,868
Farm implement sheds - all steel, 5 m wide bays, 3m stud, open one side		
15m x 7.5m	3 bays / extra bay	from \$12,660 / \$3,180

15m x 9m	3 bays / extra bay	from \$14,300 / \$3,460
15m x 10.5m	3 bays / extra bay	from \$16,675 / \$4,279
15m x 12m	3 bays / extra bay	from \$18,125 / 4,600

Note some higher studs are also available.

Lean-to implement sheds - open across front, 4.15 m bays

8.3m x 6m deep	2 bays / extra bay	from \$7,440 / \$2,240
8.3m x 7.5m deep	2 bays / extra bay	from \$8,218 / \$2,425

Haybarns / Packing Sheds

Durobuilt Industries Ltd: All steel, 4m bays

17m x 15m	4 bays / extra bay	from \$35,934 / \$6,153
17m x 18m	4 bays / extra bay	from \$41,847 / \$7,201
17m x 21m	4 bays / extra bay	from \$45,821 / \$7,760

Extras

Rolla door / Egress door	\$4,234 / \$1,163
100mm concrete floor	\$74/m ²

Goldpine:

All bays 4.5m wide, Zinalume only, Lean- To.

6m deep x 4.2 to 3.6m high		6m deep x 3.6 to 3.0m high	
2 bay	\$5,157.03	2 bay	\$4,835.93
3 bay	\$6,739.63	3 bay	\$6,305.94
4 bay	\$8,306.03	4 bay	\$7,739.76
5 bay	\$9,940.41	5 bay	\$9,341.55
6 bay	\$11,589.11	6 bay	\$10,907.66
9m deep x 4.2 to 3.6m high		9m deep x 3.6 to 3.0m high	
2 bay	\$6,704.70	2 bay	\$6,246.95
3 bay	\$8,666.63	3 bay	\$8,156.30
4 bay	\$10,670.17	4 bay	\$10,047.25
5 bay	\$12,872.48	5 bay	\$12,196.97
6 bay	\$14,860.51	6 bay	\$14,072.42

Calder Stewart Industries Ltd:

Indicative Square metre prices for erected farm buildings

Covered Yards	\$105 to \$115/m ²
Implement Sheds	\$190 to \$230/m ²
Haybarns	\$150 to \$170/m ²
Farm Workshops	\$240 to \$280/m ²
Packing Sheds	\$250 to \$300/m ²
Growing Sheds	\$250 to \$300/m ²
Storage Buildings	\$250 to \$300/m ²

Prices may vary depending on location, size, number of walls, floors, windows and general layout etc.

Stock Shelters

Durobuilt Industries Ltd:

Calf Rearing Shelters – 2.2m stud, open one side

6m / 9m x 6m from \$5,452 / \$7,129

Sawdust for calf sheds: *Canterbury Landscape Supplies* charges \$7.11 per scoop.

Dog Motels

Aabaas Industries: (Prices are ex Christchurch factory)

	Motel (kennel + run)	Kennel	Run
Small	\$388	\$205	\$183
Medium	\$561	\$291	\$270
Large	\$616	\$335	\$281
Extra large	\$672	\$366	\$306

McInnes Manufacturing Ltd:

Dog Kennels (mansion - with verandah and run) \$888.88

2.21.14 Bridges

Stahlton Engineered Concrete
www.stahlton.co.nz

(prices exclude handrails and abutments)

Pivot Irrigator Bridge slabs 1.2m wide		
Up to 7.5m span	200mm thick	\$105 per linear metre
7.5m to 12m span	300mm thick	\$130 per linear metre
Flat Slab Bridges 3.6m wide Class 1		
3m span / 5m span / 6.7m span		\$2,672/ \$4,250 / \$5,628
Double TT Bridge Slabs 3.6m wide	Rating	Maximum span
	HNHO 72	12.5m
	Class 1	14.0m
	Stock / light vehicle –7 tonne	20.0m
8m span / 10m span / 12m span		\$11,100 / \$12,580 / \$14,472
14m span / 16m span		\$16,212 / \$18,208
18m span / 20m span		\$19,980 / \$21,720

Please note these prices are tracking down as world steel prices for strand and reinforcing reduce again.

2.21.15 Grain Silos

Grain Silos

Dan Cosgrove Ltd: Farm Sized Silos

Model	Diam (m)	Overall height (m)	Bushel capacity	Metric tonnes		Capacity m ³	Wholesale price
				Wheat	Barley		
15/4	4.58	4.59	1820	49	41	61.06	\$5,800
15/5	4.58	5.41	2222	60	50	74.56	\$6,440
15/6	4.58	6.22	2620	71	59	87.89	\$7,430
18/4	5.49	4.85	2678	73	60	89.86	\$6,930
18/5	5.49	5.67	3257	88	74	109.27	\$7,880
18/6	5.49	6.48	3829	104	87	128.44	\$8,910
18/7	5.49	7.29	4400	119	100	147.61	\$9,990
18/8	5.49	8.1	4972	135	113	166.78	\$11,250
18/9	5.49	8.92	5550	151	127	186.19	\$12,740
21/5	6.41	5.93	4535	123	103	152.13	\$9,860
21/6	6.41	6.74	5302	144	121	177.85	\$11,250
21/7	6.41	7.55	6081	165	139	203.98	\$12,290
21/8	6.41	8.36	6860	186	157	230.11	\$13,860
21/9	6.41	9.18	7648	207	175	256.56	\$15,350
24/5	7.32	6.2	6012	163	137	201.69	\$11,340
24/6	7.32	7.01	7029	191	160	235.78	\$13,130
24/7	7.32	7.82	8046	218	184	269.86	\$14,510
24/8	7.32	8.63	9061	246	207	303.95	\$15,750
24/9	7.32	9.45	10090	274	232	338.45	\$17,450

All prices are ex Timaru factory. All silos are supplied complete with walk-in doorways, external wall ladder and dyna bolts. No safety cage is included. Silo ladder fits down to 1.6m from silo base.

Transportable Silos

Dan Cosgrove Ltd: 30° Cone Base

Model	Diam (m)	Overall Ht (m)	Bushell Capacity	Wheat (t)	Barley (t)	Price
CB12/3	3.66	4.93	938	27	23	\$8,000
CB12/4	3.66	5.74	1191	33	29	\$8,400
CB12/5	3.66	6.55	1424	40	35	\$8,950
CB12/6	3.66	7.36	1667	46	41	\$9,600

Price includes free delivery 100 km from Timaru. \$3.30 plus GST per kilometre thereafter. Silos come complete with external wall ladder.

High Legged Transportable Silos

Dan Cosgrove Ltd: Five legs, 30° Cone Base & 45° Cone Base

Model	Diam (m)	Overall Ht (m)	Wheat (t)	Barley (t)	Price
HL12/3	3.66	5.930	25	21	\$8,750
HL12/5	3.66	7.550	38	33	\$9,800
HL12/3- 45°	3.66	6.55	27	23	\$9,970
HL12/5- 45°	3.66	7.36	40	35	\$10,920

Prices include free transport up to 100 kilometres from Timaru and \$3.30 per km plus GST thereafter. c/w ladder.

Feed Silos

Kit-Set Feed Silos

Dan Cosgrove Ltd: All prices ex Timaru factory (kitset price - erection and transport extra).

Tonnes Wheat	Tonnes Barley	Cubic metres	Overall Height	Price
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1.83 diameter with 60⁰ centre draw hopper to 450 mm opening

3.13	2.67	4.09	3.280	\$3,400
4.77	4.07	6.23	4.090	\$3,680
6.41	5.46	8.37	4.913	\$4,000
Factory erection cost \$800				

2.74 diameter with 45⁰ centre draw hopper to 150 mm opening

6.92	5.90	9.03	4.299	\$4,300
10.59	9.03	13.82	5.113	\$4,600
14.26	12.16	18.62	5.927	\$5,000
17.93	15.29	23.42	6.741	\$5,500
Factory erection cost \$1000				

2.74 diameter with 60⁰ centre draw hopper to 450 mm opening

8.41	7.17	10.98	4.187	\$4,500
12.08	10.30	15.77	5.000	\$4,800
15.75	13.43	20.57	5.815	\$5,200
19.42	16.56	25.37	6.629	\$5,700
Factory erection cost \$1,100				

2.21.16 Diesel Tanks

Ross Irving Ltd:

Price varies with each application depending on the fittings and containment required, plus location and transport.

500 litre to 2000 litre tanks	\$1,200 to \$2,500
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2.21.17 Killing Sheds

Concrete

HyndsPipe Systems Ltd:

Varying sizes	Prices range from \$3,000 to \$4,500
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2.21.18 Dangerous Goods Sheds

Hynds Rural:

Product Code	Description	Retail
DG1990AM	Small Dangerous Goods Shed	\$5,194.99
DG2400AM	Medium Dangerous Goods Shed	\$7,459.43

2.21.19 Building Materials

Roofing

Placemakers:

Corrugated Zincalume .40 762mm CVR 1.8m / 3.6m	\$28.40 / \$57.72 per sheet
Coralite XS corrugated clear 1800 x 762mm / 3600 x 762mm	\$29.32 / \$50.65 per sheet
Marley Stormcloud spouting MS1.3 x 3m / MS1.5 x 5m	\$23.99 / \$39.99 per length
Marley Stormcloud spouting Joiner MS5	\$2.91 each
Marley 65mm RP65 / 80mm RP80 round downpipe - 3 m	\$21.32 / \$27.54 per length

Cement Products

Higgins Concrete Ltd: (ex Palmerston North and Feilding)

Concrete Grade	19 mm (\$ per m ³)	12 mm (\$ per m ³)
10 / 15 / 17.5 / 20 MPa	\$166 to \$184	\$172 to \$190
25 / 30 / 35 / 40/50 MPa	\$195 to \$254	\$201 to \$261
Kerbmix	\$195	\$206
Blockfill		\$215
Accelerator (calcium chloride)	per 1%	\$5.00 per m ³
Non Chloride Accelerator	per 1% / per 2%	\$9.10 per m ³ / \$16.00 per m ³
Superplasticiser		\$15.00 per m ³
Fibre Mesh		\$25.00 per m ³
Black colouring		\$60.00 per m ³
Small load surcharge	<1.0m ³ / < 2.0m ³	\$50.00 / \$30.00 per load

Truck Hire - \$100 per hour

Firth Industries Ltd:

Hollow Masonry Blocks

	Auckland	Hamilton	Christchurch
2004Standard / 2002Half	\$1.89 / \$2.83	\$3.10 / \$2.50	\$3.58*
2014Bond Beam / H2004Half High Std	\$2.93 / \$2.29	\$3.10 / \$2.97	\$3.58*
1504Standard / 1512Half	\$2.51 / \$2.51	\$2.64 / \$2.50	\$2.94*
1516Bond Beam / H1504Half High Std	\$2.51 / \$2.51	\$2.64 / \$2.50	\$2.94*

NB Auckland and Hamilton prices excl freight *Includes freight to Christchurch metro.

Shingle Products

Canterbury Landscape Supplies:

River Stones (small/ mix)	\$18.67 per scoop
Top Course	\$19.55 per scoop
10mm chip / 19mm premix	\$21.33 / \$19.55 per scoop
Plastering Sand	\$26.67 per scoop
Crusher Dust	\$19.55 per scoop
Lime Chip 2 to 12mm	\$37.33 per scoop
Oamaru Pebble	\$40.89 per scoop
Tasman Blue Chip	\$42.67 per scoop

Higgins Concrete Ltd:

Pea Metal	(minimum charge \$60 per load)	\$25.00 per m ³
River Run	(minimum charge \$60 per load)	\$25.00 per m ³
Gap 40 Basecourse	(minimum charge \$75 per load)	\$30.00 per m ³

Fulton Hogan Quarries: (price per tonne from Pound Road Quarry)

Sealing chip	G2 to G6	\$22.40 to \$30.00
Special chip	SC12	\$22.40
Sand	Natural / Plastering	\$23.20 to \$43.00
	Fill / Cyclone / 2A	\$17.60 / \$17.60 / \$39.00
Premix	(Blended) BM7 to BM20	\$19.20
Cement		\$13.50 per bag

Polythene

See *Section 2.21.10*

2.22 SHELTER and FARM FORESTRY COSTS

2.22.1 Seedling Trees

Allenton Nurseries Ltd:

(Farmers, orchardists and trade suppliers only, quantity discounts available: 10 – 15%)

	Grade	
Alders	180/250cm	\$10.00 each
Poplars	180/200cm	\$6.00 each
Pittosporum	40/50cm	\$5.50 each

Appletons Tree Nursery:

Note: Quotes will be given on large orders – 350 species listed.

	Price per 50+	Price per 1,000
Cupressus lusitanica	0.90ea	0.50ea
Cupressus macrocarpa	0.90ea	0.50ea
Italian Alder (Alnus cordata) in varying heights	\$1.35 to \$5.40ea	\$1.30 to \$5.20
Douglas Fir 2/0 Seedlings	\$0.70 ea	\$0.50 each
Quercus (Oak) species in varying heights	\$3.90 to \$8.50ea	\$1.35 to \$5.40
Poplar varieties (rooted plants in varying heights)	\$3.20 to \$4.80ea	\$1.40 to \$2.20ea
	Price per 100+	Price per 1,000
Pinus radiata <i>Seedlings</i>		
GF19	\$36 (per 100)	\$255
GF Wood Density 24	\$74 (per 100)	\$522
<i>Cuttings</i>		
GF+ Wood Density 24	\$74 (per 100)	\$522
	Price per 10 – 40	Price per 50+
Eucalyptus fastigata & nitens	\$2.40ea	\$1.00ea
Pinus canariensis	\$2.40 to \$2.90ea	\$1.00 to \$1.30ea
Pinus densiflora	\$3.00 to \$4.70ea	\$1.60 to \$2.70ea
Pinus pinea	\$2.40 to \$3.70ea	\$1.00 to \$2.00ea

Gibbs Nurseries Ltd: Dannevirke (price per 100 F.G.=Field Grown/C.G.=Container Grown)

Abelia (Grandiflora) F.G. / C.G.	\$275.00 / \$390.00
Acacia spp (Wattle) C.G.	\$260.00
Alnus Cordata F.G. / C.G.	\$280 / \$350
Cedrus Deodara (Indian Cedar) 2 year trees	\$280.00
Cupressus varieties 1,2,3 year trees, F.G. / C.G.	\$110-\$250/ \$346.67-\$400
Eucalyptus species C.G.	\$260 to \$350
Liquidamber C.G.	\$320
Phormium/Varigated Hybrids F.G.	\$300
Pinus Radiata: 1yr (selected), 1.5 / 2yr (sturdy) F.G.	\$78, \$105 / \$130
Pittosporum varieties	\$320
Populus spp. (Poplars) F.G.	\$260
Salix Matsudana (Willow) F.G.	\$260
Sequoia (Californian Redwood) F.G.	\$260
Tree Lucerne C.G.	\$260

Murray's Nurseries Ltd.:

Note: Quotes will be given on larger orders. Some trees are sold as lifted and transplanted so prices may differ from this guide. Some discounts available.

	Price per 10	Price per 100
Acacia mearnsii Firewood wattle 40cm	\$10.00	\$60.00
Acacia dealbata Fast shelter 40cm	\$10.00	\$60.00
Alnus glutinosa 40-60cm / 60-100cm	\$22.00 / \$25.00	\$180 / \$210
Chamaecytisus palmensis 50-80cm	\$35.00	\$250.00
Cryptomeria japonica Japanese Cedar 35-50cm	\$30.00	\$200.00
Cupressus lusitanica Mexican cypress	\$15.00	\$70.00
Cupressus macrocarpa	\$15.00	\$70.00
Eucalyptus fastigata Top-40cm	\$10.00	\$50.00
Euc. ovata Fuel, coppice, wet cond Top-40cm	\$10.00	\$50.00
Phormium var (for 2011) Div. Topped-40cm-1m	\$25.00 to \$35.00	\$200 to \$220
Populus var Rooted 1.5m to 3m.	\$25.00 to \$30.00	\$180 to \$250
Salix kinuyanagi (fodder) / and other var 1.5-2.5m	POA / \$30.00	\$210.00
<hr/>		
Pinus radiata <i>Seedlings</i>	Price per 100	Per1000 packed
20cm-30cm GF16	\$30.00	\$235.00
20cm-30cm GF19	\$40.00	\$265.00
30cm GF26 ctrl pollinatedWD23Topped	\$55.00	\$390.00
Guadalupe X	POA	

2.22.2 Forestry Establishment and Tending Costs

The following figures have been kindly updated by *Forest Management Ltd.* Readers should note that costs vary markedly according to region and locality, size of woodlot, slope, access and vegetation etc. It is recommended that farmers seek advice from qualified persons before incurring any significant expenditure on forestry project work.

Likely costs for forest operations are:

Establishment

Spot spraying before or after planting flat (easy) hill	22 to 30 cents per spot
(The above costs include chemical at 3 to 6 cents per spot)	
Ripper hire	\$35 to \$45 per hour in use
Contract ripping	\$60 per km, or \$180 to \$220 per ha
Hand planting - radiata (bare rooted) - flat	25 to 35 cents per tree
- hill	40 to 45 cents per tree
- other (bare rooted)	40 to 55 cents per tree
- containerised stock	100 to 150 cents per tree

Nutrition

Hand fertilising (phosphate)	25 to 35 cents per tree
Aerial fertilising (phosphate) by helicopter	\$400 to \$550 per hectare
Aerial fertilising (nitrogen) by helicopter	\$400 to \$500 per hectare
Oversowing (grass/legumes) plus fertiliser by helicopter	\$400 to \$500 per hectare
Boron fertilising/Ulexite @ 60kg/ha for 10 to 20 ha	\$200 to \$300 per ha applied

Tending

Pruning	- first lift	\$1.60 to \$2.10 per tree
	- second lift	\$1.60 to \$2.40 per tree
	- third/fourth lift	\$2.00 to \$3.00 per tree
Thin to waste	- first thin to 400 to 600 trees	\$350 to \$600 per ha
	- second thin to 200 to 300 trees	\$400 to \$700 per ha

Note: Hourly rates of \$40 to \$55 per hour, add \$10.50 per hour for chainsaw.

Seedlings

See *Section 2.22.1*.

Fencing

See *Section 2.19*. Fencing Costs

Fire Insurance

Source: NZI

Age of trees at entry to scheme	Premium per unit of value	Sum Insured per unit of value	Premium per \$150 unit insured for re-establishment costs
1yr	\$0.66	\$145	\$0.26
5yrs	\$0.80	\$220	\$0.29
10yrs	\$1.03	\$360	\$0.35
15yrs	\$1.26	\$605	\$0.40
20yrs	\$1.03	\$1130	\$0.46
25yrs	\$0.80	\$2100	\$0.51
30yrs	\$0.66	\$3255	\$0.56

Fire Fighting Costs:

Protection can also be purchased to cover the cost of fighting a fire in a forestry block.

For a sum insured up to \$50,000 the rate is \$55 per \$10,000 cover.

For a sum insured over \$50,000 the rate is \$50 per \$10,000 cover.

Minimum premium is \$55 and a 5% excess applies to all claims.

2.22.3 Logging and Transportation Costs

	Per tonne	
Logging	- Ground based logging	\$19 to \$31.50
	- Cable logging	\$26.25 to \$42
	- Helicopter logging, depends on flight time or distance	\$94.50 and up
Roading	- Range from	\$1.05 to \$10.50
Log loading		\$2.10 to \$3.15
Log transport, less than 25km		21cents per km
Log transport, more than 25km		17 cents per km

2.22.4 Tree Planting Equipment

Levin Sawmakers Ltd:

Planting Spades - length 960 to 980mm, blade length 280 to 370mm, blade width 90 to 170mm, weight 2.55 to 2.77kg	\$89.00 to \$92.00
Planting Frame with Waist Pad + Belt complete	\$86.85

2.22.5 Shelter/Windbreak/Shade and Weed Cloth

Cosio Industries Ltd:

Shadecloth 30% Green/White, 2 x 50m to 4 x 100m	\$155.00 to \$620.00
Shadecloth 50% Green/White, 2 x 50m to 4 x 100m	\$235.00 to \$940.00
Shadecloth 70% Green/White, 2 x 50m to 4 x 100m	\$295.00 to \$1,180.00
Aluminium Thermo Reflective Shadecloth: - 4m	\$16.00 per m ²
Weedmat woven Black, UV stabilised, 0.91 x100m -3.66 x100m	\$80.00 to \$320.00
Geocil fabric, Black,domestic weed control,1m x 25m to 2m x non - woven 100m	\$15.00 to \$120.00
Ground staples (galvanised) for weed control fabrics, 130/230 mm per 200	\$16.00 / \$30.00
Plastic pins for weed control fabrics, 170mm per 50/500	\$8.00 / \$70.00
Micronet Crop and frost protection, 2m / 4m x 50m roll, white	\$125.00 / \$250.00
Frostguard frost protection fabric 16g per m ² 2m x100m /1000m	\$48.00 / \$450.00
30g per m ² 2m x100m /1000m	\$90.00 / \$875.00
Biobird / Canopy - bird protection 4m x 50m / 5m x 100m to netting light grade/commercial 10m x 100m	\$98.00 / \$295.00 to \$585.00
Insect Screen 900mm x 30m fibreglass/aluminium	\$65.00 / \$99.00
Agracil Windbreak green/black, 0.91m to 3.66m x 50m	\$48.00 / \$192.00
Polyclips - windbreak and shadecloth fastening pkt 50 / box 500	\$15.00 / \$95.00

Quantum Grow Ltd:

Windbreak:	Width	Price per 50m roll
Woven windbreak green or black	0.915, 1.83, 2.74, 3.8m	\$53.95 to \$214.00
Windbreak Plus (knitted)	Green, 1.0, 1.83m	\$74.50 to \$149.00
Clips for securing woven windbreak	Bags 100 / Cartons 2000	\$30.00 / \$500.00
Clips for securing Windbreak Plus	Bags 100	\$30.00
Weedmat:		
Black Weedmat	0.915,1.83 widths x 50m	\$43.50 to \$87.00
Black Weedmat	0.915,1.83, 3.66 widths x 50m roll	\$43.50 to \$174.00
White Weedmat	1.10m x 100m roll	\$105.00
	4.20m x 100m roll	\$398.00
Weedmat staples	130mm / 230mm long x 200	\$23.40 / \$35.00
Birdnetting:		
Birdnetting white or black	5/10 x 100m rolls	\$409 / \$818
Birdnetting clips	Pack 200	\$44.80
Shadecloth:		
Knitted Hortshade	Very light 30% 1.83 and 3.66m	\$224 to \$449
	Light 50% 1.83 and 3.66m	\$247 to \$494
	Medium 70% 1.83 and 3.66m	\$315 to \$630

	Heavy 80%	1.83 and 3.66m	\$367 to \$734
Clips for securing shadecloth		Bag 100 / carton 2000	\$30.00 / \$500

Fruitfed Supplies: (Donaghys Products)

Weedtex	91cm x 50m / 1.83m x 50m	\$43.91 / \$86.67
Windbreak plus	1m x 50m / 1.83m x 50m	\$80.00 / \$160.00

Newfield Marketing:

Tree Protectors:				
KBC Nettube 0.4m x 220mm diameter				\$0.82ea
KBC Tree shelter				
600mm x 100mm				\$2.55ea
600mm x 150mm 'Maxi'				\$3.45ea
750mm x 100mm				\$3.10ea
1200mm x 125mm				\$5.10ea
Rabbit netting 0.6m x 50m roll – galvanised	41 x 41mm mesh			\$199 per roll
Hare netting 0.9m x 50m roll – galvanised	41 x 41mm mesh			\$279 per roll
Tree Guard 0.9 / 1.8m high x 900mm dia (incl stakes) - galvanised				\$89.30 / \$139.80
Elson Stakes sizes 0.9m to 2.4m				\$1.06 to \$7.06 each
Tubex (Tubular):				
1.2m x 80 to 120mm diameter				\$7.25 ea
Spray Guards 500 x 150mm	Supplied in open cartons of 1200 guards			\$0.34ea
Weed Matting - EcoWool Mulch Mat				
1.8m x 30m roll	1 - 4 rolls	5 - 10 rolls	11 - 20 rolls	21+ rolls
	\$279 each	\$259 each	\$235 each	\$209 each
500mm sq mat with centre slit	25 - 500 mats	525 - 1500 mats	1525 - 3000 mats	3025+ mats
	\$1.61 each	\$1.34 each	\$1.23 each	\$1.15 each
Galv Wire Pins	1 to 3 cartons	4 to 9 cartons	10+ cartons	
130mm – Pack (200)	\$35 each	\$31.50ea	\$29.90ea	

Forestry Ladders

Transtak Engineering & Equipment

Forestry Ladders with bolt on / weld on top	Plain
1.2m / 1.5m / 1.8m	\$148 / \$164 / \$177
2.1m / 2.4m / 2.7m	\$189 / \$204 / \$215
3m / 3.3m / 3.6m	\$230 / \$242 / \$256
3.9m / 4.2m / 4.5m	\$269 / \$284 / \$298

2.23 COMPUTERS

2.23.1 Farmers Requirements

Market surveys have revealed the following uses of the on-farm computer.

- Farm financial record-keeping/analysis.
- Farm physical record-keeping/analysis.
- Accounting and payroll.
- Farm decision analysis, e.g. investment analysis, linear programming, etc.
- Breeding records.
- Mapping of the property.
- Communication with other computers to gather information; or
- Communication with other computers to execute market transactions, e.g. order machinery parts, sell produce, etc.
- Education and entertainment.

2.23.2 Guidelines for Purchasing a Farm Computer

Three questions should be answered before making a final decision to purchase a computer. These are:

- What are the current requirements and problems on the property?
- Can these be best fulfilled or overcome using a computer or are there other least cost alternatives available, e.g. secretarial services or mail in services?
- The final question is - the choice of system to be purchased. This final question will be discussed under the following three headings:
 - Software
 - Hardware
 - General Criteria

Farmers are advised to seek advice from qualified people before incurring any expenditure on farm computers.

Software

- Do the programmes meet the requirements of the farm or farmer?
- Are they endorsed by relevant professional and educational institutions?
- Are the programmes technically correct?
- Are the programmes easy to use?
- Are the programmes flexible and adaptable i.e. if the farmer changes farming type, policy or legislation changes, e.g. tax changes?
- Is there adequate back-up support if problems occur?
- Is the data required to run the programmes readily available?

Hardware

- Is there sufficient capacity, in terms of memory and permanent storage, to handle the data to be processed? Has the particular make and model of computer got a good name for reliability?

- In the event of a breakdown how quickly can the machine be repaired, i.e. is there some one local to repair the computer?
- Is replacement equipment provided while yours is being repaired?
- Is the printer's speed and quality suitable for your requirements?

General Criteria

- What is the total price of the complete system installed on the property, in working order?
- What are the repayment terms and conditions of contract?
- What assurances are given regarding delivery, and installation dates, guarantees and maintenance?
- What is the cost of the service contract after the warranty expires?
- Is the dealer likely to stay in business?
- If programmes are especially written for you, who owns them? Can copies be sold to third parties?
- Is the firm's hardware and software likely to change? What is the fully maintained life expectancy of their products

2.23.3 General Guidelines

When purchasing a new computer the minimum specification considering available technology and relative market value should be: -

Computer:

There is a lot of jargon involved in buying a computer, but the crucial issues are the speed that it operates and the amount of memory loaded. A minimum speed of 2.0Ghz (up to 2.6Ghz available), at least 2GB RAM (up to 8GB available), at least 160 GB hard disc (up to 1TB available), and a CDRW or DVDRW. The number of USB ports is also important for plugging in printers, a mouse, flash drives and scanners. All computers now include a modem for accessing the Internet. A desktop computer with this sort of capability could be expected to cost within the range of \$900 to \$1500. Laptops range from \$800 to \$3,000.

Printer:

The choice of printer will depend on the end use of the computer output. A reliable ink jet printer for general office use would cost around \$150.

Laser printers offer the highest print quality for modest running costs. Typical prices for laser printers are \$150 to \$500 for black and white printing, and for colour printing from \$700 upwards. Combination printers, scanners and copiers are priced from \$450 upwards.

Software:

A farmer would normally require the following software:

- Financial recording and budgeting system. Suitable products are available from between \$180 to \$1,400.
- Word processing
- Spreadsheet

Most computer hardware packages will come with Windows Vista or Windows 7, general word processing, spreadsheet, database software and Internet and educational or games software, bundled with it.

2.23.4 Hardware Prices

The Laptop Company:

Toshiba Satellite Pro L500 \$1,065.77

Entry level – budget model
Intel Dual Core 2.1GHz
2GB RAM – 320GB Hard Drive
Inbuilt Wireless Card and Web Cam
Separate Numeric Pad on Keyboard
New large size 15.6” Wide Screen
Windows 7 Pro Operating System
1 Year Warranty
No RS232 Serial Port

Toshiba Tecra A11 – 00K005 \$1,599.11

Mid Range with serial port
Latest Intel i5 2.4GHz Processor
2GB RAM – 250GB HDD
Separate Numeric Pad on Keyboard
New large size 15.6” Wide Screen
Inbuilt Wireless and Web Cam
1 Year Warranty (upgradeable to 3)
Windows 7 Pro Operating System
A great all round laptop, fast, reliable and well built.
The Serial port allows potential use with weighing machines and similar equipment.

Toshiba Tecra P11 00T00K \$2,221.33

High end for those using graphics
Latest Intel i5 2.4GHz Processor
4GB RAM – 250GB HDD
Separate Numeric Pad on Keyboard
New large size 15.6” Wide Screen
Inbuilt Wireless and Web Cam
512MB dedicated graphics card
Windows 7 Pro Operating System
Spill Proof Keyboard and Shock Mounted
Hard Disk Drive to help prevent data loss in an accident
3 Year International Warranty

Global PC Ltd:

Sony VAIO VGNNW25GFS \$1,332.44

Specifications:
2.20 GHz Intel Core2 Duo Processor
2GB of DDR2 RAM (upgradeable to 8 GB)
320GB Hard Disc Drive
15.5" widescreen display
Bluetooth standard Ver. 2.1
Windows 7 Home Premium 64-bit
ATI Mobility Radeon HD 4570 Graphics

Acer EX5635G-7A4G50Mn \$1,421.33

15.6" High Definition display, built-in numeric keypad, Acer's enhanced DASP hard drive protection technology.
One year warranty.
* CPU: Core 2 Duo P7370
* RAM: 2GB x 2 DDR3-1066
* HDD: 500GB 5400rpm SATA
* OS: Windows 7 Professional + Media Less XPP Downgrade "ALT-F10"
Hard Disk 500GB 5400rpm SATA
Media Device DVD Super Multi

2.23.5 Software Prices

Concepts Rural Solutions Ltd.:

Cash Manager Rural - Annual Licence (incl stock reconciliation)	\$50/mth or \$500/yr
Cash Manager Rural Online - Annual Licence	\$70/mth or \$700/yr
Cash Manager Rural PremierPac (annual subscription)	\$256
Cash Manager Business (ideal for agribusinesses without livestock)	\$50/mth or \$500/yr
Concepts Rural Suite (farm mapping and event management)	\$1,096
Concepts Rural Suite - PremierPac (annual subscription for 0800 support)	\$100

Flock-Linc:

Annual Flock Fee	\$50.00
Annual New Animal Identified Fee	\$0.95
Enrolment Fee per flock (charged once)	\$100.00
SIL Annual Flock Fee	\$60.00
SIL New Animal Identified Fee	\$0.66
Discounts available:	
\$0.15 per new animal identified if data transferred electronically	
\$0.15 per new animal identified if flock over 300 ewes	

Livestock Improvement Corporation:

MINDA

MINDA fees consist of a monthly herd fee of \$16, plus a monthly animal fee for each animal on the national database in the month of charging (which is different for cows and other or young stock). "Cows" are animals born before 31 December 2008.

Paper Service

Monthly MINDA fee - \$17

Plus a per cow fee -34c

Plus a per-other-animal fee - 20c

Electronic Options

Electronic and MINDApro options include the latest version of the software, any updates released during the season and free internet downloads and user support.

MINDAlink

Monthly MINDA fee - \$17

Plus a per cow fee -24c

Plus a per-other-animal fee - 13c

MINDA mobile software fee is \$140 (+GST) per device per annum

All reports except those listed separately below, are included in the MINDA fee and can be received in paper or electronic format.

MINDApro with reports.

All reports except those listed separately below, are included in the MINDA fee and can be received in paper or electronic format.

Monthly MINDA fee - \$17

Plus a per cow fee -24c

Plus a per-other-animal fee - 13c

Plus MINDApro monthly fee - \$33

MINDA mobile software fee is \$140 (+GST) per device per annum.

MINDApro without reports.

You receive a reduced per animal fee if you use MINDApro to print off all your reports.

Herd test reports are free of charge.

Monthly MINDA fee - \$17

Plus a per cow fee -18c

Plus a per-other-animal fee - 9c

Plus MINDApro monthly fee - \$33

MINDA mobile software fee is \$140 (+GST) per device per annum.

Reports not included in the MINDA fee are

Customised reports	\$24 plus 8c per animal listed
Dairy Cattle Export Certificate	\$20 per animal
Dairy Sale Catalogue	\$35 plus \$1.15 per animal listed
Reproductive Analysis Pack	\$95 per pack (not available electronically)
Three Generation Pedigree	\$8 per animal (not available electronically)

MINDA Reports

The following reports are provided at no additional charge for all MINDA clients except those using MINDApro without reports. Unless otherwise stated, reports cost \$24 per report plus 8c per animal listed on the report. A discount of \$5 is given to reports received electronically.

Action list:	Herd Test Reports:
Animals eligible for registration (not available electronically).	SCC and test day details option (std)
Animal health status listing	Condensed option
Breeding Worth list	Cow detail option
Cow listings	Name and test day details option
Culling guide	Town Supply option
Drying off guide	Somatic cell count option
Drying off treatment guide for mastitis control	
Expected calving report	
Herd record (\$28 per report plus 8c per animal listed. Not available electronically).	
Herd profile	
Lactation summary	Report of calves reared
Liveweight report	Summary of matings
Mating report	Sire progeny and gene list (not electronic)
Once-A-Day index report	Trait evaluation list

Non MINDA clients can purchase herd reports but will be charged an additional \$2.52 per animal above the normal report price.

MINDA Assist is \$40 per hour.

MINDA remedial work charges can range up to 49c per animal.

Iagri Ltd:

Landmark Computers
0800617788 www.iagri.com

Software for the land – Version 5, easy to use; caters for more than one farm.

A complete farm management tool including; Mapping, wage book and invoicing.

“Tech Partner” subscription scheme –

One off joining fee \$250.00 plus \$39.95 per month subscription.

Entitlement – free upgrades, free support, free Landmark software for accountant, plus bank manager, plus farm advisor and more.

New Zealand Performance Recording Services Limited (NZPRS)

NZPRS, a major service provider with *Sheep Improvement Limited (SIL)*, offers full or partial bureau services to sheep and deer breeders. NZPRS uses the *Studfax* livestock recording program to interface seamlessly via the Internet with breeders using *Studfax* on their own computers. NZPRS also provides *Studfax* sales and support services. NZPRS can enter back data and assist breeders with the transition from a manual to a computer recording system.

(Website: www.nzprs.co.nz)

Annual Fees (basic)

NZPRS flock / herd registration (electronic data exchange) \$200 / \$180 + GST

SIL charges:

Annual SIL Flock and Herd Fee \$60 + GST

Manual data entry services, tailored reports, consultancy services charged by the hour.

Compubreed Systems:

Studfax (in widespread use throughout the stud breeding industry) is a fully featured performance recording programme for all types of livestock. Cost with one animal database (eg sheep, deer, cattle, goats, alpaca, horses) - \$1,400. Is able to run under Vista.

There is no limit to the number of different flocks/herds that can be recorded by a single breeder. Website www.studfax.com

Ace Payroll Plus

(It is very popular with small businesses and incorporates current tax codes and rates which are updated whenever legislation changes. IRD returns can be printed from the programme, and it has very flexible pay features – casual, permanent, hourly, piece rates.)

Windows version \$250 starting price

MYOB NZ Ltd

Product	RRP
MYOB Accounting	\$443.55
MYOB Account Plus (incl MYOB Payroll)	\$621.33
MYOB AccountEdge (for Mac)	\$621.33
MYOB BusinessBasics	\$176.89
MYOB Cashbook	\$221.33

MYOB Payroll	\$310.22
MYOB Premier	\$710.22
MYOB Premier with Payroll	\$1421.33

Other Farm Software

Vaughan Jones Computing
www.vaughanjones.info

Knowledge is probably the most valuable asset of farmers¹ and consultants¹ businesses. www.vaughanjones.info information comes from 400 farming, business, marketing and other educational publications, belonging to several international internet discussion groups. As an international agricultural consultant since 1980, additional learning has come from a wide area, and is recorded in 70 chapters of proven information for healthy soils, pastures, animals, silage, hay, forage crops, calves, working dogs, beef, dairying, cropping, liming, fertilising and avoiding shocks in farm dairies.

There is also a package of 50 spreadsheets for figures to improve most farming profits and investing, etc. They only require the farm or business figures to be entered and adjusted.

The Further Reading chapter has seven A4 pages of useful publications such as The Omnivore's Dilemma by Michael Pollan, New York Times journalist. 2006. ISBN 0 7475 8675 6 covering US farming such as their disastrous organic rules, government policies of keeping small farmers as peasants, despite many 50% farm subsidies totalling US\$19 billion pa, which mostly end up in large industrialised farming.

Access to all 70 chapters is NZ\$30 and to use all 50 spreadsheets NZ\$300.

Join www.vaughanjones.info to use the Q&A service, or contact vaughanjones@xtra.co.nz

2.24 APPENDIX: RATE of INFLATION in NEW ZEALAND 1891 to 2009

The Consumer Price Index (C.P.I.) measures the rate of inflation for each year, for example, 0.5% in 1892 and 3.2% in 2005.

To calculate the fall in the value of the dollar from any of the base years (where value shown is 1.0000) simply divide 1.0 by the value of the dollar in the year of interest.

For example:

- (i) 1891 (below) compared with 2005
 = 1.0 divided by 0.0074 = 135.14

This means a dollar (ten shillings) in 1891 would buy 135.14 times as much as a dollar in 2005.

- (ii) 1950 compared with 1984
 = 1.0 divided by 0.0681 = 14.68 times more purchasing power.

Base Year:

Year	C.P.I	1891	1920	1930	1940	1950	1960	1970	1980	1990	2000
	%										
1891	-	1.0000									
1892	0.5	0.9947									
1893	2.7	0.9682									
1894	0.5	0.9632									
1895	-0.5	0.9681									
1896	0.5	0.9631									
1897	1.0	0.9532									
1898	4.1	0.9143									
1899	-3.4	0.9457									
1900	2.0	0.9265									
1901	3.0	0.8988									
1902	2.4	0.8771									
1903	-0.5	0.8812									
1903	0.0	0.8812									
1905	0.0	0.8812									
1906	6.6	0.8228									
1907	-0.9	0.8301									
1908	0.0	0.8301									
1909	-1.3	0.8412									
1910	1.4	0.8298									
1911	-0.9	0.8372									
1912	3.2	0.8107									
1913	2.2	0.7929									
1914	4.3	0.7589									
1915	7.8	0.6996									
1916	8.0	0.6435									
1917	9.9	0.5798									
1918	12.2	0.5090									
1919	7.7	0.4696									
1920	13.6	0.4059	1.000								
1921	3.3	0.3926	0.9672								

Year	C.P.I %	1891	1920	1930	1940	1950	1960	1970	1980	1990	2000
1922	-10.9	0.4353	1.0725								
1923	-2.5	0.4464	1.0998								
1924	2.1	0.4371	1.0768								
1925	0.5	0.4348	1.0713								
1926	0.5	0.4326	1.0658								
1927	-0.8	0.4359	1.0739								
1928	0.0	0.4359	1.0739								
1929	-0.3	0.4370	1.0739								
1930	2.01	0.4460	1.0987	1.0000							
1931	7.6	0.4797	1.1819	1.0757							
1932	7.9	0.5177	1.2754	1.1608							
1933	4.6	0.5415	1.3341	1.2142							
1934	1.3	0.5345	1.3169	1.1986							
1935	3.8	0.5142	1.2667	1.1529							
1936	2.8	0.5000	1.2319	1.1212							
1937	7.1	0.4643	1.1439	1.0411							
1938	3.1	0.4501	1.1089	1.0093							
1939	4.6	0.4295	1.0581	0.9631							
1940	4.1	0.4118	1.0145	0.9233	1.0000						
1941	3.7	0.3965	0.9768	0.8891	0.9629						
1942	3.1	0.3842	0.9465	0.8615	0.9330						
1943	2.5	0.3744	0.9224	0.8395	0.9092						
1944	1.8	0.3676	0.9058	0.8244	0.8928						
1945	1.3	0.3628	0.8937	0.8314	0.8809						
1946	0.7	0.3604	0.8878	0.8081	0.8752						
1947	3.3	0.3486	0.8589	0.7817	0.8466						
1948	8.0	0.3207	0.7902	0.7192	0.7789						
1949	1.6	0.3157	0.7779	0.7080	0.7667						
1950	5.8	0.2976	0.7331	0.6672	0.7226	1.0000					
1951	10.9	0.2651	0.6532	0.5946	0.6439	0.8911					
1952	7.9	0.2443	0.6019	0.5478	0.5933	0.8211					
1953	4.6	0.2332	0.5745	0.5229	0.5663	0.7837					
1954	4.5	0.2227	0.5487	0.4994	0.5408	0.7485					
1955	2.6	0.2168	0.5342	0.4862	0.5266	0.7287					
1956	3.4	0.2095	0.5161	0.4698	0.5087	0.7041					
1957	2.2	0.2048	0.5046	0.4593	0.4974	0.6884					
1958	4.5	0.1957	0.4820	0.4387	0.4751	0.6575					
1959	7.5	0.1810	0.4460	0.4095	0.4396	0.6084					
1960	-2.7	0.1860	0.4582	0.4170	0.4516	0.6250	1.0000				
1961	1.8	0.1827	0.4501	0.4097	0.4437	0.6140	0.9824				
1962	2.6	0.1779	0.4382	0.3988	0.4319	0.5978	0.9564				
1963	2.0	0.1743	0.4294	0.3908	0.4232	0.5857	0.9371				
1964	3.4	0.1683	0.4147	0.3775	0.4088	0.5657	0.9051				
1965	3.4	0.1626	0.4006	0.3646	0.3949	0.5465	0.8743				
1966	2.8	0.1581	0.3895	0.3545	0.3839	0.5313	0.8500				

Year	C.P.I %	1891	1920	1930	1940	1950	1960	1970	1980	1990	2000
1967	6.1	0.1484	0.3657	0.3328	0.3605	0.4988	0.7981				
1968	4.2	0.1421	0.3502	0.3187	0.3452	0.4777	0.7642				
1969	5.0	0.1351	0.3327	0.3028	0.3280	0.4539	0.7262				
1970	6.5	0.1263	0.3112	0.2833	0.3068	0.4245	0.6792	1.0000			
1971	10.4	0.1131	0.2787	0.2537	0.2747	0.3802	0.6083	0.8955			
1972	6.9	0.1053	0.2595	0.2363	0.2558	0.3540	0.5664	0.8338			
1973	8.2	0.0967	0.2383	0.2168	0.2349	0.3251	0.5201	0.7658			
1974	11.2	0.0859	0.2117	0.1927	0.2087	0.2888	0.4621	0.6803			
1975	14.7	0.7333	0.1807	0.1645	0.1781	0.2465	0.3943	0.5806			
1976	16.9	0.0609	0.1501	0.1366	0.1480	0.2048	0.3276	0.4824			
1977	14.4	0.0522	0.1285	0.1170	0.1267	0.1753	0.2805	0.4130			
1978	11.9	0.0459	0.1132	0.1030	0.1116	0.1544	0.2470	0.3637			
1979	13.7	0.0396	0.0976	0.0889	0.0963	0.1332	0.2131	0.3138			
1980	17.1	0.0328	0.0809	0.0737	0.0798	0.1104	0.1766	0.2600	1.0000		
1981	15.5	0.0278	0.0684	0.0623	0.0674	0.0933	0.1493	0.2198	0.8453		
1982	16.1	0.0233	0.0574	0.0523	0.0566	0.0798	0.1253	0.1845	0.7094		
1983	7.4	0.0216	0.0532	0.0484	0.0524	0.0725	0.1160	0.1708	0.6570		
1984	6.1	0.0203	0.0499	0.0455	0.0492	0.0681	0.1090	0.1605	0.6171		
1985	15.5	0.0171	0.0422	0.0384	0.0416	0.0576	0.0921	0.1356	0.5216		
1986	13.2	0.0149	0.0366	0.0333	0.0361	0.0500	0.0799	0.1177	0.4526		
1987	15.7	0.0125	0.0309	0.0281	0.0304	0.0421	0.0674	0.0992	0.3815		
1988	6.4	0.0117	0.0289	0.0263	0.0285	0.0394	0.0631	0.0929	0.3572		
1989	5.7	0.0111	0.0273	0.0248	0.0269	0.0372	0.0595	0.0876	0.3368		
1990	6.1	0.0104	0.0256	0.0233	0.0253	0.0349	0.0559	0.0823	0.3163	1.0000	
1991	4.5	0.0099	0.0244	0.0223	0.0242	0.0333	0.0534	0.0786	0.3021	0.9550	
1992	0.8	0.0098	0.0242	0.0221	0.0240	0.0330	0.0530	0.0778	0.2997	0.9474	
1993	1.4	0.0097	0.0239	0.0218	0.0237	0.0325	0.0523	0.0767	0.2955	0.9341	
1994	2.8	0.0094	0.0232	0.0211	0.0230	0.0316	0.0508	0.0745	0.2872	0.9079	
1995	2.9	0.0091	0.0225	0.0205	0.0223	0.0307	0.0493	0.0723	0.2788	0.8816	
1996	2.6	0.0089	0.0219	0.0200	0.0217	0.0299	0.0480	0.0704	0.2716	0.8587	
1997	0.8	0.0088	0.0217	0.0198	0.0215	0.0297	0.0476	0.0699	0.2694	0.8518	
1998	0.4	0.0088	0.0217	0.0197	0.0215	0.0295	0.0474	0.0696	0.2683	0.8484	
1999	0.5	0.0087	0.0215	0.0196	0.0214	0.0294	0.0472	0.0692	0.2670	0.8442	
2000	4	0.0084	0.0207	0.0188	0.0205	0.0282	0.0453	0.0665	0.2563	0.8104	1.0000
2001	1.8	0.0082	0.0203	0.0185	0.0201	0.0277	0.0445	0.0653	0.2517	0.7958	0.9820
2002	2.7	0.0080	0.0198	0.0180	0.0196	0.0270	0.0433	0.0635	0.2449	0.7743	0.9555
2003	1.6	0.0079	0.0194	0.0177	0.0193	0.0265	0.0426	0.0625	0.2410	0.7619	0.9402
2004	2.7	0.0077	0.0189	0.0172	0.0188	0.0258	0.0415	0.0608	0.2344	0.7414	0.9148
2005	3.2	0.0074	0.0183	0.0167	0.0182	0.0250	0.0401	0.0589	0.2269	0.7176	0.8855
2006	2.6	0.0072	0.0178	0.0163	0.0177	0.0243	0.0391	0.0573	0.2210	0.6990	0.8625
2007	3.2	0.0070	0.0173	0.0157	0.0171	0.0236	0.0378	0.0555	0.2140	0.6766	0.8349
2008	5.1	0.0066	0.0164	0.0149	0.0162	0.0224	0.0359	0.0527	0.2031	0.6421	0.7923
2009	1.7	0.0065	0.0161	0.0147	0.0160	0.0220	0.0353	0.0518	0.1996	0.6312	0.7789

Source: Lincoln University

SECTION 3

LIVESTOCK, CROPPING and HORTICULTURAL GROSS MARGINS

ENTERPRISE ANALYSIS

Note:

Before reading this section, please refer to the disclaimer in the Preface of this Manual.

