

Central Progeny Test Results 2006/2007

MEAT & WOOL
NEW ZEALAND

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KEY :

Sites:	A = Ashley Dene	Years:	98 = 1998/1999 season	03 = 2003/2004 season
	W = Woodlands		99 = 1999/2000 season	04 = 2004/2005 season
	P = Poukawa		00 = 2000/2001 season	05 = 2005/2006 season
			01 = 2001/2002 season	06 = 2006/2007 season
			02 = 2002/2003 season	
BV	Breeding value	GGT21	Facial Eczema	
EMA	Eye Muscle Area	NLB	Number of lambs born	
FEC	Faecal Egg Count	FW12	Fleece weight at 12 months of age	

The results presented in this booklet comprise the top terminal and top dual purpose rams for each index or trait. The CPT Growth Index is based on weaning weight and carcass weight breeding values. The CPT Meat Value Index is based on the breeding values for weight of meat in the leg, loin and shoulder lean as measured by VIAscan.

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INTRODUCTION

Background

A progeny test is used to 'prove' the genetics of a ram by comparing how his progeny perform under the same environmental conditions relative to progeny from other rams. Rams can be compared across different flocks through use of reference sires that create genetic links between flocks. However, there are good reasons to run a progeny test at a central location, usually termed a "central progeny test" (CPT). Reasons include facilitating comparisons of rams that would not normally be made in industry, and the use of novel or expensive measurement methods.

Objectives

The CPT was set up to:

- examine how much industry rams varied in carcass merit, using a sophisticated approach to carcass assessment (i.e. VIAscan)
- demonstrate to industry the extent to which rams varied in the value they could add to farm returns
- improve our understanding of the genetic control of carcass merit and its relationship with other production traits
- foster links between ram breeding groups

The CPT was not set up as a breed comparison, but rather as a **ram** comparison. It has focused on identifying the best genetics regardless of breed. Breed comparisons require testing many randomly selected sires per breed, and with few progeny per sire. The CPT has used a small number of sires, with more progeny per sire, from as many breeds as possible to improve genetic linkage within the New Zealand sheep industry.

Genetic links between breeding groups established through the CPT have been used in large scale evaluations performed across flocks and across breeds by SIL. These are the "ACE" (Advanced Central Evaluation; www.silace.co.nz) evaluations. CPT data has provided the links necessary for this to be undertaken.

History of the CPT

In 2002, the "Alliance CPT" was established at Woodlands, in Southland, with significant funding from the Alliance Group and the collaboration of AgResearch, SIL and Abacus Biotech. Terminal sire and dual purpose rams were sourced from industry and mated to Coopworth or Coopworth-cross ewes. Lambs were assessed for growth rate and carcass merit, making use of Alliance's VIAscan technology for carcass assessment.

In 2003 a second site was established at Ashley Dene in collaboration with Lincoln University. Rams from industry were mated to predominantly Coopworth ewes at both sites. Lambs continued to be assessed for growth rate and carcass merit.

In 2004 terminal sire rams were mated as for the previous two years, but dual purpose rams were mated to sufficient ewes to generate female progeny to be retained for assessment of maternal traits. Surplus females and all male lambs were assessed for growth rate and carcass merit. Funding for the work with female progeny was provided by Meat & Wool New Zealand. In 2005 a third site was established at Poukawa (Hawkes Bay) with On-Farm Research and another round of matings were carried out as specified for 2004.

For 2006 and 2007, matings have been carried out as specified for 2004, and historic weaning and carcass weight data from the Poukawa Elite Lamb programme (1998 to 2004) has been added to the analysis. Funding is now provided by Meat & Wool New Zealand and it is known as the M&WENZ CPT. The results in the following tables include data from all rams evaluated to date. The results are presented as two indexes (CPT Growth and CPT Meat Value index). Individual breeding values are presented for traits of interest.

HOW TO UNDERSTAND THE CPT RESULTS

This booklet contains breeding values and indexes for rams used in the M&WNZ CPT. In addition, rams used in the Elite Lamb programme at Poukawa from 1998 to 2004 have been included for the evaluation of growth. A total of 120 rams have been evaluated to date, and the breeding values for the **top 25 terminal sire and top 25 dual purpose rams** are presented for each trait or index.

A breeding value is an estimate of the animal's true genetic worth, or to put it another way, the value of a parent's genes which can be passed on to its offspring. A breeding value does not necessarily reflect the observed performance of the animal itself because the observed performance is a combination of both the animal's genes and effects of the environment it has been raised in.

All of the breeding values presented here are given as deviations from an average of zero, which means that half of the rams tested will have negative breeding values. Only results of the top ranked rams are presented. To give an example of how to use a breeding value, if a ram has a breeding value of +1.0kg for weaning weight, we would expect the progeny to be 0.5 kg heavier (the ram provides half of the genes) at weaning than the progeny of the average ram in the CPT. Likewise, if a ram has a breeding value of -1.0kg for weaning weight, we would expect his progeny to be 0.5kg lighter than the CPT average. A negative breeding value for weaning weight does not necessarily mean that the ram is poor for growth rate, e.g. many dual purpose rams do not have the high growth rates found in the terminal sire breeds because they have been selected for many other traits. Thus, some of the better dual purpose rams for growth have negative breeding values because higher values are more likely to be for terminal sire rams. The average for each trait presented in the booklet is given at the bottom of the page for reference.

A breeding index is simply a way of adding together the breeding values for a number of traits, but with an economic weighting applied to each breeding value so that the best economic response is achieved. For example, the CPT Growth Index is a combination of the weaning weight and carcass weight breeding values.

CPT breeding values differ from those produced by the Sheep Improvement Ltd (SIL) genetic evaluation system in several ways. Firstly, the CPT collects additional measurements which are not routinely collected in the wider industry. For example, the CPT Meat Value Index is based on the weight of meat in each of the hindleg, loin and shoulder cuts as measured by the VIAscan grading system. Secondly, the breeding values for meat traits are calculated at a fixed carcass weight, whereas in SIL, breeding values are calculated at a fixed age.

For further information on breeding values, indexes and selection, visit the SIL website (www.sil.co.nz). Follow the link to "Technical Information" to find the SIL Users Manual and a number of technical documents.

In previous years, the CPT results have included three indexes, namely the CPT Growth Index, the CPT Meat Value Index and the CPT Meat & Growth Index. This year, the CPT Meat & Growth Index has not been included in the results. This is because the relative value of meat yield and growth rate differs widely between farms. Previously we gave meat yield and growth rate equal weighting in the Meat & Growth Index, but now we leave it up to individual farmers to decide the relative weighting to give each component.

Historical weaning and carcass weight data has been added from the Poukawa Elite Lamb programme making it possible to include these rams in the CPT Growth Index. This is the only table that they occur in, and they are marked with a hash (#) to indicate their source.

The CPT results are also available to download on the M&WNZ website (www.meatandwoolnz.com); follow the links "farming and Research" and then "CPT results", both in booklet form, and as an Excel spreadsheet.

