

THE COOPWORTH SELECTION INDEX

The management of Lambplan have constructed an economically based selection index for the Coopworth breed. In the past, much of the selection of sheep has been distorted because of the over-emphasis of some traits to the relative exclusion of others. This applied, particularly, to fertility, as it is a trait you cannot "see".

As sheep are multi-purpose, multi-trait animals, it can be difficult to place the correct selection emphasis on the traits of maximum economic importance. A selection index ranks traits according to their relative economic importance, arriving at a single figure which is very convenient for both the ram breeder and the ram buyer. Individuals are still quite free to select their rams with a slightly greater emphasis on certain traits, but for maximum economic return, the use of the Coopworth Selection Index will result in the greatest total economic return.

THE COOPWORTH \$ INDEX

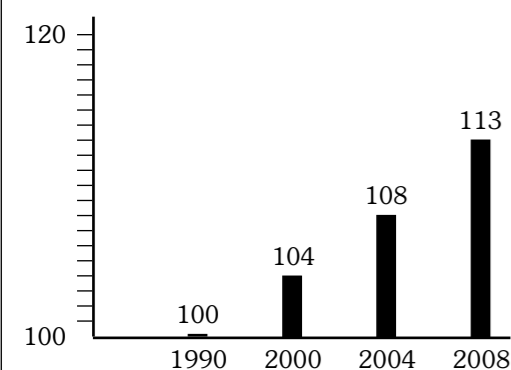
Weaning Weight	30%
Milk (Maternal Weaning Weight)	8%
Post-Weaning Weight	34%
Post-Weaning Fat Depth	2%
Post-Weaning Eye Muscle Depth	16%
Yearling Greasy Fleece Weight	2%
Number of Lambs Weaned	8%

The construction of this index takes into account the rams genetic influence on the lifetime performance of his daughters (50% genetic influence), plus the 25% influence on the grand-daughters, 12.5% influence on the great grand-daughters, etc., plus the extra value of the wether sons and the value of approximately 33% of the daughters that are not used for breeding within the ram buyers own flock.

New Zealand based sires require a number of lambings and rearings by the Australian based daughters to develop a meaningful breeding value for milk (maternal weaning weight).

VENDORS

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DUNKELD 3294
Ph (03) 5577 2321
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- ALL FLOCKS GUDAIR VACCINATED
ALL ACCREDITED BRUCellosIS FREE



This graph depicts the progress of the Coopworth breed since 1990, LAMBPLAN's base year. The Coopworth \$ Index is explained above. The figures used are the average for all sheep entered in the Coopworth data base each year. The 2008 drop comprises approximately 11,400 sheep.

The level of management and genetic merit of the ewe flock has the greatest influence on the profitability of a primb lamb enterprise. People incorporating Coopworth genetics into their breeding flock have a guarantee of increased genetic merit in their ram purchases each year.

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COOPWORTH GENETICS AUSTRALIA WEBSITE: <http://www.coopworth.org.au>

LAMBPLAN WEBSITE: <http://www.lambplan.com.au>

LAMBPLAN - THE GENETIC EVALUATION SYSTEM

Genetic evaluation systems take the guesswork out of selection decisions. You cannot see an animal's genes. In fact, when you look at an animal, 70% of what you see is the contribution of the environment i.e. the quality and quantity of the feed supply, disease status and general management.

A ram's breeding value is its genetic merit, half of which will be passed onto its progeny. Two rams might look identical, but genetically they could be very different.

A breeding value is the difference between a ram's individual genetics and the genetic base (flock) to which he has been compared. Breeding values are presented in the units in which they are measured, eg. kilograms for weight.

A value of +1 kg for yearling weight means the ram is genetically superior by 1 kg at 12 months compared with the average of the group in which he was bred.

Simply, a breeding value can be calculated from the records collected on the ram, the heritability of the trait, and knowledge of the average value for the trait in the particular group. For example, if a ram weighed 55 kg at twelve months of age, and his flock-mates averaged 50 kg, its breeding value would be calculated as follows:

Performance +5 kg, Heritability 30%, Breeding Value $5 \times 30\% = 1.5\text{kg}$

In reality, the calculations become much more complicated and require a powerful computer program to calculate the breeding value. The breeding value takes into account:

- * The animal's own performance
- * The performance of all it's known relatives in every flock
- * The relationship between different traits.