3. LIVESTOCK, CROPPING and HORTICULTURAL GROSS MARGINS (ENTERPRISE ANALYSIS)

3.1 INTRODUCTION

General:

The gross margins included in this manual relate, where possible, to the "real farm" (or orchard) situation. Cost, price and yield estimates for the stock and crop enterprises are based largely on Canterbury figures as at January 2010. The horticultural gross margins have been derived from a variety of information sources.

Use of Gross Margins:

Gross Margins can be used as the first step in comparing the profitability of different enterprises. The mathematics involved is simple - the direct or variable costs associated with a particular enterprise are subtracted from the total income from that enterprise. The gross margin result is then normally expressed in terms of dollars per stock unit or per hectare.

Direct or variable costs include items such as animal health costs, and harvesting costs. They do not include costs common to all enterprises, such as rates and interest payments (fixed costs).

Warning:

The gross margins in this manual are only examples. Farmers should substitute their own figures.

Gross margins are a simple means of comparing enterprises, but care must be taken when interpreting the results. It is important to note that gross margins make the assumption that each enterprise is independent of all other farm or orchard activities, both technically and financially. They also assume that each additional unit of production is worth as much as, and costs as much as, each preceding unit. Note also that different properties are likely to show differing gross margin returns for identical enterprises, because yields and costs will differ according to each individual property.

A critical evaluation of the gross margin technique will reveal further limitations with this form of analysis. In many instances, the farmer or grower will find it necessary to go the next step, and that is to prepare partial budgets or full budgets in order to further compare alternative enterprises.

Explanation of Tables:

Some Gross Margins are accompanied by a 'sensitivity' table, which shows how the profitability of the enterprise will differ if different yields, prices etc. are used in the analysis. The central, boxed, figure in the table is the gross margin result from the example used.

Interest and Supplementary Feed Costs:

Interest and supplementary feed costs are normally excluded from gross margins when comparing enterprises (in particular livestock enterprises) for the same property.

However a partial budgeting approach may be adopted with livestock enterprises, including estimates of interest and feed costs in order to provide a more accurate indication of actual returns. The interest cost takes account of the high capital requirements of some enterprises, and the fact that in many instances borrowed capital is involved. The interest used here is that of a typical stock and station agent livestock loan as at January 2010. Feed costs can be ignored where there is no change in the supplementary feed required to change from one stock enterprise to another. Where there is a change however, all additional supplementary feed costs, should be included.

NOTE: ALL FIGURES USED IN THE CALCULATIONS ARE GST EXCLUSIVE.

Income: (Revenue per head of stock killed is net of freight and levies,
store stock and wool is net of selling charges)

Prime wether lambs	330 @	\$70.00	\$23,100
Store m.s. lambs	380 @	\$50.00	\$19,000
Cull hogget/2ths	111 @	\$80.00	\$8,880
5 year old ewes	171 @	\$60.00	\$10,260
Cull ewes to works	44 @	\$40.00	\$1,760
Wool (kg)	5960 @	\$2.50	\$14,900

TOTAL INCOME \$77,900

Expenditure:

Shearing -			
Sheep	990 @	\$330 per 100	\$3,267
Hoggets	370 @	\$330 per 100	\$1,221
L ambs	408 @	\$315 per 100	\$1,285
Main crutch - ewes	990 @	\$130 per 100	\$1,287
			\$7,060
Woolshed expenses & packs			\$500
Animal Health - SUs	1,399 @	\$3.00	\$4,197
Cartage			
Store lambs	380 @	\$1.50	\$570
Cull hgt/2th/5yr ewes	282 @	\$2.50	\$705
Wool - bales	33 @	\$12.00	\$396
Ram Purchase	4 @	\$800	\$3,200

TOTAL DIRECT COSTS \$16,628

TOTAL GROSS MARGIN (before interest) \$61,272

GROSS MARGIN per dollar invested in sheep \$0.50

GROSS MARGIN per Stock Unit \$43.81

**Gross Margin per Stock Unit at Various
Stock Sale and Wool Prices**

		WOOL PRICE \$/KG (net)		
		\$2.13	\$2.50	\$2.88
AVERAGE PRIME	\$59.50	\$39.74	\$41.33	\$42.93
LAMB PRICE	\$70.00	\$42.21	\$43.81	\$45.41
\$/HEAD	\$80.50	\$44.69	\$46.29	\$47.89

Interest Costs:

Interest on Capital Stock Value:

\$123,650 @ 11.00% \$13,601.50

RETURN per Stock Unit (after interest) \$34.09

3.2.2 Sheep '2 year' Flock

SHEEP GROSS MARGIN

Crossbred '2 year' Flock, replacements
by purchase of 5 year old ewes annually.
(Easy country)

Capital Stock Wintered:

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>Total SU</u>
Breeding Ewes	1000 @	\$70.00	\$70,000	1.25	1250
Rams	13 @	\$300	\$3,900	1.0	13
	1,013		\$73,900		1,263
Dollar Investment in sheep per stock unit			\$58.51		

Production Parameters:

Lambing- survival to sale	130%
Death rate	6%
First year ewes culled	25%
Export lamb sire; all lambs sold prime	
Ewes wool clip (kg)	4.5
Lambs not shorn	

Income: (Revenue per head net of freight and levies, wool net of selling charges)

Prime m.s. lambs	1300 @	\$75.00	\$97,500	
Cull ewes to works	515 @	\$45.00	\$23,175	
Wool (kg)	3840 @	\$2.50	\$9,600	
TOTAL INCOME				\$130,275

Expenditure:

Replacement ewes	595 @	\$75.00		\$44,625
Shearing -				
Sheep	960 @	\$330 per 100	\$3,168	
Main crutch - ewes	965 @	\$130 per 100	\$1,255	\$4,423
Woolshed expenses - plant, packs etc.				\$400
Animal Health-SUs	1263 @	\$2.80		\$3,536

Cartage				
Replacement ewes	595 @	\$2.50	\$1,488	
Wool - bales	21 @	\$10.00	\$210	\$1,698
Ram Purchase	4 @	\$600		\$2,400
TOTAL DIRECT COSTS				\$57,081
TOTAL GROSS MARGIN (before interest)				\$73,194
GROSS MARGIN per dollar invested in sheep				\$0.99
<u>GROSS MARGIN per Stock Unit</u>				<u>\$57.95</u>

**Gross Margin per Stock Unit at Various
Lamb and Wool Prices**

		WOOL PRICE \$/KG (net)		
		\$2.13	\$2.50	\$2.88
LAMB	\$63.75	\$45.23	\$46.37	\$47.51
PRICE	\$75.00	\$56.81	\$57.95	\$59.09
\$/HEAD	\$86.25	\$68.39	\$69.53	\$70.67

Interest Costs:

Interest on Capital Stock Value:			
\$73,900 @ 11.00%			\$8,129.00
RETURN per Stock Unit (after interest)			\$51.52

3.2.3 Sheep – High Production

SHEEP GROSS MARGIN

Crossbred Ewe Flock Breeding Own Replacements
(High Performance)

Capital Stock Wintered:

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>Total SU</u>
Breeding Ewes (65kg lw)	750 @	\$90	\$67,500	1.35	1013
2 th Ewes	250 @	\$100	\$25,000	1.3	325
Hoggets	255 @	\$90	\$22,950	1.2	306
Rams	13 @	\$400	\$5,200	1.0	13
	1,268		\$120,650		1,657

Dollar Investment in sheep per stock unit \$72.83

Production Parameters:

Lambing % Ewes	150%
Lambing % Hoggets	95%
Death rate (ewes)	4%
Lamb kill carcase weight (kg)	17
Wool clip (kg/SheepSU)	5.5
Six month shearing. 50% of lambs shorn	

Income: (Revenue per head net of freight and levies, wool net of selling charges)

Lambs	1250 @	\$75.00	\$93,750	
Hoggets lambs	242 @	\$70.00	\$16,940	
Cfa ewes	210 @	\$45.00	\$9,450	
Wool (kg)	8250 @	\$2.50	\$20,625	
TOTAL INCOME				\$140,765

Expenditure:

Shearing -				
Sheep	1960 @	\$330 per 100	\$6,468	
Hoggets	250 @	\$330 per 100	\$825	
Lambs	900 @	\$315 per 100	\$2,835	
Wool shed expenses, packs			\$600	
				\$10,728
Animal Health -SUs	1657 @	\$3.00		\$4,971

Cartage		
Wool - bales	45 @ \$10.00	\$450
Ram Purchase	4 @ \$800	\$3,200
TOTAL DIRECT COSTS		\$19,349
TOTAL GROSS MARGIN (before interest)		\$121,416
GROSS MARGIN per dollar invested in sheep		\$1.01
<u>GROSS MARGIN per Stock Unit</u>		<u>\$73.30</u>

**Gross Margin per Stock Unit at Various
Lamb and Wool Prices**

		WOOL PRICE \$/KG (net)		
		\$2.13	\$2.50	\$2.88
LAMB	\$63.75	\$62.94	\$64.81	\$66.68
PRICE	\$75.00	\$71.43	\$73.30	\$75.16
\$/HEAD (net)	\$86.25	\$79.92	\$81.79	\$83.65

Interest Costs:

Interest on Capital Stock Value:			
\$120,650	@	11.00%	\$13,271.50
RETURN per Stock Unit (after interest)			\$65.28

Note: An error has occurred in this gross margin in the manual. This is the correct analysis.

3.2.4 Beef – Breeding Cow

BEEF GROSS MARGIN

Breeding Cow Herd, Selling Steers
and Surplus Heifers at approximately 18 months

Capital Stock Wintered:

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>Total SU</u>
Breeding Cows	82 @	\$650	\$53,300	5.5	451
I.C. R2yr heifers	18 @	\$750	\$13,500	5.5	99
R1yr Heifers	43 @	\$420	\$18,060	3.5	151
R1yr Steers	43 @	\$480	\$20,640	4	172
Breeding Bulls	3 @	\$1,500	\$4,500	5.5	17
	189		\$110,000		889

Dollar Investment in cattle per stock unit \$123.73

Production Parameters:

Calves weaned 86%
Death rate 3%
Heifers entered in herd each year 18%
Angus/Hereford cows mated to Angus or Hereford bulls.
Steers and surplus heifers sold as forward store, on farm.

Income:

18 month steers	42	\$640.00 (net)	
18 month heifers	24	\$580.00 (net)	
18 month cattle sales	66 @	\$618.18 (net)	\$40,800
Cull Cows	15 @	\$470.00 (net)	\$7,050
Bull	1 @	\$980.00 (net)	\$980

TOTAL INCOME \$48,829.88

Expenditure:

Animal Health-

Drench calves (3x)	258 @	\$1.30	\$335.40	
Pregnancy test cows	100 @	\$2.20	\$220.00	\$555.40
Bull purchase - landed				\$2,250
Freight and commission (stock net on farm)				\$0.00

TOTAL DIRECT COSTS	\$2,805.40
TOTAL GROSS MARGIN (before interest)	\$46,024.48
GROSS MARGIN per dollar invested in cattle	\$0.42
<u>GROSS MARGIN per Stock Unit</u>	<u>\$51.77</u>

Gross Margin per Stock Unit at Various Weaning Percentages and Selling Prices (18 month cattle)

		AVERAGE SALE PRICE \$/HEAD of 18 month cattle		
		\$525.45	\$618.18	\$710.91
% WEANED	77%	\$40.16	\$46.21	\$52.26
	86%	\$44.89	\$51.77	\$58.66
	95%	\$49.62	\$57.33	\$65.05

Interest Costs:

Interest on Capital Stock Value:
 \$110,000 @ 11.00% \$12,100.00

RETURN per stock unit (after interest) \$38.16

3.2.5 Bull Beef

BULL GROSS MARGIN

Friesian Bulls purchased as weaners
sold at 19 to 24 months of age
(70% killed at 20 months)

Stock Wintered:

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>Total SU</u>
Rsg 1 yr Friesian Bulls	100 @	\$350	\$35,000	3.6	360
Rsg 2 yr Friesian Bulls	30 @	\$520	\$15,600	6	180
	130		\$50,600		540

Dollar Investment in beef per stock unit \$94

Production Parameters:

Death rate. 3%

Sell majority 70% at 19 to 21 months of age between March and May, retain balance until Oct/Nov (sell at 24 months of age).

Income:

Bulls (275 kg C.W.) 97 @ \$3.00 per kg \$80,025.00

TOTAL INCOME \$80,025.00

Expenditure:

Weaner Bulls (100 kg) 100 @ \$3.30 / kg \$23,100.00

Animal Health

Anthelmintics (4x) 400 @ \$1.30 / dose \$520.00

Pour on 100 @ \$4.50 / head \$450.00

Cobalt injection 100 @ \$1.10 / dose \$110.00 \$1,080.00

Copper Bullet 100 @ \$1.85 \$185.00 \$250.00

Five in One (2x) 200 @ \$0.40 \$80.00

Transport based on 50km

Weaners to Farm 100 @ \$3.50 \$350.00

Finished Bulls to Works 97 @ \$9.00 \$873.00 \$1,223.00

Levies - AHB, M&WNZ 97 @ \$15.10 per head \$1,464.70

3.2.6 Dairy

DAIRY GROSS MARGIN

Seasonal supply herd - cows grazed off-farm for 8 weeks in winter

Capital Stock Wintered:

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>TotalSU</u>
Milking Cows	280 @	\$1,350	\$378,000	8	2240
R 2 Yr Heifers	79 @	\$1,200	\$94,800	6.5	514
R 1 Yr Heifers	83 @	\$500	\$41,475	3.5	290
	442		\$514,275		3,044

Dollar Investment in cattle per stock unit \$168.96

Production Parameters:

Milk solids production per cow	343 kg
Calving - live calves	87% Surplus sold within two weeks
Death Rate	5%
Culling Rate	17%
Percentage of replacements of M.A. cows	28%

Income:

Milk Solids (kg)	123137 @	\$6.13 per kg	\$754,830
Cull cows	61 @	\$370.00 (net)	\$22,570
Bobby calves	229 @	\$40.00 (net)	\$9,162

TOTAL INCOME \$786,562

Expenditure:

Animal Health (i.e. b loat, magnesium, mastitis, vet etc)	359 @	\$76.00 per cow	\$27,284
Herd Improvement			
Cows	359 @	\$40.00 per cow	\$14,360
Electricity - shed	359 @	\$35.00 per cow	\$12,565
Shed expenses (i.e.detergent, rubberware, filters etc)	359 @	\$23.00 per cow	\$8,257

TOTAL DIRECT COSTS	\$62,466
TOTAL GROSS MARGIN (before feed costs and interest)	\$724,096
GROSS MARGIN per dollar invested in cattle	\$1.41
<u>GROSS MARGIN per Stock Unit</u>	<u>\$237.89</u>

**Gross Margin per Stock Unit at Various
Milk Solids Production Levels and Milk Solids Prices**

		MILKSOLIDS PRICE \$/kg		
		\$5.52	\$6.13	\$6.74
KG	308.70	\$190.77	\$213.09	\$235.41
MILKSOLIDS	343.00	\$213.09	\$237.89	\$262.69
PER COW	377.30	\$235.41	\$262.69	\$289.97

Interest and Feed Costs:

Interest on Capital Stock Value:

\$514,275 @ 11.00% \$56,570

Feed (i.e. grazing off, hay etc.) per cow

@ \$319.00 \$114,521 \$171,091

RETURN per stock unit (after interest and feed) \$181.68

NOTE: Many in the dairy industry believe that a Gross Margin analysis of their enterprise is not relevant in today's climate, preferring to measure performance in kgms per ha or kgms per kgdm. Substantial extra costs are invested in fertility, water reticulation, pasture species, breeding and infrastructure, and care should be taken when making direct comparisons with other livestock enterprises.

3.2.7 Deer - Finishing

HYBRID DEER GROSS MARGIN

All Stag policy - Buy in weaners and all killed by January

Capital Stock Wintered: (1 July)

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>Total SU</u>
Weaner stags	100 @	\$350	\$35,000	1.7	170
Dollar Investment in deer per stock unit			\$ 205.88		

Production Parameters:

Death rate.	3%
Carcase weight at slaughter av date 1 Nov	55 kg
Spiker velvet 75% of animals	0.3kg/hd

Income:

Stags (55 kg CW)	97	55 @	\$8.00 /kg	\$42,680	
Velvet	75	22.5 @	\$80.00 /kg	\$1,800	
TOTAL INCOME					\$44,480

Expenditure:

Weaner stags (58 kg LW)	100	58 @	\$5.00 /kg	\$29,000	
Animal Health -	100	@	\$5.00 /hd	\$500	
Freight		100 @	\$10.00 /hd	\$1,000	
		97 @	\$15.00 /hd	\$1,455	\$2,455
Barley (0.2kg/day, 100 days)	100 @	\$6.00 /hd		\$600	
TOTAL DIRECT COSTS					\$32,555
TOTAL GROSS MARGIN (before feed costs and interest)					\$11,925
GROSS MARGIN per dollar invested in deer					\$0.34
<u>GROSS MARGIN per Stock Unit</u>					<u>\$70.15</u>

**Gross Margin per Stock Unit at Various
Weaner Purchase Prices and Venison Schedule Prices**

		VENISON SCHEDULE \$/KG		
		\$6.80	\$8.00	\$9.20
WEANER	\$4.50	\$49.55	\$87.21	\$124.86
PURCHASE PRICE	\$5.00	\$32.49	\$70.15	\$107.81
\$/kg Lwt	\$5.50	\$15.43	\$53.09	\$90.75

Interest Costs:

Interest on Capital Stock Value:

\$35,000 @ 11.00% \$3,850.00

RETURN per Stock Unit (after interest)

\$47.50

3.2.8 Deer – Breeding Herd

DEER GROSS MARGIN

Red Deer Herd selling Hybrid Weaner Stags
and Surplus Weaner Hinds

Capital Stock Wintered:

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>Total SU</u>
M.A. Hinds	130 @	\$550	\$71,500	2.2	286
18 Month Hinds	20 @	\$500	\$10,000	2	40
6 Month Hinds	22 @	\$300	\$6,600	1.5	33
Breeding Stags	5 @	\$1,500	\$7,500	3.5	17.5
	177		\$95,600		377

Dollar Investment in deer per stock unit \$253.92

Production Parameters:

Fawning - survival to sale	85%
Death rate.	3%
Rising 2 year hinds entering herd each year	15% of MA hinds

Surplus weaner hinds and stags sold on the farm

All Breeding stock TB tested every second year

Income: (Net of commission and levies)

Weaner Stags (58 kg LW)	63	58	@	\$5.00 /kg	\$18,270	
Weaner Hinds (52 kg LW)	44	52	@	\$4.80 /kg	\$10,982	
	107		@	\$273.55 /hd		\$29,270
Works Hind (50 kg CW)	17	50	@	\$7.20 /kg	\$6,120	
Works Stag (85 kg CW)	1	85	@	\$7.00 /kg	\$595	
						\$6,715
Velvet (4 kg/hd)	5	4	@	\$100.00 / kg		\$2,000
TOTAL INCOME						\$37,985

Expenditure:

Sire Stag	1 @	\$4,000	\$4,000
Animal Health	177 @	\$4.00	\$708
Velvet removal	Vet 5 @	\$80.00	\$400
Freight	18 @	\$15.00	\$270
TB Test	155 @	\$3.50	\$528.50
TOTAL DIRECT COSTS			\$5,907
TOTAL GROSS MARGIN (before interest)			\$32,078
GROSS MARGIN per dollar invested in deer			\$0.34
<u>GROSS MARGIN per Stock Unit</u>			<u>\$85.20</u>

**Gross Margin per Stock Unit at Various
Weaner Sale Prices and Weaner Numbers**

		WEANERS		
		96.00	107.00	118.00
WEANER	\$246.20	\$70.43	\$77.43	\$84.42
PRICE	\$187.95	\$77.43	\$85.20	\$92.98
	\$300.91	\$84.42	\$92.98	\$101.53

Interest Costs:

Interest on Capital Stock Value:			
	\$95,600 @	11.00%	\$10,516.00
RETURN per Stock Unit (after interest)			\$57.27

3.2.9 Deer - Velvetting

DEER GROSS MARGIN Velvet Production - Red deer

Capital Stock Wintered:

	<u>No.</u>		<u>Total</u>	<u>SU</u>	<u>Total SU</u>
Spikers	30 @	\$400	\$12,000	1.7	51
Rsg 2 yr Stags	15 @	\$500	\$7,500	2.3	34.5
Rsg 3 yr Stags	13 @	\$600	\$7,800	3.0	39
M.A. Stags	58 @	\$700	\$40,600	3.0	174
	116		\$67,900		299
Dollar Investment in deer per stock unit			\$227.47		

Production Parameters:

Death rate. 3%

Velvet yields, ranges and prices are extremely variable. The following yield assumptions have been made for this gross margin.

Spiker	0.25 kg	Spiker grade
2 yr	2 kg	Korean grades
3 yr	3 kg	Korean grades
M.A. Stags	4 kg	Korean grades

Income: (net of commission and levies)

Velvet				
Spiker	30 @	0.25 kg	80 /kg	\$600
2 yr Stags	15 @	2 kg	100 /kg	\$3,000
3 yr Stags	13 @	3 kg	100 /kg	\$3,900
M.A. Stags	58 @	4 kg	100 /kg	\$23,200
2nd growth	35 @	1 kg	80 /kg	\$2,800
Velvet Sold		344 kg	98 /kg	\$33,712
Cull stags	20 @	80 kg	7.00 /kg CW	\$11,200
TOTAL INCOME				\$44,912

Expenditure:

Weaner stags	30 @	\$350		\$10,500
Velveting by accredited farmer				
1st cut	116 @	\$10	\$1,160	
2nd cut	35 @	\$8	\$280	\$1,440
Animal health	116 @	\$5 /hd	\$580	\$580
Barley (0.5kg/day, 60 days)	116 @	\$9 /hd	\$1,044	\$1,044
TOTAL DIRECT COSTS				\$13,564
TOTAL GROSS MARGIN (before interest)				\$31,348
GROSS MARGIN per dollar invested in deer				\$0.46
<u>GROSS MARGIN per Stock Unit</u>				<u>\$105.02</u>

Gross Margin per Stock Unit at Various Velvet Prices and Velvet Yields

		VELVET SOLD (kg)		
		309.60	344.00	378.40
AVERAGE	\$80.36	\$75.43	\$84.69	\$93.95
VELVET	\$98.00	\$93.72	\$105.02	\$116.31
PRICE \$/kg	\$115.64	\$112.02	\$125.35	\$138.67

Interest and Feed Costs:

Interest on Capital Stock Value:			
	\$67,900 @	11.00%	\$7,469.00
RETURN per Stock Unit (after interest)			\$80.00

3.2.10 Pig – Breeding

PIG GROSS MARGIN - WEANER PRODUCER

Indoor Sows Selling Weaners - Canterbury

Capital Stock:

Sows	200	@	\$179.00	
Boars*	6	@	\$190.00	\$36,940
*(in combination with Artificial Insemination)				

Production Parameters

Weaners sold per sow per year	24
Sow Replacement rate	45
Boar replacement rate	50
Meal cost as a percentage of income	0.50
Litters per sow per year	2.35
High health herd (minimal disease)	

Income

Weaners at 20 kg	4800	@	\$95.00	\$456,000
Chopper Sows	70	@	\$260.00	\$18,200
Chopper Boars	3	@	\$225.00	\$675

TOTAL INCOME \$474,875

Expenditure

Replacement breeding stock (delivered)

Gilts	90	@	\$480 each	\$43,200
Boars	3	@	\$1,850 each	\$5,550

Purchased Feed (delivered)

Lactating Diet (t)	90	@	\$630.00 per tonne	\$56,700
Gestating Diet (t)	180	@	\$480.00 per tonne	\$86,400
Creep Diet (t)	38	@	\$915.00 per tonne	\$35,136
Weaner Diet (t)	67	@	\$850.00 per tonne	\$57,120
	<u>376</u>			<u>\$235,356</u>

Average feed price per tonne \$627

Genetic Costs (semen doses)	1000	@	\$18.00 per dose	\$18,000
Animal Health		@	\$50.00 per sow	\$10,000
R & M		@	\$45.00 per sow	\$9,000
Electricity		@	\$52.00 per sow	\$10,400
Labour		@	\$250.00 per sow	\$50,000
Sundries		@	\$35.00 per sow	\$7,000

TOTAL DIRECT COSTS \$388,506

TOTAL GROSS MARGIN (before interest) \$86,369

GROSS MARGIN Per Sow \$431.85

GROSS MARGIN Per Weaner \$18

Gross Margin per Sow at Various Weaner Prices and Feed Costs

		WEANER PRICE PER HEAD \$		
		90	95	100
FEED COST PER TONNE	595	\$371.00	\$491.00	\$611.00
AVERAGE \$	627	\$312.00	\$431.85	\$552.00
	658	\$253.00	\$373.00	\$493.00

Interest Cost:

Interest on Capital Stock Value

\$36,940 @ 11.00% per annum (13.4 weeks) \$1,047.11

Return per sow after interest \$426.61

Source: PIC NZ Ltd

3.2.11 Pig Finishing

PIG GROSS MARGIN - WEANER BUYER

Purchase Weaners and Finish - Canterbury
(95% bacon, 5% pork)

Capital Stock:

Weaners	4800	@	\$95.00	\$456,000
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Production Parameters

Mortality rate		
Pork		2 %
Bacon		2.5 %
Carcass Weight		
Pork		48 kg
Bacon		70 kg
Feed used to Pigmeat sold (kg Lwt) (FCR)		2.92
Meal cost as a percentage of income		46%
Buying 20kg weaners		
Purchase to Finish 13.4 weeks		
Pork Schedule		\$3.80
Bacon Schedule		\$3.65

Income

Porkers	235	@	\$182.40	\$42,900.48
Baconers	4446	@	\$255.50	\$1,135,953
	<u>4681</u>			

TOTAL INCOME

\$1,178,853

Expenditure

Stock purchase (delivered)				
Weaners	4800	@	\$95 each	\$456,000

Purchased Feed (delivered)

Grower Diet (t)	666	@	\$600 per tonne	\$399,456
Finisher Diet (t)	275	@	\$530 per tonne	\$145,885
	<u>941</u>			<u>\$545,341</u>

Average feed price per tonne \$580

Animal Health	@	\$6 per pig	\$28,800
R & M	@	\$3 per pig	\$14,400
Electricity	@	\$3 per pig	\$14,400
Labour	@	\$4 per pig	\$19,200
Freight			
-weaners	@	\$2 per pig	\$9,600
-baconers	@	\$4 per pig	\$18,725
Sundries	@	\$2.50 per pig	\$12,000

TOTAL DIRECT COSTS \$1,118,466

TOTAL GROSS MARGIN (before interest) \$60,388

GROSS MARGIN per weaner \$12.58

Gross Margin per Weaner at Various Baconer Prices and Feed Costs

		BACON PRICE PER HEAD \$		
		236	256	276
FEED COST PER TONNE	550	\$0.31	\$18.46	\$37.27
AVERAGE \$	580	-\$5.57	\$12.58	\$31.38
	610	-\$11.46	\$6.70	\$25.50

Interest on Capital Stock Value:

\$456,000	@	11.00% per annum (13.4 weeks)	\$12,925.85
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Return per weaner after interest \$9.89

Source: PIC NZ Ltd

3.3 CROP GROSS MARGINS

The following gross margins relate to an intensive cropping farm in Canterbury, on a medium soil type.

Care should therefore be taken when interpreting these results, as yield and costs estimates will differ according to each individual farm.

Assumptions made are: - All cultivation work carried out by the farmer.
- All spraying and harvesting done on contract.

3.3.1 Wheat

WHEAT GROSS MARGIN (Autumn sown feed)

Income:

Per tonne delivered	8.5 t/ha	@	\$330.00	/tonne	\$2,805.00
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Expenditure (per hectare):

Cultivation -

95 kW tractor -	4 hrs	@	\$55.00	/hour	\$220.00
(Fuel \$24.44/hr; R&M \$13/hr)					

Seed -	120 kg/ha	@	\$1,300.00	/tonne	\$156.00
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Fertilizer -

Sulphur Super 15	250 kg/ha	@	\$315.00	/tonne	\$78.75
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Urea	350 kg/ha	@	\$620.00	/tonne	\$217.00
					\$295.75

Weed, Pest and Disease -

Cougar	0.75 l/ha	@	\$53.87	/litre	\$40.40
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Glean	15 g/ha	@	\$0.73	/gram	\$10.95
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Opus	0.5 l/ha	@	\$68.27	/litre	\$34.14
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Amistar	0.75 l/ha	@	\$135.00	/litre	\$101.25
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Applications	4	@	\$22.00		\$88.00
					\$274.74

Irrigation - 75 mm	3 x	@	\$62.50		\$187.50
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(Electricity \$50.00; R&M \$12.50)

Harvest - (in silo; contract)	8.5 t	@	\$27.00 /tonne	\$229.50
Freight - (silo to port 40 km)	8.5 t	@	\$25.20 /tonne	\$214.20
TOTAL DIRECT COSTS				\$1,577.69
<u>GROSS MARGIN per Hectare</u>				<u>\$1,227.31</u>

**Gross Margin per Hectare at Various
Selling Prices and Yields**

		YIELD Tonnes/ha		
		7.65	8.5	9.35
PRICE	\$297	\$739	\$947	\$1,155
Per	\$330	\$991	\$1,227	\$1,463
Tonne	\$363	\$1,244	\$1,508	\$1,772

3.3.2 Barley

BARLEY GROSS MARGIN

Spring Barley (Doyen-Feed)

Income:

Per tonne 7.5 t/ha @ \$270.00 /tonne \$2,025.00

Expenditure (per hectare):

Cultivation -

95 kW tractor - 4 hrs @ \$55.00 /hour \$220.00
(Fuel \$24.44/hr; R&M \$13/hr)

Seed - 120 kg/ha @ \$950.00 /tonne \$114.00

Fertilizer -

Cropmaster 20 150 kg/ha @ \$708.90 /tonne \$106.34

Urea 200 kg/ha @ \$620.00 /tonne \$124.00 \$230.34

Weed, Pest and Disease -

Trimec 3 l/ha @ \$13.11 /litre \$39.33

Opus 0.5 l/ha @ \$68.27 /litre \$34.14

Amistar 0.5 l/ha @ \$135.00 /litre \$67.50

Applications 3 @ \$22.00 \$66.00 \$206.97

Irrigation - 75 mm 3 x @ \$62.50 \$187.50

(Electricity \$50.00; R&M \$12.50)

Harvest - 7.5 t @ \$27.00 /tonne \$202.50

(in silo; contract)

Freight - 7.5 t @ \$25.20 /tonne \$189.00

(silo to port 40 km)

TOTAL DIRECT COSTS \$1,350.30

GROSS MARGIN per Hectare \$674.70

Gross Margin per Hectare at Various Selling Prices and Yields

		YIELD Tonnes/ha		
		6	7.5	9
PRICE	\$230	\$105	\$371	\$637
PER	\$270	\$348	\$675	\$1,001
TONNE	\$311	\$591	\$978	\$1,366

3.3.4 Ryegrass

RYEGRASS GROSS MARGIN

(Proprietary AR1 Endophyte)

Income:

Seed (Machine Dressed)	1600 kg	@	\$2.10 /kg		\$3,360.00
Straw	7 bales	@	\$25.00 royalty		\$175.00
TOTAL INCOME					\$3,535.00

Expenditure(per hectare):

Cultivation -					
95 kW tractor -	4 hr	@	\$55.00 /hour		\$220.00
(Fuel \$24.44/hr; R&M \$13/hr)					
Seed -	10 kg/ha	@	\$9.50 /kg		\$95.00
Fertiliser -					
Cropmaster 20	100 kg/ha	@	\$838.00 /tonne	\$83.80	
Urea (split appln.)	400 kg/ha	@	\$620.00 /tonne	\$248.00	\$331.80
Weed, Pest and Disease -					
Trimec	3.5 l/ha	@	\$13.11 /litre	\$45.89	
Cougar	0.35 l/ha	@	\$53.87 /litre	\$18.85	
Opus	1 l/ha	@	\$68.27 /litre	\$68.27	
Amistar	0.75 l/ha	@	\$134.93 /litre	\$101.20	
Moddus	1 l/ha	@	\$148.62 /litre	\$148.62	
Application costs	5	@	\$22.00	\$110.00	\$492.83
Irrigation (75 mm)	3 x	@	\$62.50		\$187.50
(Electricity \$50.00; R&M \$12.50)					
Harvest - Windrow (contract)		@	\$90.00 /ha	\$90.00	
Header (contract)		@	\$220.00 /ha	\$220.00	\$310.00
Freight - (F.D.)	1.6 t	@	\$36.00 /tonne		\$57.60
Seed Dressing -	1920 kg	@	\$0.25 /kg		\$480.00
TOTAL DIRECT COSTS					\$2,174.73
<u>GROSS MARGIN per Hectare</u>					<u>\$1,360.27</u>

Gross Margin per Hectare at Various Selling Prices and Yields

		YIELD kg (MD)/ha		
		1067	1600	2133
PRICE	\$1.89	\$195	\$1,024	\$1,853
\$/kg	\$2.10	\$419	\$1,360	\$2,301
	\$2.31	\$643	\$1,696	\$2,749

3.3.5 Fescue

FESCUE GROSS MARGIN

2 year crop (establishment cost spread over the two years)

Income:

Seed (Machine Dressed)	600 kg	@	\$3.20 /kg	\$1,920.00
Straw	12 bales	@	\$20.00 each	\$240.00
TOTAL INCOME				\$2,160.00

Expenditure(per hectare):

Cultivation -				
95 kW tractor -	4 hr	@	\$55.00 /hour	\$110.00
(Fuel \$24.44/hr; R&M \$13/hr)				
Seed -	10 kg/ha	@	\$17.00 /kg (1st year only)	\$85.00
Fertiliser -				
Cropmaster 20	150 kg/ha	@	\$735.00 /tonne	\$110.25
Urea (split appln.)	450 kg/ha	@	\$620.00 /tonne	\$279.00
Application costs	4	@	\$22.00	\$88.00
Weed, Pest and Disease -				
Opus	1 l/ha	@	\$68.27 /litre	\$68.27
Amistar	0.75 l/ha	@	\$134.93 /litre	\$101.20
Trimec	3 l/ha	@	\$13.11 /litre	\$39.33
Application costs	3	@	\$22.00 /litre	\$66.00
Straw Shortener -Moddus	1 l/ha	@	\$148.62 /litre	\$148.62
Application costs	1	@	\$22.00	\$22.00
Irrigation (75 mm)	3 x	@	\$62.50	\$187.50
(Electricity \$50.00; R&M \$12.50)				
Harvest - Windrow (contract)		@	\$90.00 /ha	\$90.00
Header (contract)		@	\$220.00 /ha	\$220.00
Freight (F.D.)	0.720 t	@	\$36.00 /tonne	\$25.92
Seed Dressing -	720 kg	@	\$0.25 /kg	\$180.00
TOTAL DIRECT COSTS				\$1,821.09

GROSS MARGIN per Hectare \$338.91

Gross margin per Hectare at Various Selling Prices and Yields

		YIELD kg (MD)/ha		
		360	600	840
PRICE	\$2.88	-\$462	\$147	\$756
\$/kg	\$3.20	-\$347	\$339	\$1,025
	\$3.52	-\$232	\$531	\$1,293

3.3.7 Vining Peas

VINING PEA GROSS MARGIN

Income:

Peas	6 t	@	\$425.00 (105 TR)	\$2,550.00
Pea vine - bales (net)	50	@	\$4.00	\$200.00
TOTAL INCOME				\$2,750.00

Expenditure (per hectare):

Cultivation -				
75 kW tractor -	4 hr	@	\$55.00 /hour	\$220.00
(Fuel \$24.44/hr; R&M \$13/hr)				
Seed -	260 kg/ha	@	\$2.10 /kg	\$546.00
Fertilizer -				
Ammophos 8.15.15.1	150 kg/ha	@	\$1,043.00 /tonne	\$156.45
Weed, Pest and Disease -				
Bladex	2.5 l/ha	@	\$40.00 /kg	\$100.00
Tropotox Plus	2 l/ha	@	\$11.54 /litre	\$23.08
Application (combined; contract)				\$22.00
				\$145.08
Irrigation - 75 mm	3	@	\$62.50	\$187.50
(Electricity \$50.00; R&M \$12.50)				
Harvest - Purchaser of peas				\$0.00
Freight - Purchaser of peas				\$0.00
TOTAL DIRECT COSTS				\$1,255.03
<u>GROSS MARGIN per Hectare</u>				<u>\$ 1,494.97</u>

Gross Margin per Hectare at Various Selling Prices and Yields

		YIELD kg (MD)/ha		
		4.80	\$6.00	\$7.20
PRICE	\$361.25	\$679	\$1,112	\$1,546
PER	\$425.00	\$985	\$1,495	\$2,005
TONNE	\$488.75	\$1,291	\$1,877	\$2,464

3.3.8 Silage

MAIZE SILAGE GROSS MARGIN

(Sold standing in the field)

Income:

Yield - tonnes/haDM

21500 @ \$0.19 /kg in field \$4,085.00

Expenditure (per hectare):

Cultivation -

Prior to planting \$300.00

Pasture spray 3 litre/ha \$85.00

Precision Planting \$125.00

Hybrid seed Pioneer 34D71 @ 108000pph \$381.00

Fertilizer -

Lime applied 2.5/ha @ \$49.00 \$122.50

Starter DAP applied 250 kg/ha @ \$839.00 /tonne \$209.75

Side dressing of Urea 350 kg/ha @ \$629.00 /tonne \$220.15 \$552.40

Side dressing application \$80.00

Insecticide seed Poncho \$145.00

Weed, Pest and Disease -

Pre-emergent applied \$95.00

Post emergent applied \$150.00

Applications x2 \$64.00 \$309.00

Harvest, cartage & stacking \$0.00

Cover sealed and weighted \$0.00

Bacterial inoculant \$0.00

TOTAL DIRECT COSTS \$1,977.40

GROSS MARGIN per Hectare \$2,107.60

Gross Margin per Hectare at Various Selling Prices and Yields

		YIELD kg/ha		
		17200	21500	25800
PRICE	\$0.17	\$964	\$1,699	\$2,434
\$/kg	\$0.19	\$1,291	\$2,108	\$2,925
	\$0.21	\$1,617	\$2,516	\$3,415

3.3.9 Winter Cow Grazing

KALE GROSS MARGIN (Dryland)

(Crop sold standing on kgDM basis)

Income:

kg Drymatter/ha grown 8000 kgDM@ 24 c/kgDM #####

Expenditure (per hectare):

Cultivation -

95 kW tractor - 4 hrs @ \$55.00 /hour \$220.00
(Fuel \$24.44/hr; R&M \$13/hr)

Seed - 4 kg/ha @ \$16.00 /kg \$64.00

Fertilizer -

DAP 200 kg/ha @ \$827.00 /tonne \$165.40

Urea (autumn) 100 kg/ha @ \$620.00 /tonne \$62.00 \$227.40

Weed, Pest and Disease -

Tordon Max 1 l/ha @ \$75.00 /litre \$75.00

Applications 1 @ \$22.00 \$22.00 \$97.00

TOTAL DIRECT COSTS \$608

GROSS MARGIN per Hectare \$1,312

Gross Margin per Hectare at Various Selling Prices and Yields

		YIELD kgDM/ha		
		6400	8000	9600
PRICE	\$0.22	\$774	\$1,120	\$1,465
Per	\$0.24	\$928	\$1,312	\$1,696
kgDM	\$0.26	\$1,081	\$1,504	\$1,926

KALE GROSS MARGIN (IRRIGATED)

(Crop sold standing on kgDM basis)

Income:

14000 kgDM @ 24 c/kgDM \$3,360

kg Drymatter/ha grown

Expenditure (per hectare):

Cultivation -	4 hrs				\$220.00
95 kW tractor -		@	\$55.00	/hour	
(Fuel \$24.44/hr; R&M \$13/hr)					
Seed -	4 kg/ha	@	\$16.00	/kg	\$64.00
Fertilizer -					
DAP	200 kg/ha	@	\$827.00	/tonne	\$165.40
Urea (autumn)	200 kg/ha	@	\$620.00	/tonne	\$124.00
Weed, Pest and Disease -					
Tordon Max	1 l/ha	@	\$75.00	/litre	\$75.00
Karate	0.2 l/ha	@	\$90.00	/litre	\$18.00
Applications	3	@	\$22.00		\$66.00
					\$250.00
Irrigation - 100mm	4 x	@	\$62.50		
(Electricity \$50.00; R&M \$12.50)					

TOTAL DIRECT COSTS \$982

GROSS MARGIN per Hectare \$2,378

Gross Margin per Hectare at Various Selling Prices and Yields

		YIELD kgDM/ha		
		11200	14000	16800
PRICE	\$0.22	\$1,437	\$2,042	\$2,646
Per	\$0.24	\$1,485	\$2,378	\$2,062
kgDM	\$0.26	\$1,974	\$2,714	\$3,453

3.4 VEGETABLE GROSS MARGINS

Process Crops – Production Cost Models

Editors' note:

The following production cost models (compiled December 2009) have been kindly provided by the *Process Vegetable Product Group, Horticulture New Zealand*. The cost models are accompanied by notes (published here in part) and Horticulture New Zealand's disclaimer:

The cost models are based upon the activities of a "typical" grower using sound growing and other business practices.