CPT GROWTH INDEX (\$)

Terminal:

Range: -\$1.06 to \$2.92

TAG	Flock	Breed	Sites	Progeny	Growth Index	Rank
4012/99	Bilberry Oaks	Hampshire	W02/03	51	\$2.92	1
514/00	Linton	Poll Dorset	W04	46	\$2.36	2
767/99	Darenal	Dorset Down	A03 P03	14	\$2.31	3
25/99	Tyanee	Suffolk	P01/02/03/04 A04/06 P05/06 W06	504	\$2.27	4
*326/94[#]	Punchbowl	Suffolk	P00/03	69	\$2.26	5
25/02	Glenaven	Hampshire	W04	40	\$2.10	6
430/03	Glengarry	Poll Dorset	A05 P05 W05	123	\$2.00	7
*128/97	Punchbowl	Suffolk	P02 W03	113	\$1.99	8
11/03	Goldstream	Suffolk	P05	24	\$1.98	9
17/02	Tyanee	Suffolk	P06	98	\$1.97	10
447/03	Blackdale	Texel	P06	42	\$1.94	11
120/00	Glendhu	Dorset Down	W03	34	\$1.91	12
35/01	Glengarry	Poll Dorset	A03 P03 W03	39	\$1.79	13
33/02	RBL Rissington	Primera	W04	27	\$1.78	14
299/01	Ohio	Poll Dorset	P03/04 A04	70	\$1.76	15
*419/96	Punchbowl	Suffolk	P01 W02	49	\$1.67	16
400/00	Brandes Burton	Texel	W02/04	63	\$1.58	17
9/03	Pahiwi	Suffolk	P05	107	\$1.55	18
106/99	Ohio	Poll Dorset	P01 W02	89	\$1.53	19
X0050/87	Sheepac	Oxford	W03	31	\$1.50	20
44/02	WTD	Texel	P05	49	\$1.48	21
61/04	Twin Farm	Suffolk	W06	30	\$1.44	22
211/98	Kurralea	Poll Dorset	P00 W02	66	\$1.43	23
81/99 [#]	Glengarry	Poll Dorset	P01	49	\$1.43	24
31/02	Kaya Dorper	Dorper	A05	57	\$1.43	25
191/04	Winiata	Dorset Down	P05	93	\$1.40	26
911/99	Murray Downs	Texel	W03	31	\$1.39	27
176/03	Totaranui	Dorset Down	P06	74	\$1.38	28
68/01[#]	Glengarry	Poll Dorset	P04	29	\$1.30	29
263/95 [#]	Aorere	Poll Dorset	P98/99/00/01/02/03	318	\$1.29	30

* This index is a terminal sire growth index based on weaning and carcass weight breeding values.

These rams were evaluated in the M&WNZ Elite Lamb programme at Poukawa (1998-2004) and only appear in the CPT Growth Index since detailed carcass information was not available on their progeny

CPT GROWTH INDEX (\$)

Dual Purpose:

Range: -\$3.45 to \$1.98

TAG	Flock	Breed	Sites	Progeny	Growth Index	Rank
B40/94[#]	Silverstream	East Friesian	P99 P00	85	\$1.98	1
2165/97	Wairere	Romney	W02 W03 A04	87	\$0.81	2
232/01	TRIGG	Romney	W03	20	\$0.54	3
1082/02 [#]	Ngaputahi	Growbulk	P04	29	\$0.22	4
426/99	Mt Guardian	Perendale	W03	22	\$0.11	5
55/01	Bonnieview	Perendale	W05	20	\$0.05	6
627/01	Totaranui	Romney	A06	72	-\$0.06	7
300/03	MNCC	Coopworth	W05	27	-\$0.13	8
18/04	White Rock	Corriedale	A06	72	-\$0.24	9
183/02 [#]	Riverrun	Romney	P04	29	-\$0.24	10
542/04	Hazeldale	Perendale	W06	29	-\$0.25	11
172/02	Glen Rannoch	Perendale	A04	34	-\$0.25	12
5093/99	Meadowslea	Romney	A03	22	-\$0.26	13
493/00	Hazeldale	Perendale	W03	23	-\$0.34	14
835/01	Poukawa	Composite	P05	84	-\$0.35	15
97/02	Raywell	Borderdale	A03 A04	52	-\$0.39	16
781/00	Shoreford	Romney	W03	30	-\$0.40	17
1235/00	Strathblane	Corriedale	A04	30	-\$0.42	18
833/02	Tamlet	Coopworth	W05 W06	55	-\$0.43	19
2135/99	Rosedale	Growbulk	W03	30	-\$0.46	20
5881/95[#]	Lincoln	Coopworth	P99	76	-\$0.47	21
132/01	Kelso	Composite	W03	31	-\$0.49	22
FV092493[#]	Ferndale	Romney	P00	83	-\$0.53	23
531/98	Wharetoa	Coopworth	W03	29	-\$0.57	24
NGAIO/02[#]	Ngaio Glen	Romney	P04	21	-\$0.68	25
275/02 [#]	TRIGG	Romney	P04	22	-\$0.74	26
435/98	Kelso	Composite	W02	31	-\$0.76	27
1560/03	The Gree	Greeline	W06	25	-\$0.82	28
1038/98[#]	Lincoln	Coopworth	P02	62	-\$0.83	29
1777/95 [#]	WRIG	Romney	P00	63	-\$0.86	30

* This index is a terminal sire growth index based on weaning and carcass weight breeding values.

These rams were evaluated in the M&WNZ Elite Lamb programme at Poukawa (1998-2004) and only appear in the CPT Growth Index since detailed carcass information was not available on their progeny

CPT MEAT VALUE INDEX (\$)

Terminal:

Range: -\$2.05 to \$3.54

TAG	Flock	Breed	Sites	Progeny	Meat Value Index	Rank
299/00	Waikite	Texel	W02/03	58	\$3.54	1
110/03	Murray Downs	Texel	W05	37	\$2.69	2
XA2/99	The Burn	Texel	W02	22	\$2.47	3
52/04	Mount Linton	Suftex	W06	32	\$2.27	4
299/01	Ohio	Poll Dorset	A04	34	\$2.23	5
114/03	Kepler Supreme	Composite	A05	32	\$2.20	6
911/99	Murray Downs	Texel	W03	31	\$2.12	7
400/00	Brandes Burton	Texel	W02/04	62	\$1.97	8
44/02	WTD	Texel	P05	49	\$1.95	9
1296/03	Mount Linton	Texel Cross	W05	40	\$1.78	10
021/01	Broken Hut	Texel	A03	29	\$1.56	11
77/95	Douglas Downs	Dorset Horn	W02/04	75	\$1.49	12
T369/02	Wharetoa	Composite	A03	28	\$1.48	13
T210/04	Wharetoa	Meatmaker	W06	34	\$1.41	14
70/01	Torresdale	Suffolk	W05	40	\$1.34	15
*128/97	Punchbowl	Suffolk	W03	37	\$1.19	16
447/03	Blackdale	Texel	P06	36	\$1.05	17
5258/01	Mount Linton	Texel	W03	30	\$1.00	18
2002/02	Mount Linton	Texel Cross	A04	34	\$0.97	19
154/99	Ivadene	Poll Dorset	W02	25	\$0.94	20
11/03	Goldstream	Suffolk	P05	23	\$0.92	21
165/00	Torresdale	Suffolk	W02	30	\$0.89	22
25/99	Tyanee	Suffolk	A04/06 P05/06 W06	255	\$0.88	23
263/03	Summerfield	South Suffolk	P05	72	\$0.86	24
65/03	Pahiwi	Suffolk	A06	53	\$0.83	25

Dual Purpose:

Range: -\$3.45 to \$1.45

TAG	Flock	Breed	Sites	Progeny	Meat Value Index	Rank
4203/02	Kelso	Composite	P06	39	\$1.45	1
88/02	TRIGG	Romney	W05	25	\$1.05	2
542/04	Hazeldale	Perendale	W06	29	\$0.84	3
132/01	Kelso	Composite	W03	31	\$0.48	4
435/98	Kelso	Composite	W02	29	\$0.35	5
781/00	Shoreford	Romney	W03	30	\$0.31	6
138/01	Edale	Growbulk	A03	34	\$0.28	7
11/01	Little River	Cheviot	A03 W03	60	\$0.25	8
211/99	Blackdale	Coopworth	W03	29	\$0.22	9
1560/03	The Gree	Greeline	W06	24	\$0.15	10
835/01	Poukawa	Composite	P05	77	\$0.14	11
774/02	Flockton	Perendale	A04	37	\$0.02	12
34/01	Twin Farm	TEFRom	W03/06	51	-\$0.04	13
85/00	Tahakita	Coopworth	W04 A04	75	-\$0.06	14
JL1695/1	WRIG	Romney	P05	35	-\$0.11	15
107/97	Strathblane	Corriedale	A03	15	-\$0.13	16
627/01	Totaranui	Romney	A06	72	-\$0.14	17
97/02	Raywell	Borderdale	A03/04	48	-\$0.14	18
55/01	Bonnieview	Perendale	W05	20	-\$0.16	19
34/02	Wai-Iti Romneys	Romney	P06	24	-\$0.17	20
407/03	TRIGG	Romney	P05	32	-\$0.23	21
172/02	Glen Rannoch	Perendale	A04	34	-\$0.24	22
531/98	Wharetoa	Coopworth	W03	27	-\$0.31	23
1127/95	Awareka	Romney	W03	19	-\$0.36	24
147/01	Tresco	Romney	W05	28	-\$0.47	25

* The relative value for meat in the loin was 4x that of meat in the shoulder and
2x that of meat in the hindleg.