COOPWORTH PERCENTILES (15/09/2009)

Band	WWT	Milk	PWWT	Fat	Muscle	GFW %	NLW %	Index
1%	7.1	2.2	10.5	-1.1	1.9	21	13	129
5%	6.2	1.7	9.1	-0.8	1.3	16	11	125
10%	5.6	1.5	8.3	-0.6	1.0	13	10	123
20%	5.0	1.2	7.2	-0.5	0.6	9	8	120
50%	3.5	0.6	5.1	-0.1	0.1	2	5	113

SELECTED RAM SALE

FRIDAY
13th. NOVEMBER, 2009

COOPWORTH

"THE SELF-REPLACING SOLUTION"

RAM SALE PAVILION
HAMILTON SHOWGROUNDS

INSPECTION FROM 11.30 am
SALE COMMENCES 1.00 pm

Helmsman Selling System

Light Luncheon Available



HAMILTON
ROSS MILNE
Mobile 0408 057 558



3% REBATE FOR OUTSIDE AGENTS

LANDMARK

an AWB company

HAMILTON

Hayden Rogers
Mobile: 0428 990 231

LOT	TAG	SIRE	WWT	MILK	PWWT	FAT	MUSCLE	GFW%	NLW%	INDEX
Account: R. L. WIGAN, "DUNKELD"										
1	107	NARRAMBLA 050090	7.2	1.0	8.7	-0.7	-0.4	15	7	122
	Purchaser							Price		
2	443	CASHMORE PARK 051032	6.1	1.7	7.8	-0.4	-0.5	-12	8	121
	Purchaser							Price		
3	144	DUNKELD 060037	5.7	0.4	7.7	-0.1	-0.2	11	10	121
	Purchaser							Price		
4	552	CASHMORE PARK 051032	4.9	1.5	7.3	-0.2	-0.2	-8	8	121
	Purchaser							Price		
5	063	MARLOW (NZ) 045203	6.6	-	8.4	-0.4	-0.2	19	6	121
	Purchaser							Price		
6	005	TAMLET (NZ) 030287	4.4	-0.8	7.6	0.0	0.3	21	9	120
	Purchaser							Price		
7	458	DUNKELD 060037	6.4	1.0	7.6	-0.3	-0.4	17	7	120
	Purchaser							Price		
8	528	NARRAMBLA 050315	5.0	0.6	7.1	0.4	0.1	7	8	120
	Purchaser							Price		
9	529	NARRAMBLA 050315	5.0	0.6	7.2	0.4	0.1	5	8	120
	Purchaser							Price		
10	578	DUNKELD 060037	6.0	0.6	7.0	-0.2	0.1	15	7	120
	Purchaser							Price		
Account: D. W. & I.A. PEGLER, "OAKLEA"										
11	927	CASHMORE PARK 060655	7.0	0.6	11.6	-0.3	0.8	3	12	133
	Purchaser							Price		
12	524	CASHMORE PARK 071078	8.1	1.9	11.3	-0.9	-0.2	-6	10	131
	Purchaser							Price		
13	307	CASHMORE PARK 071078	8.0	2.1	10.8	-0.6	-0.1	-4	9	129
	Purchaser							Price		
14	490	CASHMORE PARK 071078	7.6	2.3	11.1	-0.6	-0.5	-9	9	129
	Purchaser							Price		
15	416	CASHMORE PARK 071078	6.7	2.3	10.3	-0.6	-0.1	-5	9	129
	Purchaser							Price		
16	210	CASHMORE PARK 071078	6.8	2.0	9.7	-0.3	0.2	-2	10	129
	Purchaser							Price		
17	829	CASHMORE PARK 060655	6.4	1.0	10.6	0.2	1.0	10	7	129
	Purchaser							Price		
18	523	CASHMORE PARK 071078	7.8	1.9	10.9	-1.1	-0.5	3	8	128
	Purchaser							Price		
19	264	CASHMORE PARK 071078	6.6	1.7	10.3	-0.5	-0.9	-5	11	127
	Purchaser							Price		
20	594	CASHMORE PARK 060794	6.0	0.8	8.7	-0.4	-0.9	0	16	126
	Purchaser							Price		
2008 DROP AVERAGE:			3.5	0.6	5.1	-0.1	0.1	2	5	113