The costings are designed to give growers a realistic breakdown of the costs of production for selected process crops within major growing areas. (Editors' note: Horticulture New Zealand's costings of indirect or overhead expenses, apart from overheads for tractors and equipment, have been omitted from this section. Costings for labour have also been omitted apart from contract labour requirements).

The costs of running tractors and equipment have been established by allocating the capital cost less resale value over the economic life and adding the cost of financial charges, maintenance, insurance and fuel. The cost of irrigation equipment has been calculated on the economic life of the irrigation equipment. Also included in the cost of irrigation equipment are the interest charges, insurance, maintenance and operating costs (electricity or fuel).

Where crops are harvested by processors and the costs charged in effect by deduction against growers' returns, the cost factors for harvesting are disregarded, and the growers' revenues are shown net of harvesting and delivery costs.

Where harvesting is the responsibility of the grower, it is common practice to employ a specialist contract harvester and accordingly contract rates are included.

Horticulture New Zealand's Disclaimer:

The costings have been prepared by the *Processed Vegetable Product Group, Horticulture New Zealand*. Every effort has been made to ensure the accuracy of the costings. However, growers use these costings at their own risk, and Horticulture New Zealand disclaims any responsibility and accepts no liability for any reliance on or use of the costings for any purpose whatsoever.

3.4.1 Green Beans

Source: Processed Vegetable Product Group, Horticulture New Zealand

GREEN BEANS (PROCESS)

Production Cost Model 2009

Canterbury District

<u>Growing Costs Operation</u>	<u>Hours/Qty</u> <u>Hectare</u>	<u>Unit</u> <u>Rate</u>	<u>Total Cost</u> <u>\$ per ha</u>
Preparation Seedbed			
Roundup + Pulse Applied	2.25 l		\$70.85
Pre-work - grubbing 3 times	1.5 hrs	\$118.61 /hr	\$177.92
Preparation seedbed			
Roll once	0.4 hrs	\$103.68 /hr	\$41.47
Plough once	1.1 hrs	\$119.81 /hr	\$131.79
Maxitill 3 times	1.2 hrs	\$118.61 /hr	\$142.33
Roll once	0.4 hrs	\$103.68 /hr	\$41.47
Planting			
Drilling - contract	1 ha	\$155.00 /ha	\$155.00
Seed	95 kg	\$6.98 /kg	\$663.10
Fertiliser			
Liming - 2.5 t/ha every 5 years	0.5 t/yr	\$42.00 /t	\$21.00
Cropmaster 15	300 kg	\$838.40 /t	\$251.52
Weed Pest & Disease			
Treflan	2 l	\$12.40 /l	\$24.80
Basagran	2.5 l	\$45.00 /l	\$112.50
Contact	0.1 l	\$15.00 /l	\$1.50
Protek	2 l	\$21.85 /ha	\$43.70
Application	2	\$22.00 /ha	\$44.00
Irrigation			
Water applied x5	150 mm	\$1.09 /mm	\$163.50
Labour	1.25 hrs	\$18.85 /hr	\$23.56
TOTAL GROWING COSTS			\$2,110.01
REVENUE			
Price received (10.5-11mm) per tonne	\$400	\$400	\$400
Crop yield paid weight (tonnes per ha)	8	10	11
TOTAL REVENUE			\$4,400
Less growing Costs (from above)			\$2,110
<u>GROSS MARGIN</u>			<u>\$1,890</u>

3.4.2 Sweetcorn

Source: Processed Vegetable Product Group, Horticulture New Zealand

SWEETCORN (PROCESS)

Production Cost Model 2009

Central Hawkes Bay

<u>Growing Costs Operation</u>	<u>Hours/Qty</u> <u>Hectare</u>	<u>Unit</u> <u>Rate</u>	<u>Total Cost</u> <u>\$ per ha</u>
Preparation seedbed			
Roundup & Pulse	3.25 l/ha	\$9.46 /l	\$30.75
Application	1 ha	\$39.00 /ha	\$39.00
Plough once - contract	1 ha	\$150.00 /ha	\$150.00
Disc and roll	1 ha	\$71.00 /ha	\$71.00
Power harrow and roll	1 ha	\$135.00 /ha	\$135.00
Planting			
Drilling with starter fert	1 ha	\$110.00 /ha	\$110.00
Seed (av of varieties)	12 kg	\$38.75 /kg	\$465.00
Fertiliser			
Cropmaster 15:10:10	0.25 /t	\$961.00 /t	\$240.25
Urea	0.2 /t	\$620.00 /t	\$124.00
Cultivate and side dress contract	1 ha	\$78.00 /ha	\$78.00
Weed Pest and Disease			
Band spraying contract	1	\$78.00 /ha	\$78.00
Roustabout	3 l	\$21.50 /l	\$64.50
Soil incorporation	1	\$138.00	\$138.00
Atrazine	2 l	\$7.50 /l	\$15.00
Alachor	3 l	\$22.30 /l	\$66.90
Confidor Supra (green vege bug)	1 l	\$76.50 /l	\$76.50
Aerial application	1	\$70.00 /ha	\$70.00
TOTAL GROWING COSTS			\$1,951.90
REVENUE - 30km from factory			
	SSJ Plus	SSJ Plus	Punch
Price received per tonne	\$187.00	\$187.00	\$187.00
Crop yield paid weight (tonnes per ha)	\$17.00	\$18.00	\$20.50
Less automatic reject deductions	\$18.70	\$18.70	\$18.70
TOTAL REVENUE			\$3,814.80
Less growing Costs (from above)			\$1,951.90
GROSS MARGIN			\$1,862.91

SWEETCORN (PROCESS)**Production Cost Model 2009***Marlborough District*

<u>Growing Costs Operation</u>	<u>Hours/Oty</u> <u>Hectare</u>	<u>Unit</u> <u>Rate</u>	<u>Total Cost</u> <u>\$ per ha</u>
Preparation seedbed			
Round up and pulse	2.25 l	\$10.00 /l	\$28.60
Application	1 ha	\$27.50 /ha	\$27.50
Chip hoe once	1 hr	\$150.00 /hr	\$150.00
Plough once	1 hrs	\$150.00 /hr	\$150.00
Roll once	0.5 hrs	\$75.00 /hr	\$37.50
Power Harrow and roll twice	2 hrs	\$150.00 /hr	\$300.00
Sowing contract			
Seed		\$450.00 /ha	\$450.00
Drilling - contract		\$87.50 /ha	\$87.50
Fertiliser			
Liming - 2.5 t/ha every 5 years	0.5 t/yr	\$55.00 /t	\$27.50
Cropmaster 15	0.375 t	\$961.00 /t	\$360.38
Urea	0.125 t	\$620.00 /t	\$77.50
Cultivate & side dress	1 hrs	\$50.00 /hr	\$50.00
Weed Pest & Disease			
Atrazine	2 l	\$13.00 /ha	\$26.00
Lorsban	0.6 l	\$26.12 /l	\$15.67
Maizegard	3 l	\$25.00 /l	\$75.00
Application	2 ha	\$27.50 /ha	\$55.00
Irrigation			
Water applied x 4	200 mm	\$1.50 /mn	\$300.00
Labour	1.5 hrs	\$25.00 /hr	\$37.50
TOTAL GROWING COSTS			\$2,255.65
REVENUE			
Price received per tonne	\$213	\$213	\$213
Crop yield paid weight (tonnes per ha)	18	20	22
TOTAL REVENUE	\$3,834	\$4,260	\$4,686
Less growing Costs (from above)	\$2,256	\$2,256	\$2,256
GROSS MARGIN	\$1,578	\$2,004	\$2,430

SWEETCORN (PROCESS)

Production Cost Model 2009 *Gisborne District*

<u>Growing Costs Operation</u>	<u>Hours/Qty</u> <u>Hectare</u>	<u>Unit</u> <u>Rate</u>	<u>Total Cost</u> <u>\$ per ha</u>
Seedbed Preparation			
Spray pasture by contract	1 time	\$48.00 /ha	\$48.00
Roundup and pulse	2.25 l/ha	\$10.55 /l	\$23.74
Plough once - contract	1 /ha	\$150.00 /ha	\$150.00
Disc and roll twice - contract	2 times	\$71.00 /ha	\$142.00
Power harrow and roll twice - contract	2 times	\$145.00 /ha	\$290.00
Roustabout or Sylon	3 l/ha	\$29.50 /l	\$88.50
Application	1 time	\$48.00 /ha	\$48.00
Incorporation	1	\$145.00 /ha	\$145.00
Planting and Fertiliser			
Sowing contract incl.fert app. @ 250kg	1 /ha	\$100.00 /ha	\$100.00
Seed (avg of sugary & s'sweet vars)	12 kg	\$34.00 /kg	\$408.00
Seed Treatment (Gaucho)	12 kg	\$4.00	\$48.00
Cropmaster fertiliser Applied	280 kg	\$935.00 /tonne	\$261.80
Post Emergent Weed Pest and Disease			
Atrazine	2 l/ha	\$7.50 /l	\$15.00
Callisto	0.08 l/ha	\$250.00 /l	\$20.00
Synoil	1 l/ha	\$7.20	\$7.20
Karate Zeon for cutworm	0.04 l/ha	\$600.00 /l	\$24.00
Application contract	1	\$48.00 /ha	\$48.00
Interrow cultivation			
Cultivate contract	1 /ha	\$63.00 /ha	\$63.00
Urea bagged & applied	0.2 t/ha	\$620.00 /tonne	\$124.00
Green Vege Bug/Corn Ear Worm Spray			
Tamaron	1 l/ha	\$37.00 /l	\$37.00
Aerial application	1 /ha	\$75.00 /ha	\$75.00
Land maintenance			
Disc and roll twice	2	\$71.00 /ha	\$142.00
Subsoil once	1	\$136.50 /ha	\$136.50
TOTAL GROWING COSTS			\$2,444.74
REVENUE - 30km from factory			
Price received	SSJ Plus	SSJ Plus	Punch
	\$173	\$173	\$180
Crop yield paid weight (tonnes per ha)	16	17	19.5
TOTAL REVENUE	\$2,768	\$2,941	\$3,510
Less growing Costs (from above)	\$2,445	\$2,445	\$2,445
<u>GROSS MARGIN</u>	<u>\$323</u>	<u>\$496</u>	<u>\$1,065</u>

3.4.3 Peas

Source: Process Vegetable Product Group, Horticulture New Zealand

PEAS (PROCESS)
Production Model 2009
Central Hawkes Bay

<u>Growing Costs Operation</u>	<u>Hours/Qty</u> <u>Hectare</u>	<u>Unit</u> <u>Rate</u>	<u>Total Cost</u> <u>\$ per ha</u>
Preparation seedbed			
Roundup	2 l	14.30 /l	\$28.60
Application	1 ha	\$38.00 /ha	\$38.00
Plough once	1.6 hrs	\$118.45 /hr	\$189.52
Disc and roll once	0.9 hrs	\$118.45 /hr	\$106.61
Disc and harrow twice	1.6 hrs	\$118.45 /hr	\$379.04
Planting			
Drilling - contract	1 ha	\$85.00 /ha	\$85.00
Seed (storage and transport)	270 kg	\$1.60 /kg	\$432.00
Roll pre emergence	1 hr	\$98.95 /hr	\$98.95
Fertiliser			
Liming 2.5t/ha every 5 years	0.5 t/yr	\$55.00 /t	\$27.50
Weed Pest & Disease			
MCPA	2 l	\$9.65 /l	\$19.30
Bladex	3 l	\$24.07 /l	\$72.21
Application - contract	1 ha	\$38.00 /ha	\$38.00
TOTAL GROWING COSTS			\$1,514.73
REVENUE			
Price received TR 105	\$420	\$420	\$420
Crop yield paid weight (tonnes per ha)	5	6	7
TOTAL REVENUE			\$2,940
Less growing Costs (from above)			\$1,515
<u>GROSS MARGIN</u>			<u>\$1,425</u>

PEAS (PROCESS)
 Production Cost Model 2009
Marlborough

<u>Growing Costs Operation</u>	<u>Hours/Qty</u> Hectare	<u>Unit</u> Rate	<u>Total Cost</u> \$ per ha
Preparation of Seedbed			
Roundup	2 /l	11.00 /l	\$22.00
Application	1 ha	27.00 /ha	\$27.00
Chip Hoe once	1 hrs	150.00 /hr	\$150.00
Plough - roll	1 hrs	150.00 /hr	\$150.00
Rotatill	0.5 hrs	125.00 /hr	\$62.50
Harrow and roll twice	2 hrs	150.00 /hr	\$300.00
Sowing			
Seed	325 kg	1.70 /kg	\$552.50
Drilling	0.5 hrs	130.00 /hr	\$65.00
Fertiliser			
Liming - 2.5 t/ha every 5 years	0.5 t/yr	55.00 /t	\$27.50
Weed Pest & Disease			
Application - contract	1 ha	27.00 /t	\$27.00
Gardoprim	2 l	9.30 /l	\$18.60
Irrigation			
Water applied x 3	150 mm	2.00 /mm	\$300.00
Labour	1.5 hrs	25.00 /hr	\$37.50
TOTAL GROWING COSTS			\$1,739.60
REVENUE			
Price received TR105	\$400	\$400	\$400
Crop yield paid weight (tonnes per ha)	5	6	7
TOTAL REVENUE	\$2,000	\$2,400	\$2,800
Less growing Costs (from above)	\$1,740	\$1,740	\$1,740
GROSS MARGIN	\$260	\$660	\$1,060

3.4.4 Vegetable Crop Gross Margin Trends

Crop	Gross Margin \$ per ha		
	2008/09	2007/08	2006/07
Asparagus	\$4370	\$1795	\$2120
Beans – process (Canterbury)			\$1023
Broccoli (South Auckland/Waikato)	\$840	-\$530	\$3565
Cauliflower (South Auckland/Waikato)	-\$85	-\$740	\$2280
Lettuce (South Auckland/Waikato)	\$340	\$3385	\$3950
Onions (Pukekohe)	-\$1005	\$1585	\$3620
Onions (Canterbury)	\$125	\$4940	\$6550
Peas - process (Hawkes Bay)		-	\$286
Peas - process (Canterbury)	\$960	\$1420	\$1395
Potatoes - process (Canterbury)	\$2775	\$2330	\$2740
Squash (Hawkes Bay/Gisborne)	\$975	\$1045	\$1010
Sweetcorn - process (Hawkes Bay/Gisborne)	\$1530	\$1245	\$1285
Sweetcorn - process (Canterbury)		-	
Table potatoes (South Auckland/Waikato)	-\$5600	\$4060	-\$1040

Source: Horticulture Monitoring Report – July 2007, July 2008, July 2009

3.5 FRUIT GROSS MARGINS

The following Gross Margins are included to give an indication of current profitability. Figures have been derived mainly from MAF Monitoring forecasts.

Care should be taken when interpreting these results, as yield and cost estimates will differ according to each individual property.

3.5.1 Kiwifruit

KIWIFRUIT Bay of Plenty Model Orchard 2009/2010

Based on a mature orchard in the Bay of Plenty with 4ha of Zespri Green and 1ha of Zespri Gold

Income: (per hectare)	Trays		
Green-OGR progress	6816 /ha @	\$3.40	\$28,968
Final payment (from previous season) *		\$0.28	\$2,385
Gold-OGR progress	2252 /ha @	\$6.00	\$13,512
Final payment (from previous season) *		\$0.41	\$4,620
Other crops			\$452
TOTAL INCOME			\$49,937
Expenditure (per hectare):			
Casual Wages - Pruning and general			\$11,050
- Picking			\$3,600
Fertiliser & Lime			\$1,920
Pollination			\$2,100
Weed and Pest Control			\$1,600
Electricity			\$240
Vehicle Expenses			\$1,600
Repairs and Maintenance			\$1,900
Contract Machine Work			\$230
General			\$520
Irrigation			\$85
TOTAL DIRECT COSTS			\$24,845
GROSS MARGIN PER HECTARE			\$25,092
<u>GROSS MARGIN per Tray</u>			<u>\$2.77</u>

* Residual payment for each crop is paid to growers in the next financial year.

Tray or Tray Equivalent(TE) – 3.6kg green kiwifruit or 3.3kg gold kiwifruit.

Updated for 2009/2010 using forecast figures from *Horticulture Monitoring Report – July 2009*

KIWIFRUIT GREEN

Bay of Plenty Model Orchard 2009/2010

Based on a mature orchard in the Bay of Plenty with 5 ha of Zespri Green

Income: (per hectare)	Trays		
Green - OGR progress	8520 /ha @	\$3.40	\$28,968
Final payment from previous season *		\$0.28	\$2,385
TOTAL INCOME			\$31,353
Expenditure: per hectare			
Casual Wages - Pruning and general			\$11,050
- Picking			\$3,600
Fertiliser & Lime			\$1,920
Pollination			\$2,100
Weed and Pest Control			\$1,600
Electricity			\$240
Vehicle Expenses			\$1,600
Repairs and Maintenance			\$1,900
Contract Machine Work			\$230
General			\$520
Irrigation			\$85
TOTAL DIRECT COSTS			\$24,845
GROSS MARGIN PER HECTARE			\$6,508
<u>GROSS MARGIN Per Tray</u>			<u>\$0.76</u>

* Residual payment for each crop is paid to growers in the next financial year.

Updated for 2009/2010 using forecast figures from *Horticulture Monitoring Report - July 2009*

KIWIFRUIT GOLD

Bay of Plenty Model Orchard 2009/2010

Based on a mature orchard in the Bay of Plenty with 5 ha of Zespri Gold

Income: (per hectare)	Trays		
Gold OGR progress (per tray)	11260 /ha @	\$6.00	\$67,560
Final payment from previous season *		\$0.41	\$4,620
TOTAL INCOME			\$72,180
Expenditure: (per hectare)			
Casual Wages - Pruning and general			\$11,050
- Picking			\$4,504
Fertiliser & Lime			\$1,920
Pollination			\$2,100
Weed and Pest Control			\$1,600
Electricity			\$240
Vehicle Expenses			\$1,600
Repairs and Maintenance			\$1,900
Contract Machine Work			\$230
General			\$520
Irrigation			\$85
TOTAL DIRECT COSTS			\$25,749
GROSS MARGIN PER HECTARE			\$46,431
<u>GROSS MARGIN Per Tray</u>			<u>\$4.12</u>

* Residual payment for each crop is paid to growers in the next financial year.

Updated for 2009/2010 using forecast figures from *Horticulture Monitoring Report - July 2009*

3.5.2 Export Apples

EXPORT APPLE GROSS MARGIN

Hawkes Bay Model Orchard 2009

Based on effective planted area at full production of 22 hectares with a conservative yield and an export price averaged over a range of varieties. (Figures are budgeted for 2009).

Income: (per hectare)

Apple Sales	3099.68 TCE* per ha	\$56,650	
			\$56,650

Expenditure: (per hectare)

Hand harvesting		\$6,386	
Pruning		\$1,605	
Thinning		\$2,323	
Other wages		\$1,614	
ACC-employees		\$145	
Total wages			\$12,073
Packing		\$9,364	
Packaging		\$8,500	
Cool storage		\$3,968	
Freight		\$650	
Total post harvest expenses			\$22,482
Weed and pest control		\$2,591	
Pollination		\$55	
Fertiliser and lime		\$136	
Electricity		\$236	
Vehicle		\$518	
Fuel		\$759	
Repairs and maintenance		\$745	
General		\$364	
Frost protection		\$41	
Contract machine work		\$59	
Total other working expenses			\$5,504
TOTAL DIRECT COSTS			\$40,059
GROSS MARGIN PER HECTARE			\$16,591
<u>GROSS MARGIN per Tray Carton Equivalent</u>			<u>\$5.35</u>

*Tray Carton Equivalent (TCE) is a measure of apple weight and is defined as 18.5 packed weight which equates to 18 kg sale weight.

Source: Horticulture Monitoring Report – July 2009

3.5.3 Viticulture

VITICULTURE GROSS MARGIN Marlborough Model Vineyard 2009

Based on effective planted area of 30 hectares of mainly Sauvignon Blanc variety of grapes

Income: (per hectare)

Grapes t/ha	11 tonnes	@	\$1,805.00	\$19,855
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Expenditure: (per hectare)

Hand harvesting	\$126
Pruning (and tying down)	\$2,589
Canopy/crop management	\$1,303
Other wages	\$640
ACC - employees	\$40
Weed and pest control	\$951
Fertiliser and lime	\$298
Electricity	\$142
Vehicle	\$253
Fuel	\$294
Repairs and maintenance	\$388
General	\$147
Frost protection	\$182
Contract machinery work	\$232
Machine harvesting	\$638
TOTAL DIRECT COSTS	\$8,223
GROSS MARGIN PER HECTARE	\$11,632
<u>GROSS MARGIN Per Tonne</u>	<u>\$1,057</u>

Source: Horticulture Monitoring Report – July 2009 using forecast figures for 2009/2010

3.5.4 Summerfruit Gross Margin Trends

Crop	Region	Market	Gross Margin \$ per ha		
			2008/09	2007/08	2006/07
Apricots		Export	\$22,450	\$14,325	\$37,200
Cherries		Export	\$36,010	\$24,080	\$30,850

Source: Horticulture Monitoring Reports – July 2007, 2008, 2009

3.5.5 Berryfruit Gross Margin Trends

Berryfruit	Product	Gross Margin \$ per ha		
		2008/2009	2007/2008	2006/2007
Strawberries		\$30,690	\$31,460	\$27,190
Blueberries	Fresh	\$22,170	\$23,105	\$30,470
	Frozen	\$4,495	\$13,460	\$13,730
Boysenberries		-\$1,095	\$11,085	\$10,535
Blackcurrants		\$1,000	\$3,690	\$3,690

Source: Horticulture Monitoring Report - July 2009.

3.5.6 Subtropical Fruit Gross Margins

Crop	Gross Margin \$ per ha	
	2008/2009	2007/2008
Avocados	\$2,130	\$5,700
Lemons	\$19,450	\$18,140
Mandarins	\$11,050	\$8,640
Persimmons	\$15,150	\$11,700

Source: Horticulture Monitoring Reports – July 2009.

SECTION 4

TAXATION

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With information from the following websites:

<http://www.ird.govt.nz>

<http://www.acc.co.nz>

NOTE:

This manual details both the current (January 2010) legislation and proposed changes where applicable.

While every attempt is made to ensure these writings are accurate, we must caution readers not to rely solely on the Financial Budget Manual without further reference, including professional advice where appropriate.

Significant changes to the New Zealand tax system are to be announced on 9th February 2010 by the Prime Minister in his Address to Parliament. We understand that any proposed changes will be included in the 2010 Budget, but no details have been announced. We therefore cannot include these changes in this Manual. Readers should consult their professional tax adviser regarding these changes.

Note: Before reading this section, please refer to the disclaimer in the Preface of this Manual.

4.1 INTRODUCTION

4.1.1 Tax Legislation

This section of the manual sets out some of the more important requirements for Income Tax, Fringe Benefit Tax and Goods and Services Tax. Information regarding Gift Duty is set out in *Section 5*.

The law relating to tax in New Zealand includes the Income Tax Act 2007, the Tax Administration Act 1994 and the Goods and Services Tax Act 1985. The Income Tax Act also sets out the requirements for other taxes, including Fringe Benefit Tax. Only selected aspects of the taxation law have been included in this section, and caution must be exercised when applying those guidelines to a particular circumstance. If in doubt, your accountant, or financial adviser should be consulted.

4.1.2 Recent Changes to Tax Law

In recent years there have been significant changes to the legislation in order to:

- broaden the income and consumption tax bases;
- reduce the scope for avoidance and evasion;
- lower the rates of tax;
- make the system fairer;
- simplify the tax system;
- make it more certain.

In essence, provisions relating to the calculation of tax liabilities are contained in the Income Tax Act 2007, administrative provisions have been consolidated into the Tax Administration Act 1994, while legislation relating to the Taxation Review Authority have been transferred to a separate Act.

The legislation changes were essentially a reorganisation and consolidation of existing law into a more logical order (including a change in the method of numbering sections of the Act), which also allowed some wording to be modernised. There has been no intention to change existing income tax law or current interpretation of that law.

The tax legislation has been rewritten in plain English in order to make it more understandable.

One aspect that changed was the introduction of a binding rulings regime. Under this regime, the Commissioner of Inland Revenue is able to issue rulings regarding the interpretation of tax law that will bind the Inland Revenue Department (IRD) in future decisions. For example, the IRD could issue a ruling regarding the tax implications of a proposed business transaction. Rulings can be classified as public rulings, product rulings, private rulings and status rulings. Product and private rulings are charged for on a full cost recovery basis. Rulings are valid for the period specified in the ruling but may be subsequently withdrawn. Rulings may also be terminated if there is a change in relevant law. Taxpayers are not bound by a ruling. The Commissioner is bound by the ruling he or she issues.

Simplification of the tax system, reducing compliance costs and clarification of problem areas of tax law and practice have been key features of IRD's tax policy work program. Changes made included amendments to the depreciation regime, new provisional tax rules, and amendments to the taxpayer compliance, penalty and interest regimes. Changes to the ACC levies were also announced.

Individuals earning employment income are able to request an income statement if they wish. Income statements show any tax owing or refund due i.e. it replaces the general assessment produced after the filing of the IR5. Earnings Certificates can also be requested which will detail an individual's wage and salary income and PAYE deductions, but unlike income statements will not show any tax calculations.

The changes also affect employers who have to file monthly schedules containing individual employee's salary and wages together with PAYE deductions and other information. This system replaced the former year-end reconciliation of PAYE.

With respect to farming, the scope of changes to the tax legislation were minimal. Many of these related to the application of the legislation to the current year e.g. livestock tax values, as opposed to structural changes.

Other tax-related investment changes introduced were the Portfolio Investment Entity (PIE) regime which allows investors in managed funds or other pooled investment vehicles to be taxed on investment gains at tax rates applicable to the investor and the introduction of the Kiwi Saver scheme which introduces first year incentives to encourage investors to join and annual employer/employee contributions.

Industry related changes include the introduction of an emissions trading scheme.

Taxpayers should seek professional advice regarding the application of these changes to any particular taxpayer.

4.2 THE INCOME TAX SYSTEM

4.2.1 Overview

The New Zealand income tax system is primarily a self-assessment system where the onus or responsibility rests on the taxpayer to correctly calculate taxable income and his or her tax liability on that taxable income and to pay income tax due within set time limits.

The role of the Inland Revenue Department (IRD) is mainly regulatory in that the IRD is required to ensure that taxpayers have correctly determined their tax liability within existing tax law and that income tax due has been paid on time. The IRD has the power to administer the penalty regime against taxpayers who do not correctly comply with their obligations.

The Income Tax Act introduced the Core Provisions, which state and define the key principles of income tax law and taxpayer obligations. The taxpayer obligations stated in the core provisions are:

- correctly determine their amount of tax payable;
- deduct or withhold the correct amount of tax from payments or receipts;
- pay tax on time;
- keep all necessary information and maintain all necessary accounts or balances;
- disclose all information that the Commissioner requires in a timely and useful way;
- co-operate with the Commissioner, and
- to comply with other specific tax obligations.

Income tax is collected throughout the year by either the PAYE (Pay As You Earn), RWT (Resident Withholding Tax), withholding tax on scheduler payments, or provisional tax systems. After the income year has concluded, each taxpayer should complete the appropriate annual Return of Income, which calculates actual tax payable and allows tax already collected to be credited against calculated tax liability. The taxpayer must file the return with the Inland Revenue Department, if required to do so. (See *Section 4.2.5 Returns of Income.*) An assessment is then issued to the taxpayer.

A taxpayer can dispute his or her income tax assessment. Under the disputes procedures, the taxpayer and the IRD must, in writing, state their various positions with respect to the items under dispute. There are several stages in this process which may involve a conference between the parties and adjudication. Recourse to the Taxation Review Authority and/or the Court is available in the final stages of the dispute.

Because of the complexity and rigid time restrictions of the dispute procedures, it is important that disputes are promptly dealt with and suitable professional advice is obtained by the taxpayer.

4.2.2 PAYE (Pay As You Earn) Tax on Personal Income

Under the PAYE system, source deductions of tax are made by employers, i.e. tax is deducted prior to payment or crediting of salary and wages to employees. Employees (and contractors in some cases) are required to complete an employee tax code declaration form IR330 which is used by the employer to help establish how much tax should be deducted. The employee to complete a declaration form when they start with a new employer or change tax codes. The tax deducted is periodically paid to the Inland Revenue Department.

The PAYE system applies to salaries, wages, and schedular payments (previously called withholding payments). Salary or wages are defined as any salary, wages or allowances received by way of overtime pay, bonus, gratuity, extra salary, commission or remuneration of any kind in respect of or in relation to the employment of the person.

The amount of tax deducted depends on the amount of payment and the tax code shown on the employee declaration. Tax tables to calculate the amounts to be deducted are published by the Inland Revenue Department (IR 184X). The obligations of an employer are detailed in the booklet IR335 Employers Guide.

The tax codes for salaries, wages and secondary earnings are as follows:

Code	Description
No declaration	For employees who have not given their employer a tax code declaration or their tax code certificate. (Tax rate 45%)
M	Earnings are the main source of income
M SL	Earnings are the main source of income with a student loan. (Only one job can have this code.)
S	Earnings are secondary sources of income and annual taxable income is no more than \$40,000 (Tax rate 21%).
SH	Earnings are secondary sources of income and annual taxable income is over \$40,000 but no more than \$70,000. (Tax rate 33%)
ST	Earnings are secondary sources of income and annual taxable income is over \$70,000. (Tax rate 38%)
S SL	Earnings are secondary sources of income and taxable income is less than \$40,000 with a student loan.
SH SL	Earnings are secondary sources of income and taxable income is more than \$40,000 but less than \$70,000 with a student loan.
ST SL	Earnings are secondary sources of income and annual income is over \$70,000 with a student loan.
ML	Earnings are the main source of income where annual taxable income is less than \$9,880 (i.e., entitled to the transitional tax allowance).
CAE	Casual agricultural employee.
EDW	Election day workers.

Schedular Payments (previously called withholding payments) are payments for personal services which are casual in nature or where there is not an employer-employee relationship. Common types of payment and the appropriate tax rates are specified in the IR330 form and include:

	%
Company directors' fees	33
Droving work	15
Shearing work	15
Agricultural, maintenance, development or other allied work on farm or land (including non-building improvements)	15
Planting, sowing or harvesting of vegetable crops	15
Agricultural work involving firewood cutting, post splitting etc, grass or seed cutting, hedge cutting, planting trees, planting or cutting flax, threshing, chaff cutting, hay making, etc, or gathering crops	15
Forestry or bush work	15

A non-employee performing any of the above services needs to complete an IR330 withholding payment deduction certificate and give it to the person paying him or her.

Failure to provide an employee declaration form increases the rate of withholding tax to be deducted by 15 cents for every \$1. The amount on which withholding tax is calculated should not include any GST charged by the contractor.

This tax mainly applies to payments by businesses to self-employed contractors. Withholding tax does not apply for payments to Companies.

Payment of PAYE and Withholding Tax on Schedular Payments

Employers must pay the total PAYE and withholding tax to the Inland Revenue Department and provide employer monthly schedules to IRD. The employer monthly schedule will contain various information including name and IRD number, tax code, child support, specified superannuation contribution (SSC), SSC withholding tax (SSCWT), Kiwi Saver contributions on behalf of employees and student loan deductions of each employee. Due dates depend upon the type of employer.

'Small' employers are those whose PAYE and SSCWT deductions did not exceed \$100,000 in the preceding year and they make one payment by the 20th of the month following the month when the deductions were made.

'Large' employers are those whose PAYE and SSCWT deductions exceed \$100,000 in the preceding year and they must make two payments each month. Payments are due on the 20th of the month (for tax deducted from payments made from the 1st to the 15th of the month); or the 5th of the following month (for tax deducted from payments made on or after the 16th of the month). However 'Large' employers do not have to provide the employer monthly schedule with each payment. On the 20th of the month a remittance certificate showing only the total amounts of tax deductions, and other deductions made in the first period. This will be able to be filed electronically. On the 5th of the

following month the full employer monthly schedule is required together with payment. Large employers are required to provide schedules electronically. Electronic filing is optional for small employers.

Employers must keep proper records for each employee showing gross wages, tax deductions, and tax credits (if any). Tax credits relate to the family support tax credit scheme and the guaranteed minimum family income tax credit scheme. All records relating to employee wages must be kept for seven years.

4.2.3 Resident Withholding Tax

Resident withholding tax (known as interest/dividend PAYE) is deducted from interest/dividend income earned by taxpayers. RWT is deducted and withheld at source by the institutions or companies that pay interest or dividends to their clients or shareholders. The RWT rate for dividends is 30% and for interest is 12.5%, 21% or 33% depending on the income level of the recipient. Where the recipient does not provide their IRD number to the payer of the interest, the rate of deduction is increased to 38%. RWT on dividends is also reduced to the extent that imputation credits are attached.

No tax is required to be deducted from payments to organisations holding a Certificate of Exemption. These certificates are issued by the Inland Revenue Department to financial institutions, companies with sales greater than \$2 million p.a. and organisations whose income is exempt from tax.

Interest will not attract RWT liability if:

- the interest is not paid wholly or partly in the course of carrying on a taxable activity
- the payer does not hold a valid certificate of exemption
- the payer's interest is below the \$5000 exemption threshold.

RWT does not have to be deducted on private borrowings unless those borrowings are used in a taxable activity eg. Farming.

Institutions which deduct resident withholding tax from interest/dividends are required to provide taxpayers with RWT certificates by 20th May each year. The certificates show RWT credits and allow a credit for the tax withheld to be claimed in the annual tax returns.

4.2.4 Provisional Tax System

Provisional tax is levied on all income which does not have tax deducted at source, such as PAYE or RWT. It is meant to ensure that all income will be taxed in the year in which it is earned. Provisional taxpayers include:

- Individuals who derive business or professional income, e.g. farmers.
- Companies.
- Trusts.

Taxpayers who have residual income tax (total tax less source deductions) of more than \$2,500 are required to pay provisional tax.

Provisional tax is based on either an estimate of the current year's income or a figure calculated from a previous year's tax liability. The rules are intended to ensure that approximately the correct amount of tax is paid in the year in which income is earned. The difference between provisional tax paid and the actual tax on the income earned, is adjusted in the next year.

Provisional taxpayers pay provisional tax:

- in three instalments if their residual income tax (RIT) was greater than \$2,500 in the previous income year;
- in either one, two or three instalments they are if they are new provisional taxpayers.

End of year tax to pay, called terminal tax, is calculated in the annual tax return. Terminal tax is due and payable based on the balance date of the taxpayer. The due dates are specified in *Section 4.15.1*. Where provisional or terminal tax is not paid by the date it is due, it will be charged with "use of money interest". Use of money interest applies to any underpayment or overpayment of provisional tax in addition to any late payment penalty which may apply. Use of money interest will generally run from the first instalment due date, except in the case of safe harbour taxpayers, who use the standard or "uplift" basis of estimating provisional tax.

Safe harbour taxpayers are individuals (other than a trustee) who use the standard option for determining their Residual Income Tax (RIT) for the current year (i.e. 105% of last year's RIT or 110% of the RIT for the year before last).

Options for calculating Provisional Tax

There are three options available to provisional taxpayers:

- The standard or 'uplift' method - 105% of the previous year's RIT. (110% of the year before the previous tax year if the previous year's RIT is unknown.)
- The estimation method - Based on an estimate of RIT, which may be revised at any time before the final instalment date. Those who estimate may be subject to shortfall penalties if they do not take reasonable care when making their estimates.
- The GST Ratio method (applicable from 2008-09 income year) - Based on a percentage of GST taxable supplies.

In certain circumstances, the Commissioner of Inland Revenue may determine the amount of provisional tax to be paid. (Section 119 of the Tax Administration Act 1994.)

Residual income tax is based on:

- a notice of assessment if one has been issued
- a taxpayer's return of income if one has been filed
- the Commissioner's assessment if a return has not been filed or an extension of time has been granted

Taxpayers may elect to become provisional taxpayers, so long as they have an RIT of at least \$2,500.

Taxpayers have the right to estimate their liability at any time on or before the third instalment date during an income year. All estimates must be 'fair and reasonable'. For example, it is not 'fair and reasonable' to make 'nil' returns for the first two provisional payments, and pay the full amount as the third payment in order to bring the total provisional tax up to the required level for the year. The reasonable care standard for estimations of provisional tax for those taxpayers with RIT under the safe-harbour threshold does not apply.

Generally provisional tax is treated as being due and payable in three equal instalments. Use of money interest (UOMI) applies to any underpayment or overpayment of provisional tax in addition to any late payment penalty which may apply. Use of money interest runs from the first instalment date except in the case of safe harbour taxpayers.

Use of money interest may be cancelled where a notice of assessment is issued stipulating a new due date for payment of the unpaid tax. If the assessment is issued before the original due date, a 30 day grace period is allowed which allows a taxpayer to pay the amount stated on the assessment without being charged interest.

Provisional Tax Example

Mr J. Smith is a farmer, with a personal income from his farm and from casual work for a local contractor. He uses the standard option of 105% of 2008/09 RIT and pays 2010 provisional tax of \$10,000. His total income is \$63,875. Total tax due in his 31 March 2010 tax return (in whole dollars) is:

Tax on total income	\$14,128
Less PAYE deductions	<u>1,000</u>
RESIDUAL INCOME TAX	\$13,128
Less provisional tax already paid	<u>10,000</u>
TERMINAL TAX	<u>\$ 3,128</u>

His terminal tax payment will be due on 7 February 2011. As he did not estimate his provisional tax, he is not subject to interest on the terminal tax due.

For the 2011 year, his provisional tax will be 105% of the residual income tax, (i.e. \$13,784). The provisional tax payments for 2011 are due as follows:

7 July 2011 (one third)	\$4,594
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7 November 2011 (one third)	\$4,594
7 March 2012 (one third)	\$4,594

Provisional Tax 2009/10

Key features are summarised as follows:

	Safe harbour Current rules	Non-safe harbour Taxpayers
Classification	All natural person provisional taxpayers except: <ul style="list-style-type: none"> • those who opt out • trustees • those with certificates of exemption 	All provisional taxpayers other than those safe harbour.
Interest Starting date:	Terminal tax date for those safe-harboured	The interest applies from first instalment date in all cases
Estimation:	Not required. A taxpayer who estimates leaves the safe harbour	Estimates not required
Instalment amount:	Formula (based on 105% of last year's RIT)	Formula or estimate. A requirement that taxpayers take reasonable care if they estimate.
Late payment penalty:	Yes	Yes, if taxpayer pays less than estimated or required by formula.
Interest on overpayments:	No (but taxpayers may opt out of the safe harbour by estimating, in which case interest starts at the first instalment date)	Yes (if more than \$100)
Interest on underpayments:	No, unless taxpayer opts out of safe harbour	Yes (if more than \$100)

Provisional tax changes

Changes have been made to the provisional tax rules in order to align provisional tax payments with GST due dates. The first step in the process of alignment is a change in GST due dates. For taxable periods ending on or after 31 March 2007, the GST due date will change to the 28th day of the month following the end of the taxable period, except for December when the due date will be 15 January, and April when the due date will be 7 May. The second step was to align the payment dates for provisional tax and GST.

The key features of the new rules are as follows:

- Provisional tax payments have been aligned with GST payment dates. Provisional taxpayers who are registered for GST on a two-monthly basis will pay provisional tax on their 2nd, 4th and 6th GST payment dates for the year. Provisional taxpayers who are registered for GST on a monthly basis pay provisional tax on their 4th, 8th and 12th GST payment dates. Provisional taxpayers who account for GST on a six monthly basis pay provisional tax twice a year with their GST payments.
- Provisional taxpayers that are not registered for GST pay provisional tax on the 28th day of the 5th, 9th and 13th month after their balance date.
- A new option for calculating provisional tax - the GST Ratio Method – has been introduced. See below for details.
- As a result of combining GST and provisional tax, GST refunds can be offset against a provisional tax liability.
- Provisional taxpayers must align their balance date with their GST periods.
- Voluntary payments of provisional tax will be able to be made at any time.

GST Ratio Method

The GST ratio method allows taxpayers to calculate their provisional tax liability based on a percentage of their GST taxable supplies. This method was introduced to assist taxpayers whose income varies greatly throughout a tax year, as by aligning provisional tax payments with a tax payer's GST taxable supplies, the provisional tax payments due should be better aligned with the taxpayer's cash-flow. However, only taxpayers who qualify to use this method are able to do so.

The qualifying criteria are as follows:-

- A taxpayers residual income tax liability for the previous tax year is greater than \$2,500 but does not exceed \$150,000;
- The taxpayer was registered for GST for the whole of the previous tax year and the previous year was not a year in which they began their taxable activity;
- The taxpayer's GST ratio (residual income tax to total taxable supplies) for the current tax year is between 0-100%; and
- For the current tax year the taxpayer files GST returns on a monthly or 2 monthly basis.

If a taxpayer meets the qualifying criteria and wishes to use the GST ratio method they must, before the beginning of the tax year in which they wish to use the method, send an election to the CIR. The CIR will calculate the taxpayer's GST ratio and advise the taxpayer of their ratio before their first provisional tax instalment is due.

Calculation of GST Ratio

The GST ratio is calculated as follows:

$$\frac{\text{Residual income tax for previous year}}{\text{Total GST taxable supplies for corresponding income year}} \times 100$$

When a taxpayer's RIT or GST taxable supplies are not available for the previous tax year, the taxpayer must use their RIT for the year before the previous tax year (i.e. 2 years previous) and use their GST taxable supplies that correspond with that income year.

An adjustment to the taxpayers GST ratio may be made if, as part of the taxpayer's taxable activity, an asset is disposed of, provided that the asset is not revenue account property and the value of the supply is not less than the greater of:

- An amount equal to 5% of the business's total taxable supplies for the previous 12 months; or
- \$1,000

The adjustment is optional, and may be made by adjusting the taxpayer's taxable supplies for both the relevant period and income year.

Number of Provisional Tax Payments Using the GST Ratio Method

If a taxpayer chooses to use the GST ratio method they are required to make 6 provisional tax payments (every 2 months) along with GST. Monthly GST filers will pay provisional on every second GST return. However, if the total amount of provisional tax is underpaid, only the taxpayer's compulsory provisional tax payments (instalments B, D and F) will be subject to UOMI (use of money interest). See *Section 14.15.1*.

For overpaid provisional tax, the UOMI provisions have been amended to ensure that if a taxpayer makes a voluntary payment of provisional tax on instalments A, C or E they will receive UOMI from the day after the date of payment 'date interest starts'.

Amount of Provisional Tax Payments using the GST Ratio Method

To calculate their provisional tax payments, a taxpayer must multiple their GST ratio by their total taxable supplies for the appropriate GST return period.

Example:

Jane has a 31st March balance date and chooses to pay her first instalment (instalment A) of provisional tax using the GST ratio method. The CIR has advised that her GST ratio is

9%. Jane files her GST returns on a 2-monthly basis. Jane's taxable supplies for the GST period 1st April to 31st May 2010 is \$22,050. Jane's provisional tax due on 28th June 2010 is \$1984.50 ($\$22,050 \times 9\%$). This formula must be used to calculate her provisional tax due for each of other 5 GST periods. For example, if Jane's taxable supplies for the GST period 1st June to 31st July 2010 is \$18,630. Jane's provisional tax due on 28th August 2008 will be \$1,676.70 ($\$18,630 \times 9\%$).

For taxpayers who file GST returns monthly, they must apply the GST ratio to the sum of their taxable supplies in the current taxable period and the preceding taxable period (i.e. the taxable supplies in the 2-month period matching the provisional tax instalment period.)

4.2.5 Returns of Income

In general, every taxpayer must furnish a return of income each year setting out details of the assessable income derived during the year, plus supporting information, including accounts, etc. Annual returns relate to an income year ending 31 March unless an alternative balance date has been approved by the Inland Revenue Department.