WEANING WEIGHT BV (KG)

Terminal:

Range: -2.13 to 3.42

TAG	Flock	Breed	Sites	Progeny	WWT BV	Rank
4012/99	Bilberry Oaks	Hampshire	W02/03	50	3.42	1
17/02	Tyane	Suffolk	P06	94	3.12	2
514/00	Linton	Poll Dorset	W04	46	3.04	3
X0050/87	Sheepac	Oxford	W03	24	3.02	4
767/99	Darenal	Dorset Down	A03	14	2.89	5
*128/97	Punchbowl	Suffolk	W03	37	2.77	6
25/02	Glenaven	Hampshire	W04	39	2.62	7
25/99	Tyane	Suffolk	A04/06 P05/06 W06	255	2.48	8
9/03	Pahiwi	Suffolk	P05	103	2.26	9
51/00	Trackly	Dorset Down	W02	22	2.19	10
*419/96	Punchbowl	Suffolk	W02	11	2.09	11
11/03	Goldstream	Suffolk	P05	23	2.08	12
77/95	Douglas Downs	Dorset Horn	W02/04	75	2.02	13
35/01	Glengarry	Poll Dorset	A03 W03	37	2.01	14
33/02	RBL Rissington	Primera	W04	27	1.98	15
430/03	Glengarry	Poll Dorset	A05 P05 W05	115	1.92	16
120/00	Glendhu	Dorset Down	W03	33	1.82	17
447/03	Blackdale	Texel	P06	36	1.74	18
176/03	Totaranui	Dorset Down	P06	68	1.70	19
106/99	Ohio	Poll Dorset	W02	45	1.63	20
33/04	Myola	South Suffolk	P06	49	1.58	21
61/04	Twin Farm	Suffolk	W06	30	1.56	22
211/98	Kurrilea	Poll Dorset	W02	28	1.53	23
44/02	WTD	Texel	P05	49	1.47	24
41/00	Tasvic Downs	Southdown	W02	44	1.36	25

Dual Purpose:

Range: -4.56 to 1.67

TAG	Flock	Breed	Sites	Progeny	WWT BV	Rank
232/01	TRIGG	Romney	W03	20	1.67	1
2165/97	Wairere	Romney	W02/03 A04	86	1.13	2
781/00	Shoreford	Romney	W03	30	0.88	3
531/98	Wharetoa	Coopworth	W03	27	0.81	4
833/02	Tamlet	Coopworth	W05/06	54	0.46	5
55/01	Bonnieview	Perendale	W05	20	0.43	6
627/01	Totaranui	Romney	A06	72	0.33	7
97/02	Raywell	Borderdale	A03/04	48	-0.04	8
426/99	Mt Guardian	Perendale	W03	19	-0.11	9
5093/99	Meadowslea	Romney	A03	22	-0.14	10
18/04	White Rock	Corriedale	A06	71	-0.23	11
147/01	Tresco	Romney	W05	28	-0.27	12
88/02	TRIGG	Romney	W05	25	-0.28	13
542/04	Hazeldale	Perendale	W06	29	-0.38	14
4014/96	Waihora	Romney	W04	21	-0.43	15
1832/02	Awareka	Romney	W04 A04	73	-0.44	16
300/03	MNCC	Coopworth	W05	27	-0.50	17
1235/00	Strathblane	Corriedale	A04	30	-0.51	18
435/98	Kelso	Composite	W02	29	-0.52	19
107/97	Strathblane	Corriedale	A03	15	-0.54	20
5828/02	Waihora	Romney	W04	50	-0.58	21
493/00	Hazeldale	Perendale	W03	22	-0.61	22
2135/99	Rosedale	Growbulk	W03	29	-0.66	23
1127/95	Awareka	Romney	W03	19	-0.69	24
835/01	Poukawa	Composite	P05	77	-0.74	25

* The average weaning weight was 29.6kg.

WORMFEC BV (%)

Terminal:

Range: -36.4% to 78.1%

TAG	Flock	Breed	Sites	Progeny	WormFEC BV	Rank
E-140/00	Turnberry	Composite	W02	20	-36.4%	1
299/00	Waikite	Texel	W02/03	58	-36.0%	2
167/02	MEBA	Texel	W04	50	-30.3%	3
61/97	Oringi	Oxford Down	A04	37	-27.2%	4
XA2/99	The Burn	Texel	W02	22	-21.1%	5
X0050/87	Sheepac	Oxford	W03	24	-21.0%	6
110/03	Murray Downs	Texel	W05	37	-20.4%	7
65/03	Pahiwi	Suffolk	A06	53	-16.3%	8
25/99	Tyanee	Suffolk	A04/06 P05/06 W06	255	-14.8%	9
77/95	Douglas Downs	Dorset Horn	W02/04	75	-12.8%	10
106/99	Ohio	Poll Dorset	W02	45	-12.5%	11
62/02	Silverstream	Dorset Down	W05	30	-11.6%	12
78/02	Lincoln	Dorset Down	W04	30	-11.5%	13
T533/01	Wharetoa	Composite	W02/03	51	-11.4%	14
911/99	Murray Downs	Texel	W03	31	-10.0%	15
19/03	Tasvic Downs	Southdown	P05	60	-8.2%	16
120/00	Glendhu	Dorset Down	W03	33	-7.9%	17
57/99	Charleston	Southdown	W02	20	-6.8%	18
154/99	Ivadene	Poll Dorset	W02	25	-4.9%	19
1144/99	Teviotdale	Hampshire	W02	31	-3.7%	20
400/00	Brandes Burton	Texel	W02/04	62	-2.7%	21
33/02	RBL Rissington	Primera	W04	27	-2.3%	22
11/03	Goldstream	Suffolk	P05	23	-1.7%	23
2002/02	Mount Linton	Texel Cross	A04	34	-1.5%	24
767/99	Darenal	Dorset Down	A03	14	-1.4%	25

Dual Purpose:

Range: -42.1% to 85.8%

TAG	Flock	Breed	Sites	Progeny	WormFEC BV	Rank
4014/96	Waihora	Romney	W04	21	-42.1	1
1127/95	Awareka	Romney	W03	19	-40.3	2
722/03	Rose Mains	Perendale	W05	36	-37.9	3
706/00	Lincoln	Coopworth	A03/04/05/06 W03/05/06 P06	251	-35.5	4
1035/02	Newhaven	Perendale	W04	31	-32.8	5
664/98	ARDG Elite	Romney	W03	16	-30.4	6
147/01	Tresco	Romney	W05	28	-28.8	7
850/00	Hillcrest	Perendale	W03	28	-27.9	8
132/01	Kelso	Composite	W03	31	-25.3	9
5093/99	Meadowslea	Romney	A03	22	-23.2	10
300/03	MNCC	Coopworth	W05	27	-23.1	11
1235/00	Strathblane	Corriedale	A04	30	-22.3	12
435/98	Kelso	Composite	W02	29	-18.8	13
407/03	TRIGG	Romney	P05	32	-17.9	14
2135/99	Rosedale	Growbulk	W03	29	-16.3	15
2165/97	Wairere	Romney	W02/03 A04	86	-14.1	16
1560/03	The Gree	Greeline	W06	24	-8.2	17
835/01	Poukawa	Composite	P05	77	-7.4	18
JL1695/1	WRIG	Romney	P05	35	-6.7	19
HG552/02	Clifton	Corriedale	A05	46	-5.5	20
11/01	Little River	Cheviot	A03 W03	60	-5.1	21
457/00	Nithdale	Romney	W06	22	-4.0	22
649/01	Glenbrook	Romney	P06	33	-3.5	23
278/03	MNCC	Coopworth	W06	30	-2.7	24
88/02	TRIGG	Romney	W05	25	-2.7	25

* WormFEC breeding values are expressed as a percentage reduction in eggs shed.