LOT	TAG	SIRE	WWT	MILK	PWWT	FAT	MUSCLE	GFW%	NLW%	INDEX
Account: S. & C. PARKER, "LONGFORD"										
21	741	MARLOW (NZ) 045203	5.8	0.4	8.1	0.2	0.3	22	5	120
	Purchaser							Price		
22	785	MARLOW (NZ) 045203	6.3	0.9	7.9	-0.5	-0.4	14	5	118
	Purchaser							Price		
23	714	MARLOW (NZ) 045203	5.2	0.5	6.8	-0.1	0.4	34	2	116
	Purchaser							Price		
24	880	LONGFORD 050752	4.9	1.5	6.7	-0.5	0.2	-3	2	116
	Purchaser							Price		
Account: J. F. & S. P. MARRIOTT, "CLIFTON HILL"										
25	181	CAIRNLEA (NZ) 040742	6.6	0.4	9.9	-0.1	-0.2	7	11	127
	Purchaser							Price		
26	206	MARLOW (NZ) 045203	5.8	0.6	9.8	0.1	0.3	20	8	125
	Purchaser							Price		
27	210	CAIRNLEA (NZ) 040742	5.5	0.9	8.3	-0.1	0.4	8	8	124
	Purchaser							Price		
28	215	CLIFTON HILL 070202	6.0	0.5	9.0	-0.4	-0.2	5	8	122
	Purchaser							Price		
29	200	MARLOW (NZ) 045203	6.4	0.5	8.9	0.0	0.2	16	5	122
	Purchaser							Price		
30	189	CLIFTON HILL 070202	5.3	0.3	7.8	0.1	-0.4	6	11	122
	Purchaser							Price		
31	201	CLIFTON HILL 070244	4.4	0.5	8.2	0.1	0.1	19	6	120
	Purchaser							Price		
32	176	CAIRNLEA (NZ) 040742	6.5	0.2	8.7	0.1	-0.6	11	8	120
	Purchaser							Price		
Account: N. K. & S. J. McCLELLAND, "GLENHOLM"										
33	044	TAMLET (NZ) 030287	6.1	0.8	9.7	-0.2	0.0	9	8	125
	Purchaser							Price		
34	057	TAMLET (NZ) 030287	5.4	0.5	8.7	0.2	0.6	12	8	124
	Purchaser							Price		
35	026	TAMLET (NZ) 030287	4.9	0.2	8.2	-0.2	0.8	5	7	123
	Purchaser							Price		
36	005	TAMLET (NZ) 030287	5.1	-0.6	8.6	0.0	-0.1	19	9	121
	Purchaser							Price		
Account: T. T. LEEMING, "PARADOO"										
37	231	CASHMORE PARK 060861	5.3	0.9	7.1	-0.6	0.0	-	8	121
	Purchaser							Price		
38	034	TAMLET (NZ) 030287	4.0	0.0	6.5	-0.2	0.3	7	11	121
	Purchaser							Price		
39	001	TAMLET (NZ) 030287	4.8	-0.1	7.2	0.2	0.3	9	10	121
	Purchaser							Price		
40	043	TAMLET (NZ) 030287	4.8	-0.6	7.9	0.3	0.6	13	8	120
	Purchaser							Price		
2008 DROP AVERAGE:			3.5	0.6	5.1	-0.1	0.1	2	5	113

LOT	TAG	SIRE	WWT	MILK	PWWT	FAT	MUSCLE	GFW%	NLW%	INDEX
Account: J. R. KEILLER, "CASHMORE PARK"										
41	1100	CAIRNLEA (NZ) 040742	7.6	0.8	11.1	-0.1	0.6	2	9	130
	Purchaser							Price		
42	1753	WOODLANDS (NZ) 011243	6.6	0.8	8.6	-0.4	0.6	13	13	129
	Purchaser							Price		
43	1052	WOODLANDS (NZ) 011243	5.7	0.5	9.8	0.1	1.0	14	11	129
	Purchaser							Price		
44	1055	MARLOW (NZ) 045203	6.9	0.8	10.7	0.0	0.9	12	6	128
	Purchaser							Price		
45	1060	WOODLANDS (NZ) 011243	6.7	0.8	8.1	-0.3	0.5	5	13	127
	Purchaser							Price		
46	1928	CASHMORE PARK 071576	6.0	1.3	8.2	-0.2	1.0	-6	9	127
	Purchaser							Price		
47	1004	WOODLANDS (NZ) 011243	8.5	0.3	9.5	0.3	0.5	12	12	126
	Purchaser							Price		
48	1083	WOODLANDS (NZ) 011243	5.9	0.5	8.7	-0.4	0.1	26	11	125
	Purchaser							Price		
49	1210	CASHMORE PARK 071576	5.8	1.5	8.5	-0.6	0.0	0	8	125
	Purchaser							Price		
50	1373	CASHMORE PARK 072456	6.2	1.3	8.2	-0.2	0.5	-10	9	125
	Purchaser							Price		
Account: T. J. JOHNSTON, "WARADGERY"										
51	070	TAMLET (NZ) 030287	5.1	0.5	8.0	0.5	0.9	-	10	125
	Purchaser							Price		
52	063	TAMLET (NZ) 030287	5.9	-0.2	9.2	-0.1	-0.1	-	9	123
	Purchaser							Price		
53	044	MARLOW (NZ) 045203	6.1	-	8.2	-0.1	0.1	-	7	121
	Purchaser							Price		
54	012	TAMLET (NZ) 030287	5.2	-0.1	7.9	-0.4	0.8	-	5	121
	Purchaser							Price		
55	181	TAMLET (NZ) 030287	4.8	-0.1	7.3	0.6	0.6	-	9	121
	Purchaser							Price		
56	168	CAIRNLEA (NZ) 040742	5.8	-	8.6	-0.1	0.4	-	4	121
	Purchaser							Price		
Account: B. D. GORDON, "PADUA"										
57	082	PADUA 070075	5.9	0.7	8.7	-0.1	0.0	-1	7	122
	Purchaser							Price		
58	065	CASHMORE PARK 060759	5.4	0.4	7.9	-0.7	-0.7	1.3	11	122
	Purchaser							Price		
59	081	PADUA 070075	4.4	0.7	8.1	-0.2	-0.4	-2	7	120
	Purchaser							Price		
60	116	PADUA 050106	5.7	0.6	7.6	-0.2	0.0	14	6	120
	Purchaser							Price		
2008 DROP AVERAGE:			3.5	0.6	5.1	-0.1	0.1	2	5	113