While IR3 returns will still have to be filed by relevant taxpayers, those taxpayers who have tax deducted from all their income at source, for example PAYE, RWT, receive an income statement which replaces the IR5. The result is the elimination of a yearly tax return for many taxpayers. Income statements will be sent mainly to people who have a student loan, or receive family assistance or are entitled to receive it. Income statements will also be sent to taxpayers who have had the PAYE rules applied incorrectly or had their tax under-deducted as a result of using inappropriate tax codes.

Taxpayers who earn income that does not have tax deducted at source, such as business or rental income, will be required to complete an individual income tax return. Those who earn wage, salary, interest and dividend income but have something out of the ordinary, such as a loss, will also be required to file a tax return.

The following return forms should be used:

IR3 For individuals who pay provisional tax. Includes self-employed taxpayers, salary and wage earners and superannuitants who derive investment income with a residual income tax liability in excess of \$2,500, and taxpayers whose income was derived from estates, trusts or partnerships.

IR3B Supplementary return of business income.

IR3F Supplementary return of farming income.

IR4 Company and club returns.

IR6 Estate or Trust return.

IR7 Partnership return.

Due Dates for Annual Returns

Annual returns for IR3 taxpayers are due 7 June each year. Annual returns for all other taxpayers are due as follows:

- 7th day of the 4th month after the end of that person's income year.
- 7th July for all other persons.

There are penalties for filing returns after the due date. Refer to *Section 4.2.7*.

Special rules apply to returns completed by accountants and other specialists. These allow an extension of time for filing returns until 31 March of the following year.

4.2.6 Assessment of Tax

The return of income requires the taxpayer to calculate his or her actual tax liability and then credit the PAYE, withholding, or provisional tax, which was paid during the income year. The Inland Revenue Department will issue an assessment notice to the taxpayer which will either accept or amend the return as filed. Possible outcomes are:

- A refund of tax overpaid (or a credit that can be offset against other tax due).
- More tax to pay (terminal tax). For individuals who are not provisional taxpayers, the due date for terminal tax is the 7th day of the following February. For provisional taxpayers, due dates are specified in *Section 4.15.1*.
- No adjustment required.
- Confirmation of a tax loss which can be carried forward to be offset against future income.

The Inland Revenue Department has the right to issue an amended assessment if it believes a previous assessment was not correct. The IRD has the right to do this until four years after the end of the income year (31 March) in which an assessment was made. Where a tax return was fraudulent or willfully misleading or where it omitted income, then the Inland Revenue Department can issue an amended assessment without any time limit.

The taxpayer has the right to dispute their tax assessment. Commentary on the disputes procedures appears in *Section 4.2.1, Overview of the Tax System*. It is advisable to seek professional advice if a tax assessment is under dispute as the procedures are complex and subject to strict time restrictions.

A taxpayer who has lodged a competent objection or challenge to an assessment is not required to pay:

- the deferrable tax
- a shortfall penalty in respect of tax in dispute
- the interest accruing on the deferrable tax or shortfall penalty until the due date for payments of that deferrable tax.

If the taxpayer is successful in the dispute, the IRD will pay interest on the tax which the taxpayer paid before litigation. Alternatively, if the IRD is successful the taxpayer will be liable for interest on the unpaid portion of tax which is outstanding from the original due date.

4.2.7 Penalties

Interest

“Use of money interest” is not a penalty as such, although it is appropriate to outline the provisions here.

The principle behind the two-way interest regime is that tax payments are due on prescribed dates, and taxpayers have an obligation to pay on the applicable date. Interest will provide an incentive to pay the right amount of tax at the right time by removing any benefit which can be achieved by deferring tax payments.

The two-way interest regime applies to both the taxpayer and the IRD, although the interest rates differ. Interest on underpayment of tax will be charged to the taxpayer at 8.91% p.a., while interest on overpayment will be paid to the taxpayer by the IRD at 1.82% p.a. (**Note:** These rates of interest are determined by the IRD and are subject to change. Taxpayers should consult their tax adviser or the IRD for the current rates.) Generally, interest will be charged from the day after the original due date until the tax is paid. Interest received (by the taxpayer) will be assessable and subject to withholding tax; interest paid will be deductible provided it is “business related”.

Penalties

The penalties regime applies to place greater emphasis on taxpayers meeting their obligations at the standard expected of a reasonable person. The penalty regime supports self-assessment concepts by encouraging voluntary compliance with the law.

Some, but not all, penalties may be remitted by the Commissioner. Where remitted, the debt (penalty) is legally forgiven.

There are two classes of penalty under the regime. The key features of each class are outlined below.

Civil Penalties

Civil penalties apply in the following circumstances:

- Late filing of returns. (Penalties range from \$50 to \$500, depending on the amount of net income.)
- Late payment of tax (5% plus 1% per month until paid). The 5% penalty is charged in two stages. The first 1% is charged on the day immediately after the due date for payment. The remaining 4% is charged if the tax remains unpaid seven days after its due date. The late payment penalty does not apply if unpaid tax is \$100 or less.

- Shortfall penalties where tax is underpaid because of;
 - a lack of reasonable care (20% of deficient tax)
 - an unacceptable interpretation or application of tax law (20% of deficient tax)
 - gross carelessness (40% of the deficient tax)
 - an abusive tax position (100% of the deficient tax)
 - tax evasion (150% of the deficient tax)
- Promoter penalties imposed upon promoters of certain arrangements intended to produce taxation-related benefits.

The penalties may be abated for voluntary disclosure, or increased if the taxpayer obstructs the IRD. Threshold amounts apply to ensure that trivial amounts do not attract such penalties.

Civil penalties are not tax-deductible.

Criminal Penalties

Penalties relate to the offence and can vary from fines of up to \$2,000 for first offences (eg.: for failing to provide information when required to do so), to fines of up to \$50,000 and/or imprisonment for up to five years for tax evasion.

4.3 CALCULATING TAXABLE INCOME - OVERVIEW

4.3.1 Core Provisions

The core provisions of the Income Tax Act 2007 set out the basis of income tax law in New Zealand. Core provisions, broadly, are those sections of the legislation which define the tax base by bringing certain income to tax, exempting various types of income, prescribing the rules for deductions, and defining when a person is resident in New Zealand. These provisions adopt a “global” approach to the calculation of an income tax liability, and have been written in plain language.

The core provisions state in writing and in diagrammatic form the method of calculating and satisfying the annual income tax liability. The annual gross income is reduced by the allowable tax deductions in order to determine the net income or net loss of the taxpayer. Taxable income is calculated by deducting net losses carried forward (if any) from net income. Tax at the applicable rates is calculated on the amount of taxable income, and is then adjusted for rebates.

Available tax credits (e.g. PAYE, RWT, overseas tax paid and/or provisional tax already paid by the taxpayer) are then credited against this net tax liability in order to establish if the taxpayer has underpaid or overpaid their tax for the year. Underpaid tax results in more tax to pay (terminal tax) while overpaid tax generally results in a refund to the taxpayer.

4.4 CALCULATION OF TAXABLE INCOME - INDIVIDUALS

4.4.1 Overview

Individuals have to file IR3 tax returns (depending on their sources of income - see *Section 4.2.5*, Returns of Income). While IR3 returns will still have to be filed by relevant taxpayers those taxpayers who have tax deducted from all their income at source e.g. PAYE, RWT etc may receive an income statement which replaces the IR5. Individuals are required to pay tax at the rates specified by the Income Tax Act. These rates vary according to the level of income on the basis that the higher the income, the higher the marginal rate of tax. The rates of tax are set out in *Section 4.15.2* Rates of Income Tax.

Taxable income is the net amount after deducting exempt income and allowable deductions from income received by the taxpayer.

The actual tax liability for the year is the amount of tax (calculated on taxable income) less the applicable rebates and adjustments (if any). These are calculated in the taxpayer's income statement.

It is usual to find that some taxpayers must make a final adjustment to settle their tax liability. The amount of adjustment is calculated by deducting the tax paid during the year (e.g. PAYE or provisional tax) and any other tax credits from their actual tax liability. A negative amount represents an overpayment of tax, which will be refunded to the taxpayer. A positive amount represents an underpayment of tax, which must be subsequently paid to the Tax Department as terminal tax.

4.4.2 Assessable Income

This includes, among other sources:

1. Business income (includes farm income).
2. Monetary remuneration from employment, such as salary and wages, allowances (other than reimbursing allowances), bonuses, gratuities, emoluments (including redundancy), or other monetary benefits.

Salary and wages includes:

- Value of board, lodging and house allowances received.
- Payments on account of an employee.
- Pensions and superannuation from past employment.
- National superannuation.
- Earnings related Accident Compensation receipts.
- 'Basic Grant' paid to students.

3. Personal property sales e.g. company shares if it is the business of the taxpayer to deal in such property, or if the property was acquired for the purpose or intention of selling or otherwise disposing of it.
4. Revenues from land e.g. net rents received; profits from extraction, removal or sale of minerals, timber, etc.
5. Gains from the sale of land in some circumstances.
There are complex rules regarding the taxation of gains from the sale of land (including improvements e.g. buildings). The following list provides a simplified summary:

Gains are taxable where:

- A. Land purchased and sold within the intention of resale. Intention of resale must be present at the time of purchase. Tax liability will attach whenever the land is sold.
- B. Land sold by a dealer in land. If the land was purchased for a land dealing business, tax liability will attach no matter when the land was sold. If the land was purchased not for the dealing business, tax liability will attach only if the land is sold within ten years of purchase. A dealer has been judicially defined as “one who is engaged in a reasonable frequency of transactions.”
- C. Land sold by a develop/divider of land. The same provisions re business/ non-business acquisition set out in B above apply.
- D. Land and improvements sold by a builder. The same provisions re business/ non-business acquisition set out in B above apply.
- E. Land sold where at least 20% of the gain is due to resource consent changes or approvals and the land is sold within ten years of acquisition.
- F. Sub-divided land where the scheme of subdivision was commenced within ten years of acquisition.
- G. Major sub-divisions involving significant expenditure.

There are various exemptions to avoid tax liability attaching under one or more of the above categories of land sales. There is an exemption for land used as genuine residential accommodation by the taxpayer and his/her family prior to the sale and where the area does not exceed 4,500 square metres. This exemption applies to all the land sale categories.

There is also an exemption for land used prior to the sale by the taxpayer as business premises for which business activities are actively conducted. This

exemption also applies to all categories of land sales but is qualified with respect to the builder category.

For land sale categories E, F and G, there is also an agricultural exemption. This exemption requires the land to be used for the purposes of an agricultural business prior to the sale and able to be used for the purposes of an agricultural business subsequent to the sale.

For land category F, there is an exemption if the sub-division is undertaken for the purposes of deriving rental income.

There are a number of anti-avoidance measures in this legislation, the most significant of which are the associated persons provisions. These provisions deem spouses, children, parents, companies, trusts and partnerships to be associated persons of a liable taxpayer. There are two purposes to these provisions. Firstly they are designed to prevent land owners from transferring liable land to an associated person to avoid the tax liability. The provisions deem to profit made by the transferee to be liable as if it were made by the transferor.

The second purpose applies only to categories B, C and D. Where the taxpayer is an associated person of dealer, developer/divider or builder when the land was acquired, that association will taint the taxpayer meaning that the land sale can be taxed under the category B, C and D tax provisions even although the taxpayer him/herself is not a dealer, developer/divider or builder. The definition of an associated person was amended in 2009 to extend the liability of an associated person.

6. Royalties and 'know how' payments.
7. Interests, dividends, annuities and pensions.
8. All income-tested benefits paid by the Department of Social Welfare.
9. Travelling allowances received by an employee will be taxable except those amounts which represent a reimbursement of additional transport costs incurred by the employee in travelling between home and his or her place of work.

4.4.3 Exempt Income

The following items, amongst others, are exempt from income tax:

- Prize money from horse or dog racing, or trotting.
- Prizes from Lotto, Instant Kiwi and Bonus Bonds.
- Monies received by way of gifts, legacies, and capital gains.
- Any educational scholarship or bursary (but not the 'basic grant' which is paid by the New Zealand Government).

4.4.4 Deductions for Employees

Recipients of salary, wages and/or national superannuation, and casual agricultural employees, are not permitted to deduct employment related expenses.

However, there is one category of deduction that still applies to most people. Expenses incurred in the calculation of a person's liability for tax may be claimed as a deduction. This includes fees paid for preparation of accounts and tax returns, and purchase of reference materials to assist the taxpayer in calculating his or her tax.

4.4.5 Personal Tax Rebates

Rebates are offset against the tax liability calculated. However, the total rebates claimed cannot exceed the assessed amount of tax payable, so the rebates cannot be claimed as a refund if they are more than the tax which is due.

In the past rebates were claimed by salary and wage earners when completing an annual tax return. Now, individual taxpayers claim rebates using a rebate claim form. All rebate claim forms for an income year can be filed at any time. The rebate claim form will be used by all individuals who are eligible to claim rebates, including those who will still be required to file an annual tax return.

When Inland Revenue has processed a rebate claim form a rebate claim notice will be issued to inform the taxpayer of the rebates allowed and the amount of the refund payable.

The principal rebates available to individuals for the current income year are:

Personal Tax Rebate for Child Taxpayer

Lesser of \$292.50 and 12.5% of net income less interest and dividend income.

This rebate applies to a child taxpayer who during the income year was under 15 years old or was under the age of 19 years and attended a primary, secondary, or special school, in that tax year.

Transitional Tax Allowance

This allowance is available to a full-time earner (20 hours remunerative work per week) without dependent children.

<u>Assessable Income</u>	<u>Rebate</u>
Up to \$ 6,240	\$728
\$6,241 to \$9,880	\$728 less 20% of excess over \$6,240
Over \$9,880	Nil

This rebate is not allowed if the taxpayer or spouse is entitled to the Family Support tax credit or the Guaranteed Minimum Family Income tax credit.

The rebate is reduced if the taxpayer was not a full-time earner for the whole year. The definition of full-time earner includes people engaged in remunerative work for not less than 20 hours each week.

Housekeeper/Child Care Rebate

The lesser of \$310 or 33% of payments made.

This rebate is allowable for a housekeeper, or for childcare (at home, at a childcare centre, or any other institution). It is available, provided the child care services are necessary because the taxpayer is a sole parent, or is disabled, or the care is necessary for business or employment, or when a housekeeper is required because of the taxpayer's disability.

Donations

33.33% of qualifying payments made.

Donations must be for a minimum of \$5 and made to approved charities. Receipts must be furnished in support of the rebate claimed.

Visitors from Overseas

Overseas visitors who work for part of the income year in New Zealand are allowed a proportion (based on time worked here) of the following rebates:

- Child taxpayers
- Housekeeper
- Transitional Tax Allowance

4.4.6 Family Assistance

Family tax credits are intended to give income support to low and middle income earners with families.

There are two types of family assistance: family plus and family support. Family plus is designed to give support to low and middle income earners and is made up of:

- the in work payment or the child tax credit,
- the parental tax credit; and
- the family tax credit.

Family support credits and child tax credits are to provide assistance for families who have dependent children aged 18 years or younger. The family tax credit provisions ensure a minimum take-home income for all full-time earners with dependent children in addition to family support and child tax credits. The parental tax credit provides additional family support to low to middle income working families for an eight week period after the birth of a child. The maximum entitlement is \$1,200 per dependent child born.

Family assistance credits are administered by the IRD and may be received by way of interim fortnightly instalments or at year end upon filing an annual return.

Family assistance entitlement for each year is determined under the following formula:

Family support credit + child tax credit or in work payment + parental tax credit – family credit abatement.

The family income thresholds and tax credit entitlements for receiving family support credits, child tax credits or in-work payments, family tax credits and parental tax payments for the years ending 31 March 2010 are set out in *Section 4.15.10*.

In addition to family income being within the income threshold, a family's eligibility to receive family assistance is determined in relation to an "eligible period" for the income year and where four criteria are met. An eligible period means an unbroken period in an income year. The four criteria are:

- the person is a New Zealand resident and is sixteen years of age or over during the period,
- he or she must be the principal caregiver of one or more children during the period,
- his or her marital status must remain the same during the period.
- the child or children to who the claim relates must be a dependent child or dependent children.

Other provisions are:

- A separated parent will be entitled to the in work payment if he or she has exclusive care of a dependant child for at least one third of a tax year.
- A separated person's eligibility for the in-work payment and eligibility criteria relating to the care of that child are considered for the periods during which that parent was the principal caregiver.
- Only the family support credit or a parental tax credit will be apportioned on the basis of the time that a dependant child spends with another qualifying person.
- If two people are eligible for a child tax credit or an in-work payment in relation to a child, the amount of the credit that one person is entitled to is not affected by the other person's eligibility.

4.5 CALCULATING TAXABLE INCOME - COMPANIES

A company pays tax in its own right (i.e. it is separate and distinct from its shareholders). The company rate of tax on income derived by New Zealand resident companies is 30%. Taxable income essentially means business income less allowable deductions including depreciation. Under the imputation system, tax payable by a company can be available as a tax credit to the shareholders by the way of imputation credits attached to dividends. Companies pay tax through the provisional tax system (see *Section 4.2.4*).

4.5.1 Imputation System

Dividends paid can be subject to imputation tax credits. This means that tax paid by the Company can be passed on as a tax credit to the shareholders.

In a simplified example:

Family Company Limited earns a taxable income of	\$100.00
Company tax payable (30%)	<u>30.00</u>
Profit after tax	<u><u>\$70.00</u></u>

The directors decide to declare a dividend of \$30.00. They have the option of deciding how much imputation tax credit can be attached to the dividend, although the maximum imputation credit cannot be: (a) more than the ratio of tax to income at the current tax rate, and (b) more than the amount of tax paid.

$$\begin{aligned}\text{Maximum ratio} &= \frac{\text{tax rate}}{1 - \text{tax rate}} \\ &= \frac{0.30}{1 - 0.30} \\ &= 42.86 \% \text{ of the dividend}\end{aligned}$$

In the example, the maximum possible imputation credit is the total tax paid by the company, i.e. \$30.00. However, the maximum possible imputation credit also cannot exceed the ratio multiplied by the dividend, i.e. \$12.86 (\$30.00 x 42.86%). Therefore, the maximum imputation credit that can be distributed with this dividend is \$12.86.

The remainder of the tax paid can be carried forward, subject to shareholder continuity rules being met, in an imputation credit account. The balance carried forward can be used for tax credits in later years. Assuming the directors decide to distribute the maximum tax credit shown above, this will affect the shareholders (in total) as follows:

Dividend received by shareholder	\$30.00
plus imputation credit advised on the dividend notice:	<u>12.86</u>
Total to be declared on the tax return along with other income	<u>\$42.86</u>
Tax on \$42.86 at 30% (personal tax rate)	\$12.86
Deduct imputation tax credit advised by the company (as above)	<u>12.86</u>
	<u>\$0.00</u>

Additional tax to pay as a result of receiving a \$30.00 dividend is \$0.00.

The company must maintain an Imputation Credit Account (ICA)

This account will include:

CREDITS:

- All Company tax payments
- Balances brought forward from previous years
- Dividends received with imputation credits attached

less DEBITS

- Imputation credits allocated to shareholders on dividends declared;
- Tax refunds received

The Imputation Credit Account can go into debit, by allocating the shareholders' credits before the company pays its tax, but it must be zero or in credit by 31 March each year, or the amount overpaid plus a penalty (of 10%) is payable. An imputation return must be filed by 31 May each year. These dates apply regardless of the company's actual balance date.

To Summarise:

Imputation means that company dividends are not subject to double taxation. Company tax paid by the company can be passed on as a credit to shareholders. As a result, if a company has enough imputation credits, and decides to distribute them, then dividends received should not result in extra tax to pay.

Resident Withholding Tax

Resident withholding tax (refer to *Section 4.2.3*) must also be deducted from dividends at a rate of 30%, but any imputation credits are offset against the amount to be deducted.

4.5.2 Bonus Issues

A company can elect to treat a bonus issue as either taxable or non-taxable.

4.5.3 Losses

Losses can be carried forward and deducted from the first available assessable income, subject to the following rules:

- At least 49% of the voting interests or market value interests in the company must be held by the same shareholders from the beginning of the period of loss to the end of the period of carry forward.
- Losses must be offset in the same order as incurred.
- Losses can be group offset between a loss company and a profit company provided that there is a minimum 66% common shareholding between the two companies.

4.5.4 Payments to Associated Persons

Special considerations apply where associated persons (for example, relatives) of the shareholders or directors receive remuneration from the company. These may affect arrangements to split income between family members, and it would be advisable to seek professional advice under these circumstances.

4.5.5 Dividends Received by Companies are Taxable

Dividends received by a company are taxable but imputation credits may be attached to eliminate tax liability. Dividends received from a foreign company may be subject to a foreign dividend withholding payment of 30% of gross dividend less any foreign withholding tax paid.

4.5.6 Qualifying Companies

Closely held companies may elect to be taxed as though they are a partnership under the Qualifying Company tax regime.

The criteria for a company to be a qualifying company include:

- not a unit trust
- not a foreign company
- at all times during the year the company has a maximum of five shareholders, or is a flat-owning company
- each shareholder must be a natural person, another qualifying company, or a trustee of a trust where all cash dividends and taxable bonus issues are distributed to beneficiaries
- foreign non-dividend income under \$10,000
- all directors and shareholders 20 years of age and over must elect that the company become a Qualifying Company
- shareholders must elect to be personally liable for their share of income tax payable by the company.

An entry tax, called Qualifying Company Entry Tax (QCET), is payable on entry to the scheme. This is 30% of taxable revenue reserves that would arise had the company been wound up at the time of entry. It is common for an eligible company that has no revenue reserves to elect to become a Qualifying Company in order to avoid paying QCET.

The major advantages and disadvantages of electing to become a Qualifying Company are as follows:

Advantages

- Capital gains can be distributed tax free without liquidation of the company.
- Tax losses can be allocated directly to the shareholders. (Certain additional criteria must be met.)
- Dividends paid are either tax free to individual shareholders or have maximum imputation credits attached.

Disadvantages

- Shareholders are personally liable for company tax of Qualifying Company.
- Cost of entry into the regime.
- Tax losses incurred before becoming a Qualifying Company cannot be carried forward i.e. are forfeit.
- Complex rules of the regime.

Any taxpayer contemplating election as a Qualifying Company is advised to seek professional advice.

4.5.7 Repurchase of Shares by a Company

Under the Companies Act 1993, a company may repurchase shares which it has issued. This amounts to a distribution, but may not be subject to tax. The rules regarding the cancellation, repurchase or redemption of shares are complex, and professional advice should be sought concerning the impact such activities have upon company tax.

4.6 CALCULATING TAXABLE INCOME - PARTNERSHIPS

4.6.1 Overview

A partnership is not a taxpaying entity and is not itself liable to pay tax. However the partnership must file a return of income (IR7) that shows the partnership income (or loss), and details the distribution of income among the partners. Each partner must then file an annual return declaring their portion of the partnership income. Accounts should be furnished with the partnership return.

The partnership's assessable income is calculated under the same provisions that apply to other businesses conducted by sole traders or by companies.

Each partner is liable for tax as an individual and must add his or her share of the net partnership income to income received from other sources. Partnership losses are also allocated to the individual partners, as a partnership may not carry a loss forward.

Payments of salary or wages and bonus payments made to a working partner under a written contract of service will be tax-deductible to the partnership. Normal PAYE procedures will apply to these payments.

4.6.2 Family Partnerships

The use of family partnerships has been a common device for splitting income among family members.

If the Commissioner of Inland Revenue believes that the remuneration or share of profits paid to the relative is excessive, he has the power to reallocate the partnership income for taxation purposes between the partners in such shares as he considers reasonable, having regard to the capital and services contributed by the partners and other relevant matters.

4.7 CALCULATING TAXABLE INCOME - TRUSTS

A trust is an equitable obligation binding on a person (who is called a trustee) to deal with property over which he has control (which is called the trust property), for the benefit of persons (who are called the beneficiaries) of whom he may himself be one, and any one of whom may enforce the obligation.

It is not necessary that a trust be in writing, as a valid trust can be created by an oral agreement, or by the conduct of the parties concerned. However, it is desirable to evidence a trust in writing by a Deed of Trust, or inclusion in a will, or by some other trust instrument.

Trusts are commonly used as a means to hold family assets until children reach an appropriate age. They can have advantages in estate planning, and have some income tax effect.

4.7.1 Classification of Trusts

The Income Tax Act distinguishes between three types of trust:

Qualifying Trust

This category covers most New Zealand based trusts.

Foreign Trusts

Generally trusts settled by a non resident.

Non-Qualifying Trusts

All other trusts - generally those with an off-shore trustee.

Special rules apply to foreign trusts and non-qualifying trusts. These are not dealt with in this Manual.

4.7.2 Liability for Income Tax (Qualifying Trusts)

A trust is a separate legal entity, and as such all the income of a trust is liable for income tax in the hands of the trustee, either as *Trustees Income* or as *Beneficiary Income* where the trustee acts as the agent of the beneficiary (although the primary liability remains with the beneficiary).

Beneficiary Income is:

- Where a beneficiary of any trust becomes entitled to income under a specific provision of the trust deed or by the discretionary act of the trustee; or
- Where the trustee pays or credits income to, or on behalf of the beneficiary of a trust, during or within six months after the income year by a genuine transaction which places the income beyond the possession and control of the trustee in his/her capacity as trustee of that trust.

Trustee Income is any income that is not distributed as Beneficiaries' Income.

In the case of *Beneficiary Income*, the taxation liability is determined by calculating the tax liability of the beneficiary as an individual. If the beneficiary derives additional income, a personal return of income should be filed incorporating his/her trust income and the tax already paid by the trustee on his/her behalf.

Trustee Income is any income which is not distributed as *Beneficiary Income* and is taxed at 33%.

Provisional tax will normally be paid on the income of a trust. The return of income for the trust (IR6) will be filed by the trustee(s). Trust income is taxed once only so that a distribution to a beneficiary is not taxed if the trustee has paid tax on the income previously.

4.7.3 Income Distributed to Minor Beneficiaries

Trust distributions of more than \$1,000 to New Zealand resident minor beneficiaries are taxed at the trustee income tax rate of 33%. Only distributions from trusts settled by a relative or guardian of a minor, or an associated person of a relative or a guardian, will be subject to this rule.

Such distributions will not be gross income of the minor beneficiary. For the purposes of this rule a minor is a person who is under the age of 16 on the balance date of the trust.

Specific types of trust will be exempt from this rule:

- Beneficiary income derived from a trust where all settlements on the trust are sourced from a person who is neither a relative or legal guardian of the minor nor a person associated with the relative or legal guardian.
- Beneficiary income derived from a trust where all settlements on the trust are made by a will, codicil, intestacy or court variation of a will, codicil or intestacy.
- Beneficiary income derived from a trust which has more than one settlement including dispositions of property for less than market value by a relative, legal guardian or associate.
- Beneficiary income derived by a minor in receipt of a child disability allowance.
- Beneficiary income derived directly by a minor from a group investment fund.
- Beneficiary income derived by a minor from a Maori Authority.

Distribution to minor beneficiaries under the above exemptions and distributions to adult beneficiaries are taxed at tax rates applicable to the beneficiary, eg. 19.5%, 33%, 39%.

4.8 CALCULATING TAXABLE INCOME - FARMERS

4.8.1 Farm Income

The assessable income of a farmer will include the following:

- Business profits from trading operations (includes soil cultivation, cropping or animal husbandry, growing plants, shrubs or flowers, growing fruit or grapes, beekeeping, poultry farming, share milking, running an orchard and forestry), calculated as sales *less* purchases and other business expenses *plus or minus* changes in value of stock on hand at the end of the year. (For valuation of stock, see *Section 4.8.6*).
- The value of meat and produce consumed domestically. (Usually nominal value if grown/raised on the farm.)
- Income received from any contracting work.
- Rents received from leasing farm property, including grazing fees.
- Receipts from the hire of livestock and plant, including stud fees.
- Insurance proceeds in respect of the loss of crops or stock.
- Prize money from A & P shows, less entrance fees and other related expenses.
- Compensation for stock condemned and hail damage.
- Refunds from the Income Equalisation scheme, including interest.
- Income from the sale of timber, including standing timber and trees planted for agricultural purposes. See *Section 4.8.7*.
- Income from dealings on the futures market, e.g. wool futures.
- Other items including any other categories of income generated by the farm business and income from any off-farm activities or investments.

4.8.2 Farm Expenses

Private expenses in the nature of household stores, domestic wages, repairs to household equipment, etc. are to be treated as private drawings, and must not be charged against farm income. Similarly, the private portion of expenses on the dwelling and car, should also be regarded as drawings.

In addition to the appropriate business expenses, farm expenses will include the following:

- Aircraft expenses (running costs and depreciation) in respect of the use of an aircraft used for farming purposes adjusted for an apportionment between business and private use
- Accident compensation levies
- Accommodation supplied to employees. A deduction may be claimed for accommodation supplied to all employees except partner-managers and all expenses (e.g. mortgage interest, repairs, maintenance etc) are deductible in full. The value of board and lodging supplied to an employee is treated as assessable

income and subject to PAYE deduction. Where accommodation is supplied to a partner-manager, the partnership can claim 25% of the costs of the dwelling.

- Compensation for sheep worrying damage caused by farm working dogs
- Dairy Farming Expenditure:
 - the cost of replacing a single component of milking plant (eg. a pump or the pulsator units) is generally deductible;
 - some components of a milking plant will, however, be non-deductible capital items because they are unlikely to be replaced other than as part of an upgrade (eg. Stainless steel pipe work and milk filters);
 - where a number of milking plant components are upgraded at the same time, the cost is usually on capital account and not deductible;
 - the cost of replacing a rotary platform system in a rotary milking operation is a non-deductible capital expense;
 - the cost of replacing either the platform, the motor or the drive mechanism of the rotary platform is a non-deductible capital expense;
 - the piping used in a dairy shed complex is not a fence for the purposes of s. DO 1 or s. DO 4;
 - the cost of replacing a damaged pipe-work gate leading to or from the dairy shed or yard is deductible; and
 - the cost of replacing overhead power lines to the dairy shed with an underground system of power is a capital expense and not deductible.
 - The cost of replacing the electric motor in a rotary platform is deductible.
- Depreciation on farm assets, plant and equipment and depreciable land improvements and intangible assets. (see *Sections 4.8.3 and 4.8.4*)
- Electricity. A deduction is allowed for all electricity costs attributable to running the farming business. A deduction of 25% of the cost of electricity consumed by the farming household is also permitted.
- Farm fertiliser. A deduction is allowed for expenditure on fertiliser and lime, including spreading and the deduction may be claimed either in the year the expenditure is incurred or in any of the following four income years.
- Farm consumables. A deduction may be claimed for farm consumables such as hay, stock feed, twine, dip and drenches provided that the value of consumables falls within the accrual expenditure exemptions in Determination E10. (see Appendix, *Section 4.15.6*)
- Farm dwelling expenditure. A deduction is allowed for 25% of farm dwelling expenditure such as repairs and maintenance, depreciation etc. The Commissioner has stated there is no requirement for full-time farmers to apportion interest payable on a mortgage secured over a farm between amounts applicable to the dwelling and the farm business. (IRD Technical Rulings para 51.5.1) It would

- appear that the Commissioner considers the farm dwelling to be a necessary part of carrying on a farm business.
- Income spreading schemes. Taxable income may be altered by shifting deductions for certain expenditures (such as fertiliser application) to future income years. Farm income may also be shifted to subsequent income years under the Income Equalisation Scheme – see *Section 4.8.5*
 - Insurance premiums paid for insurance cover over farm assets and livestock.
 - Interest. The Commissioner has stated there is no requirement for full-time farmers to apportion interest payable on a mortgage secured on a farm between amounts applicable to the dwelling and the farming business.
 - Land Development expenditure (see *Section 4.8.3*)
 - Legal expenses incurred in raising a mortgage to buy a farm property or farm assets or in borrowing money for farm purposes.
 - Legal expenses incurred in entering into or renewing a lease of farm property or farm assets and in the preparation of share milking agreements.
 - Motor vehicle expenses including depreciation applicable to farm business use. The proportion of deductible motor vehicle expenses is based on the ratio of business use to total use. The ratio is established from details recorded in a logbook over a representative 90 day period, and applies for a maximum period of 3 years. A new ratio must be established if business usage declines by 20% or more so that the established ratio no longer fairly represents business usage. Where insufficient records are kept, the maximum deduction allowable for business use is limited to 25% of motor vehicle expenses.
 - Pest Destruction Board contributions.
 - Prepaid expenditure. Expenditure must be claimed as a deduction in the income year to which the expenditure relates. However for practical purposes, smaller items of pre-paid expenditure can be claimed as a deduction in the current income year if the type of expense and the amount comply with Determination E10 –See Appendix, *Section 4.15.6*. For example, rent paid in advance which is less than \$23,000 and which relates to a period less than six months after balance date can be deducted in the current income year. Rent for a higher amount, or paid for in advance over more than six months, must be carried forward and deducted in the following income year, being the year to which it relates.
 - Protective clothing, e.g. wet weather gear, spray masks etc.
 - Rates including the proportion attributable to the farm dwelling.

- Repairs and maintenance excluding capital improvements.
- Stores and rations provided to employees:
 - ◇ Supplied to an outside employee (including a partner with less than 20% interest): the farmer can claim the actual cost of additional stores and rations purchased if accurate records are kept. Otherwise the deduction is limited to \$10 per employee per week. This applies where these costs have not already been claimed as a tax deductible farm expense.
 - ◇ Supplied to related married employees or part proprietor employees: the actual cost of stores and rations supplied is tax deductible.
- Subscriptions and levies. A deduction is allowed for the cost of papers and magazines containing farming information.
- Wages paid to spouse.

Payments for cooking duties in respect of permanent employees (including adult members of the farmer's family employed full-time) will be allowed as a deduction on the basis of:

One permanent employee	- \$18 per week
Two permanent employees	- \$27 per week
Three permanent employees	- \$33 per week

and thereafter an additional \$4.50 per employee per week.

It is necessary that the requirements for the payment of wages between husband and wife are met, that is, declaration that the wages are genuine services, IR330 completed, regular cash payments, tax and Accident Compensation levy deducted and accounted for. The following should be noted:

- ◇ Payments for work performed on, or on behalf of, the farm may be deductible if the Commissioner of Inland Revenue has given prior consent to such payments. Before consent is granted, the Commissioner must be satisfied that the payment is for genuine services rendered in producing assessable income for the year.
- ◇ An application for approval must contain certain details (the Inland Revenue Department provides appropriate declaration forms), but subsequent to approval, only written confirmation that wages are still being paid on the agreed basis is required. The declaration should be filed before the employment commences.

This payment is in addition to any special arrangements made in respect of seasonal or part-time employees, e.g. shearers.

For a business registered for GST purposes, GST paid on items purchased is not a tax-deductible expense, since it can be recovered as a GST input. However, if the taxpayer is

not registered for GST purposes, then GST forms part of cost and is tax deductible if the item to which it relates is deductible.

4.8.3 Deductions for Land Improvement Expenditure (Development Expenditure)

Expenditure on land improvements would normally be regarded as the improvement of a capital asset and under usual principles be regarded as non-deductible capital expenditure. However as a specific concession, a small number of land improvement expenditures are deductible as development expenditure.

The following expenditures are deductible in full in the income year they are incurred.

- The destruction of weeds, plants, or animal pests detrimental to land
- The clearing, destruction, and removal of scrubs, stumps and undergrowth
- The repair of flood and erosion damage
- The planting and maintaining of trees for the purpose of preventing or combating erosion
- The planting and maintaining of trees for the purposes of providing shelter
- The construction on the land of fences for agricultural purposes, including the purchase of wire or wire netting for the purpose of making new or existing fences rabbit proof
- The regressing and fertilisation of all types of pasture provided that the expenditure is not incurred in the course of a change in the nature or character of the farming being undertaken on the land

A lessor of land used for farming or agricultural purposes may claim the above deductions.

Other expenditures on land improvements must be capitalised as an asset and depreciated at the rates set out in *Section 4.15.3 Expenditure on Land and Aquaculture Improvements*. Such expenditures qualify for the 20% loading.

A deduction is allowed for tree planting and maintenance if the principal activity undertaken on the land is a farming or agricultural business.

Purchase of Land

Where land is purchased, any development expenditure incurred by the previous owner can continue to be depreciated.

Development Expenditure Example

In the year ended 30 June 2010, a farmer incurs the following expenditure:

New fencing	\$3,000
Irrigation pump	\$5,000
Shelter tree planting	\$1,000

The amounts deductible are:

Deductible in full - New Fencing	\$3,000
----------------------------------	---------

Shelter Structures -	
‘Depreciation’ deduction 13% of \$5000	\$650
<i>Diminished value for next year's calculation = \$4350 (\$5000 - \$650)</i>	
Shelter Tree Planting -	
Deductible in full	\$1,000

4.8.4 Depreciation

(See also *Section 4.8.3* for Depreciation on Land Improvements).

Depreciation is an allowance for loss in value of a fixed asset due to fair wear and tear, obsolescence, etc. which is allowed as a tax deduction. Not all assets are depreciable, for example, assets which are not used to produce assessable income, or assets which are not subject to wear and tear (such as land). Where an asset has a part business and part private use, depreciation is calculated at the schedule rate and then apportioned between business and private use (e.g. car depreciation).

Depreciation is calculated on the net price of the asset which generally would exclude GST if the taxpayer is registered for GST purposes. For a non-registered taxpayer, depreciation is calculated on the GST inclusive cost.

Depreciation is based on the effective working life of the assets concerned, giving rise to the concept of economic rates. Depreciation rates can include a loading that is the economic rate multiplied by 1.20.

The taxpayer has a choice of 3 methods of depreciation: diminishing value method, straight-line method, and the pool method.

Diminishing value (DV) method is a constant percentage of adjusted tax value. The rates applicable to each asset are set by the IRD although a taxpayer may apply for a special rate. Selected examples of the economic rates are set out in *Section 4.15.8*.

Straight line (SL) method is a constant percentage of cost price. The rates are set by the IRD although special rates may be approved. Selected examples are set out in *Section 4.15.8*.

Pool method allows the grouping of low value assets, with depreciation being charged on the total of the pool. Buildings cannot be pooled. To pool property, the following criteria must be satisfied:

- (i) The maximum cost or depreciated book-value of any one asset is less than \$2,000.
- (ii) Taxpayers can use more than one pool. This is important because the lowest rate applying to any asset in a pool must be used.
- (iii) The assets must be used 100% for business purposes or be subject to FBT if their business use is less than 100%.

There is no restriction on the number of assets in a pool. Depreciation is calculated using the diminishing value method on the average value of the pool. The rate of depreciation is the lowest rate applying to any asset in the pool.

Example:

Value of pool at year start	\$18,000
Asset purchased during year	<u>6,000</u>
Value at end of year	<u>\$24,000</u>
Average value of pool	= $(\$18,000 + \$24,000) \div 2$ = \$21,000
Depreciation at (say) 22% DV	= \$21,000 x 22% = \$4,620
Pool value at end of year	= \$24,000 - \$4,620 = <u>\$19,380</u>

Changing Between Methods

Taxpayers can change the method(s) used for depreciation on a year to year basis, except when the asset is included in a pool. The carrying value for subsequent depreciation calculations is the current adjusted tax value. Charts exist to convert diminishing value rates to/from straight line rates. The Schedule of economic rates (*Section 4.15.8*) shows rates for both methods of depreciation.

Adjustments

Assets other than pool assets acquired during the year may be depreciated (DV or SL) for the number of months owned.

Additions to an existing pool are taken into account when the average value of the pool is calculated.

Disposal of assets other than pool assets - Assets other than buildings may not be depreciated in the year of disposal. Buildings may be depreciated for the number of months used in the year of disposal. A loss on sale is tax deductible except for buildings. A deduction is allowed for losses resulting from a building being destroyed or rendered useless as a result of events outside the taxpayers control, such as natural disasters. A gain on sale in excess of the depreciated book value is assessable but any excess over original cost price is a capital gain and is not taxable.

Disposal of pool assets - The sale price must be deducted from the adjusted tax value of the pool before depreciation is calculated. No adjustment should be made if the pool asset is dumped or lost. If the resultant pool value is negative, that amount must be treated as depreciation recovered i.e. assessable income. The pool value becomes zero and no depreciation is charged until new assets are added to that pool.

Private use of non-pool assets - Depreciation must be apportioned between personal (non-deductible) expenditure and business (deductible) expenditure using an appropriate measurement base. For vehicles the same apportionment as for running costs must be used i.e. factual apportionment when complete records are kept, or based upon a test period of 3 months (subject to review every 3 years).

Private use of pool assets - Depreciation on pool assets cannot be apportioned - by definition, pool assets must have 100% business use. If the usage of a pool asset is not totally business related, it must be removed from the pool (deemed sale at market value) and then depreciated separately. Depreciation can then be apportioned between business and personal.

Special Rules

Computer Software - Expenditures must be capitalised and depreciated at 50% DV or 40% SL. Software costing less than \$500 may be immediately expensed. Costs of upgrades follow the same rules. Maintenance costs may be expensed.

Loose tools are consumable items of the type that are left on the shelf or in a chest when not in use. Loose tools should be treated as any other asset i.e. separately depreciated, pooled, or treated as a low value asset.

Low value assets costing \$500 or less may be claimed as a deduction (subject to some rules). If such property is subsequently sold, the entire sales proceeds are assessable.

Assets which are scrapped may be totally written off. The disposal costs must exceed the expected sale proceeds for such assets. If a scrapped asset is later sold, the proceeds are assessable up to original cost.

Transfers of depreciable property between associates. In general terms, the base value of an asset purchased from an associate is the lower of the original price paid by the seller or the price paid by the buyer. In addition the purchaser cannot claim a higher rate of depreciation than that used by the seller.

New assets and imported second-hand assets excluding imported used cars, buildings, intangible assets and software, may be depreciated at the economic rate plus a 20% loading. Second-hand property, imported used cars and buildings are depreciated at the appropriate economic rate, without the 20% loading.

Plant variety rights. Plant variety rights and the right to use them are included as intangible property and subject to an annual depreciation deduction. Plant variety rights are granted for terms of 20 or 23 years depending on the plant material. For depreciation purposes, the legal life of a plant variety right is the total of its legal duration under the contract or statute which creates it and the number of months during which the person owned the plant variety rights application.

Assets Acquired During the Income Year

Depreciation is calculated on a monthly basis. Annual depreciation deductions are based on the number of months or part months as asset is owned.

Assets Sold During the Income Year

When a depreciable asset is sold, the total depreciation already allowed is adjusted so that the amount equals the actual decline in value from original cost to the disposal value.

The amount of the adjustment is calculated by comparing the net sales proceeds (after deducting the costs of sale) with the book value of the asset.

If net sales proceeds are less than book value i.e. a loss on sale occurs, the loss is deductible in the year of sale. Losses on sale of buildings are not tax deductible. However, a deduction is allowed for losses resulting from a building being destroyed or rendered useless as a result of events outside a taxpayers control such as natural disasters.

If net sales proceeds exceed tax depreciated book value, a gain on sale occurs. The gain is assessable in the year of sale. Any excess above the original cost price represents a capital gain which is not taxable. If net sales proceeds do not exceed tax depreciated book value i.e. a loss on sale occurs, the loss is deductible in the year of sale.

Summary of Depreciation Methods

<i>Date of acquisition</i>	<i>Rates</i>
1 April 2005 and 2005/06 onwards	New economic rates plus 20% uplift for new assets (not including buildings, used imported motorcars, fixed life intangible property, excluded depreciable property or international aircraft)
1995/96 to 2004/05 income year	1993-2005 economic rates plus 20% new asset uplift (where applicable)
1 April 1993 to 1994/95 income year	Old schedule rates plus 25% uplift (where applicable) or 1993-2005 economic rates (without new asset uplift)
16 December 1991 to 31 March 1993	Old schedule rates plus 25% uplift (where applicable)
15 December 1991 and earlier	Old schedule rates

4.8.5 Income Equalisation Schemes

There are three income equalisation schemes.

Ordinary Income Equalisation Scheme

This scheme allows a farmer to level out income from year to year by permitting a reduction in assessable income by the amounts deposited with the Inland Revenue Department. These deposits are retained in the Income Equalisation Reserve Account in the farmer's name. When amounts are withdrawn at a later date, they become assessable income.

Those taxpayers eligible to take advantage of the ordinary income equalisation scheme are:

- a taxpayer engaged in any farming or agricultural business.
- a taxpayer engaged in any business of fishing including rock oyster, mussel and freshwater fish farming.