DRESSING PERCENTAGE BV (%)

Terminal:

Range: -1.25% to 2.58%

TAG	Flock	Breed	Sites	Progeny	Dressing % BV	Rank
167/02	MEBA	Texel	W04	50	2.58%	1
299/00	Waikite	Texel	W02/03	58	2.24%	2
110/03	Murray Downs	Texel	W05	37	1.68%	3
XA2/99	The Burn	Texel	W02	22	1.60%	4
400/00	Brandes Burton	Texel	W02/04	62	1.58%	5
458/02	Waikite	Texel	A06	41	1.51%	6
911/99	Murray Downs	Texel	W03	31	1.50%	7
19/03	Tasvic Downs	Southdown	P05	60	1.46%	8
263/03	Summerfield	South Suffolk	P05	72	1.35%	9
26/00	Lincoln	Dorset Down	A03	30	1.30%	10
52/04	Mount Linton	Suftex	W06	32	1.26%	11
226/00	Logan	South Suffolk	A03	30	1.22%	12
78/02	Lincoln	Dorset Down	W04	30	1.19%	13
31/02	Kaya Dorper	Dorper	A05	52	1.01%	14
T210/04	Wharetoa	Meatmaker	W06	34	0.87%	15
5258/01	Mount Linton	Texel	W03	30	0.85%	16
T369/02	Wharetoa	Composite	A03	28	0.74%	17
299/01	Ohio	Poll Dorset	A04	34	0.73%	18
T533/01	Wharetoa	Composite	W02/03	51	0.67%	19
E-140/00	Turnberry	Composite	W02	20	0.66%	20
376/03	Douglas Downs	Dorset Horn	W05	28	0.64%	21
211/98	Kurralea	Poll Dorset	W02	28	0.61%	22
430/03	Glengarry	Poll Dorset	A05 P05 W05	115	0.57%	23
35/01	Glengarry	Poll Dorset	A03 W03	37	0.47%	24
447/03	Blackdale	Texel	P06	36	0.44%	25

Dual Purpose:

Range: -1.92% to 1.68%

TAG	Flock	Breed	Sites	Progeny	Dressing % BV	Rank
1560/03	The Gree	Greeline	W06	24	1.68%	1
132/01	Kelso	Composite	W03	31	1.59%	2
11/01	Little River	Cheviot	A03 W03	60	1.35%	3
300/03	MNCC	Coopworth	W05	27	0.81%	4
1035/02	Newhaven	Perendale	W04	31	0.76%	5
850/00	Hillcrest	Perendale	W03	28	0.63%	6
172/02	Glen Rannoch	Perendale	A04	34	0.53%	7
138/01	Edale	Growbulk	A03	34	0.50%	8
706/00	Lincoln	Coopworth	A03/04/05/06 W03/05/06 P06	251	0.44%	9
85/00	Tahakita	Coopworth	W04 A04	75	0.38%	10
774/02	Flockton	Perendale	A04	37	0.24%	11
HG552/02	Clifton	Corriedale	A05	46	0.19%	12
4203/02	Kelso	Composite	P06	39	0.16%	13
2135/99	Rosedale	Growbulk	W03	29	0.15%	14
JL1695/1	WRIG	Romney	P05	35	0.12%	15
278/03	MNCC	Coopworth	W06	30	0.10%	16
649/01	Glenbrook	Romney	P06	33	0.04%	17
34/01	Twin Farm	TEFRom	W03/06	51	0.01%	18
457/00	Nithdale	Romney	W06	22	0.00%	19
664/98	ARDG Elite	Romney	W03	16	-0.09%	20
435/98	Kelso	Composite	W02	29	-0.23%	21
627/01	Totaranui	Romney	A06	72	-0.32%	22
426/99	Mt Guardian	Perendale	W03	19	-0.33%	23
493/00	Hazeldale	Perendale	W03	22	-0.34%	24
542/04	Hazeldale	Perendale	W06	29	-0.39%	25

** Breeding values are expressed as the percentage improvement in dressing percentage. The average pre- and post-weaning dressing percentages were 44.7% and 42.8%, respectively.*

EYE MUSCLE AREA BV (cm²)

Terminal:

Range: -1.17. to 3.40

TAG	Flock	Breed	Sites	Progeny	EMA BV	Rank
299/00	Waikite	Texel	W02/03	58	3.40	1
299/01	Ohio	Poll Dorset	A04	34	3.04	2
114/03	Kepler Supreme	Composite	A05	32	2.78	3
2002/02	Mount Linton	Texel Cross	A04	34	2.72	4
106/99	Ohio	Poll Dorset	W02	45	2.26	5
33/02	RBL Rissington	Primera	W04	27	1.92	6
021/01	Broken Hut	Texel	A03	29	1.88	7
T210/04	Wharetoa	Meatmaker	W06	34	1.87	8
77/95	Douglas Downs	Dorset Horn	W02/04	75	1.74	9
65/03	Pahiwi	Suffolk	A06	53	1.67	10
19/03	Tasvic Downs	Southdown	P05	60	1.56	11
458/02	Waikite	Texel	A06	41	1.56	12
430/03	Glengarry	Poll Dorset	A05 P05 W05	115	1.54	13
80/03	Silverhope	Poll Dorset	P06	42	1.45	14
T533/01	Wharetoa	Composite	W02/03	51	1.43	15
78/02	Lincoln	Dorset Down	W04	30	1.35	16
*128/97	Punchbowl	Suffolk	W03	37	1.30	17
110/03	Murray Downs	Texel	W05	37	1.30	18
XA2/99	The Burn	Texel	W02	22	1.29	19
400/00	Brandes Burton	Texel	W02/04	62	1.24	20
211/98	Kurralea	Poll Dorset	W02	28	1.11	21
447/03	Blackdale	Texel	P06	36	1.08	22
9/03	Pahiwi	Suffolk	P05	103	1.07	23
263/03	Summerfield	South Suffolk	P05	72	1.04	24
154/99	Ivadene	Poll Dorset	W02	25	1.04	25

Dual Purpose:

Range: -3.23 to 2.26

TAG	Flock	Breed	Sites	Progeny	EMA BV	Rank
1560/03	The Gree	Greeline	W06	24	2.26	1
138/01	Edale	Growbulk	A03	34	0.92	2
1127/95	Awareka	Romney	W03	19	0.57	3
542/04	Hazeldale	Perendale	W06	29	0.52	4
722/03	Rose Mains	Perendale	W05	36	0.49	5
85/00	Tahakita	Coopworth	W04 A04	75	0.41	6
107/97	Strathblane	Corriedale	A03	15	0.41	7
426/99	Mt Guardian	Perendale	W03	19	0.27	8
300/03	MNCC	Coopworth	W05	27	0.11	9
11/01	Little River	Cheviot	A03 W03	60	0.10	10
JL1695/1	WRIG	Romney	P05	35	0.09	11
4203/02	Kelso	Composite	P06	39	0.09	12
435/98	Kelso	Composite	W02	29	0.03	13
850/00	Hillcrest	Perendale	W03	28	-0.10	14
781/00	Shoreford	Romney	W03	30	-0.16	15
55/01	Bonnieview	Perendale	W05	20	-0.20	16
664/98	ARDG Elite	Romney	W03	16	-0.26	17
1002/03	Mt Guardian	Perendale	W06	26	-0.37	18
833/02	Tamlet	Coopworth	W05/06	54	-0.38	19
2165/97	Wairere	Romney	W02/03 A04	86	-0.39	20
4014/96	Waihora	Romney	W04	21	-0.43	21
278/03	MNCC	Coopworth	W06	30	-0.46	22
5828/02	Waihora	Romney	W04	50	-0.51	23
531/98	Wharetoa	Coopworth	W03	27	-0.52	24
835/01	Poukawa	Composite	P05	77	-0.53	25

* The average eye muscle area was 11.7cm².

MEAT COLOUR BV (a*)

Terminal:

Range: -2.29. to 1.09

TAG	Flock	Breed	Sites	Progeny	Meat Colour BV	Rank
33/04	Myola	South Suffolk	P06	49	1.09	1
T369/02	Wharetoa	Composite	A03	28	1.08	2
41/00	Tasvic Downs	Southdown	W02	44	0.97	3
767/99	Darenal	Dorset Down	A03	14	0.68	4
57/99	Charleston	Southdown	W02	20	0.67	5
1144/99	Teviotdale	Hampshire	W02	31	0.66	6
5258/01	Mount Linton	Texel	W03	30	0.63	7
19/03	Tasvic Downs	Southdown	P05	60	0.63	8
9/03	Pahiwi	Suffolk	P05	103	0.55	9
77/02	Mapua	Southdown	A04	51	0.51	10
231/97	Bankhead	Southdown	A05	44	0.50	11
11/03	Goldstream	Suffolk	P05	23	0.49	12
021/01	Broken Hut	Texel	A03	29	0.44	13
176/03	Totaranui	Dorset Down	P06	68	0.32	14
167/02	MEBA	Texel	W04	50	0.30	15
376/03	Douglas Downs	Dorset Horn	W05	28	0.27	16
33/02	RBL Rissington	Primera	W04	27	0.24	17
U33/97	Mornish	Suffolk	W02	15	0.14	18
26/00	Lincoln	Dorset Down	A03	30	0.11	19
400/00	Brandes Burton	Texel	W02/04	62	0.11	20
T533/01	Wharetoa	Composite	W02/03	51	-0.01	21
52/04	Mount Linton	Suftex	W06	32	-0.02	22
458/02	Waikite	Texel	A06	41	-0.04	23
226/00	Logan	South Suffolk	A03	30	-0.06	24
2002/02	Mount Linton	Texel Cross	A04	34	-0.09	25

Dual Purpose:

Range: -1.87. to 1.92

TAG	Flock	Breed	Sites	Progeny	Meat Colour BV	Rank
JL1695/1	WRIG	Romney	P05	35	1.92	1
34/02	Wai-iti Romneys	Romney	P06	24	1.68	2
1832/02	Awareka	Romney	W04 A04	73	1.59	3
88/02	TRIGG	Romney	W05	25	1.45	4
HG552/02	Clifton	Corriedale	A05	46	1.29	5
1127/95	Awareka	Romney	W03	19	1.15	6
781/00	Shoreford	Romney	W03	30	1.02	7
107/97	Strathblane	Corriedale	A03	15	1.00	8
422/00	Wattlebank	Corriedale	A04 A05	76	0.90	9
493/00	Hazeldale	Perendale	W03	22	0.87	10
1560/03	The Gree	Greeline	W06	24	0.85	11
1235/00	Strathblane	Corriedale	A04	30	0.81	12
4014/96	Waihora	Romney	W04	21	0.76	13
649/01	Glenbrook	Romney	P06	33	0.69	14
1035/02	Newhaven	Perendale	W04	31	0.68	15
531/98	Wharetoa	Coopworth	W03	27	0.63	16
458/01	View Hill	Romney	W03	30	0.61	17
5828/02	Waihora	Romney	W04	50	0.58	18
147/01	Tresco	Romney	W05	28	0.57	19
278/03	MNCC	Coopworth	W06	30	0.53	20
97/02	Raywell	Borderdale	A03 A04	48	0.53	21
627/01	Totaranui	Romney	A06	72	0.52	22
172/02	Glen Rannoch	Perendale	A04	34	0.50	23
211/99	Blackdale	Coopworth	W03	29	0.49	24
407/03	TRIGG	Romney	P05	32	0.47	25

** Breeding values are expressed as the increase in redness of the meat (a*; high values are red and low values are brown). The average was 18.6.*

FAT COLOUR BV (b*)

Terminal:

Range: -3.69 to 3.39

TAG	Flock	Breed	Sites	Progeny	Fat Colour BV	Rank
447/03	Blackdale	Texel	P06	36	-3.69	1
31/02	Kaya Dorper	Dorper	A05	52	-2.86	2
X0050/87	Sheepac	Oxford	W03	24	-2.69	3
11/03	Goldstream	Suffolk	P05	23	-2.14	4
E-140/00	Turnberry	Composite	W02	20	-2.13	5
154/99	Ivadene	Poll Dorset	W02	25	-1.98	6
T369/02	Wharetoa	Composite	A03	28	-1.89	7
430/03	Glengarry	Poll Dorset	A05 P05 W05	115	-1.84	8
61/97	Oringi	Oxford Down	A04	37	-1.83	9
1144/99	Teviotdale	Hampshire	W02	31	-1.79	10
70/01	Torresdale	Suffolk	W05	40	-1.78	11
1296/03	Mount Linton	Texel Cross	W05	40	-1.77	12
17/02	Tyane	Suffolk	P06	94	-1.72	13
T210/04	Wharetoa	Meatmaker	W06	34	-1.62	14
*128/97	Punchbowl	Suffolk	W03	37	-1.45	15
65/03	Pahiwi	Suffolk	A06	53	-1.39	16
106/99	Ohio	Poll Dorset	W02	45	-1.33	17
514/00	Linton	Poll Dorset	W04	46	-1.28	18
299/01	Ohio	Poll Dorset	A04	34	-1.27	19
4012/99	Bilberry Oaks	Hampshire	W02/03	50	-1.26	20
021/01	Broken Hut	Texel	A03	29	-1.21	21
XA2/99	The Burn	Texel	W02	22	-1.18	22
44/02	WTD	Texel	P05	49	-1.10	23
19/03	Tasvic Downs	Southdown	P05	60	-1.10	24
767/99	Darenal	Dorset Down	A03	14	-0.93	25

Dual Purpose:

Range: -2.34 to 5.92

TAG	Flock	Breed	Sites	Progeny	Fat Colour BV	Rank
1235/00	Strathblane	Corriedale	A04	30	-2.34	1
JL1695/1	WRIG	Romney	P05	35	-2.03	2
34/01	Twin Farm	TEFRom	W03/06	51	-1.62	3
107/97	Strathblane	Corriedale	A03	15	-1.45	4
34/02	Wai-iti Romneys	Romney	P06	24	-1.41	5
649/01	Glenbrook	Romney	P06	33	-1.31	6
774/02	Flockton	Perendale	A04	37	-1.30	7
55/01	Bonnieview	Perendale	W05	20	-1.22	8
1035/02	Newhaven	Perendale	W04	31	-0.99	9
88/02	TRIGG	Romney	W05	25	-0.99	10
1002/03	Mt Guardian	Perendale	W06	26	-0.95	11
300/03	MNCC	Coopworth	W05	27	-0.92	12
138/01	Edale	Growbulk	A03	34	-0.87	13
313/01	Valley	Coopworth	W04	34	-0.79	14
1560/03	The Gree	Greeline	W06	24	-0.76	15
172/02	Glen Rannoch	Perendale	A04	34	-0.47	16
422/00	Wattlebank	Corriedale	A04/05	76	-0.41	17
232/01	TRIGG	Romney	W03	20	-0.27	18
435/98	Kelso	Composite	W02	29	-0.19	19
211/99	Blackdale	Coopworth	W03	29	-0.13	20
132/01	Kelso	Composite	W03	31	-0.01	21
18/04	White Rock	Corriedale	A06	71	0.01	22
664/98	ARDG Elite	Romney	W03	16	0.04	23
781/00	Shoreford	Romney	W03	30	0.04	24
706/00	Lincoln	Coopworth	A03/04/05/06 W03/05/06 P06	251	0.23	25