- an individual taxpayer (not a company, public authority, or unincorporated body) who derives assessable income from forestry i.e. from the sale of standing, cut or fallen timber in its natural state grown on land owned by the taxpayer in New Zealand or the rights to cut or remove such timber.

Deposits

Assessable income is reduced by the amount deposited during a year. Deposits may, however, be used to reduce the income of the immediately preceding year upon the taxpayer's written election, provided the deposit is made within the shorter of:

- six months after balance date; or
- one month after the due date for filing the return of income.

Deposits and refunds made outside the specified period will be accepted if made by the required date being one month from the date of filing the return of income for that accounting year.

The maximum amount of deposits in any one year is the assessable farm income for that year, and each deposit must be a minimum of \$200 (except the last deposit to make up the maximum).

The minimum period of deposit is one year (able to be relaxed under certain circumstances) and the maximum period for any one deposit is five years.

Generally no deposit can be made in a year when the farmer voluntarily withdraws funds from the Income Equalisation Reserve Account.

3% interest is paid on deposits held (except those withdrawn within one year), and credited to the appropriate deposit.

Withdrawals

Compulsory refunds are made if a deposit reaches the maximum term of five years.

Voluntary refunds (withdrawals) can be made at any time but must be made from funds deposited for a minimum period of 12 months, subject to the following exceptions:

- (a) If deposited for six months or more, funds may be withdrawn:
 - ◇ For immediate expenditure on planned development or maintenance work;
 - ◇ To purchase livestock;
 - ◇ To avoid hardship.
- (b) If deposited for less than six months, funds may be withdrawn:
 - ◇ For immediate expenditure on unplanned development or repair work resulting from an adverse event;
 - ◇ To purchase replacement livestock due to an adverse event;
 - ◇ To avoid hardship.

All refunds become assessable income in the income year when the application is made, or the immediately preceding year on the same conditions as for deposits.

A refund will not attract more tax than the deposit saved.

Refunds are made from the oldest deposits first.

Forestry Income Equalisation Scheme

There is a limited income equalisation scheme for a forestry company earning income from thinning operations. Thinning operations means the felling of trees in an immature stand to improve the growth and form of the trees remaining in the stand.

The minimum refund is \$200 unless the account balance is smaller; the maximum is the account balance.

There is no maximum time for which deposits by a forestry company may remain in the income equalisation account.

Special rules apply where the refund is due to the retirement, death, or bankruptcy of the farmer.

Adverse Event Income Equalisation Scheme

This scheme allows taxpayers engaged in any farming or agricultural business, to deposit income that arises from the sale of livestock, or failure to replace livestock, due to a self-assessed adverse event.

Deposits may be made during the year or backdated if made within one month after the end of the financial year. Interest at 6.5% p.a. is payable on deposits.

Refunds add to assessable income in the year application is made. Deposits remaining in the Adverse Events Income Equalisation Scheme one year after the event are transferred to the Main Income Equalisation Scheme.

4.8.6 Valuation of Trading Stock

General Principles

The value of the trading stock of any business at the beginning and at the end of every income year must be included in calculating taxable income. The value of trading stock on hand at the end of the year is included in assessable income; the value on hand at the beginning of the year is deducted from assessable income.

In general, the taxpayer has the option of valuing trading stock at cost price, market selling value, or replacement price. In practice, the lowest possible value is generally the most advantageous for taxation. Livestock is valued according to special rules (see below).

Consumable Aids

Items consumed in the production of trading stock, but which do not form part of the final product, are regarded as consumable aids and not as trading stock. Therefore,

expenditure on items such as fuel, fencing materials, ear-tags, farm chemicals, fertiliser held for spreading and hay held for winter use may be fully deductible in the year the expenditure is incurred. Expenditure on unconsumed consumable aids on hand at balance date will still be deductible if their total value does not exceed \$58,000 in accordance with Determination E10.

However, if the value of all unused consumables on hand at balance date exceeds \$58,000, then the original expenditure cannot be treated as a lump sum expense, but must be spread over the period(s) when they are actually used. Refer to *Section 4.15.6*, Accrual Rules for Expenditure.

Growing Crops, Fruit and Vegetables

Crops, fruit and vegetables and other products which grow from the land and are attached to the land are regarded as part of the land itself, i.e. a capital asset. Growing crops are not regarded as trading stock unless and until they are harvested or severed from the land. Fruit growers can deduct the costs of purchasing and planting. (Refer to *Section 4.9* for provisions regarding purchase and planting of horticultural plants).

Valuation of Livestock (Refer also to Sections 4.15.4 and 4.15.5.)

Farmers who farm sheep, beef cattle, dairy cattle, deer, goats or pigs (referred to for tax purposes as specified livestock), are required to value their livestock for taxation purposes using the valuation methods prescribed by the Income Tax Act. The available methods are:

- The herd scheme
- The market value or replacement price option
- The national standard cost scheme
- The self-assessed cost scheme

For non-specified livestock (such as horses, rabbits, dogs, or ostriches) other than bloodstock, the valuation options are:

- Cost price
- Market value
- Replacement price
- Standard value as agreed by IRD

Standard value is a fixed value which stays the same for each category of stock from year to year and differs from the national standard cost scheme for specified livestock

In addition, the High Priced Livestock Scheme must be used where relevant livestock qualify.

Herd Scheme

The herd scheme valuation method values each type of livestock on the basis of age classes at National Average Market Values (NAMV) set annually. In each income year, herd livestock on hand at both opening and closing balance dates are valued at the

NAMV set for that income year. This effectively removes any gross income arising from the movement of livestock values between years.

The philosophy underlying the herd scheme is that the herd is a capital asset, and movements in herd values should be treated as a non-assessable gain or loss to the farmer. Changes in herd numbers or the composition of the herd will affect taxable income.

All classes of livestock are eligible for the herd scheme. The farmer can select:

- (i) the classes of livestock, and
- (ii) the number of animals within each class, which are to be valued under the herd scheme.
- (iii) dairy and beef cattle have been separated into two livestock types.

The remaining animals in each class must be valued under one of the alternative options.

Once the herd scheme has been adopted, any increase in a class of livestock over a 'base number' may be valued using an alternative valuation option. The base number is the closing herd number for that class in the preceding year. This is a voluntary option entirely at the discretion of the farmer. While the alternative valuation option does increase the flexibility of the herd scheme, it also requires an increase in record keeping as some form of inventory system must be kept.

Subject to a supporting valuation, herd values for any farmer may be set at 90%, 100%, 110%, 120%, or 130% of the National Average Market Value. Prior modification of an intention to change is required. Any income or loss arising from a change of herd value percentage will be assessable or deductible in the year of change.

National Average Market Values (NAMVs) are published annually by the Tax Department. NAMVs for the current income year are usually announced in April/May and published in the Tax Information Bulletin and can be accessed on the IRD's website. Refer to *Section 4.15.4* for recent national average market values.

Movement to/from the Herd Scheme

Any number of livestock in any age class may be moved to the herd scheme in any year without notice. This includes first adoption of the herd scheme and/or the progressive movement of stock classes or numbers to the herd scheme from another option.

Market Value or Replacement Price

Market value is the estimated selling price of the livestock, whereas replacement price is the cost of buying an animal of the same size, age, and breed. Market and replacement values must be supported by a valuation from a recognized livestock agent.

Market value/replacement price can be used as an alternative when using either of the cost options. However the market value and replacement price options are unlikely to be used unless these values fall below cost.

Cost

National Standard Cost

The National Standard Cost (NSC) option is a simplified way of calculating the cost of livestock produced on a farm (home bred). It is based on national average costs of production rather than on market values. A farmer will apply NSC to homebred stock while purchased stock will be valued at purchase price.

NSCs for the current income year are announced approximately in January and published in the Tax Information Bulletin and can be accessed on the IRD's website (www.ird.govt.nz).

Cost per head is accumulated until the animal reaches maturity (1 year for pigs, 3 years for male cattle, 2 years for all other livestock). The aggregated cost will be held at that level within an inventory system (such as average cost) until the livestock is disposed of.

National average costs will be announced annually by the Tax Department as:

- breeding, rearing and growing (BRG) costs of rising 1 year livestock of each type;
- rearing and growing (RG) costs for rising 2 year livestock of each type except pigs;
- rearing and growing costs for 3 year male cattle.

The average cost of livestock purchased must also be included in order to determine the final cost per head. Thus, average cost will be specific to each farmer.

Only one cost option may be operated at any one time.

Example calculations (indicative costs only).

Example 1 Homebred sheep

Year 1:	BRG costs from IRD	\$13.00 per head
	Value per head = \$13	
Year 2:	R1 year value	\$13.00 per head
	RG ₂ costs from IRD	\$ 8.00 per head
	Value per head = \$21	

Example 2 Rising 1 year stock

No of lambs bred	1000
No of lambs purchased	400
Average purchase price	\$25 per head
BRG costs from IRD	\$13 per head

Calculation:

Homebred lambs	1000 @ \$13	\$13,000
Purchased lambs	<u>400 @ \$25</u>	<u>10,000</u>
	<u>1400</u>	<u>\$23,000</u>

$$\begin{aligned}\text{Average cost of lambs} &= \$23,000 \div 1400 \\ &= \$16.43 \text{ per head}\end{aligned}$$

Note: BRG costs relate to homebred stock only.

No rearing and growing costs are assigned to purchased stock in the year of purchase. Cost per head is an average over all stock of that class.

Example 3 Rising 2 year stock

NB: The year following example 2.

No of hoggets at start of year	400
Cost of hoggets at start of year	\$16.43
Sheep purchased (not R1 class)	200 @ \$30 each
RG ₂ costs from IRD	\$8 per head

Calculation:

Hoggets at start of year	400 x \$16.43	\$ 6 572
Rearing and growing costs	400 x \$8	3 200
Purchases	<u>200 x \$30</u>	<u>6 000</u>
	<u>600</u>	<u>\$15 772</u>

$$\begin{aligned}\text{Average cost of mature sheep} &= \$15 772 \div 600 \\ &= \$26.29 \text{ per head}\end{aligned}$$

Note: No rearing and growing costs are assigned to purchased stock in the year of purchase.

The year-end cost of opening stock can also be calculated as

$$\begin{aligned}\text{Opening stock numbers} \times (\text{Year 1 cost} + \text{RG}_2) \\ \text{i.e. } 400 \times (\$16.43 + \$8)\end{aligned}$$

The closing cost (\$26.29 in this example) is held constant until the livestock concerned are either sold or die, or until the valuation method is changed. Depreciation is NOT charged on this stock.

An inventory system is necessary in order to account for **mature** animals. It is suggested that an average cost inventory system would be appropriate for a livestock farmer. This method recalculates average cost annually. FIFO (first in, first out) could also be used.

Example 4 Average cost of mature sheep

Number on hand-start	2000
Intake of mature sheep	700
Sales and deaths of mature sheep	600
Number on hand - end	2100

Last year's average cost (say)	\$25.00 per head
This year's average cost	\$26.29 per head

Calculation:

Cost of sheep surviving from last year:

(Start nos. - sales and deaths) x last year's cost

$$(2000 - 600) \times \$25 = \$35,000$$

Cost of this year's intake:

$$700 \times \$26.29$$

$$\underline{18,403}$$

$$\underline{\underline{\$53,403}}$$

$$\text{Average cost per head} = \$53,403 \div 2100 = \$25.43 \text{ per head}$$

Note: The actual formulae are more complex than these examples show. Farmers should seek professional advice.

Section 4.15.4 details the published National Standard Costs over recent years.

Section 4.15.5 provides example calculations for the herd scheme and the National Standard Cost scheme.

Self Assessed Cost

The self-assessed cost (SAC) option is based on farmers assessing their own costs according to guidelines issued by IRD. The NSC scheme uses a farmers own costs of production. The self-assessed cost guidelines use livestock units (a well accepted unit based on feed intake) to apportion farm costs between livestock types. The apportioned costs are accumulated to determine the cost of livestock production for the year.

Virtually the same rules that apply to NSC also apply to SAC:

- it is an optional scheme.
- can be used with other schemes except NSC.
- an inventory control system is required for mature stock groups.

Taxpayers cannot use the self-assessed cost and the NSC schemes in the same income year and any change from one scheme to the other requires two years notice.

Self assessed cost cannot be used for stock currently in the herd scheme.

Farmers considering the Self Assessed Cost scheme should seek professional advice.

Elections and notices

The various election and notice requirements for specified livestock valuation are detailed in s EL 2. Most elections relate to changes between various valuation alternatives. In some cases, elections can be made by using the chosen method of

livestock valuation in the relevant tax return. Otherwise, a same-year written notice or a two-year written notice is required. The notice requirements are as follows:

<i>Movement from:</i>	<i>Movement to:</i>				
	<i>National standard cost</i>	<i>HS</i>	<i>HVR</i>	<i>Self-assessed cost</i>	<i>MV/RP</i>
National standard cost	N/A	same-year	two-year	two-year	not required
HS	two-year	N/A	two-year	two-year	two-year
HVR	two-year	Not allowed	N/A	two-year	two-year
Self-assessed cost	two-year	same-year	two-year	N/A	not required
MV/RP	not required	same-year	two-year	not required	N/A

A taxpayer cannot use both the national standard cost and self-assessed cost in the same year.

High-Priced Livestock

High priced livestock are in a separate class for valuation purposes. ‘High priced’ means that the purchase price is at least \$500, at the time of purchase it was capable of being used for breeding, and the purchase price exceeds by 5 times the higher of the previous year's or the current year's declared National Average Market Value for that class of livestock. The scheme applies to purchased stock only.

High priced livestock are valued at cost less a write down for ‘depreciation’. Depreciation may be calculated using the straight line method or the diminishing value method. The rate depends on the type of animal, as follows:

Livestock Category	Straight Line Rate (%)	Diminishing Value Rate (%)
Sheep	25	33
Cattle	20	26
Stags	20	26
Other deer	15	22
Goats	20	26
Pigs	33	40

An election to adopt the diminishing value method of depreciation is irrevocable.

There are restrictions on the closing value for the first income year. Where the livestock is owned for less than six months and is not used for breeding purposes, or is less than one year old at balance date, the closing value must be cost price (i.e. is not depreciated). Once high-priced animals have been depreciated to the NAMV for that class, they will be included in the other valuation schemes operated by the farmer i.e. transferred out of the High Priced Livestock scheme.

Livestock taxation examples are illustrated in *Section 4.15.5*.

Bloodstock

For tax purposes, bloodstock is defined to mean any horse that is a member of the standard bred or thoroughbred breed of horses. All bloodstock is to be valued at cost price. Stud stallions may be written down to \$1 over a period of five years, while brood mares may be written down to \$1 over a period of between three and 14 years depending upon the age when first used for breeding purposes. However, if the true market value of bloodstock is less than 50% of normal market value because of infertility, birth deformity or accident, then the true market value may be used. Costs of breeding and rearing are to be capitalised until the animal is used for breeding. The write-down provisions outlined above commence in the income year in which the horse was first used for breeding purposes.

The depreciation rate applicable to bloodstock used for horse-breeding is 25%. In addition, stallions may be depreciated on a straight line basis (at 20%) or a diminishing value basis (at 37.5%). An accelerated write-down regime for bloodstock was introduced with effect from 1 August 2006.

Broodmares

Post 1 August 2006

Broodmares not previously used for breeding in New Zealand are written down over a maximum of six years (if they start breeding at age two). Broodmares aged eight and over are written down in full in the year they are first used for breeding. In both cases, the write-down is accelerated by 25% pa.

Broodmares that previously have been used for breeding in New Zealand are written down over a maximum of seven years (if they start breeding at age two). Broodmares aged eight and over are written down in full in the year they are first used for breeding. Write-downs for broodmares that previously have been used for breeding in New Zealand are based on cost price.

Pre 1 August 2006

Broodmares are fully depreciated by the age of 11, or over a period of three years, whichever is longer. Broodmares depreciated before 1 April 2001 are written down to \$1 by the age of 14. In both cases, the write-down is accelerated by 25% pa if the broodmare has not previously been used for breeding purposes in New Zealand.

Stallions

Post 1 August 2006

Stallions not previously used for breeding in New Zealand have an annual straight-line write-down of 50% of the cost price, unless the owner chooses to value the stallion using the reducing value method at the rate of 75%. Stallions that previously have been used for breeding in New Zealand are written down at the rate of 20% pa based on cost price.

Pre 1 August 2006

If the stallion was not used for breeding purposes in New Zealand before 16 December 1991, and the stallion was not, at any time before it was acquired by the person, used for breeding purposes in New Zealand by any other person, the specified write-down is 25% of the cost price of the stallion. Alternatively, the person may elect to use 37.5% diminishing value. The election must be made with the person's tax return for the income year in which the stallion is first used by the person for breeding purposes.

In relation to any other stallion, the specified write-down is 20% of the cost price of the stallion. There is no equivalent diminishing value write-down in this situation.

GST and Bloodstock

The valuation of bloodstock is not affected by goods and services tax as regards cost price or market value. The cost price of bloodstock does not include input tax charged to the person at the time of supply. Nor is the tax included in the market value of bloodstock disposed of by the person.

Bloodstock of any age may be zero rated for export within 12 months of supply, provided departmental approval has been obtained. (The usual requirement is that goods must be exported within 28 days of supply.) Bloodstock owners must apply in writing to the Department enclosing a copy of the sale contract to gain the concession. From 1 April 2007, the period of time that bloodstock could remain in the country after the time of supply was extended to 24 months.

General principles

With regard to the taxation of horse-breeders who breed livestock for racing purposes, there are two basic principles. First racing stakes or prize money is exempt from tax and consequently no deduction is allowed for the costs of racing bloodstock, any associated racing expenditure or costs of preparing for racing

Stake money won from any horse or greyhound competing in any overseas race is exempt. The intention is that stake money won in an overseas race will be treated in the same way as stake money won in a race held in New Zealand.

The only exceptions to the non-deductibility of costs incurred in relation to racing activities are for the race preparation costs of professional bloodstock breeders who do not race that bloodstock and taxpayers who incur such expenditure in exchange for assessable income.

The second basic principle is that breeding activities carried on as a hobby are not taxed. It is only activities carried on as a business that the associated expenses will be deductible and the proceeds of sale from the progeny will be assessable.

Horses raced by a bloodstock breeder can be regarded as a hobby or can be treated as part of the business. Transfers from business to private use must be at market value. Once racing is regarded as a hobby, prize money received is exempt income.

Gains on sale or other disposal of breeding stock may be used to reduce the cost price of replacement bloodstock, if application is made within a specified period.

4.8.7 Farm Forestry and Timber Sales

The principles underlying the taxation of a forestry activity is that any profit or gain made from the extraction, removal or sale of timber or the right to timber is included in taxable income on a net profit basis.

The general principle is that a farmer who harvests a woodlot situated on his or her farm returns as gross income the amounts realized from timber sales with a corresponding deduction for the cost of timber. If the cost of timber is known, the calculation is straightforward. If the cost of timber is not known, the Commissioner's practice is that the net income for tax purposes is the difference between the value determined on a royalty basis of the timber at the time of purchase of the property and the value at the time of sale. The responsibility is on the farmer to establish the cost price of the timber.

Net income from the sale of timber or the right to take timber need not be returned in the income year the timber is sold. The taxpayer can elect to have the income apportioned to the year of sale and the three preceding income years by giving the Commissioner written notice of intention to use the spreading provisions.

Forestry Planting Expenses

A limited deduction is allowed in respect of expenditure incurred by farmers in planting or maintaining trees on the land.

Forestry and Land Development Costs

A depreciation deduction is allowed for forest land development expenditures listed in *Section 4.15.3*. Forest land development expenditures generally relate to the clearing and preparation of land for planting and the construction of access roads for use for more than 12 months. This type of expenditure is not deductible but must be capitalised and depreciated at applicable depreciation rates.

A 20% loading applies to the depreciation percentage rates.

Forestry Planting and Maintenance Expenditure

The following items are tax-deductible in the year the expenditure is incurred:

- Rent, rates, land tax, insurance premiums, administrative overheads, or other like expenses.
- Weed, pest or disease control after trees have been planted. (Excludes releasing.)
- Interest on money borrowed and used as capital for the purposes of the forestry business.
- Planting or maintaining trees on the land.

- Repairs and maintenance on plant and machinery used to develop land, or to plant or maintain trees.
- Repairs and maintenance on land improvements (not trees).
- Depreciation on plant and machinery used to develop land or to plant or maintain trees.
- Fertiliser.
- The construction to or on the land of access tracks that are constructed for a specific operational purpose and used for no longer than 12 months after construction.
- The cost of standing timber lost or destroyed.

4.8.8 Limitation of Tax Losses from Farming

There is no limitation regarding the offset of farming losses against other income.

4.8.9 Emissions Trading Scheme

The 2009 Emissions Trading Scheme provisions are likely to impact upon forestry farming.

4.9 CALCULATING TAXABLE INCOME - HORTICULTURE

The following provisions relate specifically to horticulture, but readers should also familiarise themselves with the farming provisions (*Section 4.8*).

Purchase of land, including conveyancing fees, is capital expenditure and is not deductible. However, legal fees incurred in arranging finance to purchase the land, or in arranging to lease the land, will be tax deductible.

Buildings are capital expenditure and are subject to depreciation allowances as for a farm (refer *Section 4.8.4*).

Expenditure on land improvements and development is subject to the same rules as for farming (refer *Sections 4.8.4* and *4.8.5*).

The income tax treatment of horticultural plants is as follows:

- horticultural plants will be classified either as “listed horticultural plants” or “non-listed horticultural plants” for tax purposes.
- the Commissioner of Inland Revenue will determine different amortisation rates for different plants to more accurately reflect a particular plants useful life (see *Section 4.15.11*).
- the Commissioner is required to take into account the estimated useful life of a plant when determining its amortisation rate.
- a deduction is allowed for expenditure on planting listed horticultural plants and non-listed horticultural plants.
- a deduction is allowed for replacement planting of listed horticultural plants.

The determination of listed horticultural plants, their estimated useful life and diminishing value amortisation rates is set out in *Section 4.15.11*.

An amortisation deduction is allowed for planting listed horticultural plants if the following criteria are met:

- the taxpayer carries on a farming or agricultural business (including a horticultural business) on land in New Zealand.
- the land is developed by planting listed horticultural plants on the land.
- the development of the land benefits the business.
- the taxpayer is entitled to a deduction for expenditure incurred in land developments.

A listed horticultural plant is defined as a horticultural plant, tree, vine, bush, cane or similar plant that is cultivated on land and is listed in the Commissioner's determination. The term does not include trees planted for the purposes of timber production, ornamental trees, or plants or vines planted for wine production.

The amount of the deduction for listed horticultural plants is the diminishing value amortisation rate as determined by the Commissioner, increased by the 20 per cent loading.

If a listed horticultural plant ceases to exist or be used for the purposes of deriving gross income and the taxpayer has not claimed a deduction for expenditure incurred in replacing the plant, a deduction is allowed for the diminished value of the plant at the time the plant ceased to exist.

A deduction is allowed for expenditure incurred in replacing a listed horticultural plant where the taxpayer plants, causes to be planted, re-grafts or causes to be re-grafted, a listed horticultural plant as a replacement plant and the taxpayer elects to claim a deduction for replacement planting.

The amount of the replacement planting deduction depends on whether a deduction has been allowed for replacement planting in the two immediately preceding income years.

Non-listed horticultural plants are horticultural plants, trees, vines, bushes, canes or similar plants that are not listed horticultural plants. A depreciation deduction can be claimed for non-listed horticultural plants under the development expenditure provisions (see *Section 4.15.3*).

Deductible Expenditure – Certain types of expenditure and allowances for depreciation are allowed as a deduction. The deductions may be claimed by persons engaged in the business of farming.

Recurring annual costs until production - where there is a period between establishment and the production of the first crop, the annual recurring expenses would be tax deductible when incurred notwithstanding that they are incurred to earn profits in future years. For example, an orchardist would be entitled to deduct expenditure on cultivation, pruning, spraying, rates, insurance, depreciation, etc. in the year the expenditure is incurred.

Hail Damage - Compensation payments received by orchardists for hail damage made to fill a gap in the profits are assessable income in the year received.

Bird Netting Used by Grape Growers – The cost of bird netting used by wine growers to protect ripening grapes from birds is deductible if the netting in question only lasts for one year and the cost of the netting is less than \$12,000. Otherwise it must be capitalized and depreciated at 25% SL or 33% DV.

Valuation of Hives – Ordinary commercial beekeeper hives are a capital asset and may be depreciated.

Growing crops of fruit, vegetables etc. are a capital asset and are only regarded as trading stock when they are harvested or severed from the ground. Unharvested potatoes may be valued as inventory provided the taxpayer consistently follows this practice.

Plant variety rights

Plant variety rights are defined to mean “proprietary rights granted for a plant variety under the *Plant Variety Rights Act 1987* or similar rights given similar protection under the laws of a country or territory other than New Zealand”.

Plant variety rights are included within the definition of intangible depreciable property and an annual deduction for depreciation is allowed to be claimed after the plant variety right is given provisional protection.

The “royalty” definition has also been amended to include a reference to plant variety rights.

Using Discounted Selling price to Value Nursery Stock

Nursery growers use an industry-wide category approach in applying the Discounted Selling Price (DSP) method to value their nursery stock. DSP is a low compliance cost method of valuing trading stock available to taxpayers with small turnover and some retailers. Most nursery growers should be eligible to use DSP.

Nursery plants are divided into seven categories. The DSP of mature plants in each category are calculated by multiplying the selling price of the plant by the DSP value. The DSP values have been determined by surveying taxpayers within the industry.

Type of Stock	DSP value
Bedding plants	58%
House plants and roses	55%
Liners/plugs	52%
Shrubs and perennials	48%
Trees	42%

Example
 A nursery has 500 mature rose plants on hand at balance date. The nursery sells their mature roses to a retailer for \$15 each. The value of that stock for trading purposes is \$4,125 (500 plants x \$15 x 55%).

Immature Plants

The DSP of immature plants is calculated by multiplying the DSP of a mature plant by a ratio of the whole years of completed growth to the number of whole years the plant takes to reach maturity. Whole years have been used in the ratio to minimize compliance costs. The fact that most nursery plants are propagated and sold within a 12-month cycle, and balance dates tend to be at times when stock at hand is at its lowest, should prevent significant numbers of plants being valued at nil for trading stock purposes despite the use of whole years in the calculation.

Example

Another nursery has 500 13-month-old flax plants and 300 25-month-old flax plants on hand at balance date. The flax plants take three years to mature and sell for \$10 each.

The value for the purposes of the trading stock rules of the 1-year-old plants would be \$800 (500 plants x \$10 x 48% x 1/3); and the 2-year plants would be \$960 (300 plants x \$10 x 48% x 2/3).

Over-mature plants

The value of plants past their prime, or whose value drops is calculated by multiplying their revised market value by the DSP value. The revised market value is the price at which the grower expects to sell a plant in that condition. The principle underlying this is that because the cost of scrapping plants is very low, the decision to retain over-mature stock must necessarily anticipate an economic return on the stock. Revising down the market value to the anticipated sale price of such stock is, however, appropriate.

On the other hand, plants that are scrapped are effectively no longer part of a grower's business and therefore they should not have any value as trading stock. The particular treatments proposed for different circumstances are illustrated in the following table.

Circumstance	Treatment
The market selling value drops for a particular stock item, or there is no demand for the item, and the stock is scrapped	Nil value
The market selling value drops for a particular stock item, or there is no demand but stock is not scrapped	DSP based on revised market value
Plant is damaged and left in a "bargain area"	DSP based on revised market value
Plant is irrecoverably damaged and is scrapped	Nil value
Plant is over-mature and is scrapped	Nil value
Plant is over-mature and is not scrapped	DSP based on revised market value

Example

A third nursery business has 400 mature but frost-damaged Kahikatea plants at the back of its nursery. Mature plants in prime condition are sold for \$30 each. The frost-damaged items are being offered for sale at \$20. The value of these plants for trading stock purposes is \$3,360 (400 plants x \$20 x 42%).

Questions***Will all growers eligible to use DSP have to use the industry standards?***

Nursery growers who prefer to calculate their own discounted selling prices will still be eligible to do so. They will need to keep records that justify their valuations.

How should large growers value their stock?

The DSP method is not available to all taxpayers. These taxpayers will have to value their stock at cost (using a cost valuation method) or at market selling value.

How will plants in the ground be valued?

Plants in the ground are part of the land in which they grow and are thus not trading stock. On the other hand, once they are lifted and ready for sale they become trading stock and any such plants on hand at balance date will be subject to the trading stock rules and will need to be valued.

Horticulturists qualify for the Income Equalisation Scheme (see *Section 4.8.5*).

4.10 CALCULATING TAXABLE INCOME - FISHING INDUSTRY

The following provisions relate specifically to the fishing industry but readers should also familiarise themselves with *Section 4.8* which includes information about farming generally.

In general ‘fish’ includes shellfish and crustaceans.

4.10.1 Fishing Quotas

Property rights in fishing quotas (individual transferable quotas or ITQs) came into existence in 1986 under the *Fisheries Act 1983*. The elements of ITQ are now distinguished as “quota shares”, the property right, and “annual catch entitlement”, or ACE, the catching right. Quota shares give the owner right to fish in perpetuity. They are also transferable, subject to certain limitations such as foreign ownership. The ACE is the percentage of total annual tonnage entitlement available for that species in a certain zone, according to the number of quota shares held. The ACE is often transferred between owners to create balanced packages of quota for each owner to fish against. The transfer price or resource rental paid (based on the tonnage of fish which can be caught) is a business expense and is therefore deductible.

The Inland Revenue Department views quota shares as capital assets so that, generally, payments made on the sale of quota shares are non-taxable to the seller and non-deductible to the purchaser. Profits from the sale of quota shares may be gross income of the seller where the seller is either in the business of dealing in them or if the quota shares have been acquired for the purpose of selling or otherwise disposing of them. In addition, quota shares cannot be depreciated for tax purposes.

A lump sum paid to the Crown to lease a quota (usually for a term of less than 12 months) and the resource rental payable under the lease are revenue payments and therefore deductible.

4.10.2 Income

When valuing a catch, the most practical method is the market value method. As the payout to the skipper and the crew is based on the proceeds of the catch, using the auction price of the day is the most equitable and simplest method.

4.10.3 Deductible Expenditure

The range of deductible expenditure is determined by the sort of business carried on by the aquaculturist. For improvements to an aquacultural business to be deductible, the business must be rock oyster farming, mussel farming, scallop farming, sea-cage salmon farming or freshwater farming. The acquisition of an aquaculture farming business entitles the purchaser to the same deductions for expenditure as those to which the vendor was entitled. As with growing crops, unharvested mussels, oysters, etc, do not have a value for closing stock purposes. Once harvested, any produce on hand at balance date

would usually be valued on a market value basis. The income equalisation scheme provisions extend to a person engaged in any business of fishing. Such a person can deposit in the scheme a maximum amount in any one accounting year of 100% of the person's income in that year.

4.10.4 Depreciation Deductions

A person is permitted to deduct a specified percentage of certain development costs incurred in relation to improvements to an aquaculture business. The amount of the deduction is calculated using the formula: schedule 20 percentage x diminished value. The expenditure must be of benefit to the aquaculture business being conducted in the income year in which that expenditure was incurred. There is no deduction allowed in the income year on which the person ceases to carry on the business.

A person working with aquaculture improvements which the person owns may claim a deduction for development expenses incurred either by the person or by any other person. This allows a deduction for expenses incurred by a previous owner. However, a current lessee may not claim a deduction if the expenditure was incurred by a previous lessee or owner. A person working with improvements which the person does not own may only claim for expenses incurred by the person alone.

The kinds of expenditure eligible for the progressive deduction, and the appropriate percentage allowable as a deduction in each income year, are specified in Schedule 20.

If an aquaculture improvement is destroyed or irreparably damaged and made useless for the purposes of deriving income, a deduction may be available for the diminished value of the improvements.

4.10.5 Repairs to Fishing Boats

Normal rules are applied to determine the deduction of operating expenditure in relation to fishing vessels. However, there is a special provision in relation to the deduction at the cost of repairs and alterations to the hull, equipment or machinery of any fishing boat when such a cost is incurred in making repairs or alterations required by Part 10 of the *Maritime Transport Act 1994*. A person carrying on a fishing business in New Zealand can spread the deduction of this type of expenditure over a five-year period. If the person ceases to carry on the fishing business before the end of that five-year period, the deduction may be spread over the period in which the business is carried on. To take advantage of the spreading, the fishing boat must have been used wholly for the purposes of the fishing business.

4.10.6 Fishing Gear

The purchase of fishing gear (eg nets, floats, lines, sweeps) must generally be capitalised and depreciated in accordance with the rates set by the Commissioner in various depreciation determinations.

Second-hand goods credit

The Commissioner has released a number of public binding rulings on whether or not a GST-registered person can claim a second-hand GST input tax credit on the purchase of a fishing quota, a marine farming lease, a marine farming licence or a coastal permit for the principal purpose of making taxable supplies. Briefly, the rulings provide as follows:

- No second-hand input tax credit may be claimed for the purchase of fishing quota (BR Pub 03/07).
- A second-hand input tax credit may be claimed for the purchase of a marine farming lease or licence if the following criteria are met (BR Pub 03/08 and BR Pub 03/09, respectively):
 - the marine farming lease or licence defines the area subject to the lease by means of a legal description giving an area in hectares (or equivalent) and its position on a survey plan;
 - the legal effect of the marine farming lease or licence is that the seabed is not excluded from the area leased or licenced (BR Pub 03/08); and
 - the vendor used the marine farming lease or licence to carry on the marine farming activity specified in the lease or licence;
 - the marine farming lease or licence is situated in New Zealand at the time of supply;
 - the purchaser maintains sufficient records as required under the GST legislation; and
 - the vendor and purchaser are not associated persons;
- No second-hand input tax credit may be claimed for the purchase of a marine farming permit in conjunction with either a coastal permit or certificate of compliance (BR Pub 03/10).
- A coastal permit or certificate of compliance is not a “good” for GST purposes and therefore also cannot be classified as “second hand goods” for GST purposes. A purchaser of a coastal permit or certificate of compliance will not be entitled to deduct input tax in respect of the supply of the coastal permit or certificate of compliance (BR 09/05).

4.10.7 Income Equalisation Scheme

Taxpayers engaged in the business of fishing are able to make deposits under the income equalisation scheme, and for this purpose ‘fishing’ includes rock oyster farming, mussel farming, and freshwater fish farming. (Also see *Section 4.8.5.*)

4.11 DISPOSITIONS OF RELATIONSHIP PROPERTY

One partner may transfer relationship property to the other partner under the Property (Relationships) Act 1976 (as amended) without giving rise to a subsequent liability for income tax. The term “relationship agreement” now extends to agreements between de facto and same sex couples. (For Gift Duty provisions refer to *Section 5*.) The legislation basically allows assets to be transferred at book values rather than market values. In essence, the recipient of the relationship property is placed in the same position as the person who made the transfer.

Legislation of relevance to the agricultural sector regarding relationship transfers includes the following:

- Transfers of land are deemed to be at the original purchase price which the taxpayer paid for the land. No profit on sale, needs to be included as part of income.
- Transfers of land with growing timber on it are regarded as a sale of timber, but may be transferred at cost price.
- Livestock is to be transferred at the same value as it appears in the books of the transferor.
- The rights of ownership of an asset will accompany the asset if it is transferred under a relationship agreement e.g. depreciation, recovery of depreciation upon disposal, etc.

4.12 FRINGE BENEFIT TAX

Fringe benefit tax (FBT) is a tax paid by employers on non-cash benefits that have been provided to their employees. For example, an employer who provides an employee with a company car, low interest loan or other benefits may be required to pay FBT.

4.12.1 General Provisions

Because of the increase in the top personal tax rate from 1 April 2000, the FBT rate was increased from 49% to 64% to prevent high income earners avoiding the 39% tax rate by substituting fringe benefits for salary and wages. As a consequence of the increased FBT rate, employers providing fringe benefits to employees earning less than \$60,000 per annum were over-taxed. Accordingly the multi-rate FBT system was introduced applying to the 2001 and subsequent income years.

This system allows employers to choose to pay FBT either at 64% or at a rate based on the remuneration paid to the employee. An example of the multi-rate calculations set out in Tax Information Bulletin Vol. No. 2000 is set out in 4.12.4.

FBT is payable on a quarterly, or on an annual basis. Employers are eligible to pay FBT on an annual basis where their gross tax deductions or specified superannuation deductions in the preceding income year did not exceed \$100,000 or where they were not employers in the preceding income year.

For each FBT period the employer must complete a return form setting out details of benefits granted and the tax payable, and send the return with payment to the Inland Revenue Department by the 20th of the month following the end of each period. Fringe benefit tax is levied on all employers, irrespective of whether they are taxable entities or are in a tax-loss situation. It is deductible for income tax purposes.

The tax is payable by every employer who directly or indirectly grants a fringe benefit to an employee (which includes a former employee or a prospective employee).

Expenditures incurred in providing fringe benefits must be business-related or incurred in gaining assessable income in order to be tax-deductible i.e. expenditures must follow the normal rules in order to determine if they are tax-deductible.

4.12.2 Definition of 'Fringe Benefit'

A fringe benefit is any benefit received by an employee which consists of:

1. The private use, or the availability for private use, of an employer provided motor vehicle with a gross laden weight of less than 3500 kg.
2. Low interest loans. A loan is deemed to be a low interest loan because the rate of interest charged is less than the "prescribed rate of interest" which at October 2009 was set at 6.00% by IRD. The prescribed rate is reviewed regularly and should

reflect commercial rates of interest. Current account balances owed to a company by a shareholder-employee can also represent low interest loans and become subject to fringe benefit tax. The reason for the low interest rate is because the recipient is an employee. Loans granted because of a family relationship e.g. father to son, would not be deemed to be a fringe benefit to the employee.

Loans made to employees under an employee share purchase scheme are excluded.

3. Subsidised transport where the employer is a public carrier.
4. Other benefits, such as free, subsidised or discounted goods and services, e.g. free milk, meat, firewood etc. provided to a farm worker. Other fringe benefits, for instance, life insurance or accident insurance premiums paid on behalf of an employee or family, school fees for an employee's children.

There are two general exemptions for unclassified benefits in this category:

1. Where the value of fringe benefits supplied by the employer do not exceed \$15,000 per annum or \$200 per employee per quarter. (\$15,000/\$800 per annum for annual payers)
2. There is no fringe benefit where an employee purchases an item from the employer at below cost price where the normal retail price does not exceed \$200 and:
 - (a) For sale goods:
 - ◇ The difference in price is made up of the discount to the public plus the usual staff discount, and
 - ◇ The price charged to the employee is no less than the smaller of 95% of cost or 95% of the price to the public, and
 - ◇ A reasonable quantity of these sale goods are available to the public.
 - (b) For non-sale goods, the price is not less than 95% of the retail price.

Benefits which are specifically excluded from the FBT regime include:

- Benefits provided and enjoyed on the business premises e.g. sports and recreational facilities, dining facilities, etc.
- Amounts already assessable as income.
- Amounts exempt from income tax.
- Benefits provided in the place of allowances which would be regarded as exempt income.
- Transportation in a vehicle not designed for the carriage of passengers.
- Benefits arising from the discounted price of shares acquired by employees under a share purchase scheme.
- Any benefit that is entertainment except where the employee may choose when to receive the benefit and other than in the course of employment duties.
- Club subscriptions paid by employer, provided it would be ordinarily tax-deductible to the employer.
- Board, lodging and free/subsidised accommodation (as these are already assessable as income).

4.12.3 Value of Fringe Benefits

The rules for calculating the value of fringe benefits are set out in the Income Tax Act.

Motor Vehicles

A fringe benefit will arise where an employer makes available to an employee for his or her private use, an employer owned, leased or rented motor vehicle. The fringe benefit will arise if the vehicle is available for private use even if the employee does not in fact use the vehicle.

At the option of the employer, the calculation of the motor vehicle fringe benefit can be based on either the cost or the tax depreciated book value of the motor vehicle. The tax book value option will be useful to employers who own vehicles for more than five years. Under this option, there will be a minimum tax book value of \$8,333.

Calculation of the value of the motor vehicle benefit – vehicle owned

Three bases exist for determining the fringe benefit value of a motor vehicle where the vehicle is owned by the person making it available for private use.

1. Quarterly basis

From 1 April 2006, if a motor vehicle is owned by the person making it available, the value for each quarter during which the vehicle is available for private use is 5% of the GST-inclusive cost price or 9% of the GST-inclusive tax value of the vehicle to the owner. To work out the value of the fringe benefit, the following formula is used:

$$\frac{\text{days x Schedule 2 amount}}{90}$$

where:

“days” is the lesser of 90 and the number of days (including part of a day) during the quarter in which the vehicle was made available for private use by the employee (see further below), and

“Schedule 2 amount” is the amount calculated under Schedule 2, Part A of the Act, being 5% of the GST-inclusive cost price or 9% of the GST-inclusive tax value of the vehicle (or 5.625% of the GST-exclusive cost price or 10.125% of the GST-exclusive tax value).

In calculating “days”, the number of days that:

- there was no availability for private use by an employee
- the vehicle was used for an emergency call
- the vehicle was used on a business trip away from the employee’s home, and
- the vehicle was used as a work related vehicle

must be subtracted from the number of days in the quarter. Simply stating 90 days for each quarter in this part of the formula is not correct.

Example: During the quarter ending 31 March 2007, Mr TP had one of his employer’s motor vehicles available for private use. The vehicle cost \$28,500 (GST-inclusive) of which Mr TP paid \$5,000. During the quarter, the vehicle was in the workshop for one

week, was used to make two emergency calls and was taken away on a selling trip for 10 days. Mr TP made a contribution of \$20 per week to the private running costs. Mr TP’s employer uses the cost price basis to calculate FBT on the vehicle and chooses to pay FBT in this quarter at 64%. The number of days a fringe benefit was conferred is –

Days of the quarter		90
<i>less</i> no availability for private use	7	
<i>less</i> emergency calls	2	
<i>less</i> business trip days	<u>10</u>	
		<u>19</u>
		<u><u>71</u></u>

The gross value of the benefit is calculated as follow -

$$\frac{71}{90} \times \$28,500 \times 5\% = \$1,124$$

That value must then be adjusted for Mr TP’s contribution and ownership reduction as follows -

	\$	\$
Quarterly taxable value		1,124
<i>less</i> contributions (12 wks x \$20)	240	
<i>less</i> ownership reductions (\$5,000 x 0.025)	125	
Net quarterly taxable value		<u>365</u>
		<u><u>\$ 759</u></u>

The fringe benefit tax payable for the quarter is 64% of the net quarterly taxable value, being –

$$\$759 \times 64\% = \$485.76$$

2. Annual basis

A benefit can be subject to FBT on an annual basis (ie for a year commencing 1 April and ending 31 March) under s ND 13. Where this occurs, the employer will determine the annual value of the fringe benefit by applying the quarterly formula provided as above to each of the four quarters.

3. Income-year basis

Fringe benefit tax can also be paid on an income-year basis. This has particular application to shareholder-employees and for a year (which may be an accounting year). If this occurs, the fringe benefit will be calculated over the entire year rather than as a total of four quarters. The following formula is used:

$$\frac{\text{days x Schedule 2 amount}}{365}$$

where:

“days” is the number of days in the income year in which the vehicle is available for private use reduced by the number of days in which the motor vehicle is a work-related vehicle, and

“Schedule 2 amount” is the amount calculated under Schedule 2, Part A, being 20% of the GST-inclusive cost price or 22.5% of the GST-exclusive cost price or 36% of the GST-inclusive tax value or 40.5% of the GST-exclusive tax value of the motor vehicle.

If a car is made available to an employee, the following can be regarded as days when the vehicle was not available for private use:

- Any day when the employee used the vehicle to leave home to attend an ‘emergency call’ (defined to be between 6 pm and 6 am on a working weekday, or on any Saturday, Sunday or public holiday, and involves the protection of plant and machinery or health and safety of the employer or a customer of the employer).
- Any day when an employee uses the vehicle for regular business-related trips of at least 24 hours duration.
- Any day on which the vehicle is regarded as a ‘work related vehicle’ (defined to be a vehicle, other than a motor car designed for the carriage of passengers, with gross laden weight less than 3500 kg and which has the employer's name or logo permanently affixed to its exterior).
- The number of days used for private purposes may be determined using a three month test period. The results will form the basis for calculating fringe benefit tax for a three-year period.
- Employers can elect the start time of an FBT day to be any time in a 24 hour period e.g. 6pm election made private travel between 6pm to 6pm is not subject to fringe benefit tax.