** Breeding values are expressed as the decrease in yellowness of the fat (b*; high values are yellow). The average was 10.2.*

PH BV

Terminal:

Range: -0.05 to 0.11

TAG	Flock	Breed	Sites	Progeny	pH BV	Rank
9/03	Pahiwi	Suffolk	P05	103	-0.05	1
77/02	Mapua	Southdown	A04	51	-0.04	2
T369/02	Wharetoa	Composite	A03	28	-0.04	3
376/03	Douglas Downs	Dorset Horn	W05	28	-0.04	4
19/03	Tasvic Downs	Southdown	P05	60	-0.04	5
2002/02	Mount Linton	Texel Cross	A04	34	-0.04	6
T533/01	Wharetoa	Composite	W02/03	51	-0.04	7
167/02	MEBA	Texel	W04	50	-0.03	8
021/01	Broken Hut	Texel	A03	29	-0.03	9
106/99	Ohio	Poll Dorset	W02	45	-0.03	10
41/00	Tasvic Downs	Southdown	W02	44	-0.03	11
77/95	Douglas Downs	Dorset Horn	W02/04	75	-0.03	12
176/03	Totaranui	Dorset Down	P06	68	-0.03	13
57/99	Charleston	Southdown	W02	20	-0.02	14
33/04	Myola	South Suffolk	P06	49	-0.02	15
430/03	Glengarry	Poll Dorset	A05 P05 W05	115	-0.02	16
1144/99	Teviotdale	Hampshire	W02	31	-0.02	17
767/99	Darenal	Dorset Down	A03	14	-0.02	18
33/02	RBL Rissington	Primera	W04	27	-0.02	19
26/00	Lincoln	Dorset Down	A03	30	-0.02	20
226/00	Logan	South Suffolk	A03	30	-0.02	21
T210/04	Wharetoa	Meatmaker	W06	34	-0.01	22
169/02	Ohio	Poll Dorset	W06	35	-0.01	23
125/98	Pahiwi	South Suffolk	W02	28	-0.01	24
25/02	Glenaven	Hampshire	W04	39	-0.01	25

Dual Purpose:

Range: -0.08 to 0.09

TAG	Flock	Breed	Sites	Progeny	pH BV	Rank
88/02	TRIGG	Romney	W05	25	-0.08	1
1832/02	Awareka	Romney	W04 A04	73	-0.07	2
5828/02	Waihora	Romney	W04	50	-0.05	3
649/01	Glenbrook	Romney	P06	33	-0.05	4
278/03	MNCC	Coopworth	W06	30	-0.04	5
1127/95	Awareka	Romney	W03	19	-0.04	6
107/97	Strathblane	Corriedale	A03	15	-0.04	7
18/04	White Rock	Corriedale	A06	71	-0.03	8
422/00	Wattlebank	Corriedale	A04 A05	76	-0.03	9
542/04	Hazeldale	Perendale	W06	29	-0.03	10
1235/00	Strathblane	Corriedale	A04	30	-0.03	11
2165/97	Wairere	Romney	W02 W03 A04	86	-0.02	12
138/01	Edale	Growbulk	A03	34	-0.02	13
232/01	TRIGG	Romney	W03	20	-0.02	14
664/98	ARDG Elite	Romney	W03	16	-0.02	15
HG552/02	Clifton	Corriedale	A05	46	-0.02	16
781/00	Shoreford	Romney	W03	30	-0.01	17
211/99	Blackdale	Coopworth	W03	29	-0.01	18
1560/03	The Gree	Greeline	W06	24	-0.01	19
531/98	Wharetoa	Coopworth	W03	27	-0.01	20
JL1695/1	WRIG	Romney	P05	35	-0.01	21
850/00	Hillcrest	Perendale	W03	28	-0.01	22
493/00	Hazeldale	Perendale	W03	22	-0.01	23
4014/96	Waihora	Romney	W04	21	-0.01	24
722/03	Rose Mains	Perendale	W05	36	0.00	25

** Breeding values are expressed as the reduction in meat pH value. An increase in pH above 5.7 decreases meat tenderness. The average pH was 5.69.*

NUMBER OF LAMBS BORN BV

Dual Purpose:

Range: -0.17 to 0.19

TAG	Flock	Breed	Sites	Progeny	NLB BV	Rank
313/01	Valley	Coopworth	W04	80	0.190	1
1035/02	Newhaven	Perendale	W04	85	0.181	2
4014/96	Waihora	Romney	W04	356	0.177	3
1832/02	Awareka	Romney	W04 A04	119	0.078	4
706/00	Lincoln	Coopworth	A05/06 W05/06 P06	119	0.029	5
172/02	Glen Rannoch	Perendale	A04	63	0.012	6

** Results are presented for rams with at least 20 daughters with two-tooth lambing records. Only twelve sires qualify to date as daughters were only retained in the CPT from 2004 onwards.*

FLEECE WEIGHT BV

Dual Purpose:

Range: -0.62 to 0.58

TAG	Flock	Breed	Sites	Progeny	FW12 BV	Rank
1832/02	Awareka	Romney	W04 A04	73	0.58	1
531/98	Wharetoa	Coopworth	W03	27	0.47	2
313/01	Valley	Coopworth	W04	34	0.47	3
781/00	Shoreford	Romney	W03	30	0.34	4
5828/02	Waihora	Romney	W04	50	0.26	5
2165/97	Wairere	Romney	W02/03 A04	86	0.20	6
211/99	Blackdale	Coopworth	W03	29	0.09	7
835/01	Poukawa	Composite	P05	77	0.07	8
HG552/02	Clifton	Corriedale	A05	46	0.07	9
232/01	TRIGG	Romney	W03	20	0.07	10
85/00	Tahakita	Coopworth	W04 A04	75	0.07	11
833/02	Tamlet	Coopworth	W05/06	54	0.04	12
5093/99	Meadowslea	Romney	A03	22	0.03	13
97/02	Raywell	Borderdale	A03/04	48	0.03	14
542/04	Hazeldale	Perendale	W06	29	0.01	15
426/99	Mt Guardian	Perendale	W03	19	0.00	16
493/00	Hazeldale	Perendale	W03	22	-0.02	17
107/97	Strathblane	Corriedale	A03	15	-0.03	18
627/01	Totaranui	Romney	A06	72	-0.03	19
55/01	Bonnieview	Perendale	W05	20	-0.03	20
422/00	Wattlebank	Corriedale	A04/05	76	-0.04	21
300/03	MNCC	Coopworth	W05	27	-0.04	22
435/98	Kelso	Composite	W02	29	-0.04	23
1127/95	Awareka	Romney	W03	19	-0.06	24
138/01	Edale	Growbulk	A03	34	-0.07	25

** Breeding values for fleece weight at 12 months of age. The average fleece weight was 3.35kg.*

FACIAL ECZEMA BV

Dual Purpose:

Range: -0.38 to 0.92

TAG	Flock	Breed	Sites	Progeny	GGT21 BV	Rank
278/03	MNCC	Coopworth	W06	5	-0.38	1
706/00	Lincoln	Coopworth	A05/06 W05/06 P06	25	-0.33	2
542/04	Hazeldale	Perendale	W06	5	-0.27	3
722/03	Rose Mains	Perendale	W05	5	-0.17	4
1002/03	Mt Guardian	Perendale	W06	5	-0.14	5
4203/02	Kelso	Composite	P06	5	-0.11	6
18/04	White Rock	Corriedale	A06	5	-0.09	7
300/03	MNCC	Coopworth	W05	5	-0.08	8
HG552/02	Clifton	Corriedale	A05	5	-0.08	9

** Breeding values are expressed as the amount of the liver enzyme GGT (Gamma glutamyl transferase) present 21 days after challenging progeny with sporidesmin. GGT is an indication of the amount of liver damage, so low (more negative) breeding values indicate resistance to facial eczema.*

** Facial eczema measurements have only been collected from dual purpose sires for two years, so 18 rams have been evaluated to date.*

TOP 20 TERMINAL RAMS FOR MEAT AND GROWTH

ID	Flock	Breed	Progeny	Meat & growth Index*	Meat Value Index	Growth Index	WWT BV (kg)	Worm FEC BV (%)	EMA BV (cm ²)	Dress % BV	Fat Colour BV (b*)	Meat colour BV (a*)	pH BV
299/00	Waikite	Texel	58	\$4.53	\$3.54	\$0.99	-0.28	-36.0	3.40	2.24%	-0.61	-0.34	0.01
299/01	Ohio	Poll Dorset	34	\$3.99	\$2.23	\$1.76	0.59	65.4	3.04	0.73%	-1.27	-0.19	0.00
400/00	Brandes Burton	Texel	62	\$3.55	\$1.97	\$1.58	1.27	-2.7	1.24	1.58%	-0.42	0.11	0.03
911/99	Murray Downs	Texel	31	\$3.51	\$2.12	\$1.39	0.53	-10.0	0.97	1.50%	-0.30	-0.60	0.02
44/02	WTD	Texel	49	\$3.43	\$1.95	\$1.48	1.47	19.2	-0.38	0.35%	-1.10	-0.69	0.03
*128/97	Punchbowl	Suffolk	37	\$3.18	\$1.19	\$1.99	2.77	8.7	1.30	0.10%	-1.45	-1.46	0.07
25/99	Tyanee	Suffolk	255	\$3.15	\$0.88	\$2.27	2.48	-14.8	0.46	-0.62%	2.83	-0.74	0.01
447/03	Blackdale	Texel	36	\$2.99	\$1.05	\$1.94	1.74	2.6	1.08	0.44%	-3.69	-0.09	-0.01
11/03	Goldstream	Suffolk	23	\$2.90	\$0.92	\$1.98	2.08	-1.7	0.29	0.18%	-2.14	0.49	0.01
1296/03	Mount Linton	Texel Cross	40	\$2.86	\$1.78	\$1.08	1.33	29.8	0.07	-0.10%	-1.77	-0.96	0.03
4012/99	Bilberry Oaks	Hampshire	50	\$2.80	-\$0.12	\$2.92	3.42	78.1	-0.48	-0.32%	-1.26	-1.90	0.00
77/95	Douglas Downs	Dorset Horn	75	\$2.76	\$1.49	\$1.27	2.02	-12.8	1.74	-0.17%	0.35	-0.88	-0.03
110/03	Murray Downs	Texel	37	\$2.74	\$2.69	\$0.05	-0.88	-20.4	1.30	1.68%	-0.77	-0.96	0.02
430/03	Glengarry	Poll Dorset	115	\$2.68	\$0.68	\$2.00	1.92	26.4	1.54	0.57%	-1.84	-0.67	-0.02
33/02	RBL Rissington	Primera	27	\$2.50	\$0.72	\$1.78	1.98	-2.3	1.92	0.33%	0.11	0.24	-0.02
52/04	Mount Linton	Suffex	32	\$2.46	\$2.27	\$0.19	-0.36	-0.4	0.71	1.26%	-0.88	-0.02	-0.01
514/00	Linton	Poll Dorset	46	\$2.43	\$0.07	\$2.36	3.04	24.2	0.02	0.43%	-1.28	-0.76	0.04
T369/02	Wharetoa	Composite	28	\$2.42	\$1.48	\$0.94	0.59	-0.3	0.64	0.74%	-1.89	1.08	-0.04
106/99	Ohio	Poll Dorset	45	\$2.35	\$0.82	\$1.53	1.63	-12.5	2.26	0.39%	-1.33	-0.33	-0.03
9/03	Pahiwi	Suffolk	103	\$2.29	\$0.74	\$1.55	2.26	17.3	1.07	-0.70%	2.01	0.55	-0.05

* The combined Growth and Meat Value indexes, calculated by adding together the two individual indexes.

TOP 20 DUAL PURPOSE RAMS FOR MEAT AND GROWTH

ID	Flock	Breed	Progeny	Meat & growth Index*	Meat Value Index	Growth Index	WWT BV (kg)	Worm FEC BV (%)	EMA BV (cm ²)	Dress % BV	Fat Colour BV (b*)	Meat colour BV (a*)	pH BV	NLB BV	FW12 BV	FE BV
542/04	Hazeldale	Perendale	29	\$0.59	\$0.84	-\$0.25	-0.38	5.4	0.52	-0.39%	1.24	0.43	-0.03		0.01	-0.27
88/02	TRIGG	Romney	25	\$0.09	\$1.05	-\$0.96	-0.28	-2.7	-1.63	-1.49%	-0.99	1.45	-0.08		-0.08	-0.01
132/01	Kelso	Composite	31	-\$0.01	\$0.48	-\$0.49	-1.37	-25.4	-0.64	1.59%	-0.01	-0.63	0.00		-0.09	
4203/02	Kelso	Composite	39	-\$0.03	\$1.45	-\$1.48	-1.89	-1.2	0.09	0.16%	0.72	0.20	0.02		-0.09	-0.11
781/00	Shoreford	Romney	30	-\$0.09	\$0.31	-\$0.40	0.88	14.7	-0.16	-1.68%	0.04	1.02	-0.01		0.34	
55/01	Bonnieview	Perendale	20	-\$0.11	-\$0.16	\$0.05	0.43	17.2	-0.20	-0.80%	-1.22	-0.66	0.02		-0.03	-0.03
627/01	Totaranui	Romney	72	-\$0.20	-\$0.14	-\$0.06	0.33	18.1	-2.48	-0.32%	2.09	0.52	0.02		-0.03	0.34
835/01	Poukawa	Composite	77	-\$0.21	\$0.14	-\$0.35	-0.74	-7.4	-0.53	-0.64%	1.93	-1.87	0.09		0.07	
232/01	TRIGG	Romney	20	-\$0.26	-\$0.80	\$0.54	1.67	10.2	-1.63	-0.81%	-0.27	0.27	-0.02		0.07	
435/98	Kelso	Composite	29	-\$0.41	\$0.35	-\$0.76	-0.52	-18.8	0.03	-0.23%	-0.19	-0.28	0.02		-0.04	
172/02	Glen Rannoch	Perendale	34	-\$0.49	-\$0.24	-\$0.25	-0.93	4.3	-1.13	0.53%	-0.47	0.50	0.00	0.012	-0.10	
97/02	Raywell	Borderdale	48	-\$0.53	-\$0.14	-\$0.39	-0.04	4.6	-1.43	-1.07%	0.55	0.53	0.00	-0.062	0.03	
1560/03	The Gree	Greeline	24	-\$0.67	\$0.15	-\$0.82	-1.73	-8.2	2.26	1.68%	-0.76	0.85	-0.01		-0.11	0.92
531/98	Wharetoa	Coopworth	27	-\$0.88	-\$0.31	-\$0.57	0.81	85.8	-0.52	-1.30%	0.43	0.63	-0.01		0.47	
2165/97	Wairere	Romney	86	-\$1.00	-\$1.81	\$0.81	1.13	-14.1	-0.39	-0.60%	1.42	0.37	-0.02	-0.026	0.20	
138/01	Edale	Growbulk	34	-\$1.07	\$0.28	-\$1.35	-2.01	50.6	0.92	0.50%	-0.87	-1.07	-0.02		-0.07	
1235/00	Strathblane	Corriedale	30	-\$1.10	-\$0.68	-\$0.42	-0.51	-22.3	-0.88	-0.83%	-2.34	0.81	-0.03	-0.022	-0.13	
85/00	Tahakita	Coopworth	75	-\$1.18	-\$0.06	-\$1.12	-1.48	14.4	0.41	0.38%	1.26	0.35	0.04	-0.092	0.07	
5093/99	Meadowslea	Romney	22	-\$1.28	-\$1.02	-\$0.26	-0.14	-23.2	-1.86	-0.54%	2.01	-0.04	0.03		0.03	
300/03	MNCC	Coopworth	27	-\$1.29	-\$1.16	-\$0.13	-0.50	-23.1	0.11	0.81%	-0.92	-0.87	0.01		-0.04	-0.08

* The combined Growth and Meat Value indexes, calculated by adding together the two individual indexes.