Note: Vehicles with a fold-down rear seat may be regarded as a work-related vehicle only if the rear seat is removed or permanently folded down, e.g. welded in the folded down position, and the employer’s name is prominently and permanently affixed to the vehicle.

Taxable value = Value of Benefit - Employee Contributions

Employee contributions towards the cost of private use of the vehicle may take the form of:

- Payment of all or part of the running costs.
- Reimbursing employer for the use of the vehicle.
- Where the vehicle is partly owned by the employee, 2.5% (of the GST inclusive cost or 2.8125% of the GST exclusive cost) of the cost price of the employee's share may be deducted from the value of the benefit calculated as above.

Low Interest Loans

The value of a fringe benefit provided by way of a low interest loan is calculated by deducting the interest actually payable by the employee from the interest calculated at the prescribed rate of interest or at market rates on the daily balance of the outstanding loan. Recent interest rates, as prescribed by Regulation, are:

Period	Rate %
1 Oct. 2009 – 31 Dec. 2009	6.00%
1 July 2009 – 30 Sept 2009	6.41%
1 April 2009 – 30 June 2009	8.05%
1 Jan 2009 – 31 March 2009	8.05%
1 Oct 2008 – 31 Dec 2008	10.90%
1 July 2008 – 30 Sept 2008	10.57%
1 April 2008 – 30 June 2008	10.57%
1 Jan. 2008 – 31 March 2008	10.37%
1 Oct. 2007 – 31 Dec. 2007	10.37%

Subsidised Transport

This category applies to employers who carry on a business that includes transportation of the general public for hire or reward. The taxable value is the greater of: 25% of highest cost to public for that class of travel, or the amount paid by the employee.

Other Benefits

Taxable value is the value of benefit minus amount paid by employee.

Free or Discounted Goods

- Where the goods are manufactured by the employer, the value of the benefit is the lowest price at which identical goods are sold on an arm's length basis.
- Where the goods are purchased by the employer, the value of the benefit is the cost to the employer.

Note: The value of the benefit is the lower of the cost as determined above or the market value on the day of supply to the employee. If the value cannot be determined by the methods above, then the value is set at normal market price or such amount as the Commissioner may decide.

Free or Discounted Services

The value of the benefit is, in general, the normal price charged for the services to members of the public.

4.12.4 Calculation of Fringe Benefit Tax

(Example from Tax Information Bulletin Vol. 12 No. 11 Nov 2000)

Detailed example of how the multi-rate FBT rules will apply

JM Ltd is a close company owned and controlled by the CEO and spouse. The CEO is a major shareholder of the company as he or she owns 40% of the shares of the company. The following schedule shows the fringe benefits provided to the employees of the company on a quarterly basis. The same benefits are provided each quarter.

Fringe benefits received by employees (quarterly filing employer)

	Cash remuneration for year \$	Taxable value (\$) of fringe benefits received per quarter			
		Motor vehicles	Foreign superannuation scheme ¹	Medical insurance ²	Discounted goods ³
CEO	\$80,000 (Includes dividends received of \$5,000 from JM Ltd)	\$1,800*	\$750	\$200	\$100
Employee 1	\$50,000	\$1,800*	\$750	\$200	\$100
Employee 2	\$40,000			\$200	\$100
Employee 3	\$37,500			\$200	\$100
Total benefit		\$3,600	\$1,500	\$800	\$400
				Total value of all benefits	\$6,300

* Based on a \$30,000 vehicle used every day in the quarter (90 days).

¹ The contributions to a foreign superannuation scheme are covered by paragraph (g) of section CI 1 and therefore is a category of benefits.

² The medical insurance premiums are covered by paragraph (f) of section CI 1 and therefore is a category of benefits.

³ The discounted goods are covered by paragraph (h) of section CI 1 and therefore are a category of fringe benefits.

FBT obligations for the first three quarters of the year

JM Ltd would aggregate the taxable value of all fringe benefits provided in a quarter and then apply either the 49% or 64% flat rate to this quarter. The company elects the 49% rate.

The FBT liability for quarters 1 to 3 is as follows:

Quarter	Taxable value of benefits	FBT rate	FBT payable	Due date for return and payment
Quarter 1	\$6,300	49%	\$3,087	20 July
Quarter 2	\$6,300	49%	\$3,087	20 October
Quarter 3	\$6,300	49%	\$3,087	20 January
Total			\$9,261	

The example ignores the transitional requirement to pay 64% in the first two quarters of the 2000-2001 year.

As JM Ltd has chosen to pay FBT at the 49% rate in any of the first three quarters of the year, it must undertake the multi-rate calculation for the final quarter of the year.

IF JM Ltd decided to attribute these benefits, it could decide only to attribute the medical insurance benefits, the benefits of other kind category or both. If it decided to attribute all these benefits, the annual taxable value of attributed fringe benefits would be:

Annual taxable value (\$) of attributed fringe benefits received per category					
Employee	Motor vehicles	Superannuation	Medical insurance	Benefits of other kind	Total
CEO	\$7,200	\$3,000	\$800	\$400	\$11,400
Employee 1	\$7,200	\$3,000	\$800	\$400	\$11,400
Employee 2			\$800	\$400	\$1,200
Employee 3			\$800	\$400	\$1,200

Calculation of FBT liability for the final quarter

Example 1

In this example of the calculation, JM Ltd attributes only the benefits that must be attributed the employees who received them, and the other benefits are treated as non-attributed benefits and pooled.

Step 1: Calculate the fringe benefit-inclusive remuneration for each employee who received attributed benefits. The calculation is the cash remuneration minus the tax on the cash remuneration plus the annual value of fringe benefits attributed.

Employee	Cash remuneration	Less tax on the cash remuneration	Plus annual value of fringe benefits attributed	Equals fringe benefit inclusive remuneration
CEO	\$80,000	\$22,470 ¹	\$10,200	\$67,730
Employee 1	\$50,000	\$11,370 ²	\$10,200	\$48,830

Step 2: Calculate the tax on the fringe benefit-inclusive remuneration from step 1 for each employee. Schedule 2, Part B is the tax rates used for this calculation.

Employee	Tax on fringe benefit-inclusive remuneration
CEO	\$28,989.48 ³
Employee 1	\$16,906.71 ⁴

¹ Tax on cash remuneration for CEO is as follows: $(\$38,000 * 19.5\%) + ((\$60,000 - \$38,000) * 33\%) + ((\$80,000 - \$60,000) * 39\%) = \$22,470$.

² Tax on cash remuneration for employee 1 is as follows: $(38,000 * 19.5\%) + ((\$50,000 - \$38,000 * 33\%) = \$11,370$.

³ Tax on fringe benefit-inclusive remuneration for CEO is as follows: $(\$8,075 * 17.65\%) + ((\$30,590 - \$8,075) * 26.58\%) + ((\$45,330 - \$30,590) * 49.25\%) + ((\$67,730 - \$45,330) * 63.93\%) = \$28,989.48$.

⁴ Tax on fringe benefit-inclusive remuneration for employee 1 is as follows: $(\$8,075 * 17.65\%) + ((\$30,590 - \$8,075) * 26.58\%) + ((\$45,330 - \$30,590) * 49.25\%) + ((\$48,830 - \$45,330) * 63.93\%) = \$16,906.71$.

Step 3: Calculate the FBT liability of the taxable value of attributed benefits. This calculation is the tax on the fringe benefit-inclusive remuneration (step 2) **less** the tax calculated on the cash remuneration in step 1.

Employee	Tax on fringe benefit Inclusive remuneration	Less tax on the cash Remuneration	Equals FBT liability on attributed benefits
CEO	\$28,989.48	\$22,470	\$6,519.48
Employee1	\$16,906.71	\$11,370	\$5,536.71
Total			\$12,056.19

Step 4: Calculate the FBT on the non-attributed benefits. This amount is calculated by applying the 49% flat rate or the 64% flat rate to the respective pools depending on whether the recipient of the benefit is a major shareholder-employee or an associate.

Pool	Value of non-attributed benefits	FBT rate	FBT liability
Pool 1 (major shareholder-employee a recipient)	\$1,200	64%	\$768
Pool 2 (major shareholder-employee not a recipient)	\$3,600	49%	\$1,764
Total			\$2,532

Step 5: Calculate the final FBT liability for the final quarter. This amount is the total of FBT liability calculated in step 3 (FBT on attributed benefits) **plus** the FBT liability calculated in step 4 (FBT on non-attributed benefits) **less** the FBT assessed in the first three quarters of the year.

FBT liability calculated in step 3 (FBT on attributed benefits)	Plus the FBT liability calculated in step 4 (FBT on non-attributed benefits)	Less the FBT assessed in the first three quarters of the year	FBT liability for the final quarter
\$12,056.19	\$2,532	\$9,261	\$5,327.19

JM Ltd's FBT liability for the final quarter is \$5,327.19. The tax and the return are due 31 May following the end of the quarter.

4.13 GOODS AND SERVICES TAX (GST)

4.13.1 Overview

GST is a broad based tax on consumption, levied on virtually all goods and services (except financial services, domestic accommodation employment contracts and a few other categories) supplied in New Zealand. Exported goods and services are taxable at a rate of zero per cent. GST is imposed on all goods and services imported into New Zealand. The rate of GST is 12.5%.

Only persons who conduct a 'taxable activity' or who intend to carry on a taxable activity are required to register for GST purposes, and are liable to charge and account for GST. To arrive at the net amount of GST payable to the IRD, businesses ('registered persons') must deduct the GST which they paid on their inputs from the GST charged on their outputs. Thus, although GST is charged at each stage of production and distribution, it is only the final consumer who actually bears the full cost of the GST charged.

Registration

Any person/organisation whose gross turnover from taxable activities is over \$40,000 p.a. must register, and charge and account for GST. Registration is optional for traders having an expected taxable turnover of less than \$40,000 per year.

A taxable activity is any activity which involves the regular supply of goods or services to any other person for a consideration (payment). This is a wide definition which includes businesses, clubs, public and local authorities; but specifically excludes private recreational pursuits or hobbies, employment income, the directorship of a company (treated as employment), and the making of exempt supplies.

The following are exempt from GST:

- The supply of financial services;
- The supply of fine metal;
- The supply of donated goods/services by a non-profit body;
- The supply of residential accommodation in a dwelling; and
- The sale of rental dwellings (which have been used for rental accommodation for a period of five or more years).
- The supply of residential accommodation in a commercial dwelling (e.g. a hotel or hall of residence).
- Penalty imposed on unpaid rates.
- Penalty or default interest imposed under a contract for the supply of goods and services.
- A postponement fee for a rates payment that relates to local authority financial costs.

Certain supplies of goods and services are zero-rated. This means that the supply is taxable, but the rate of GST is zero.

Zero-rating occurs if:

- The goods are exported or are supplied outside New Zealand;

- A taxable activity is sold as a going concern to a registered person, i.e. a business or property is sold to another registered person who can continue operating without interruption;
- The services were performed outside New Zealand;
- From 1 January 2005, supplies of business to business financial services.
- Contribution of land made as a condition of resource consent or as a development contribution.
- The goods supplied consist of newly-refined precious metal.
- Certain supplies in respect of which excise duty and petroleum tax are payable.
- Supply of certain telecommunication services.

4.13.2 Returns and Payment of GST

Registered persons must furnish GST returns to the IRD. The standard period for each return is two months. Alternatively taxpayers may choose to make monthly returns, or six monthly returns (but only if the value of taxable supplies does not exceed \$250,000 in the previous 12 months). Businesses with annual turnover greater than \$24 million must complete monthly returns.

The GST return, which details the net amount of GST payable to the IRD (or to be refunded, as the case may be) is due by the last working day of the following month.

There is a penalty for late payment of additional tax to pay. GST unpaid after the due date attracts additional tax at the rate of 5% charged in two stages. An initial 1% is charged on the day after due date and the remaining 4% is charged if GST remains outstanding seven days after due date.

GST is normally calculated on an invoice (accrual) basis. This means that GST on Sales (outputs) must be included in the GST return covering the month in which the sale is made. GST can be claimed on purchases (inputs) in the same month as they take place. There is an alternative method, the payments (cash) basis. Under the payments basis, GST on outputs is only due if cash has been received. GST inputs can only be included if they have been paid for. This basis may be adopted by:

- Local authorities and non-profit bodies
- Registered persons whose total taxable supplies are less than \$1.3 million.
- Persons who satisfy the Commissioner that it would be appropriate for them to use the payments basis because of the nature, volume and value of their taxable supplies.

A further alternative, the hybrid basis, allows output tax to be calculated on an invoice basis and input tax on a payments basis. This method allows businesses to use their cash payments book to calculate input tax.

4.13.3 Calculating Output and Input Tax

Output tax is the GST charged in respect of the supply of goods and services made by the registered person.

Output tax can be calculated using the 'tax fraction' method. The tax fraction is the amount of GST included in the total sale price. It is calculated by dividing sales by one-ninth (for a GST rate at 12.5%).

The tax fraction of one-ninth is illustrated in this example:

Price including GST = \$112.50

Amount of GST = GST Inclusive amount ÷ 9 = \$112.5 ÷ 9 = \$12.5

Alternatively, the accounting system may separately accumulate the total GST.

Input tax is the GST charged in respect of goods and services supplied to the registered person, provided that tax invoices have been obtained from the supplier. Input tax also includes GST paid on imports. Expenditure on fixed assets and other long term items is included, and GST inputs on these items should also be claimed in the GST return.

Other adjustments for specific circumstances are also required (e.g. bad debts, business use of private assets, private use of business assets, fringe benefits).

Example Calculation

The GST payable by (or refundable to) a registered person for a return period is calculated as in the following example:

Output Tax:

Sales -	
(Total taxable supplies for the period, including GST.)	\$11,000
less	
Zero rated supplies (e.g. direct export sales)	<u>2,000</u>
	<u>\$9,000</u>
GST Content: one ninth	1,000
Plus Adjustments (e.g. GST on goods used privately)	<u>200</u>
<u>Total Output tax</u>	<u>\$1,200</u>

Input Tax:

Purchases/expenses (business related) -	
Total for which tax invoices are held, including GST	<u>\$5,400</u>
GST Content one ninth	600
Plus adjustments(e.g. business use of private vehicle)	<u>50</u>
<u>Total Input tax</u>	<u>\$650</u>
GST PAYABLE (Output Tax less Input Tax)	<u>\$550</u>

(The above example follows the format used in a Goods and Services Tax Return.)

Note: If output tax exceeds the input tax, the difference is paid to the IRD: if output tax is less than the input tax, the difference is refunded to the taxpayer, or it may be used to offset other amounts due to the IRD.

4.13.4 Recording GST

Recording of GST is normally part of the accounting system for a business. Where a cashbook is used, a GST column is normally included. The one ninth tax fraction on items that include GST is analysed into this column. At the end of the GST period, the column total can be transferred direct to the GST return (for businesses registered under 'payments' basis for recording GST).

Other businesses will need to include amounts that have not yet been paid or received, in their GST returns. This applies to businesses using the invoice basis.

This situation can be dealt with in a cash book-based system by using a separate 'GST Accrual' book. At the end of the GST period, all invoices on hand which have not been paid should be written into the book. The amount of GST included should be added to the amount shown in the cash book and included in the GST return. At the same time, the total from the GST accruals book at the previous return date should be deducted (since the invoices included will now be recorded, either as payments or in the GST accruals book again).

For example:

	GST inputs from cash book for Jan. and Feb.	\$1,234.56
<i>plus</i>	GST inputs included in GST accruals book for Feb. (invoices on hand but not yet paid at 28 Feb.)	<u>502.00</u>
		\$1,736.56
<i>less</i>	GST inputs included in GST accruals book for Dec. (invoices which were on hand but were not yet paid as at 31 Dec.) accounted for in the previous GST return.	<u>\$321.05</u>
	GST inputs on an invoice basis	<u>\$1,415.51</u>

Businesses using more sophisticated accounting systems will generally record GST inputs and outputs in separate ledger clearing accounts.

4.13.5 Tax Invoices

A 'tax invoice' must be held before GST paid on inputs can be claimed as a deduction.

The tax invoice is a document which contains details of the items supplied namely:

- The words 'tax invoice' in a prominent place;
- The name, and registration number of the supplier;
- The name, and address of recipient;
- The date of issue of the tax invoice;

- A description of the goods and services supplied;
- The quantity/volume of the goods and services supplied;
- Either: the value excluding GST, the GST charged, and the GST-inclusive price; or the GST inclusive price and a statement that GST is included in the price.

A slightly simplified invoice may be used where the amount supplied is less than \$1000.

Details required are:

- The word 'tax invoice';
- Name and registration number of supplier;
- Date of issue of the tax invoice;
- A description of goods and services supplied;
- The GST inclusive price and a statement that GST is included in the price.

No invoice is necessary if the amount supplied is less than \$50.

It is the responsibility of the supplier of the goods/services to issue a tax invoice. However, there is provision to allow the recipient (buyer) of such services to produce the tax invoice, provided the IRD agrees, both parties agree that the supplier will not issue the tax invoice, and that both parties receive a copy of the tax invoice. This provision has significance for the rural sector where it is common for the buyer to create a document which evidences a sale e.g. a freezing works.

Where a registered person obtains second hand goods from a non-registered person, the purchase price is deemed to include a notional amount of GST (calculated by applying the tax fraction to the price paid). "Second hand goods" does not include any animals including progeny and domestic animals, or any animals used in a business and primary produce of a farmer (wool, meat, milk).

The purchaser/recipient of second hand goods must maintain records detailing:

- Name and address of supplier;
- Date of acquisition of the goods;
- Description of the goods;
- Quantity or volume of goods;
- Price paid.

4.13.6 Auction Sales

Sales through auctioneers are also subject to special rules, because often it is not known if the sale is taxable or not (i.e. whether the principal is registered). With the principal's agreement, the auctioneer can treat all sales as taxable; the tax collected is either remitted to the IRD by the auctioneer on behalf of an unregistered principal, or passed to a registered principal for him to account for. If there is no agreement to adopt this approach, the sale by auction will only be taxable if the principal concerned is a registered person selling goods in the course of his taxable activity. It should be noted that the principal is the supplier/seller of the goods. Auctions may themselves be carried on either a tax-inclusive or tax-exclusive bidding basis - the latter requiring GST to be added to the successful bid. Each auctioneer will decide his individual approach. It should also be noted that the commission charged by the auctioneers is subject to GST if the auctioneer is registered.

4.14 ACCIDENT COMPENSATION LEVY

All persons who suffer injury by accident in New Zealand (and in certain cases, outside New Zealand) and who are employees or self-employed at the time of the accident, have cover under the Earners' Scheme of the Accident Compensation Act. The scheme is funded by a levy (premium) paid by employers, employees and self-employed persons. These levies are a tax-deductible expense. In 1998 the Government changed the levy rates based on a strategy of making ACC a fully funded scheme.

4.14.1 Levies on Employers

The ACC levies on employers consist of three components:

1. ACC Workplace Cover levy,
2. Residual Claims levy, and
3. Health and Safety in Employment levy.

Workplace Cover levies are set annually by Regulation and are classified by industry or risk categories. The amount payable is calculated on the amount paid to employees in the previous year. The classification groupings and associated levies are set out in *Section 4.15.7*.

The Residual Claims levy covers the long-term costs of treating and rehabilitating people in the workplace before 30 June 1999 and non-work injuries prior to 1992. The levies are based on the amount paid to employees in the previous year as well as the type of industry or activity of the employer. The classification groupings and associated levies are set out in *Section 4.15.7*.

The Health and Safety in Employment levy is currently set at 5 cents per \$100 of the amount paid to employees in the previous year.

The maximum amount of employee earnings on which the residual claims levy and employer premium is payable in respect of one employee is \$102,922.

4.14.2 Levies on the Self-Employed

In the 2009/10 income year, self-employed persons and private domestic workers will pay the:

- residual claims levy
- earner premium
- self-employed work account premium
- non-work claims levy

The residual levy for self-employed is the same as for employers.

The earner premium rates are set annually by Regulation in a manner similar to the employers premium above. Earner premium categories and rates for 2009/10 are set out

in *Section 4.15.7*. There are two parts to the self-employed work account premium; the income benefit portion and the non-income benefit. The income benefit portion is calculated on the self-employed person's net earnings from self-employment in the 2009/10 income year.

The non-income benefit portion payable is the greater of:

- \$32 or
- an amount calculated on the lesser of the persons self-employed earnings in 2008/09 income year or \$21,320.

The maximum amount of earnings on which the earner premium and self-employed work account premium is payable is \$102,922. Where a self-employed person works for more than an average of 30 hours per week and earns less than the minimum income, the levy and premiums are calculated on the basis of the minimum income. The minimum income levels are:

- for a person aged 18 or over - \$21,320.
- for a person aged under 18 - \$17,056.

If a person earns income both from self-employment and as an employee, ACC premiums will be payable on the self-employed income. A self-employed person who is engaged in two or more self-employed activities must pay the self-employed work account levy at the highest applicable rate.

For the 2006 income year, ACC offered the option of ACC Coverplus Extra for self-employed as an alternative to the standard cover option. Standard cover provides weekly compensation of 80% of what was earned in the previous year. ACC Coverplus allows the self-employed person to chose their level of cover, provides weekly compensation of 100% of the agreed amount and faster settlement of the claim. Levies on the self-employed are scheduled in *Section 4.15.7*.

4.14.3 ACC Levy Rates 2009/2010

The average levy rates for 2009/2010 are as follows:

Employer:	\$1.31 per \$100 of payroll
Self-employed work:	\$3.00 per \$100 of liable earnings
Earners:	\$1.31 per \$100 of liable earnings
Residual claims:	56c per \$100 of earnings

4.15 TAXATION APPENDICES

4.15.1 2010/2011: Due Dates for the Payment of Provisional and Terminal Tax

Month of Balance Date	Instalments						Terminal Tax	
	A (optional)	B (First)	C (optional)	D (Second)	E (optional)	F (Third)	No Tax Agent	Tax Agent
October	28 Jan	28 Mar	28 May	28 July	28 Sep	28 Nov	Sep	Nov
November	28 Feb	7 May	28 June	28 Aug	28 Oct	15 Jan	Oct	Dec
December	28 Mar	28 May	28 Jul	28 Sep	28 Nov	28 Jan	Nov	Jan
January	7 May	28 Jun	28 Aug	28 Oct	15 Jan	28 Feb	Dec	Feb
February	28 May	28 Jul	28 Sep	28 Nov	28 Jan	28 Mar	Feb	Apr
March	28 Jun	28 Aug	28 Oct	15 Jan	28 Feb	7 May	Feb	Apr
April	28 Jul	28 Sep	28 Nov	28 Jan	28 Mar	28 May	Feb	Apr
May	28 Aug	28 Oct	15 Jan	28 Feb	7 May	28 Jun	Feb	Apr
June	28 Sep	28 Nov	28 Jan	28 Mar	28 May	28 Jul	Feb	Apr
July	28 Oct	15 Jan	28 Feb	7 May	28 Jun	28 Aug	Feb	Apr
August	28 Nov	28 Jan	28 Mar	28 May	28 Jul	28 Sep	Feb	Apr
September	15 Jan	28 Feb	7 May	28 Jun	28 Aug	28 Oct	Feb	Apr

Example: *Payment Dates*

A taxpayer with a 31 May balance date must pay their 2010-11 provisional tax instalments on or before 28 October 2010, 28 February 2011, and 28 June 2011. Any terminal tax for the 2010-11 tax year is due for payment on or before 7 February 2012, or if the taxpayer's income tax return is linked to a tax agent, 7 April 2012.

2008/9: *Instalment Dates and Calculation Methods for Provisional Tax*

Method Used	Number of Instalments	Instalment Due Dates
Standard	3	B,D,F
Estimation	3	B,D,F
GST ratio method (1 or 2 monthly GST filing)	6	A to F
GST 6 monthly filing (using either the standard or estimation method)	2	C and F

If a taxpayer chooses to use the GST ratio method, the taxpayer's compulsory provisional tax payments are instalments B, D and F. Effectively, no penalties or UOMI will be imposed if provisional tax payments are not made at instalments A,C or E.

Taxpayers who are registered for GST on either a monthly or 2 monthly basis and who are not using the GST ratio method to calculate their provisional tax liability, may choose to make voluntary payments on their GST form in the months where they are not required to make provisional tax payments (instalments A,C and E).

4.15.2 Rates of Income Tax

Individuals

2010 and Future Income Years

\$1 to \$14,000	12.5%
\$14,001 - \$48,000	21.0%
\$48,001 - \$70,000	33.0%
Over \$70,000	38.0%

Companies

Domestic companies: 30% of taxable income

Overseas companies: 30% of taxable income

Trusts

Trustee income	33 %
Beneficiary income to:	
- minors less than 16 years of age at trust balance date	33%
- other beneficiaries	taxpayer's marginal tax rate
Distribution from a non-qualifying trust	45%
Undistributed rents, interest and royalties derived by the Maori Trustee	19.5%
Income from Maori Authorities	19.5%

Tax Deductions: Withholding payment tax deduction rates

Refer to *Section 4.2.2* PAYE (Pay As You Earn) Tax on Personal Income.

Tax Codes and Special Tax rates

Refer to *Section 4.2.2* PAYE (Pay As You Earn) Tax on Personal Income

4.15.3 Land and Aquaculture Development Expenditure Depreciation Rates

Note: For 1996 and subsequent years: rate = rate x 1.20%.

Description and Rate of Depreciation Diminishing Value (%).

PART A: FARMING AND AGRICULTURE (including HORTICULTURE)

	%
(1) The preparation of the land for farming or agriculture, including the cultivation and grassing.	6
(1B) The regrassing and fertilising all types of pasture in the course of a significant capital activity that relates to a type of pasture with an estimated useful life of more than 1 year.	45
(2) The draining of swamp or low-lying lands.	6
(3) The construction of access roads or tracks to or on the land.	6
(4) The construction of dams, stopbanks, irrigation or stream diversion channels, or other improvements for the purpose of conserving or conveying water for use on the land or for preventing or combating soil erosion, other than planting or maintaining trees, whether or not on the land, for the purpose of providing shelter to the land.	6
(5) The construction of earthworks, ponds, settling tanks, or other similar improvements mainly for the purpose of the treatment of waste products in order to prevent or combat pollution of the environment.	6
(6) The sinking of bores or wells for the purpose of supplying water for the use on the land.	6
(7) The construction of aeroplane landing strips to facilitate aerial topdressing of the land.	6
(8) The planting of non-listed horticultural plants on the land.	12
(9) The erection on the land of electric-power lines or telephone lines.	12
(10) The construction on the land of feeding platforms, feeding yards, plunge sheep dips, or self-feeding ensilage pits.	12
(11) The construction on the land of supporting frames for growing crops.	12
(12) The construction on the land of structures for shelter purposes.	12

PART B: FRESHWATER FISH FARMING

(1) The drilling of water bores.	6
(2) The draining of land or the excavating of sites for ponds, tanks, or races.	6
(3) The construction or races, sluices, ponds, settling ponds, or tanks of impervious materials to conduct or contain waters.	6
(4) The supply and installation of pipes for water reticulation.	6
(5) The construction of walls, embankments, walkways, service paths, or	6

	access paths.	
(6)	The construction of effluent ponds.	6
(7)	The supply and installation of baffles or screens for the containing or excluding of fish.	12
(8)	The construction of fencing on the fish farm.	12

PART C: MUSSEL FARMING

(1)	The acquisition, preparation, and mooring of pontoons, rafts, or other floating structures for collecting spat:	24
(2)	The acquisition, mooring, and outfitting of moored floating platforms or longlines from which the collected spat is suspended for subsequent growth.	24
(3)	The collecting and depositing of shell or other suitable material on the sea bed to create spatting surfaces.	24

PART D: ROCK OYSTER FARMING

(1)	The acquisition and preparation of spatting sticks.	24
(2)	The construction and erection of posts, rails, or other structures for the holding of spatting sticks during spat catching and maturing.	24
(3)	The construction of fences (including breakwater fences).	24

PART E: SCALLOP FARMING

(1)	The acquisition, preparation, and mooring of floating structures for collecting spat.	24
(2)	The acquisition, mooring, and outfitting of longlines from which the collected spat is suspended for subsequent growth.	24

PART F: SEA-CAGE SALMON FARMING

(1)	The acquisition, preparation, and mooring of pontoons, rafts, or other floating structures for securing or protecting cages or other containment vessels.	24
(2)	The acquisition, preparation, and placing of equipment of structures, including tanks, cages, nets, or other vessels, for the containment of live salmon.	24
(3)	The acquisition and placing of ropes and buoys used in the breeding or maturing of salmon.	24

PART G: FORESTRY

- | | | |
|------|--|----|
| (1) | The felling, clearing, destruction, or removal of timber, stumps, scrub, or undergrowth on the land in the preparation of the land for the planting of trees on the land. | 6 |
| (2) | The eradication or extermination, to enable the planting of trees on the land, of animal or vegetable pests on the land. | 6 |
| (3) | The destruction, to enable the planting of trees on the land, of weeds or plants detrimental to the land. | 6 |
| (4) | The draining of swamp or low-lying lands in the preparation of the land for the planting of trees on the land. | 6 |
| (5) | The construction of roads to or on the land (including any culverts or bridges necessary for the construction), when the roads are formed and wholly or mainly metalled or sealed. | 6 |
| (6) | The construction of roads to or on the land (including any culverts or bridges necessary for the construction), when the roads –
(a) are not access tracks to which section DP 1 (1)(h) (Expenditure of forestry business) applies, and
(b) are either:
(i) roads that are formed and partially metalled or sealed; or
(ii) roads that are not metalled or sealed. | 24 |
| (7) | The construction of dams, stopbanks, irrigation or stream diversion channels, or other improvements for the purpose of conserving or conveying water for use on the land or for preventing or combating soil erosion. | 6 |
| (8) | The repair of flood or erosion damage. | 6 |
| (9) | The sinking of bores or wells for the purpose of supplying water for use on the land. | 6 |
| (10) | The construction of aeroplane landing strips to facilitate aerial topdressing or disease control work or firefighting on the land. | 6 |
| (11) | The construction on the land of fences, including the purchase of wire or wire netting for the purpose of making new or existing fences rabbit-proof. | 12 |
| (12) | The erection on the land of electric power lines or telephone lines. | 12 |

4.15.4 Values for Specified Livestock

National Standard Costs

2009 Income Year

Source: <http://www.ird.govt.nz/technical-tax/determinations/livestock/national-standard/livestock-nationalstandardvalues-2009.html>

Kind of Livestock	Category of Livestock	National Standard Cost \$
Sheep	Rising 1 year	26.00
	Rising 2 year	17.80
Dairy Cattle	Purchased bobby calves	176.90
	Rising 1 year	787.60
	Rising 2 year	142.60
Beef Cattle	Rising 1 year	261.60
	Rising 2 year	150.00
	Rising 3 year male non-breeding cattle (all breeds)	150.00
Deer	Rising 1 year	91.80
	Rising 2 year	44.50
Goats (Meat & Fibre)	Rising 1 year	20.90
	Rising 2 year	14.30
Goats (Dairy)	Rising 1 year	155.50
	Rising 2 year	25.20
Pigs	Weaners to 10 weeks of age	93.10
	Growing pigs 10 to 17 weeks of age	75.20

National Standard Costs

2008 Income Year

Source: <http://www.ird.govt.nz/technical-tax/determinations/livestock/national-standard/livestock-nationalstandardvalues-2008.html>

Kind of Livestock	Category of Livestock	National Standard Cost \$
Sheep	Rising 1 year	23.00
	Rising 2 year	15.70
Dairy Cattle	Purchased bobby calves	167.20
	Rising 1 year	608.60
	Rising 2 year	104.80
Beef Cattle	Rising 1 year	228.30
	Rising 2 year	132.30
	Rising 3 year male non-breeding cattle (all breeds)	132.30
Deer	Rising 1 year	76.90
	Rising 2 year	37.40
Goats (Meat & Fibre)	Rising 1 year	18.40
	Rising 2 year	12.60
Goats (Dairy)	Rising 1 year	134.50
	Rising 2 year	21.50
Pigs	Weaners to 10 weeks of age	85.50
	Growing pigs 10 to 17 weeks of age	67.40

National Standard Costs

2007 Income Year

Source: <http://www.ird.govt.nz/technical-tax/determinations/livestock/national-standard/livestock-nationalstandardvalues-2007.html>

Kind of Livestock	Category of Livestock	National Standard Cost \$
Sheep	Rising 1 year	24.70
	Rising 2 year	17.00
Dairy Cattle	Purchased bobby calves	138.00
	Rising 1 year	652.00
	Rising 2 year	93.30
Beef Cattle	Rising 1 year	243.80
	Rising 2 year	143.30
	Rising 3 year male non-breeding cattle (all breeds)	143.30
Deer	Rising 1 year	79.80
	Rising 2 year	39.20
Goats (Meat & Fibre)	Rising 1 year	19.50
	Rising 2 year	13.60
Goats (Dairy)	Rising 1 year	122.60
	Rising 2 year	19.90
Pigs	Weaners to 10 weeks of age	82.50
	Growing pigs 10 to 17 weeks of age	63.90

National Standard Costs

National Average Market Values

2009 Income Year

Source: <http://www.ird.govt.nz/technical-tax/determinations/livestock/national-averages/livestock-nationalavemarketvalues-2009.html>

Type of Livestock	Classes of Livestock	Average market Value per Head \$
Sheep		
	Ewe hoggets	94.00
	Ram and wether hoggets	88.00
	Two-tooth ewes	116.00
	Mixed-age ewes (rising three-year and four-year old ewes)	99.00
	Rising five-year and older ewes	81.00
	Mixed-age wethers	56.00
	Breeding rams	218.00
Beef cattle		
<i>Beef breeds and beef crosses:</i>		
	Rising one-year heifers	429.00
	Rising two-year heifers	663.00
	Mixed-age cows	770.00
	Rising one-year steers and bulls	534.00
	Rising two-year steers and bulls	748.00
	Rising three-year and older steers and bulls	908.00
	Breeding bulls	1743.00
Dairy cattle		
<i>Friesian and related breeds:</i>		
	Rising one-year heifers	511.00
	Rising two-year heifers	1083.00
	Mixed-age cows	1312.00
	Rising one-year steers and bulls	381.00
	Rising two-year steers and bulls	576.00
	Rising three-year and older steers and bulls	724.00
	Breeding bulls	1220.00
<i>Jersey and other dairy cattle:</i>		
	Rising one-year heifers	434.00
	Rising two-year heifers	953.00
	Mixed-age cows	1243.00
	Rising one-year steers and bulls	322.00
	Rising two-year and older steers and bulls	577.00
	Breeding bulls	998.00
Deer		
<i>Red deer:</i>		
	Rising one-year hinds	272.00
	Rising two-year hinds	460.00
	Mixed-age hinds	514.00
	Rising one-year stags	318.00
	Rising two-year and older stags (non-breeding)	530.00
	Breeding stags	1393.00

Deer (continued):	
<i>Wapiti, elk, and related crossbreeds:</i>	
Rising one-year hinds	318.00
Rising two-year hinds	484.00
Mixed-age hinds	551.00
Rising one-year stags	366.00
Rising two-year and older stags (non-breeding)	574.00
Breeding stags	1678.00
<i>Other breeds:</i>	
Rising one-year hinds	80.00
Rising two-year hinds	122.00
Mixed-age hinds	153.00
Rising one-year stags	85.00
Rising two-year and older stags (non-breeding)	152.00
Breeding stags	340.00
Goats	
<i>Angora and angora crosses (mohair producing):</i>	
Rising one-year does	20.00
Mixed-age does	25.00
Rising one-year bucks (non-breeding)/wethers	10.00
Bucks (non-breeding)/wethers over one year	12.00
Breeding bucks	64.00
<i>Other fibre and meat producing goats (Cashmere or Cashgora producing):</i>	
Rising one-year does	28.00
Mixed-age does	29.00
Rising one-year bucks (non-breeding)/wethers	23.00
Bucks (non-breeding)/wethers over one year	18.00
Breeding bucks	168.00
<i>Milking(dairy) goats:</i>	
Rising one-year does	180.00
Does over one year	260.00
Breeding bucks	350.00
Other dairy goats	50.00
Pigs	
Breeding sows less than one year or age	154.00
Breeding sows over one year of age	179.00
Breeding boars	190.00
Weaners less than 10 weeks of age (excluding sucklings)	52.00
Growing pigs 10 to 17 weeks of age (porkers and baconers)	87.00
Growing pigs over 17 weeks of age (baconers)	126.00

National Average Market Values

2008 Income Year

Source: <http://www.ird.govt.nz/technical-tax/determinations/livestock/national-averages/livestock-nationalavemarketvalues-2008.html>

Type of Livestock	Classes of Livestock	Average market Value per Head \$
Sheep		
	Ewe hoggets	52.00
	Ram and wether hoggets	49.00
	Two-tooth ewes	60.00
	Mixed-age ewes (rising three-year and four-year old ewes)	50.00
	Rising five-year and older ewes	41.00
	Mixed-age wethers	32.00
	Breeding rams	190.00
Beef cattle		
<i>Beef breeds and beef crosses:</i>		
	Rising one-year heifers	333.00
	Rising two-year heifers	547.00
	Mixed-age cows	638.00
	Rising one-year steers and bulls	427.00
	Rising two-year steers and bulls	640.00
	Rising three-year and older steers and bulls	801.00
	Breeding bulls	1464.00
Dairy cattle		
<i>Friesian and related breeds:</i>		
	Rising one-year heifers	1037.00
	Rising two-year heifers	1856.00
	Mixed-age cows	2150.00
	Rising one-year steers and bulls	292.00
	Rising two-year steers and bulls	480.00
	Rising three-year and older steers and bulls	664.00
	Breeding bulls	1062.00
<i>Jersey and other dairy cattle:</i>		
	Rising one-year heifers	920.00
	Rising two-year heifers	1702.00
	Mixed-age cows	2079.00
	Rising one-year steers and bulls	225.00
	Rising two-year and older steers and bulls	478.00
	Breeding bulls	884.00
Deer		
<i>Red deer:</i>		
	Rising one-year hinds	152.00
	Rising two-year hinds	390.00
	Mixed-age hinds	363.00
	Rising one-year stags	198.00
	Rising two-year and older stags (non-breeding)	421.00
	Breeding stags	1064.00

Deer (continued):	
<i>Wapiti, elk, and related crossbreeds:</i>	
Rising one-year hinds	186.00
Rising two-year hinds	347.00
Mixed-age hinds	399.00
Rising one-year stags	229.00
Rising two-year and older stags (non-breeding)	415.00
Breeding stags	1146.00
<i>Other breeds:</i>	
Rising one-year hinds	100.00
Rising two-year hinds	140.00
Mixed-age hinds	176.00
Rising one-year stags	109.00
Rising two-year and older stags (non-breeding)	188.00
Breeding stags	432.00
Goats	
<i>Angora and angora crosses (mohair producing):</i>	
Rising one-year does	26.00
Mixed-age does	41.00
Rising one-year bucks (non-breeding)/wethers	23.00
Bucks (non-breeding)/wethers over one year	26.00
Breeding bucks	86.00
<i>Other fibre and meat producing goats (Cashmere or Cashgora producing):</i>	
Rising one-year does	41.00
Mixed-age does	48.00
Rising one-year bucks (non-breeding)/wethers	29.00
Bucks (non-breeding)/wethers over one year	29.00
Breeding bucks	240.00
<i>Milking(dairy) goats:</i>	
Rising one-year does	180.00
Does over one year	260.00
Breeding bucks	350.00
Other dairy goats	50.00
Pigs	
Breeding sows less than one year or age	195.00
Breeding sows over one year of age	219.00
Breeding boars	262.00
Weaners less than 10 weeks of age (excluding sucklings)	56.00
Growing pigs 10 to 17 weeks of age (porkers and baconers)	121.00
Growing pigs over 17 weeks of age (baconers)	168.00

National Average Market Values

2007 Income Year

Source: <http://www.ird.govt.nz/technical-tax/determinations/livestock/national-averages/livestock-nationalavemarketvalues-2007.html>

Type of Livestock	Classes of Livestock	Average market Value per Head \$
Sheep		
	Ewe hoggets	54.00
	Ram and wether hoggets	48.00
	Two-tooth ewes	75.00
	Mixed-age ewes (rising three-year and four-year old ewes)	65.00
	Rising five-year and older ewes	48.00
	Mixed-age wethers	37.00
	Breeding rams	215.00
Beef cattle		
	<i>Beef breeds and beef crosses:</i>	
	Rising one-year heifers	406.00
	Rising two-year heifers	620.00
	Mixed-age cows	752.00
	Rising one-year steers and bulls	502.00
	Rising two-year steers and bulls	720.00
	Rising three-year and older steers and bulls	882.00
	Breeding bulls	1546.00
Dairy cattle		
	<i>Friesian and related breeds:</i>	
	Rising one-year heifers	594.00
	Rising two-year heifers	1075.00
	Mixed-age cows	1245.00
	Rising one-year steers and bulls	379.00
	Rising two-year steers and bulls	618.00
	Rising three-year and older steers and bulls	797.00
	Breeding bulls	1067.00
	<i>Jersey and other dairy cattle:</i>	
	Rising one-year heifers	524.00
	Rising two-year heifers	986.00
	Mixed-age cows	1176.00
	Rising one-year steers and bulls	271.00
	Rising two-year and older steers and bulls	461.00
	Breeding bulls	785.00
Deer		
	<i>Red deer:</i>	
	Rising one-year hinds	152.00
	Rising two-year hinds	270.00
	Mixed-age hinds	296.00
	Rising one-year stags	184.00
	Rising two-year and older stags (non-breeding)	301.00
	Breeding stags	1226.00

Deer (continued):	
<i>Wapiti, elk, and related crossbreeds:</i>	
Rising one-year hinds	172.00
Rising two-year hinds	302.00
Mixed-age hinds	359.00
Rising one-year stags	206.00
Rising two-year and older stags (non-breeding)	338.00
Breeding stags	1240.00
<i>Other breeds:</i>	
Rising one-year hinds	67.00
Rising two-year hinds	115.00
Mixed-age hinds	150.00
Rising one-year stags	86.00
Rising two-year and older stags (non-breeding)	136.00
Breeding stags	407.00
Goats	
<i>Angora and angora crosses (mohair producing):</i>	
Rising one-year does	27.00
Mixed-age does	41.00
Rising one-year bucks (non-breeding)/wethers	20.00
Bucks (non-breeding)/wethers over one year	19.00
Breeding bucks	77.00
<i>Other fibre and meat producing goats (Cashmere or Cashgora producing):</i>	
Rising one-year does	31.00
Mixed-age does	43.00
Rising one-year bucks (non-breeding)/wethers	30.00
Bucks (non-breeding)/wethers over one year	29.00
Breeding bucks	140.00
<i>Milking(dairy) goats:</i>	
Rising one-year does	170.00
Does over one year	250.00
Breeding bucks	300.00
Other dairy goats	25.00
Pigs	
Breeding sows less than one year or age	187.00
Breeding sows over one year of age	231.00
Breeding boars	324.00
Weaners less than 10 weeks of age (excluding sucklings)	56.00
Growing pigs 10 to 17 weeks of age (porkers and baconers)	107.00
Growing pigs over 17 weeks of age (baconers)	176.00

4.15.5 Livestock Taxation Examples

The following examples calculate taxable income for sheep using either the herd scheme (where all sheep are included in the “herd”) or the National Standard Cost scheme using the average cost inventory system. Three consecutive years are illustrated, namely the income years ending 30 June 2007, 2008, and 2009.

Livestock Data

Year ended 30 June	2006	2007	2008	2009
Ewe hoggets	930	932	930	934
2th ewes	760	771	763	735
R3 and R4 year ewes	1633	1638	1732	1803
R5 yr and older ewes	576	581	576	561
Rams	80	80	80	80
	<u>3979</u>	<u>4002</u>	<u>4081</u>	<u>4113</u>
Livestock sales		\$327 581	\$241 295	\$381 103
Lambs		3023	3031	3080
MA ewes		1241	1030	1051
Livestock purchases		\$44 650	\$24 510	\$25 500
MA ewes		508	350	300
Rams		2		
Natural increase		3899	3900	3979
Deaths and missing		122	110	116
Stock at start		3979	4002	4081
Purchases		510	350	300
Natural increase		3899	3900	3979
		<u>8388</u>	<u>8252</u>	<u>8360</u>
Sales		4264	4061	4131
Deaths and missing		122	110	116
Stock at end		4002	4081	4113
		<u>8388</u>	<u>8252</u>	<u>8360</u>

Herd Scheme

2009 Income Year

Opening tax values (opening stock @ ending NAMV)

			\$	\$
Ewe hoggets	930	x	94	87 420
2th ewes	763	x	116	88 508
R3 and R4 year old ewes	1732	x	99	171 468
R5 year and older ewes	576	x	81	46 656
Rams	<u>80</u>	x	218	<u>17 440</u>
	<u>4081</u>			<u>\$411 492</u>

Closing tax values (closing stock @ ending NAMV)

			\$	\$
Ewe hoggets	934	x	94	87 796
2th ewes	735	x	116	85 260
R3 and R4 year old ewes	1803	x	99	178 497
R5 year and older ewes	561	x	81	45 441
Rams	<u>80</u>	x	218	<u>17 440</u>
	<u>4113</u>			<u>\$414 434</u>

Taxable income due to changes in herd numbers = \$414 434 - \$411 492
= \$2942

Check

Herd value 30 June 2009	\$414 434
Herd value 30 June 2008	<u>\$219 556</u>
Increase	<u>\$194 878</u>
Increase in capital value of herd (\$411 492 - \$219 556)	\$191 936
Increase due to changes in numbers	<u>\$ 2 942</u>
Increase	<u>\$194 878</u>

Taxable Income from Sheep

Sales	\$381 103
Less Purchases	<u>25 500</u>
Cash Surplus	355 603
Plus Taxable increase in herd	<u>2 942</u>
Taxable income from sheep	<u>\$358 545</u>

Herd Scheme

2008 Income Year

Opening tax values (opening stock @ ending NAMV)

			\$	\$
Ewe hoggets	932	x	52	48 464
2th ewes	771	x	60	46 260
R3 and R4 year old ewes	1638	x	50	81 900
R5 year and older ewes	581	x	41	23 821
Rams	<u>80</u>	x	190	<u>15 200</u>
	<u>4002</u>			<u>\$215 645</u>

Closing tax values (closing stock @ ending NAMV)

			\$	\$
Ewe hoggets	930	x	52	48 360
2th ewes	763	x	60	45 780
R3 and R4 year old ewes	1732	x	50	86 600
R5 year and older ewes	576	x	41	23 616
Rams	<u>80</u>	x	190	<u>15 200</u>
	<u>4081</u>			<u>\$219 556</u>

Taxable income due to changes in herd numbers = \$219 556 - \$215 645
= \$3911

Check

Herd value 30 June 2008	\$219 556
Herd value 30 June 2007	<u>\$259 711</u>
Decrease	<u>\$ 40 155</u>
Decrease in capital value of herd (\$215 645 - \$259 711)	\$ 44 066
Increase due to changes in numbers	<u>\$ 3 911</u>
Decrease	<u>\$ 40 155</u>

Taxable Income from Sheep

Sales	\$241 295
Less Purchases	<u>24 510</u>
Cash Surplus	216 785
Plus Taxable increase in herd	<u>3 911</u>
Taxable income from sheep	<u>\$220 696</u>

Herd Scheme

2007 Income Year

Opening tax values (opening stock @ ending NAMV)

			\$	\$
Ewe hoggets	930	x	54	50 220
2th ewes	760	x	75	57 000
R3 and R4 year old ewes	1633	x	65	106 145
R5 year and older ewes	576	x	48	27 348
Rams	<u>80</u>	x	215	<u>17 200</u>
	<u>3979</u>			<u>\$258 213</u>

Closing tax values (closing stock @ ending NAMV)

			\$	\$
Ewe hoggets	932	x	54	50 328
2th ewes	771	x	75	57 825
R3 and R4 year old ewes	1638	x	65	106 470
R5 year and older ewes	581	x	48	27 888
Rams	<u>80</u>	x	215	<u>17 200</u>
	<u>4002</u>			<u>\$259 711</u>

Taxable income due to changes in herd numbers = \$259 711 - \$258 213
= \$1498

Check

Herd value 30 June 2007	\$259 711
Herd value 30 June 2006	<u>\$292 393</u>
Decrease	<u>\$ 32 682</u>
Decrease in capital value of herd (\$258 213 - \$292 393)	\$ 34 180
Increase due to changes in numbers	<u>\$ 1 498</u>
Decrease	<u>\$ 32 682</u>

Taxable Income from Sheep

Sales	\$327 581
Less Purchases	<u>44 650</u>
Cash Surplus	282 931
Plus Taxable increase in herd	<u>1 498</u>
Taxable income from sheep	<u>\$284 429</u>

National Standard Cost

- Note:** (1) The formulae for calculating livestock values under the national Standard Cost scheme are contained in the Income Tax (National Standard Cost for Livestock). Determination 2007, reprinted as the Appendix to the Tax Information Bulletin, Volume 5 No. 11 (April 2007). The formulae have not been reprinted in this Manual.
- (2) The average cost inventory system is used in the following examples.

2009 Income Year

Average cost of livestock for the 2009 tax year has been calculated as:

Ewe hoggets	\$26.00 per head
Mature sheep	\$52.48 per head

Opening tax value

				\$
Ewe hoggets	930	x	\$23.00	21 390
Mature sheep	<u>3151</u>	x	\$53.02	<u>167 066</u>
	<u>4081</u>			<u>\$188 456</u>

Closing tax value

				\$
Ewe hoggets	934	x	\$26.00	24 284
Mature sheep	<u>3179</u>	x	\$52.48	<u>166 834</u>
	<u>4113</u>			<u>\$191 118</u>

Increase in stock on hand = \$191 118 - \$188 456
= \$2662

Taxable income from sheep

Sales	\$381 103
Less Purchases	<u>25 500</u>
Cash surplus	355 603
Plus increase in stock on hand	<u>2 662</u>
Taxable income from sheep	<u>\$358 265</u>

National Standard Cost

2008 Income Year

Average cost of livestock for the 2008 tax year has been calculated as:

Ewe hoggets	\$23.00 per head
Mature sheep	\$53.02 per head

Opening tax value

				\$
Ewe hoggets	932	x	\$24.70	23 020
Mature sheep	<u>3070</u>	x	\$55.89	<u>171 582</u>
	<u>4002</u>			<u>\$194 602</u>

Closing tax value

				\$
Ewe hoggets	930	x	\$23.00	21 390
Mature sheep	<u>3151</u>	x	\$53.02	<u>167 066</u>
	<u>4081</u>			<u>\$188 456</u>

Decrease in stock on hand = \$188 456 - \$194 602
= \$6146

Taxable income from sheep

Sales	\$241 295
Less Purchases	<u>24 510</u>
Cash surplus	216 785
less Decrease in stock on hand	<u>6 146</u>
Taxable income from sheep	<u>\$210 639</u>

National Standard Cost

2007 Income Year

Average cost of livestock for the 2007 tax year has been calculated as:

Ewe hoggets	\$24.70 per head
Mature sheep	\$55.89 per head

Opening tax value

				\$
Ewe hoggets	930	x	\$23.90	22 227
Mature sheep	<u>3049</u>	x	\$54.64	<u>166 597</u>
	<u>3979</u>			<u>\$188 824</u>

Closing tax value

				\$
Ewe hoggets	932	x	\$24.70	23 020
Mature sheep	<u>3070</u>	x	\$55.89	<u>171 582</u>
	<u>4002</u>			<u>\$194 602</u>

Increase in stock on hand = \$194 602 - \$188 824
= \$5 778

Taxable income from sheep

Sales	\$327 581
Less Purchases	<u>44 650</u>
Cash surplus	282 931
Plus increase in stock on hand	<u>5 778</u>
Taxable income from sheep	<u>\$288 709</u>

14.15.6 Accrual Rules for Expenditure (Deductions for Prepayments)

Expenditures which can be treated as a tax deductible expense when paid, (i.e. the portion that relates to a period after balance date) and the upper limit after which the unexpired portion must be adjusted for are as follows:

Expenditure	Limit on Expenditure
Postage and Stationery	No limit
Subscriptions	No limit
* Journals and periodicals	No limit in total, but the maximum for any one association is \$6,000.
* Trade and professional	
Telephone	Expenditure must not extend further than 2 months past balance date.
Vehicle Registration	No limit
Rents payable for lease of land and/or buildings	Must not relate to a period beyond 6 months past balance date and the amount unexpired must not exceed \$23,000 (or may exceed this amount if it relates to a period not more than one month after balance date).
Rents payable for lease or bailment of livestock or bloodstock	Must not relate to a period beyond 6 months past balance date and the amount unexpired must not exceed \$23,000.
Insurance premiums	Must not relate to a period beyond 12 months past balance date and the amount unexpired must not exceed \$12,000.
Maintenance contracts	The contract/warranty must have been purchased as an integral part of the asset(s).
Service contracts	Performance completed within 3 months of balance date and the unexpired portion must not exceed \$23,000.
Consumable aids	Must be in the possession of the taxpayer at balance date and the unexpired portion must not exceed \$58,000.
Periodic charges	Must not relate to a period beyond 12 months past balance date and the unexpired portion must not exceed \$12,000.

Rates	No limit
Advance bookings for travel and accommodation	Maximum \$12,000, must not exceed 6 months after balance date.
Advertising	Maximum \$12,000, 6 months.
Road user charges	No limit
Audit fees	No limit
Accounting costs	No limit

If the above conditions are not met then the expenditures must be treated as an asset (prepayment) and progressively written off as an expense as the goods or services are used or provided.

4.15.7 Accident Compensation Levies 2009-10

CU	Description	ACC Employee Cover	Self-Employed			Residual Claims Incl HSE
			ACC Cover Plus	ACC CoverPlus Extra		
				CPX	Abatement Removal	
Horticulture and fruit growing						
01110	Nursery production	1.17	1.27	1.63	0.08	0.72
01120	Floriculture production	1.17	1.27	1.63	0.08	0.72
01130	Vegetable growing	1.17	1.27	1.63	0.08	0.72
01140	Grape growing	1.17	1.27	1.63	0.08	0.72
01150	Apple and pear growing	1.17	1.27	1.63	0.08	0.72
01160	Stone fruit growing	1.17	1.27	1.63	0.08	0.72
01170	Kiwi fruit growing	1.17	1.27	1.63	0.08	0.72
01180	Olive growing	1.17	1.27	1.63	0.08	0.72
01190	Fruit growing (not elsewhere classified)	1.17	1.27	1.63	0.08	0.72
01191	Citrus growing	1.17	1.27	1.63	0.08	0.72
01192	Berryfruit growing	1.17	1.27	1.63	0.08	0.72
Grain, sheep and beef cattle farming						
01210	Grain growing	1.17	1.27	1.63	0.08	0.72
01220	Grain-sheep and grain-beef cattle farming	1.97	2.29	2.95	0.12	0.72
01230	Sheep and beef cattle farming	1.97	2.29	2.95	0.12	0.72
01240	Sheep farming	1.97	2.29	2.95	0.12	0.72
01250	Beef cattle farming	1.96	2.28	2.93	0.12	0.72
01300	Dairy cattle farming	1.97	2.29	2.95	0.12	0.72
01410	Poultry farming – meat	1.20	1.25	1.61	0.08	0.72
01420	Poultry farming – eggs	1.20	1.25	1.61	0.08	0.72
Other livestock farming						
01510	Pig farming	1.96	2.28	2.93	0.12	0.72
01520	Horse farming and horse agistment	3.20	6.00	7.72	0.27	0.84
01530	Deer farming	1.96	2.28	2.94	0.11	0.72
01590	Livestock farming (not elsewhere classified)	1.96	2.28	2.94	0.11	0.72
01593	Beekeeping	1.96	2.28	2.94	0.11	0.72
Other crop growing						
01690	Crop and plant growing (not elsewhere classified)	1.17	1.27	1.63	0.08	0.72
01692	Cultivated mushroom growing	1.17	1.27	1.63	0.08	0.72
Services to agriculture						
02120	Shearing services	3.40	3.90	5.02	0.19	0.72
02190	Agriculture and fishing support services (not elsewhere classified)	1.64	1.77	2.28	0.10	0.72
Hunting and trapping						
02200	Hunting and trapping	3.28	3.82	4.91	0.19	2.55
Forestry and logging						
03010	Forestry	3.26	3.99	5.13	0.19	3.50
03020	Logging	3.26	3.99	5.13	0.19	3.50
03021	Forest products - gathering	1.66	1.79	2.30	0.10	0.72
03030	Forestry support services (excluding tree cutting and felling)	3.32	3.94	5.07	0.19	2.55

Marine fishing						
04110	Rock lobster and crab fishing or potting	3.68	4.24	5.45	0.20	2.55
04120	Prawn fishing	3.67	4.07	5.24	0.20	2.55
04130	Fish trawling, seining, and netting (including processing on board)	3.68	4.21	5.42	0.20	2.55
04150	Line fishing (including processing on board)	3.68	4.23	5.44	0.20	2.55
04190	Fishing (not elsewhere classified)	1.68	1.88	2.42	0.11	2.55
Aquaculture						
04210	Aquaculture - offshore	1.65	1.81	2.33	0.10	0.72
04220	Aquaculture - onshore	1.64	1.78	2.29	0.10	0.72
Coal mining						
11010	Coal mining	1.77	2.49	3.20	0.13	1.49
Oil and gas extraction						
12000	Oil and gas extraction	0.22	0.27	0.35	0.04	0.41
Metal ore mining						
13110	Iron ore mining	1.77	2.49	3.20	0.13	1.49
13140	Gold mining	1.77	2.49	3.20	0.13	1.49
13150	Mineral sand mining	1.77	2.49	3.20	0.13	1.49
13170	Silver, lead, and zinc ore mining	1.77	2.49	3.20	0.13	1.49
13190	Metal ore mining (not elsewhere classified)	1.77	2.49	3.20	0.13	1.49
Construction material mining						
14110	Gravel and sand quarrying	1.77	2.49	3.20	0.13	1.49
14190	Construction material mining (not elsewhere classified)	1.77	2.49	3.20	0.13	1.49
Other mining						
14200	Mining and quarrying ((not elsewhere classified)	1.77	2.26	2.91	0.12	1.49

Further details may be obtained from the ACC website –
http://www.acc.co.nz/PRD_EXT_CSMP/groups/external_levies/documents/guide/prd_ctrb113216.pdf

4.15.8 Economic Rates of Depreciation

The economic depreciation rates must be used for all assets acquired in the 2005/06 and subsequent income years.

The following are selected examples of industry and asset categories.

Industry Categories	Estimated useful life (years)	DV rate (%)	DV + 20% loading (%)	SL equiv rate (%)
<i>Agriculture, Horticulture and Aquaculture</i>				
Agricultural and horticultural machinery (not specified)	15.5	13	15.6	8.5
Aeroplanes (top dressing and spraying) and specialised attachments	10	20	24	13.5
Beekeeping equipment	12.5	16	19.2	10.5
Bush cutters	5	40	48	30
Chainsaws	3	67	80.4	67
Cherry pickers	12.5	16	19.2	10.5
Cleaning machinery	15.5	13	15.6	8.5
Compressor (refrigerant)	12.5	16	19.2	10.5
Crates (cattle)	10	20	24	13.5
Crates (pig)	10	20	24	13.5
Crates (sheep)	10	20	24	13.5
Cultivators (rotary)	5	40	48	30
Dairy shed and yard (including pipe-work, bails, railings and gates)	33.3	6	-	4
Egg crates	3	67	80.4	67
Feeders (forage)	12.5	16	19.2	10.5
Graders (capsicum)	8	25	30	17.5
Graders (tomatoes)	8	25	30	17.5
Grading machinery	15.5	13	15.6	8.5
Harness	5	40	48	30
Harvesters	15.5	13	15.6	8.5
Hay balers	12.5	16	19.2	10.5
Hi-trim shelter trimmer (including sub-frame)	10	20	24	13.5
Hop kilns	15.5	13	15.6	8.5
Irrigation piping (above ground)	15.5	13	15.6	8.5
Irrigation pumps (above ground)	15.5	13	15.6	8.5
Irrigators (travelling)	10	20	24	13.5
Isolating transformers	8	25	30	17.5
Kennel (dogs)	5	40	48	30
Lawnmowers (domestic type used by lawnmowing contractors)	2	100	100	100
Lawnmowers (non-domestic type in use by lawnmowing contractors)	5	40	48	30
Milk storage vat/silo	15.5	13	15.6	8.5

Milking plant	12.5	16	19.2	10.5
Mowers (gang and PTO type)	12.5	16	19.2	10.5
Mulchers (commercial)	4	50	60	40
Pig feeding plant	8	25	30	17.5
Pig watering systems	20	10	12	7
Plant Trolleys	5	40	48	30
Post hole borers (except PTO type)	5	40	48	30
Post hole borers (PTO type)	12.5	16	19.2	10.5
Poultry equipment	12.5	16	19.2	10.5
Rifles (less than 10,000 rounds per year)	6.6	30	36	21
Rifles (greater than 10,000 rounds per year)	2	100	100	100
Rollers	12.5	16	19.2	10.5
Rotary dairy shed milking platforms (turntables)	25	8	9.6	6
Saddlery	5	40	48	30
Shearing equipment	8	25	30	17.5
Shellfish nets	4	50	60	40
Shellfish ropes	4	50	60	40
Shellfish stakes	4	50	60	40
Shotguns (less than 50,000 rounds per year)	6.66	30	36	21
Shotguns (greater than 50,000 rounds per year)	2	100	100	100
Sorting machinery	15.5	13	15.6	8.5
Sprayers (backpack)	5	40	48	30
Sprayers (mobile crop)	12.5	16	19.2	10.5
Sprayers (mobile weed)	12.5	16	19.2	10.5
Spreaders (fertiliser)	12.5	16	19.2	10.5
Teat sprayers (automatic)	6.66	30	36	21
Tools (hand)	3	67	80.4	67
Tools (power)	3	67	80.4	67
Tractor drawn implements	15.5	13	15.6	8.5
Tractors (wheeled)	15.5	13	15.6	8.5
Trough covers (polyethylene)	5	40	48	30
Wash-down unit	10	20	24	13.5
Wash-down unit (portable)	3	67	80.4	67
Water heaters	12.5	16	19.2	10.5
Wintering Pads (rubber)	6.66	30	36	21
Woven reflective mulch	3	67	80.4	67
<i>Dairy Plant</i>				
Dairy plant and equipment (default class)	15.5	13	15.6	8.5
Blending bins (casein)	15.5	13	15.6	8.5
Butter making machines (except as specified)	15.5	13	15.6	8.5
Butter patting machines	12.5	16	19.2	10.5
Cartoning machines	15.5	13	15.6	8.5
Centrifuges	12.5	16	19.2	10.5
Cheddaring system	15.5	13	15.6	8.5
Cheese maturing boards	6.66	30	36	21
Cheese plant	15.5	13	15.6	8.5
Churns	15.5	13	15.6	8.5

Clarifiers (whey)	15.5	13	15.6	8.5
Compressor (refrigerant) (on farm)	12.5	16	19.2	10.5
Control equipment	8	25	30	17.5
Conveyors	15.5	13	15.6	8.5
Conveyors (crates)	15.5	13	15.6	8.5
Cooling equipment	15.5	13	15.6	8.5
Crating machines	15.5	13	15.6	8.5
Decanters	12.5	16	19.2	10.5
Decrating machines	15.5	13	15.6	8.5
Dryers	15.5	13	15.6	8.5
Effluent plant (excluding SS tanks and screens)	12.5	16	19.2	10.5
Electrodialysis plant (whey)	12.5	16	19.2	10.5
Evaporators (MVR type)	15.5	13	15.6	8.5
Evaporators (TVR type)	20	10	12	7
Filling machines (bottle)	15.5	13	15.6	8.5
Flow meters	8	25	30	17.5
Grinding plant (casein)	15.5	13	15.6	8.5
Heat exchanges	15.5	13	15.6	8.5
Homogenisers	12.5	16	19.2	10.5
Ion exchangers (whey)	12.5	16	19.2	10.5
Inflatable pipeline plug	3	67	80.4	67
Metal detectors	8	25	30	17.5
Milk storage vat/silo (on farm)	15.5	13	15.6	8.5
Mixers	15.5	13	15.6	8.5
Packing machinery (vacuum)	10	20	24	13.5
Packing machines (butter)	15.5	13	15.6	8.5
Pasteurisers	15.5	13	15.6	8.5
Pipeline crawler	5	40	48	30
Pipework	15.5	13	15.6	8.5
Powder dryer buildings	15.5	13	15.6	8.5
Presses (butter)	15.5	13	15.6	8.5
Presses (cheese)	15.5	13	15.6	8.5
Refrigeration equipment	15.5	13	15.6	8.5
Retorts	25	8	9.6	6
Scrape surface heat exchangers	12.5	16	19.2	10.5
Separators	12.5	16	19.2	10.5
Sifting plant (casein)	15.5	13	15.6	8.5
Silos	25	8	9.6	6
Tempering bins (casein)	15.5	13	15.6	8.5
Ultrafiltration plant	10	20	24	13.5
Valves	15.5	13	15.6	8.5
Vats	25	8	9.6	6
Washers (bottle)	15.5	13	15.6	8.5
Washers (boxes)	12.5	16	19.2	10.5
Washers (crate)	12.5	16	19.2	10.5

Fishing (see also "Meat and Fish Processing")

Fishing equipment (default class)	20	10	12	7
Alternators (auxiliary)	10	20	24	13.5
Bins (plastic)	5	40	48	30
Compressors (for refrigeration systems)	10	20	24	13.5
Craypots	2	100	100	100
Electronic systems	5	40	48	30
Engines	12.5	16	19.2	10.5
Floodlight systems	3	37	80.4	67
Freezers (Blast)	10	20	24	13.5
Generators (auxiliary)	10	20	24	13.5
Hydraulic systems	5	40	48	30
Icemaking machines	10	20	24	13.5
Inflatable pipeline plug	3	67	80.4	67
Instrumentation (electronic)	5	40	48	30
Insulation to refrigerated holds	15.5	13	15.6	8.5
Lifejackets	4	50	60	40
Life rafts	8	25	30	17.5
Nets (fishing) bottom trawl, complete with accessories	1	100	100	100
Nets (fishing) other, complete with accessories	12	100	100	100
Peurulus (baby crayfish) traps	1	100	100	100
Pipeline crawler	5	40	48	30
Piping	10	20	24	13.5
Refrigeration systems	10	20	24	13.5
Safety equipment (other)	4	50	60	40
Vessels (Fishing, non-steel hulled)	20	10	12	7
Vessels (Fishing, steel hulled-over 20m)	15.5	13	15.6	8.5
Vessels (Fishing, steel hulled-under 20m)	20	10	12	7
Winches	10	20	24	13.5
Wire (trawl)	1	100	100	100

Buildings and Structures

Buildings and structures (default class)	50	3	-	2
Aprons (Airports)	50	4	4.8	3
Barns	20	10	12	7
Borewells	20	10	12	7
Bridges (block)	100	2	2.4	1.5
Bridges (brick)	100	2	2.4	1.5
Bridges (concrete)	100	2	2.4	1.5
Bridges (stone)	100	2	2.4	1.5
Bridges (other than block, brick, concrete and stone)	50	4	4.8	3
Buildings (portable)	12.5	13.5	-	8
Buildings with pre-fabricated stressed skin insulation panels	33.3	13.5	-	8
Buildings with reinforced concrete framing	50	3	-	2
Buildings with steel or steel and timber framing	50	3	-	2

Buildings with timber framing	50	3	-	2
Bunkers (concrete)	20	10	12	7
Carparks (building and pads)	50	4	4.8	3
Chemical works	33.3	6	7.2	4
Dams (block)	100	2	2.4	1.5
Dams (brick)	100	2	2.4	1.5
Dams (concrete)	100	2	2.4	1.5
Dams (earth with rock core)	100	2	2.4	1.5
Dams (earth without rock core)	50	4	4.8	3
Dams (stone)	100	2	2.4	1.5
Driveways	50	4	4.8	3
Dykes (earth)	50	4	4.8	3
Fences	20	10	12	7
Fertiliser works	33.3	6	7.2	4
Floating piers	33.3	6	7.2	4
Fowl houses	20	8.5	-	5
Grandstands	50	3	-	2
Hardstandings	50	4	4.8	3
Hot houses (of glass or other excluding PVC)	20	8.5	-	5
Hot houses (of PVC or similar)	12.5	13.5	-	8
Lamp posts (excluding wooden)	25	8	9.6	6
Lamp posts (wooden)	20	10	12	7
Manholes	50	4	4.8	3
Memorials	50	4	4.8	3
Pig houses	20	8.5	-	5
Reservoirs (above ground, concrete)	50	4	4.8	3
Reservoirs (for water, other than concrete or lined earth)	33.3	6	7.2	4
Reservoirs (in-ground, concrete)	100	2	2.4	1.5
Reservoirs (lined earth)	50	4	4.8	3
Retaining walls (concrete)	100	2	2.4	1.5
Retaining walls (wooden)	25	8	9.6	6
Roadways	50	4	4.8	3
Runways for Airports	33.3	6	7.2	4
Saleyards	33.3	6	7.2	4
Shade houses (of glass or other excluding PVC)	20	8.5	-	5
Shade houses (of PVC or similar construction)	12.5	13.5	-	8
Signs (road)	6.66	30	36	21
Signs (street nameplates)	6.66	30	36	21
Stopbanks (of earth construction)	50	4	4.8	3
Swimming pools (in-ground)	33.3	6	7.2	4
Tanneries	33.3	4.5	-	3
Taxiways (airports)	50	4	4.8	3
Towers (for floodlights)	25	8	9.6	6
Tunnels (block)	100	2	2.4	1.5
Tunnels (brick)	100	2	2.4	1.5
Tunnels (concrete)	100	2	2.4	1.5
Tunnels (stone)	100	2	2.4	1.5

Valve chambers and similar	50	4	4.8	3
Wharf tarmac	50	4	4.8	3
Wharves (block)	100	2	2.4	1.5
Wharves (brick)	100	2	2.4	1.5
Wharves (concrete)	100	2	2.4	1.5
Wharves (other than of block, brick, concrete and stone)	50	4	4.8	3
Wharves (stone)	100	2	2.4	1.5
<i>Transportation</i>				
Transportation (default class)	20	10	12	7
Aeroplanes (mechanically propelled, fixed wing, of an unladen weight exceeding 15,000kg, other than helicopters) (residual value has been estimated at 25%)	15	10	12	7
Aeroplanes (mechanically propelled, fixed wing, of an unladen weight not exceeding 15,000kg, other than helicopters) (residual value has been estimated at 25%)	15	10	12	7
Aeroplanes (top dressing and spraying) and specialised attachments	10	20	24	13.5
Airport runways	33.3	6	7.2	4
Airships	12.5	16	19.2	10.5
Ambulances	12.5	16	19.2	10.5
Animal-drawn vehicles	20	10	12	7
Baggage conveyor systems	15.5	13	15.6	8.5
Baggage imaging machines	8	25	30	17.5
Balloons	12.5	16	19.2	10.5
Barges	20	10	12	7
Barriers (electrically operated)	10	20	24	13.5
Bicycles (pedal)	5	40	48	30
Boat lift storage system (inflatable)	8	25	30	17.5
Bulkheads (insulated, removable)	4	50	60	40
Buoys	20	10	12	7
Buses (for transporting people, over 12 seats)	12.5	16	19.2	10.5
Cablecars	20	10	12	7
Campervans	10	20	24	13.5
Canoes	10	20	24	13.5
Caravans	12.5	16	19.2	10.5
Chairlifts	20	10	12	7
Coaches (for transporting people, over 12 seats)	12.5	16	19.2	10.5
Concrete trucks	12.5	16	19.2	10.5
Containers (Insulated, below 8 m ³)	5	40	50	30
Containers (shipping)	20	10	12	7
Cranes	see asset category: "Lifting"			
Dirigibles	12.5	16	19.2	10.5
Dredges	20	10	12	7
Drilling platforms	20	10	12	7

Dump trucks	15.5	13	15.6	8.5
Ferries	20	10	12	7
Fire boats	25	8	9.6	6
Fire engines	20	10	12	7
Floating docks	25	8	9.6	6
Forklift trucks (8 tonnes and over)	12.5	16	19.2	10.5
Forklift trucks (8 tonnes and over used for short-term hire)	8	25	30	17.5
Forklift trucks (under 8 tonnes used for short-term hire)	6.66	30	36	21
Forklift trucks (under 8 tonnes)				
Freight cars (rail)	25	8	9.6	6
Freight cars (tramway)	25	8	9.6	6
Funicular railways	20	10	12	7
Gliders	12.5	16	19.2	10.5
Gondolas and the like	20	10	12	7
Gyrocopters	3	67	80.4	67
Hang gliders	3	67	80.4	67
Helicopters	20	10	12	7
Horse floats	20	10	12	7
Hovercraft	12.5	16	19.2	10.5
Inflatable boats	8	25	30	17.5
Inflatable rafts	8	25	30	17.5
Jetboats	10	20	24	13.5
Jetskis	5	40	48	30
Lifeboats (excluding inflatable)	15.5	13	15.6	8.5
Lifejackets and the like	4	50	60	40
Locomotives (diesel)	25	8	9.6	6
Locomotives (electric)	25	8	9.6	6
Locomotives (steam)	25	8	9.6	6
Maintenance cars (rail)	25	8	9.6	6
Maintenance cars (tramway)	25	8	9.6	6
Metal detectors	8	25	30	17.5
Metal speed humps	5	40	48	30
Microlites	3	67	80.4	67
Military type vehicles	15.5	13	15.6	8.5
Minibuses (up to and including 12 seats) (residual value has been estimated at 25%)	5	30	36	21
Monorail vehicles	15.5	13	15.6	8.5
Mopeds	6.66	30	36	21
Motor launches	20	10	12	7
Motor scooters	6.66	30	36	21
Motor vehicles, (for transporting people, up to and including 12 seats) (residual value has been estimated at 25%)	5	30	36	21

Motor vehicles (for transporting people, up to and including 12 seats and used for short-term hire)	4	50	60	40
Motor vehicles, class NA (for transporting light goods, that have a gross vehicle mass not exceeding 3.5 tonnes)	10	20	12	13.5
Motor Vehicles – class NA (for transporting light goods, that have a gross vehicle mass not exceeding 3.5 tonnes and used for short-term hire)	6.6	30	36	21
Motor vehicles, class NB (for transporting medium goods, that have a gross vehicle mass exceeding 3.5 tonnes but not exceeding 12 tonnes)	12.5	16	19.2	10.5
Motor vehicles – class NB (for transporting medium goods, that have a gross vehicle mass exceeding 3.5 tonnes but not exceeding 12 tonnes and used for short-term hire)	8	25	30	17.5
Motor vehicles, class NC (for transporting heavy goods, that have a gross vehicle mass exceeding 12 tonnes)	10	20	24	13.5
Motor vehicles – class NC (for transporting heavy goods, that have a gross vehicle mass exceeding 12 tonnes and used for short-term hire)	6.6	30	36	21
Motorcycles	6.66	30	36	21
Outboard motors	5	40	48	30
Pallet covers (insulated)	2	100	100	100
Parachutes	3	67	80.4	67
Pleasure vessels	15.5	13	15.6	8.5
Radar navigational signalling equipment	10	20	24	13.5
Radar navigational traffic control equipment	10	20	24	13.5
Railway jiggers	20	10	12	7
Road signs	6.66	30	36	21
Roll-on/roll-off vessels	20	10	12	7
Roof racks	5	40	48	30
Rowing boats	15.5	13	15.6	8.5
Rubbish trucks	12.5	16	19.2	10.5
Ship loading and unloading equipment (not elsewhere specified)	15.5	13	15.6	8.5
Ships (bulk carrier)	20	10	12	7
Ships (cargo)	25	8	9.6	6
Ships (container)	20	10	12	7
Ships (cruise)	25	8	9.6	6
Ships (livestock)	20	10	12	7
Ships (refrigerated)	20	10	12	7
Ships (tanker)	20	10	12	7
Sidecars	6.66	30	36	21

Signs (street nameplates)	6.66	30	36	21
Small boats	15.5	13	15.6	8.5
Special Purpose Vehicles	12.5	16	19.2	10.5
Straddle carriers	15.5	13	15.6	8.5
Street furniture (excluding signs)	5	40	48	30
Taxis (up to and including 12 seats) (residual value has been estimated at 25%)	5	30	36	21
Towing tractors	15.5	13	15.6	8.5
Tracklayers	15.5	13	15.6	8.5
Tracks (monorail)	25	8	9.6	6
Tracks (rail)	25	8	9.6	6
Traction batteries	5	40	48	30
Traction engines	25	8	9.6	6
Tractors (farm type)	15.5	13	15.6	8.5
Traffic lights	12.5	16	19.2	10.5
Trailers – classes TA and TB (for transporting very light and light goods, that have a gross vehicle mass not exceeding 3.5 tonnes) excluding domestic type trailers	15.5	13	15.6	8.5
Trailers – classes TA and TB (for transporting very light and light goods, that have a gross vehicle mass not exceeding 3.5 tonnes and used for short-term hire) excluding domestic type trailers	10	20	24	13.5
Trailers – class TC (for transporting medium goods, that have a gross vehicle mass exceeding 3.5 tonnes but not exceeding 10 tonnes)	20	10	12	7
Trailers - class TC (for transporting medium goods, that have a gross vehicle mass exceeding 3.5 tonnes but not exceeding 10 tones and used for short-term hire)	12.5	16	19.2	10.5
Trailers – class TD (for transporting heavy goods, that have a gross vehicle mass exceeding 10 tonnes)	15.5	13	15.6	8.5
Trailers – class TD (for transporting heavy goods, that have a gross vehicle mass exceeding 10 tonnes and used for short-term hire)	10	20	24	13.5
Trailer, domestic type (not exceeding 1 tonne-rated carrying capacity)	8	25	30	17.5
Trailer, domestic type (not exceeding 1 tonne-rated used for short-term hire)	6.66	30	36	21
Tram tracks	20	10	12	7
Tram wires	20	10	12	7
Tricycles (pedal)	5	40	48	30
Trolley bus wires	20	10	12	7
Trolley buses	15.5	13	15.6	8.5

Tugs	25	8	9.6	6
Tyre Chains	3	67	80.4	67
Vehicles (road going) (not elsewhere specified)	15.5	13	15.6	8.5
Vending machines (for tickets)	8	25	30	17.5
Windsurfers	3	67	80.4	67
Yachts (international ocean-going)	6	15	18	10
Yachts (other than international ocean-going)	15.5	13	15.6	8.5

4.15.9 'Old' Schedule of Rates of Depreciation

These rates are applicable from the 1993/94 income year.

- Note:** DV is the Diminishing Value rate.
 DV+ is the loaded interim rate of 1.25 times the Diminishing Value rate, where applicable.
 SL is the Straight Line rate (or Cost Price method).
 SL+ is the loaded interim rate of 1.25 times the Straight Line rate, where applicable.
 SV denotes Standard Value as agreed by IRD.
 * denotes the option of replacement value, annual revaluation or standard value.
Bold indicates the method to be used for income years 1992-93 and earlier.

	DV	DV+	SL	SL+
Agricultural plant and equipment:				
Tractor drawn implements	10	12.5	7	8.5
Self propelled equipment	20	25	13.5	17.5
Aircraft:				
Fixed wing agricultural aerial work aircraft, including wing attachments for spraying, dusting and distributing seed:	33	41.4	24	31
Helicopters from and including year ended 31 March 1969				
- Airframe, engine, rotor system	25	31.3	17.5	22
- Spraying tanks and attached spraying mechanism	33.3	41.7	24	32
Barns:				
Simple loafing barns	15		10	
Wintering barns all types of construction	15		10	
Beehives	*			
Boats - see Vessels				
Boilers	10	12.5	7	8.5
Bores and wells	*			
Bridges:				
Wooden	3	4	2.5	3.1
Others	2.5	3	2	2.5
Buildings:				
Reinforced concrete, steel or reinforced concrete framed with brick walls or permanent materials.	1		1	
Brick, stone or concrete walled without steel or reinforced concrete frame, stucco, steeltex or other similar construction with wooden frame.	2.5		2	
Wooden framed - not specified elsewhere.	3		2.5	
Affected by acid fumes - vinegar manufacturers, fertiliser works, bulk fertiliser stores, chemical works, tanneries.	6		4	

Portable huts	10		7	
‘Temporary Buildings’	10		7	
Bulk lime spreaders	10	12.5	7	8.5
Bulldozers:				
General	20	25	13.5	17.5
Earthmoving contractors	25	31.3	17.5	22
Cars and Trucks:				
Rental	25	31.2	17.5	22
Other	20	25	13.5	17.5
Chainsaws	50	62.5	40	51
Cloches	*			
Compressors:				
Portable	15	18.8	10	13
Fixed	10	12.5	7	8.5
Computers	20	25	13.5	17.5
Concrete mixers	15	18.8	10	13
Effluent Disposal units on farms or Development expenditure	10	12.5	7	8.5
Electric test equipment	20	25	13.5	17.5
Electronic scales	20	25	13.5	17.5
Ensilage pits - concrete walls with sliding roof	10	12.5	7	8.5
Feeding out units for cattle - all types of construction	6	7	4	5
Fences:				
Electric	10	12.5	7	8.5
Others		Maintenance		
Fire fighting plant and equipment:				
Reservoir	1	2	1	1.3
Ring main and hydrants	1	2	1	1.3
Breathing apparatus, hoses, pipelines, pumps and diesel engines	10	12.5	7	8.5
Axes, ladders, blankets and fire extinguishers costing less than \$100 each	*			
Fish processing buildings	6		4	
Fish processing plant	15	18.8	10	13
Fishing boats and gear - see Vessels				
Fork lifts	20	25	13.5	17.5
Freezers and cookers for preparation and storage of dog meat	10	12.5	7	8.5
Fowl houses - see poultry				
Frost protection plant - pumping unit, sprinklers, standards and pipelines	10	12.5	7	8.5
Fuel tanks:				
Underground		rate as for buildings		
Gas cylinder containers	S.V.			
Gas water heaters	10	12.5	7	8.5
Glasshouses:				
Wooden framed	7		5	
Metal framed	4		3	

PVC tunnel houses	11		7.5	
Grain drying and storage bins	5	6.3	3.5	4
Grain drying plant	10	12.5	7	8.5
Grain - portable silos - see silos				
Hay balers	20	25	13.5	17.5
Header harvesters	20	25	13.5	17.5
Heating systems	10	12.5	7	8.5
Helicopters - see aircraft				
Hop frames	*			
Hop kilns	15	18.8	10	13
Incinerators	15	18.8	10	13
Land Improvements - see <i>Section 4.15.3.</i>				
Lawnmowers:				
Motor driven	20	25	13.5	17.5
Others	10	12.5	7	8.5
Lime spreaders bulk	10	12.5	7	8.5
Livestock saleyards - see saleyards				
Loose tools - no single item to exceed \$250 in cost		See Section 4.8.4		
Milking sheds - all types:				
Built before 1 April 1966	6		4	
Built after 1 April 1966	15		10	
Cost of converting to herringbone design after 1 April 1966 -	15		10	
Rotary Herringbone	10	12.5	7	8.5
Motor vehicles, trucks and scooters	20	25	13.5	17.5
Office equipment and machines	20	25	13.5	17.5
Pallets	*			
Pig houses - all types	15		10	
Pipelines		maintenance		
Plant and machinery - except as elsewhere specified:				
General including agricultural plant and implements but not motor vehicles	10	12.5	7	8.5
Plastic pots for tomato growing	S.V.			
Poultry:				
Battery type cages	10	12.5	7	8.5
Colony houses with wooden frames, iron roofs and netting sides and bases	10	12.5	7	8.5
Fowl houses-steel framed	3		2.5	
-wooden framed	7		5	
Saddlery and harnesses	*			
Saleyards:				
Constructed after 1 April 1971	2.5	3	2	2.5
Constructed prior to April 1971 - less than 40 years old.		Spread over remaining years (assumed life of 50 years)		
- 40 years or more		15		10

Additions:				
- if part of an existing yard		Spread over remaining life		
- if virtually a new yard	2.5	3	2	2.5
Saws - chain	50	62.5	40	51
Sawmillers- diesel or petrol tractors, locomotives and power units used for log hauling	20	25	13.5	17.5
Scales and weighing machines				
- mechanical	10	12.5	7	8.5
- electronic	20	25	13.5	17.5
Septic tanks and sewerage systems				As for buildings
Sheep and cattle yards:				
Uncovered yards				See saleyards
Roofed yards				Appropriate building rate
Gratings - fixed				Appropriate building rate
- loose				*
Sheep crates	15	18.8	10	13
Sheep and cattle dips:				
Shower type				
- tanks and pipes	10	12.5	7	8.5
- dip or shower (including pumps)	10	12.5	7	8.5
- electric motor and fitting	10	12.5	7	8.5
Spray type				
- Shed				Appropriate Building rate
- Base (race, floor of dip, two draining pens and sump)				Dev. expenditure
- tanks and pipes, dip including pumps, electric motor and fittings	10	12.5	7	8.5
Silage storage bunkers				Development expenditure and maintenance
Silos - Grain:				
- with built in drying and loading/unloading machinery	10	12.5	7	8.5
- With separate drying, loading/unloading machinery	5	6.3	3.5	4
- if erected on farms	10	12.5	7	8.5
- portable				Cost of replacement or scrapping if abandoned
Slaughterhouse on farms:				
Concrete	7		5	
Timber and concrete	8		6	
Timber	15		10	
Spray plant - orchardists:				
Self propelled and air blast units	20	25	13.5	17.5
Others	10	12.5	7	8.5
Stock food manufacturing plant	15	18.8	10	13
Storage tanks - underground				Appropriate building rate
Tarpaulins				*
Threshing plant	20	25	13.5	17.5

Tomatoes:				
Plastic pots for growing	S.V.			
Structure for shading	2.5	3	2	2.5
Tools	See <i>Section 4.8.4</i>			
Traction engines	10	12.5	7	8.5
Tractors	20	25	13.5	17.5
Trailers	Rate applicable to vehicle by which drawn			
Trickle irrigation equipment in glasshouses	25	31.3	17.5	22
Trucks - see motor trucks				
Tunnel houses P.V.C.	11		7.5	
Underground silage pits - concrete walled with sliding roof	10	12.5	7	8.5
Vessels (Registered for fishing):				
- Hulls including fixed gear and refrigeration rooms	10	12.5	7	8.5
- Deck machinery, winches, and motors	15	18.8	10	13
- Main engines	20	25	13.5	7.5
Wagons, carts and drays	10	12.5	7	8.5
Water towers	Appropriate building rate			
Weighing machines and scales	10	12.5	7	8.5
Wells and water bores *				
Windmills	10	12.5	7	8.5
Wine making industry:				
Tanks and vats				
- stainless steel	10	12.5	7	8.5
- Wooden	10	12.5	7	8.5
- Concrete:				
for fermentation.	10	12.5	7	8.5
for storage	6	7	4	5
Casks and barrels				
- both circulating or storage	S.V.			
Wintering barns - all types of construction	15	18	10	12.5
Wire ropes	*			

4.15.10 Working for Families Tax Credits 2010

FORTNIGHTLY PAYMENTS (1 April 2009 to 31 March 2010)

FAMILY TAX CREDIT and IN-WORK TAX CREDIT

Family tax credit is paid regardless of your source of income. In-work tax credit is for families who normally work a minimum number of hours each week.