LINK SIRES ACROSS SITES AND YEARS

Terminal sire

ID	Flock	Breed	Years and sites used								
			1998	1999	2000	2001	2002	2003	2004	2005	2006
381/98	Poukawa	Composite		P		P					
T533/01	Wharetoa	Composite						W	W		
767/99	Darenal	Dorset Down							A, P		
77/95	Douglas Downs	Dorset Horn						W		W	
4012/99	Bilberry Oaks	Hampshire						W	W		
263/95	Aorere	Poll Dorset	P	P	P	P	P	P			
35/01	Glengarry	Poll Dorset							A, P, W		
430/03	Glengarry	Poll Dorset									A, P, W
211/98	Kurralea	Poll Dorset			P			W			
106/99	Ohio	Poll Dorset				P		W			
299/01	Ohio	Poll Dorset							P	A, P	
U33/97	Mornish	Suffolk						P, W			
*128/97	Punchbowl	Suffolk						P	W		
*326/94	Punchbowl	Suffolk			P				P		
*419/96	Punchbowl	Suffolk				P		W			
165/00	Torresdale	Suffolk						P, W			
25/99	Tyanee	Suffolk				P		P	P	A, P	P
400/00	Brandes Burton	Texel						W		W	
299/00	Waikite	Texel						W	W		

Dual Purpose

ID	Flock	Breed	Years and sites used								
			1998	1999	2000	2001	2002	2003	2004	2005	2006
97/02	Raywell	Borderdale							A	A	
11/01	Little River	Cheviot							A, W		
706/00	Lincoln	Coopworth							A, W	A	A, W
85/00	Tahakita	Coopworth								A, W	
833/02	Tamlet	Coopworth									W
422/00	Wattlebank	Corriedale								A	A
B40/94	Silverstream	East Friesian		P	P						
664/98	ARDG Elite	Romney							W	P	
1832/02	Awareka	Romney								A, W	
2165/97	Wairere	Romney						W	W	A	
34/01	Twin Farm	TEFRom							W		W

ANIMAL MANAGEMENT PROCEDURES

To date, a total of 120 sires from 14 terminal and 9 dual purpose breeds have been evaluated in the M&WNZ CPT (formerly the Alliance CPT). There are some differences in animal management across the three sites that reflect differences in geographical location and the average performance of the ewe flock at each site. However, wherever possible the animal management procedures are the same across sites. The following is a brief summary of the management procedures applied across sites.

Mating

The aim across the three CPT sites is have at least 20 progeny per sire for the evaluation of a sire's meat and growth performance for both terminal and dual purpose sires, and 25 ewe progeny retained for maternal evaluations of the dual purpose sires. Numbers of ewes allocated varies between sites due to differences in fertility in the ewe flocks. All ewes are synchronised for mating using CIDRs, whether mated naturally or by AI.

Lambing

The flocks are split into single-bearing and multiple bearing mobs prior to lambing. Lambs are tagged and weighed within 12 hours of birth. Sex, birth rank and rearing rank are recorded at the same time. At some sites, the smallest triplet is mothered on to a single bearing ewe.

Docking

Lambs are vaccinated for diseases and conditions that are relevant to each site. Live weights are collected at docking. Lambing mobs are usually joined together at docking and the grazing mob is recorded

Weaning

Weaning occurs at 12 weeks of age. Live weight is recorded at weaning and a faecal sample collected to measure faecal egg count. Lambs are also dag scored at this time. Lambs which remain after weaning (the first draft for slaughter occurs at weaning) are drenched with an oral anthelmintic.

Drafting for meat and growth performance assessment

All lambs from the terminal sires are drafted for slaughter once they reach the target live weight to achieve a carcass weight of 18kg. All ram lamb progeny and the surplus ewe lamb progeny from the dual purpose sires are slaughtered. The first draft occurs at weaning, followed by drafts at monthly intervals thereafter. All remaining slaughter lambs are drafted in the March slaughter. Measurements collected at slaughter include the VIAscan measurements of lean weight in the hindleg, loin and shoulder, dressing percentage, eye muscle area, meat and fat colour and meat pH.

Ewe maternal performance assessment for dual purpose sires

Ewe lambs from the dual purpose sires are retained for evaluation of maternal traits. Ewe lambs are mated first as hoggets and then as two-tooths. In 2007, the first ewe progeny retained from dual purpose sires will be mated as four tooth. Number of lambs born and lamb survival are recorded at each lambing. Date of hogget oestrus and ewe mating weight are also recorded. No further data are recorded on the ewes after the four-tooth lambing results are collected.

Timetable of events for key dates at the three CPT sites for 2006/2007

Event	Poukawa	Ashley Dene	Woodlands
Start of mating	2 March	7 April	13 April
Start of lambing	27 August	1 September	1 September
Docking	At birth	18 September	27 September
Weaning	4 November	5 December	12 December
First draft	20 November	13 December	11 December
Second draft	1 December	24 January	16 January
Third draft	8 January	21 February	27 February
Fourth draft	12 February		
Fifth draft	12 March		

FUTURE OF THE CPT

The sixth cycle of matings (2007) has been completed at Ashley Dene, Poukawa and Woodlands. A total of 13 new terminal sire rams and 12 new dual purpose rams have been mated this year to bring the total rams evaluated to 145.

As with the previous four years, ewe progeny from dual purpose sires will be retained to measure maternal traits and ram progeny will be slaughtered to measure their meat production performance.

The second year-group of the ewe progeny have now been mated as two-tooths in this years mating (2007). The number of dual purpose rams with lambing results, fleece weight and facial eczema breeding values will increase rapidly as larger numbers of ewe progeny reach reproductive age.

Industry Outcomes

- Improve genetic linkages between flocks within a breed, and across breeds. These linkages enhance the ACE analysis (www.silace.co.nz for results) carried out by SIL and ultimately enable better benchmarking of performance between flocks
- Demonstrating genetic variation in animal performance to the New Zealand sheep industry, including why genetic evaluations are the best information to select rams on
- The genetics of new commercial traits can be evaluated in the CPT

Sire entry into the CPT

A call is made for expressions of interest to supply rams to the CPT in November each year. All SIL recorded flocks in New Zealand receive notification of the call. The individual ram selection decision is left to the breeder, but spaces in the CPT are allocated on the basis of:

- widespread use of the ram across SIL flocks
- providing stronger connections across groups of flocks to enhance validity of across-flock analyses based on CPT flock data
- the ram should have existing, SIL recorded, across flock information available
- performance information for the individual ram in SIL recorded flocks

Alternatively, any ram can be entered into the CPT on a cost-recovery basis.

For further information, or if you want results presented to a farmer meeting, contact Andy Bray andy.bray@meatandwoolnz.com Phone. (04) 474 0693



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