FAMILY INCOME (before tax)		NUMBER OF CHILDREN											
		ONE		TWO		THREE		FOUR		FIVE		SIX	
Weekly \$	Annual \$	FTC	IW TC	FTC	IW TC	FTC	IW TC	FTC	IW TC	FTC	IW TC	FTC	IW TC
to 708	36,827	86	60	146	60	206	60	266	75	326	90	386	105
709 to 731	36,828 to 338,000	81	60	141	60	201	60	261	75	321	90	381	105
732 to 760	38,001 to 39,500	76	60	135	60	195	60	255	75	315	90	375	105
761 to 788	39,501 to 41,000	70	60	130	60	190	60	250	75	310	90	370	105
789 to 817	41,001 to 42,500	64	60	124	60	184	60	244	75	304	90	364	105
818 to 846	42,501 to 44,000	58	60	118	60	178	60	238	75	298	90	358	105
847 to 875	44,001 to 45,500	52	60	112	60	172	60	232	75	292	90	352	105
876 to 904	45,501 to 47,000	47	60	107	60	167	60	227	75	287	90	347	105
905 to 933	47,001 to 48,500	41	60	101	60	161	60	221	75	281	90	341	105
934 to 962	48,501 to 50,000	35	60	95	60	155	60	215	75	275	90	335	105
963 to 990	50,001 to 51,500	29	60	89	60	149	60	209	75	269	90	329	105
991 to 1,019	51,501 to 53,000	24	60	84	60	144	60	204	75	264	90	323	105
1,020 to 1,048	53,001 to 54,500	18	60	78	60	138	60	198	75	258	90	318	105
1,049 to 1,077	54,501 to 56,000	12	60	72	60	132	60	192	75	252	90	312	105
1,078 to 1,106	56,001 to 57,500	6	60	66	60	126	60	186	75	246	90	306	105
1,107 to 1,135	57,501 to 59,000	1	60	60	60	120	60	180	75	240	90	300	105
1,136 to 1,163	59,001 to 60,500		55	55	60	115	60	175	75	235	90	295	105
1,164 to 1,192	60,501 to 62,000		49	49	60	109	60	169	75	229	90	289	105
1,193 to 1,221	62,001 to 63,500		43	43	60	103	60	163	75	223	90	283	105
1,222 to 1,250	63,501 to 65,000		37	37	60	97	60	157	75	217	90	277	105
1,251 to 1,279	65,001 to 66,500		32	32	60	92	60	152	75	212	90	272	105
1,280 to 1,308	66,501 to 68,000		26	26	60	86	60	146	75	206	90	266	105
1,309 to 1,337	68,001 to 69,500		20	20	60	80	60	140	75	200	90	260	105
1,338 to 1,365	69,501 to 71,000		14	14	60	74	60	134	75	194	90	254	105
1,366 to 1,394	71,001 to 72,500		9	9	60	69	60	129	75	189	90	248	105
1,395 to 1,423	72,501 to 74,000		3	3	60	63	60	123	75	183	90	243	105
1,424 to 1,452	74,001 to 75,500				57	57	60	117	75	177	90	237	105
1,453 to 1,481	75,501 to 77,000				51	51	60	111	75	171	90	231	105
1,482 to 1,510	77,001 to 78,500				45	45	60	105	75	165	90	225	105
1,511 to 1,538	78,501 to 80,000				40	40	60	100	75	160	90	220	105
1,539 to 1,567	80,001 to 81,500				34	34	60	94	75	154	90	214	105
1,568 to 1,596	81,501 to 83,000				28	28	60	88	75	148	90	208	105
1,597 to 1,625	83,001 to 84,500				22	22	60	82	75	142	90	202	105
1,626 to 1,654	84,501 to 86,000				17	17	60	77	75	137	90	197	105
1,655 to 1,683	86,001 to 87,500				11	11	60	71	75	131	90	191	105
1,684 to 1,712	87,501 to 89,000				5	5	60	65	75	125	90	185	105
1,713 to 1,740	89,001 to 90,500						59	59	75	119	90	179	105
1,741 to 1,769	90,501 to 92,000						54	54	75	114	90	173	105
1,770 to 1,798	92,001 to 93,500						48	48	75	108	90	168	105
1,799 to 1,827	93,501 to 95,000						42	42	75	102	90	162	105
1,828 to 1,856	95,001 to 96,500						36	36	75	96	90	156	105
1,857 to 1,885	96,501 to 98,000						30	30	75	90	90	150	105
1,886 to 1,913	98,001 to 99,500						25	25	75	85	90	145	105

1,914 to 1,942	99,501 to 101,000						19	19	75	79	90	139	105
1,943 to 1,971	101,001 to 102,500						13	13	75	73	90	133	105
1,972 to 2,000	102,501 to 104,000						7	7	75	67	90	127	105
2,001 to 2,029	104,001 to 105,500						2	2	75	62	90	122	105
2,030 to 2,058	105,501 to 107,000								71	56	90	116	105
2,059 to 2,087	107,001 to 108,500								65	50	90	110	105
2,088 to 2,115	108,501 to 110,000								59	44	90	104	105
2,116 to 2,144	110,001 to 111,500								54	39	90	98	105
2,145 to 2,173	111,501 to 113,000								48	33	90	93	105
2,174 to 2,202	113,001 to 114,500								42	27	90	87	105
2,203 to 2,231	114,501 to 116,000								36	21	90	81	105
2,232 to 2,260	116,001 to 117,500								30	15	90	75	105
2,261 to 2,288	117,501 to 119,000								25	10	90	70	105
2,289 to 2,317	119,001 to 120,500								19	4	90	64	105

The rates on the chart are based on your eldest child being under 16 and all other children being under 13. To work out how much you can expect if you have children older than this you will need to:

- add \$8 to the “FTC” amount for each child (other than the eldest) aged 13, 14 or 15
- add \$13 to the “FTC” amount if your eldest child is 16, 17 or 18
- add \$29 to the “FTC” amount for any other child aged 16, 17 or 18

If you are receiving a foster care allowance or an orphan’s benefit, the amounts listed in the chart above may not apply to you. You should contact the IRD on 0800 227 773 to establish your correct entitlement.

FORTNIGHTLY PAYMENTS

MINIMUM FAMILY TAX CREDIT

If your family income is below \$24,493 a year before tax you may also be entitled to this payment.

FAMILY	INCOME (BEFORE TAX)	
Weekly \$	Annual \$	MFTC \$
to 240	to 12,500	395 to 184
241 to 259	12,501 to 13,500	184 to 167
260 to 298	13,501 to 15,500	167 to 136
299 to 336	15,501 to 17,500	136 to 106
337 to 375	17,501 to 19,500	106 to 75
376 to 413	19,501 to 21,500	75 to 45
414 to 451	21,501 to 23,500	45 to 15
452 to 471	23,501 to 24,493	15 to 0

PARENTAL TAX CREDIT

This is a payment for eight weeks after a new baby arrives in your family. You can receive up to \$1,200 (in total) depending on your family income.

FAMILY INCOME (BEFORE TAX)		NUMBER OF CHILDREN (INCLUDING YOUR NEWBORN)					
		ONE	TWO	THREE	FOUR	FIVE	SIX
Weekly \$	Annual \$	PTC \$	PTC \$	PTC \$	PTC \$	PTC \$	PTC \$
to 1,365	to 71,000	150	150	150	150	150	150
1,366 to 1,394	71,001 to 72,500	150	150	150	150	150	150
1,395 to 1,423	72,501 to 74,000	150	150	150	150	150	150
1,424 to 1,452	74,001 to 75,500	147	150	150	150	150	150
1,453 to 1,481	75,501 to 77,000	141	150	150	150	150	150
1,482 to 1,510	77,001 to 78,500	136	150	150	150	150	150
1,511 to 1,538	78,501 to 80,000	130	150	150	150	150	150
1,539 to 1,567	80,001 to 81,500	124	150	150	150	150	150
1,568 to 1,596	81,501 to 83,000	118	150	150	150	150	150
1,597 to 1,625	83,001 to 84,500	112	150	150	150	150	150
1,626 to 1,654	84,501 to 86,000	107	150	150	150	150	150
1,655 to 1,683	86,001 to 87,500	101	150	150	150	150	150
1,684 to 1,712	87,501 to 89,000	95	150	150	150	150	150
1,713 to 1,740	89,001 to 90,500	89	149	150	150	150	150
1,741 to 1,769	90,501 to 92,000	84	144	150	150	150	150
1,770 to 1,798	92,001 to 93,500	78	138	150	150	150	150
1,799 to 1,827	93,501 to 95,000	72	132	150	150	150	150
1,828 to 1,856	95,001 to 96,500	66	126	150	150	150	150
1,857 to 1,885	96,501 to 98,000	61	120	150	150	150	150
1,886 to 1,913	98,001 to 99,500	55	115	150	150	150	150
1,914 to 1,942	99,501 to 101,000	49	109	150	150	150	150
1,943 to 1,971	101,001 to 102,500	43	103	150	150	150	150
1,972 to 2,000	102,501 to 104,000	37	97	150	150	150	150
2,001 to 2,029	104,001 to 105,500	32	92	150	150	150	150
2,030 to 2,058	105,501 to 107,000	26	86	146	150	150	150
2,059 to 2,087	107,001 to 108,500	20	80	140	150	150	150
2,088 to 2,115	108,501 to 110,000	14	74	134	150	150	150
2,116 to 2,144	110,001 to 111,500	9	69	129	150	150	150
2,145 to 2,173	111,501 to 113,000	3	63	123	150	150	150
2,174 to 2,202	113,001 to 114,500		57	117	150	150	150
2,203 to 2,231	114,501 to 116,000		51	111	150	150	150
2,232 to 2,260	116,001 to 117,500		45	105	150	150	150
2,261 to 2,288	117,501 to 119,000		40	100	150	150	150
2,289 to 2,317	119,001 to 120,500		34	94	150	150	150

Rates shown assume you have one new baby. If you have had a multiple birth, please call the IRD on 0800 227 773.

Note: The amounts in the charts are estimates only, and are initial payment amounts which may alter if your circumstances change. If your income is above \$120,500 or you have more than six children, go to www.ird.govt.nz/wff-tax-credits and use the calculator, or call 0800 227 773.

Taxpayers are not permitted to receive the Working For Families Tax Credit and the Independent Earner Tax Credit at the same time.

4.15.11 Amortisation Rates for Listed Horticultural Plants

1. Explanation (Which does not form part of the Determination)

This Determination sets out the amortisation rates (on the basis of diminishing values) for listed horticultural plants as determined by the Commissioner of Inland Revenue and listed in the schedule to this Determination.

2. Reference

This Determination is made pursuant to section 91AAB of the Tax Administration Act 1994.

3. Scope of Determination

This Determination shall apply from the 2004 and subsequent income years. Its application will be supplemented or amended by supplementary Determinations pursuant to subsection 91AAB(4) of the Tax Administration Act 1994.

4. Interpretation

In this Determination, unless the context otherwise requires, expressions used have the same meanings as those in sections DO 4, DO 4B, DO 4C, DO 4D, OB 1 and Schedule 7 of the Income Tax Act 1994 and section 91AAB of the Tax Administration Act 1994 in respect of the 2004 and 2005 income years.

In this Determination, unless the context otherwise requires, expressions used have the same meanings as those in sections DO 4, DO 4B, DO 4C, DO 4D, DO 4E, OB 1 and Schedule 7 of the Income Tax Act 2004 and section 91AAB of the Tax Administration Act 1994 in respect of the 2006 and subsequent income years.

5. Determination

Pursuant to section 91AAB of the Tax Administration Act 1994:

- (a) for the purposes of section 91AAB(1)(a), the types of horticultural plant, tree, vine, bush, cane, or similar plant, as set out in the schedule to this Determination, shall be listed horticultural plants; and
- (b) for the purposes of section 91AAB(1)(b), for the 2004 income year, the banded rate set out in column 1 of Schedule 11 of the Income Tax Act 1994 that is to be used to calculate the diminishing value for each type of listed horticultural plant shall be at the election of the taxpayer either:
 - (i) the amortisation rates as set out in column 2 of the schedule to this Determination; or
 - (ii) 10% (which does not include the 20% loading); and
- (c) for the purposes of section 91AAB(1)(b), for the 2005 income year, for a taxpayer whose return has been furnished on or before 30 June 2005, the banded rate set out in column 1 of Schedule 11 of the Income Tax Act 1994 that is to be used to calculate the diminishing value for each type of listed horticultural plant shall be at the election of the taxpayer either:
 - (i) the amortisation rates as set out in column 2 of the schedule to this Determination; or
 - (ii) 10% (which does not include the 20% loading); and
- (d) for the purposes of section 91AAB(1)(b), for the 2005 income year, for a taxpayer whose return is furnished after 30 June 2005, the banded rate set out in column 1 of Schedule 11 of the Income Tax Act 1994 that is to be used to calculate the diminishing value for each type of listed horticultural plant shall be the amortisation rates as set out in column 2 of the schedule to this Determination; and
- (e) for the purposes of section 91AAB(1)(b), for 2006 and subsequent income years, the banded rate set out in column 1 of Schedule 11 of the Income Tax Act 2004 that is to be used to calculate the diminishing value for each type of listed horticultural plant shall be the amortisation rates as set out in column 2 of the schedule to this Determination.

This Determination is made by me, acting under the delegated authority from the Commissioner of Inland Revenue under section 7 of the Tax Administration Act 1994.

This Determination is signed on the 13th day of May 2005.

Graham Tubb
National Manager (Technical Standards)

SCHEDULE TO DETERMINATION DET 05/01

Amortisation rates for listed horticultural plants

Listed horticultural plant	DV %*	DV% with 20% loading	Estimated useful life of horticultural plant (%)
Berryfruit			
Blueberry	12	14.4	13
Blackcurrant	18	21.6	8
Rubus			
Raspberry	26	31.2	5
Blackberry	15	18.0	10
Boysenberry	15	18.0	10
Loganberry	15	18.0	10
Other Rubus	15	18.0	10
Citrus			
Grapefruit	7.5	9.0	18
Lemon	7.5	9.0	20
Lime	7.5	9.0	20
Mandarin	6	7.2	25
Orange	6	7.2	25
Tangelo	6	7.2	25
Grapes			
Table grapes	7.5	9.0	20
Nuts			
Chestnut	7.5	9.0	20
Hazelnut	6	7.2	26
Walnut	4	4.8	30

* Please note a 20% loading is to be added to the percentage in column 2 to arrive at the total diminishing value amortisation rate available each income year.

Listed horticultural plant	DV %*	DV% with 20% loading	Estimated useful life of horticultural plant (%)
Pipfruit			
Apple	9.5	11.4	15
European pear	7.5	9.0	20
Nashi Asian pear	9.5	11.4	15
Summerfruit			
Apricot	9.5	11.4	15
Cherry	7.5	9.0	20
Plum	9.5	11.4	15
Nectarine	12	14.4	12
Peach	12	14.4	12
Vegetables			
Asparagus	22	26.4	6
Other			
Avocado	7.5	9.0	20
Feijoa	7.5	9.0	18
Hop	15	18.0	10
Kiwifruit	7.5	9.0	20
Olives			
• <500 trees per hectare	7.5	9.0	20
• >500 trees per hectare (typically hedges)	9.5	11.4	15
Passionfruit	33	39.6	4
Persimmon	6	7.2	25
Tamarillo	33	39.6	4

* Please note a 20% loading is to be added to the percentage in column 2 to arrive at the total diminishing value amortisation rate available each income year.

SECTION 5

GIFT DUTY

Contributed by

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Note: Before reading this section, please refer to the disclaimer in the Preface of this Manual.

5.1 INTRODUCTION

A duty is a tax imposed on dispositions of property, or in the case of stamp duty, on instruments that convey or lease an interest in property. Gift duty is levied under the Estate and Gift Duties Act 1968 as amended. Estate duty was abolished in 1992 and stamp duty was abolished in 1999.

5.2 GIFT DUTY

5.2.1 Definitions

A gift is any disposition of property made other than by will, without fully adequate consideration in money or money's worth passing to the donor.

A donor is the person making the gift.

A donee is the person receiving the gift.

‘Consideration’ is what one party in a transaction gives to the other party. The most common form is money, but it could be a promise to do or not to do something, or another form of property. Whatever form is involved, its value is calculated in monetary terms.

A dutiable gift is a gift of property wherever situated that is the subject of a gift made by a donor domiciled in New Zealand or property situated in New Zealand.

‘Disposition of property’ is used in its widest sense to cover any alienation of property, such as any conveyance, transfer, settlement or assignment, including transactions which diminish the value of one estate to the betterment of another. It includes all gifts of property in New Zealand and all gifts of foreign property if the owner is domiciled in New Zealand.

Gift duty is imposed on dutiable gifts made within a 12 month period.

5.2.2 Valuation of Gift

The value of a gift is the monetary value of the property gifted as at the date of the gift, less any consideration paid. The value of land and buildings is determined by agreement between the donor and the Commissioner of Inland Revenue. All other property is at market value as assessed by a competent valuer.

The valuation of an annuity or some other form of future interest is calculated using the present value tables in *Section 5.3.2*.

Example:

A. Friend, aged 45, is gifted an annuity of \$4000 for the remainder of her life.

The present value of \$1 p.a. for the remaining life of a female aged 45 is \$15.60540 (from Table B, page E-14).

The value of this gift is \$62,421.60, calculated as \$4,000 x \$15.60540.

It is important that the correct Table is used, for example, Table A to value a life interest for males, or Table D to value an interest for a specified time.

Date of Valuation

A gift (and any consideration) is valued as at the date the gift is made, which is taken to mean the date at which the donor cannot revoke the gift (i.e. the gift is complete).

Completion dates of common forms of gift

Cash	When physically handed over.
Cheques	Either when the cheque has been given or when the cheque has been cashed. The same basis must be consistently used.
Land	Except where a valid trust is created, the earlier of the dates on which: (a) the instrument of transfer is registered at Land Information New Zealand; or (b) the beneficiary has possession of all the necessary documents needed to register the transfer.
Shares	As for land, except that the instrument of transfer is registered by the company.
Chattels	Where there has been effective delivery of the chattels or there has been a deed of assignment.
Forgiveness of debt	When a legally effective deed of release or forgiveness of debt is completed.

Forgiveness of Debt

The forgiving of a debt has been a traditional feature of estate planning. Under the Accruals tax regime applicable to financial arrangements, the amount forgiven could in some circumstances be assessed for income tax in the hands of the person who owes the debt. Proper drafting of a will or gift deed can avoid the situation where gifts become taxable as income. Professional advice is recommended.

No income tax liability arises where the debt is forgiven (whether in a will or otherwise) by a *natural* person in consideration of 'natural love and affection' towards the person who

owes the debt. Debt forgiveness is confined to family arrangements only. The ‘natural love and affection’ exception also applies if a natural person forgives a debt to a trust that is established primarily to benefit natural persons for whom the creditor has natural love and affection or charities.

5.2.3 Exemptions from Gift Duty

A dutiable gift is any gift that is or may be liable to gift duty. Gifts valued at \$27,000 or less are subject to a nil duty rate. However, certain gifts are specifically excluded from gift duty, and include:

1. Small gifts, not exceeding an aggregate of \$2,000 to the same beneficiary in the same calendar year, are not taken into account if they are made in good faith as part of the normal expenditure of the donor.
2. Gifts made towards the maintenance or education of a relative provided the gift is not excessive having regard to the obligation of the donor.
3. Gifts made to charitable bodies.

Special exemptions including:

- certain superannuation elections.
- contributions by an employer to superannuation fund.
- certain gratuitous payments from employer to employee.
- settlement of a joint family home.
- certain dispositions of relationship property.

5.2.4 Dispositions of Relationship Property

One spouse or partner in a relationship may transfer up to 50% of the relationship property to the other spouse or partner under Section 21 of the Property (Relationships) Act 1976, without giving rise to a liability for gift duty at the time of transfer. Duty will be payable on the value of property which exceeds a 50% share. Transfers of relationship assets between partners or settlements solely for the benefit of minor or dependent children are exempt if made pursuant to a Court Order under Section 25 of the Property (Relationships) Act 1976.

A copy of the agreement which involves the disposition of relationship property must be delivered to the Commissioner within 3 months of the date of disposition.

Relationship property includes property which both partners directly or indirectly contributed to or made use of. Any other property is called ‘separate property’ and is not subject to these rules. However partners can convert separate property to relationship property by including it in a Relationship Property Agreement.

Example:

Before entering into an agreement to dispose of matrimonial property under Section 21 of the Property (Relationships) Act 1976, property was held as follows:

Husband -	Farm	\$600,000
-	Shares	20,000
-	Bank Account	10,000
Wife -	Bank Account	\$15,000

The couple decided to share ownership of the relationship property on a 50:50 basis, and executed an agreement to that effect.

The farm and shares would be regarded as relationship property, whereas the two bank accounts could be regarded as separately owned assets (depending on the circumstances).

The end result of the transfers would be:

Husband -	Bank Account	\$10,000
	- Farm (half share)	300,000
	- Shares (half share)	10,000
Wife -	Bank Account	\$15,000
	- Farm (half share)	300,000
-	Shares (half share)	10,000

The wife, as transferee, does not hold more than 50% of the relationship property after the transfer. Accordingly, there is no liability for gift duty.

5.2.5 Calculation of Gift Duty

Gift duty does not become payable until the value of any dutiable gifts over any twelve month period exceeds \$27,000 in total value. Rates of Gift Duty are detailed in *Section 5.3.1*.

If more than one dutiable gift is made within a twelve month period, the duty is apportioned to each dutiable gift involved in accordance with the following formula:

$$\frac{a}{b} \times c$$

where:

- (a) is the value of the dutiable gift.
- (b) is the total value of this gift and all other dutiable gifts made within twelve months.
- (c) is the amount of gift duty payable on item (b).

It should be noted that the 12 month period is chosen so as to maximise the amount of gift duty payable.

5.2.6 Aggregation of Gifts

It is important to note that although gift duty is charged on each individual dutiable gift, the rate of gift duty charged on any such individual gift depends upon the aggregation of the value of all dutiable gifts made at the same time or within twelve months subsequently or previously by the same donor (not being a gift exempted from duty, e.g. to a charity). The day the gift is made is included in the twelve month period, so that gifts completed on the same day each year cannot be aggregated. Furthermore, all dutiable gifts are aggregated, irrespective of the identity of the recipient (donee).

Example 1:

Gift to A of \$20,000 made on 1 February 2009.

Gift to B of \$15,000 made on 31 January 2010.

These gifts would be aggregated and be liable to gift duty of \$400, even though each gift is below the exemption level of \$27,000. Note that if the gift to B was made on 1 February 2010, no aggregation would occur as the gifts are not within a twelve month period.

Example 2:

Gift to C of \$30,000 made on 1 August 2009 - duty of \$150 paid.

Gift to D of \$15,000 made on 1 January 2010.

These gifts would be aggregated and duty of \$1,350 on the sum of \$45,000 would be payable, less the \$150 already paid.

5.2.7 Assessment and Collection

If the value of a gift exceeds \$12,000 or if the aggregated value of this gift and all other gifts made over the previous twelve months exceeds \$12,000, a Gift Statement (form IR 635) must be delivered to the Commissioner by the donor within three months of making the gift.

A gift statement must always be filed where property is settled under a matrimonial property agreement - refer *Section 5.2.4*.

If the donor fails to deliver the Gift Statement within the specified time, the donee has an extra month to do so.

If gift duty remains unpaid within six months of making a dutiable gift, a late payment penalty of 1% is charged on the day after due date, plus a further 4% if there is still unpaid tax after one week. A further 1% incremental penalty will be charged every month the amount owing remains unpaid. Shortfall penalties can also apply to underpayments of gift duty.

Use of money interest is also calculated on a daily basis on the amount of unpaid or overpaid gift duty, including penalties. Interest does not compound and is not included when penalties are calculated. Interest is not charged or paid on amounts of \$100 or less of underpaid or overpaid gift duty and penalties.

The donor is primarily liable to pay gift duty, but the Inland Revenue can obtain payment from the donee. Unless the terms of the gift provide otherwise, the donee is entitled to recover such duty paid from the donor.

5.2.8 Example of Gift Duty Assessment:

Gift made to D on 14 August 2009 of \$22,000
 Gift made to E on 18 November 2009 of \$22,000
 Gift made to F on 31 January 2010 of \$35,000

Duty assessment is as follows:

14 August 2009

Gift duty payable on gift of \$22,000 to D is zero.

18 November 2009

Gift duty payable on total gifts for previous 12 months (\$44,000) is \$1,250.00

The duty of \$1250 would be apportioned in the following manner:

$$\text{Gift to D } \frac{22,000}{44,000} \times 1250 = \$625.00$$

$$\text{Gift to E } \frac{22,000}{44,000} \times 1250 = \$625.00$$

31 January 2010

Gift duty payable on total gifts for previous 12 months (\$57,000) is \$2,850.

The duty of \$2,850 would be apportioned as follows:

$$\text{Gift to E } \frac{22,000}{57,000} \times 2850 = \$1,100.00$$

less duty already paid	<u>625.00</u>
Duty Payable	<u>475.00</u>

$$\text{Gift to F } \frac{35,000}{57,000} \times 2850 = \$1,750.00$$

Total gift duty payable is:-

Gift to D	\$ 625
Gift to E (625 + 475)	1,100
Gift to F	<u>1,750</u>
\$3,475	<u><u>3,475</u></u>

5.3 APPENDICES

5.3.1 Rates of Gift Duty

Gifts Made On or After 1 April 1984

Value of dutiable gifts made within 12 months	Amount and Rate of Duty
Less than \$27,000	Nil
\$27,001 to \$36,000	\$0 plus 5% of excess over \$27,000
\$36,001 to \$54,000	\$450 plus 10% of excess over \$36,000
\$54,001 to \$72,000	\$2,250 plus 20% of excess over \$54,000
Over \$72,000	\$5,850 plus 25% of excess over \$72,000

5.3.2 Tables for Valuation of Pensions etc. (part 1)

Table A
Present Value of Annuity or Other Interest for Life
of MALE or Expectant on Death of MALE

Years of Age	Expectation of life of male	Present value of \$1 payable for life	Present value of \$1 p.a. on death	Present value of income on capital of \$1
Years		\$	\$	\$
0	68.29	19.28531	0.03573	0.96427
1	69.03	19.31080	0.03446	0.96554
2	68.17	19.28117	0.03594	0.96406
3	67.27	19.24885	0.03756	0.96244
4	66.33	19.21357	0.03932	0.96068
5	65.39	19.17665	0.04117	0.95883
6	64.44	19.13758	0.04312	0.95688
7	63.48	19.09622	0.04519	0.95481
8	62.53	19.05334	0.04733	0.95267
9	61.56	19.00747	0.04963	0.95037
10	60.60	18.95988	0.05201	0.94799
11	59.63	18.90948	0.05453	0.94547
12	58.66	18.85664	0.05717	0.94283
13	57.69	18.80124	0.05994	0.94006
14	56.74	18.74441	0.06278	0.93722
15	55.79	18.68488	0.06576	0.93424
16	54.86	18.62391	0.06880	0.93120
17	53.92	18.55941	0.07203	0.92797
18	53.00	18.49340	0.07533	0.92467
19	52.07	18.42335	0.07883	0.92117
20	51.15	18.35084	0.08246	0.91754
21	50.23	18.27503	0.08625	0.91375
22	49.32	18.19663	0.09017	0.90983
23	48.40	18.11378	0.09431	0.90569
24	47.48	18.02716	0.09864	0.90136
25	46.56	17.93660	0.10317	0.89683
26	45.63	17.84085	0.10796	0.89204
27	44.70	17.74068	0.11297	0.88703
28	43.76	17.63473	0.11826	0.88174
29	42.83	17.52505	0.12375	0.87625
30	41.89	17.40904	0.12955	0.87045

Table A continued

Y	ears	\$	\$	\$
31	40.96	17.28896	0.13555	0.86445
32	40.03	17.16314	0.14184	0.85816
33	39.10	17.03125	0.14844	0.85156
34	38.17	16.89325	0.15534	0.84466
35	37.24	16.74887	0.16256	0.83744
36	36.32	16.59947	0.17003	0.82997
37	35.40	16.44326	0.17784	0.82216
38	34.48	16.27992	0.18600	0.81400
39	33.57	16.11105	0.19445	0.80555
40	32.65	15.93259	0.20337	0.79663
41	31.74	15.74811	0.21259	0.78741
42	30.83	15.55535	0.22223	0.77777
43	29.92	15.35394	0.23230	0.76770
44	29.02	15.14570	0.24271	0.75729
45	28.13	14.92971	0.25351	0.74649
46	27.25	14.70681	0.26466	0.73534
47	26.38	14.47697	0.27615	0.72385
48	25.52	14.24019	0.28799	0.71201
49	24.67	13.99650	0.30018	0.69982
50	23.83	13.74593	0.31270	0.68730
51	23.00	13.48857	0.32557	0.67443
52	22.18	13.22161	0.33892	0.66108
53	21.38	12.95106	0.35245	0.64755
54	20.59	12.67399	0.36630	0.63370
55	19.82	12.39437	0.38028	0.61972
56	19.06	12.10793	0.39460	0.60540
57	18.32	11.81622	0.40919	0.59081
58	17.60	11.52338	0.42383	0.57617
59	16.89	11.22607	0.43870	0.56130
60	16.19	10.92067	0.45397	0.54603
61	15.50	10.60871	0.46959	0.53044
62	14.82	10.29307	0.48535	0.51465
63	14.16	9.97560	0.50122	0.49878
64	13.52	9.65621	0.51719	0.48281
65	12.90	9.34054	0.53297	0.46703
66	12.29	9.01705	0.54915	0.45085
67	11.71	8.70177	0.56491	0.43509
68	11.14	8.38437	0.58078	0.41922
69	10.59	8.06670	0.59666	0.40334
70	10.05	7.75097	0.61245	0.38755

Table A continued

	Years	\$	\$	
71	9.53	7.43320	0.62834	0.37166
72	9.01	7.11396	0.64430	0.35570
73	8.51	6.79196	0.66040	0.33960
74	8.03	6.48255	0.67587	0.32413
75	7.57	6.17217	0.69139	0.30861
76	7.13	5.87436	0.70628	0.29372
77	6.71	5.58028	0.72099	0.27901
78	6.31	5.29600	0.73520	0.26480
79	5.92	5.01599	0.74920	0.25080
80	5.55	4.73990	0.76300	0.23700
81	5.19	4.47126	0.77644	0.22356
82	4.84	4.20411	0.78979	0.21021
83	4.51	3.94555	0.80272	0.19728
84	4.19	3.69482	0.81526	0.18474
85	3.89	3.45545	0.82723	0.17277
86	3.60	3.21687	0.83916	0.16084
87	3.33	2.99474	0.85026	0.14974
88	3.07	2.78084	0.86096	0.13904
89	2.83	2.57640	0.87118	0.12882
90	2.60	2.37771	0.88111	0.11889
91	2.39	2.19631	0.89018	0.10982
92	2.19	2.02354	0.89882	0.10118
93	2.01	1.86805	0.90660	0.09340
94	1.84	1.71429	0.91429	0.08571
95	1.68	1.56916	0.92154	0.07846
96	1.53	1.43311	0.92834	0.07166
97	1.39	1.30612	0.93469	0.06531
98	1.27	1.19728	0.94014	0.05986
99	1.15	1.08844	0.94558	0.05442
100	1.05	0.99773	0.95011	0.04989

5.3.3 Tables for Valuation of Pensions etc. (part 2)

Table B
Present Value of Annuity or Other Interest for Life
of FEMALE or Expectant on Death of FEMALE

Years of Age	Expectation of life of female	Present value of \$1 payable for life	Present value of \$1 p.a. on death	Present value of income on capital of \$1
Years		\$	\$	\$
0	72.43	19.41600	0.02920	0.97080
1	72.90	19.42934	0.02853	0.97147
2	72.05	19.40521	0.02974	0.97026
3	71.12	19.37756	0.03112	0.96888
4	70.18	19.34831	0.03258	0.96742
5	69.23	19.31737	0.03413	0.96587
6	68.26	19.28427	0.03579	0.96421
7	67.30	19.24994	0.03750	0.96250
8	66.33	19.21357	0.03932	0.96068
9	65.35	19.17505	0.04125	0.95875
10	64.37	19.13464	0.04327	0.95673
11	63.39	19.09226	0.04539	0.95461
12	62.41	19.04779	0.04761	0.95289
13	61.42	19.00067	0.04997	0.95003
14	60.44	18.95172	0.05241	0.94759
15	59.47	18.90092	0.05495	0.94505
16	58.50	18.84765	0.05762	0.94238
17	57.53	18.79180	0.06041	0.93959
18	56.56	18.73325	0.06334	0.93666
19	55.60	18.67252	0.06637	0.93363
20	54.64	18.60887	0.06956	0.93044
21	53.67	18.54147	0.07293	0.92707
22	52.71	18.47156	0.07642	0.92358
23	51.75	18.39830	0.08008	0.91992
24	50.79	18.32154	0.08392	0.91608
25	49.83	18.24110	0.08795	0.91205
26	48.87	18.15682	0.09216	0.90784
27	47.92	18.06947	0.09653	0.90347
28	46.96	17.97698	0.10115	0.89885
29	46.01	17.88108	0.10595	0.89405
30	45.06	17.78043	0.11098	0.88902

Table B continued

Years	\$	\$	\$
31 44.11	17.67502	0.11625	0.88375
32 43.16	17.56461	0.12177	0.87823
33 42.21	17.44898	0.12755	0.87245
34 41.26	17.32787	0.13361	0.86639
35 40.32	17.20238	0.13988	0.86012
36 39.38	17.07102	0.14645	0.85355
37 38.44	16.93352	0.15332	0.84668
38 37.50	16.78959	0.16052	0.83948
39 36.57	16.64058	0.16797	0.83203
40 35.64	16.48470	0.17576	0.82424
41 34.71	16.32162	0.18392	0.81608
42 33.79	16.15293	0.19235	0.80765
43 32.88	15.97856	0.20107	0.79893
44 31.97	15.79638	0.21018	0.78982
45 31.06	15.60540	0.21973	0.78072
46 30.17	15.40991	0.22950	0.77050
47 29.29	15.20817	0.23959	0.76041
48 28.41	14.99774	0.25011	0.74989
49 27.54	14.78078	0.26096	0.73904
50 26.68	14.55732	0.27213	0.72787
51 25.82	14.32456	0.28377	0.71623
52 24.98	14.08804	0.29560	0.70440
53 24.14	13.83998	0.30800	0.69200
54 23.31	13.58470	0.32077	0.67923
55 22.49	13.32253	0.33387	0.66613
56 21.67	13.05019	0.34749	0.65251
57 20.87	12.77449	0.36128	0.63872
58 20.08	12.49093	0.37545	0.62455
59 19.30	12.19839	0.39008	0.60992
60 18.53	11.89933	0.40503	0.59497
61 17.77	11.59402	0.42030	0.57970
62 17.02	11.28238	0.43588	0.56412
63 16.28	10.95993	0.45200	0.54800
64 15.56	10.63620	0.46819	0.53181
65 14.84	10.30270	0.48487	0.51513
66 14.14	9.96598	0.50170	0.49830
67 13.45	9.62085	0.51896	0.48104
68 12.77	9.27160	0.53642	0.46358
69 12.11	8.92159	0.55392	0.44608
70 11.46	8.56256	0.57187	0.42813

Table B continued

Years	\$	\$	\$
71 10.83	8.20702	0.58965	0.41035
72 10.22	7.85036	0.60748	0.39252
73 9.63	7.49459	0.62527	0.37473
74 9.07	7.15080	0.64246	0.35754
75 8.53	6.80486	0.65976	0.34024
76 8.01	6.46966	0.67652	0.32348
77 7.52	6.13833	0.69308	0.30692
78 7.05	5.82022	0.70899	0.29101
79 6.59	5.49499	0.72525	0.27475
80 6.16	5.18940	0.74053	0.25947
81 5.74	4.88168	0.75592	0.24408
82 5.34	4.58319	0.77084	0.22916
83 4.96	4.29814	0.78509	0.21491
84 4.59	4.00823	0.79959	0.20041
85 4.24	3.73400	0.81330	0.18670
86 3.91	3.47191	0.82640	0.17360
87 3.60	3.21687	0.83916	0.16084
88 3.31	2.97829	0.85109	0.14891
89 3.04	2.75616	0.86219	0.13781
90 2.78	2.53320	0.87334	0.12666
91 2.54	2.32588	0.88371	0.11629
92 2.32	2.13584	0.89321	0.10679
93 2.12	1.96307	0.90185	0.09815
94 1.93	1.79592	0.91020	0.08980
95 1.75	1.63265	0.91837	0.08163
96 1.59	1.48753	0.92562	0.07438
97 1.45	1.36054	0.93197	0.06803
98 1.31	1.23356	0.93832	0.06168
99 1.19	1.12472	0.94376	0.05624
100 1.07	1.01587	0.94921	0.05079

5.3.4 Tables for Valuation of Pensions etc. (part 3)

Table C
Present Value of Annuity or Other Interest for Widowhood
or Expectant on Termination of Widowhood

Years of Age	Expectation of widowhood	Present value of \$1 p.a. for widowhood	Present value of \$1 payable on termination of widowhood	Present value of income on capital of \$1 for widowhood
Years	Years	\$	\$	\$
Up to 20	7.5	6.12479	0.69376	0.30624
21	8.2	6.59213	0.67039	0.32961
22	8.9	7.04336	0.64783	0.35217
23	9.8	7.59895	0.62005	0.37995
24	10.7	8.13101	0.59344	0.40656
25	11.5	8.58483	0.57076	0.42924
26	12.2	8.96931	0.55153	0.44847
27	12.8	9.28751	0.53562	0.46438
28	13.3	9.54509	0.52275	0.47725
29	13.7	9.74712	0.51264	0.48736
30	14.1	9.94674	0.50266	0.49734
31	14.4	10.09104	0.49545	0.50455
32	14.9	10.33156	0.48342	0.51658
33	15.3	10.51709	0.47415	0.52585
34	15.8	10.74614	0.46269	0.53731
35	16.3	10.96866	0.45157	0.54843
36	16.9	11.23044	0.43848	0.56152
37	17.6	11.52338	0.42383	0.57617
38	18.2	11.76874	0.41156	0.58844
39	18.8	12.00617	0.39969	0.60031
40	19.5	12.27376	0.38631	0.61369
41	20.3	12.56989	0.37151	0.62849
42	20.9	12.78526	0.36074	0.63926
43	21.4	12.95789	0.35211	0.64789
44	21.8	13.09463	0.34527	0.65473
45	22.0	13.16300	0.34185	0.65815
46	22.1	13.19556	0.34022	0.65978
47	22.2	13.22811	0.33859	0.66141
48	22.2	13.22811	0.33859	0.66141
49	22.1	13.19556	0.34022	0.65978
50	22.0	13.16300	0.34185	0.65815

Table C continued

Years Y	ears	\$	\$	\$
51	21.8	13.09463	0.34527	0.65473
52	21.6	13.02626	0.34869	0.65131
53	21.3	12.92370	0.35381	0.64619
54	20.9	12.78526	0.36074	0.63926
55	20.5	12.64168	0.36792	0.63208
56	20.0	12.46221	0.37689	0.62311
57	19.6	12.31145	0.38443	0.61557
58	19.1	12.12301	0.39385	0.60615
59	18.5	11.88745	0.40563	0.59437
60	18.0	11.68959	0.41552	0.58448
61	17.4	11.44028	0.42799	0.57201
62	16.8	11.18681	0.44066	0.55934
63	16.1	10.88140	0.45593	0.54407
64	15.4	10.56290	0.47186	0.52814
65	14.6	10.18725	0.49064	0.50936

For widows 66 years of age or over, the expectations of life and widowhood are deemed to be identical, and Table B applies for both purposes.

5.3.5 Tables for valuation of pensions etc. (part 4)

Table D
Present Value of Annuity or Other Interest for Period
Other Than Life or Expectant on Event Other Than Death

Years	Present value of \$1 per annum for period	Present value of \$1 payable after period	Present value of income on capital of \$1 for period
\$		\$	\$
1	0.95238	0.95238	0.04762
2	1.85941		0.90703
3	2.72325		0.86384
4	3.54595	0.82270	0.17730
5	4.32948		0.78353
6	5.07569		0.74622
7	5.78637	0.71068	0.28932
8	6.46321		0.67684
9	7.10782		0.64461
10	7.72173	0.61391	0.38609
11	8.30641		0.58468
12	8.86325	0.55684	0.44316
13	9.39357	0.53032	0.46968
14	9.89964		0.50507
15	1	0.37966	0.48102
16	1	0.83777	0.45811
17	1	1.27407	0.43630
18	1	1.68959	0.41552
19	1	2.08532	0.39573
20	1	2.46221	0.37689
21	1	2.82115	0.35894
22	1	3.16300	0.34185
23	1	3.48857	0.32557
24	1	3.79864	0.31007
25	1	4.09394	0.29530
26	1	4.37518	0.28124
27	1	4.64303	0.26785
28	1	4.89813	0.25509
29	1	5.14107	0.24295
30	1	5.37245	0.23138

Table D continued

	\$ \$	\$	
31 1	5.59281	0.22036	0.77964
32 1	5.80268	0.20987	0.79013
33 1	6.00255	0.19987	0.80013
34 1	6.19290	0.19035	0.80965
35 1	6.37419	0.18129	0.81871
36 1	6.54685	0.17266	0.82734
37 1	6.71129	0.16444	0.83556
38 1	6.86789	0.15661	0.84339
39 1	7.01704	0.14915	0.85085
40 1	7.15909	0.14205	0.85795
41 1	7.29437	0.13528	0.86472
42 1	7.42321	0.12884	0.87116
43 1	7.54591	0.12270	0.87730
44 1	7.66277	0.11686	0.88314
45 1	7.77407	0.11130	0.88870
46 1	7.88007	0.10600	0.89400
47 1	7.98101	0.10095	0.89905
48 1	8.07716	0.09614	0.90386
49 1	8.16872	0.09156	0.90844
50 1	8.25592	0.08720	0.91280
51 1	8.33898	0.08305	0.91695
52 1	8.41807	0.07910	0.92090
53 1	8.49340	0.07533	0.92467
54 1	8.56514	0.07174	0.92826
55 1	8.63347	0.06833	0.93167
56 1	8.69854	0.06507	0.93493
57 1	8.76052	0.06197	0.93803
58 1	8.81954	0.05902	0.94098
59 1	8.87575	0.05621	0.94379
60 1	8.92929	0.05354	0.94646
61 1	8.98027	0.05099	0.94901
62 1	9.02883	0.04856	0.95144
63 1	9.07508	0.04625	0.95375
64 1	9.11912	0.04404	0.95596
65 1	9.16107	0.04195	0.95805
66 1	9.20102	0.03995	0.96005
67 1	9.23907	0.03805	0.96195
68 1	9.27530	0.03623	0.96377
69 1	9.30981	0.03451	0.96549
70 1	9.34268	0.03287	0.96713

Table D continued

	\$ \$	\$	
71 1	9.37398	0.03130	0.96870
72 1	9.40379	0.02981	0.97019
73 1	9.43218	0.02839	0.97161
74 1	9.45922	0.02704	0.97296
75 1	9.48497	0.02575	0.97425
76 1	9.50949	0.02453	0.97547
77 1	9.53285	0.02336	0.97664
78 1	9.55510	0.02225	0.97775
79 1	9.57628	0.02119	0.97881
80 1	9.59646	0.02018	0.97982
81 1	9.61568	0.01922	0.98078
82 1	9.63398	0.01830	0.98170
83 1	9.65141	0.01743	0.98257
84 1	9.66801	0.01660	0.98340
85 1	9.68382	0.01581	0.98419
86 1	9.69887	0.01506	0.98494
87 1	9.71321	0.01434	0.98566
88 1	9.72687	0.01366	0.98634
89 1	9.73987	0.01301	0.98699
90 1	9.75226	0.01239	0.98761
91 1	9.76406	0.01180	0.98820
92 1	9.77529	0.01124	0.98876
93 1	9.78599	0.01070	0.98930
94 1	9.79618	0.01019	0.98981
95 1	9.80589	0.00971	0.99029
96 1	9.81513	0.00924	0.99076
97 1	9.82394	0.00880	0.99120
98 1	9.83232	0.00838	0.99162
99 1	9.84030	0.00798	0.99202
100 1	9.84791	0.00760	0.99249

SECTION 6

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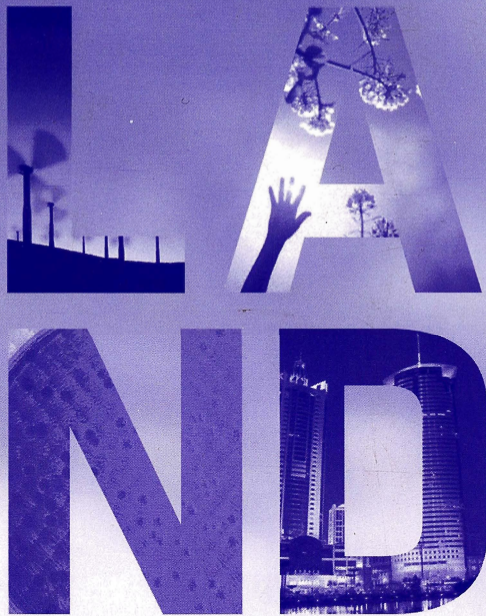
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