

Oaklea

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**HEALTH:** Cashmore Oaklea commenced Gudair Vaccinations in 2003 to sheep and rams are second generation approved vaccinates.

OAKLEA	APPROVED OJD VACCINATES	7	POINTS
CASHMORE PARK	APPROVED OJD VACCINATES	5	POINTS

SA now requires sheep to have a minimum of 4 ABC points and all rams meet this requirement.

Health statements will be available on the day of the sale.

Ovine Brucellosis Free Accredited Flock # 3353

Rams have full 5 in 1 Vaccination histories.

**CATALOGUE ASSISTANCE:** This catalogue is also listed on our website and the Lambplan web page where you can view pedigrees and accuracies. It can also be emailed in excel format.

**RAM SELECTION ASSISTANCE:** For ram selection assistance please contact Don , Jamie or John who will be happy to help.

**RUN DATE:** EBV's have been generated from the 15/9/2011 Terminal and 15/9/2011 Coopworth data sets.

### **PERFORMANCE RECORDING COMPOSITES: WHY DO WE USE THEM?**

Cashmore and Oaklea Composites are based on sound genetic and economic principles. First and foremost they are performance recorded. This is our guarantee that the genes we supply to you will improve each year. In the past 6 years, this has averaged 2.3 index points per year. Our second goal is to make the animals as composite as possible, resulting in hybrid vigour ,or heterosis. Heterosis results in a level of performance above the average of the base parents. It comes at no cost, and has a larger effect on fitness or female related traits, such as number of lambs weaned and milk yield. In these traits the increase can be as high as 12 % while in growth and carcass traits it may be 8 %. At these levels it adds substantially to the performance of the animal and farm profits. The reason we run composites is to quickly access and multiply up new genes that may be required if market specifications change. A good example of this is value based lamb payment systems requiring better-muscled carcasses. If you are a pure breeder you need to search within your breed to find better-muscled animals. As composite breeders Cashmore Oaklea simply acquires these genes from elsewhere and multiplies them through our flocks. This open approach allows us, as the seedstock breeder, to find genes and deliver them to you, our customers, much faster.

**MATERNAL COMPOSITES:** Cashmore Oaklea have taken Maternal composite genetics to a new level with a gene sourcing program which has resulted in the best families of the following breeds: Coopworth, East Friesian, Finn, Border Leicester,

SAMM South African Meat Merino, Texel, Poll Dorset, White Suffolk, Merino, Corridale, NZ Romney and Perendale. All have been identified from Lambplan ASBV's and the Maternal Central Progeny Test (MCPT). These genes have been used by AI and ET after using the Total Genetic Resource Management Program (TGRM) to allocate matings. This has resulted in more accurate ASBV's and faster use of the best new genes in the program. We continue to expand our program with 3500 maternal lambs tagged at birth in 2011.

**POLL DORSETS / WHITE SUFFOLK COMPOSITES:** Cashmore Park has been involved in the formation of Terminal Composites since 1992 when USA Suffolks were infused into the Poll Dorset flock. From 1994, the best Texel, White Suffolk and Poll Dorset genes available were sourced from LAMBPLAN ASBV's and the Terminal Central Progeny Test and used via AI. The composite terminals are run with the Poll Dorsets and we believe show better hardiness under southern pasture systems.

**EARLY LAMBING FLOCKS (ie JUNE):** A number of producers have again approached us with specific requirements for early lambing genes. This is a requirement where the seasonal pattern of pasture growth is earlier and perhaps shorter than that experienced in higher rainfall southern areas. A number of considerations are needed to achieve a correct balance of genes in these systems. First is seasonality of breeding. June lambing will require a percentage of "pink nose" in the mix as these breeds show a wider breeding season. It is our belief the resulting progeny of the rams will need 25 to 50 % Merino, East F, Finn, Poll D or SAMM. Growth can then be tailored to a sucker or feeder lamb production system.

**NUDIES** In 2003 we commenced a program of breeding aiming for easy care sheep with wool shedding ability, high parasite resistance and tough feet. This program has been expanded with 600 lambs tagged at birth in 2011 and all genes from our other flocks graded in since 2007. These sheep are run with all the other seedstock and have to perform in our southern climate which they do well.

## HOW TO USE THIS CATALOGUE

Ear tag numbers

Oaklea Maternal	1 to 1600
Cashmore Maternal	1601 to 3100
Cashmore Terminal	3501 to 3900
Cashmore Nudie	4001 to 4400

**ID** Rams are identified with 16 digit Lambplan codes that will allow you to obtain updates on EBV's at any stage in the animal's life. Contact the breeder, Lambplan or search <http://www.sheepgenetics.org.au/lambplan/> for an update.

**INDEX** Calculated from some ASBV's and market returns for meat, wool and extra lambs it gives an estimated value of the animals performance.  
For Maternals each Coopworth \$ index point returns \$1 per ewe mated.  
For Terminals each 2020 index point returns \$1 per lamb.  
For each Self Replacing Carcass point returns \$1 per ewe mated.

<b>EBV's:</b>	These are the actual genetic differences between animals and are expressed in the units for that trait. The base year is 1990 when the 50% decile was 0.0 for all EBV's
<b>NLW</b>	Number of lambs weaned . A ram with NLW 12% is 12 % better for weaning extra lambs than the base year of 0.
<b>MWWT</b>	Maternal weaning weight ( kg )( milk ), The ability of the ewe to feed and care for the lamb above its own growth genes.
<b>BWT</b>	Birth weight ( kg ). Use negative or low figures for maiden ewes.
<b>WWT</b>	Weaning weight at 100 days.( kg ) Fast early growth. Keep this high for lambs suckers sold directly off ewes.
<b>PWWT</b>	Post weaning weight at 225 days. ( kg ) A ram with 5 kg PWWT will be 5 kg heavier at eight months of age.
<b>YWT</b>	Yearling weight at 365 days. ( kg ) Used for heavy export lambs grown over a longer period of time.
<b>AWT</b>	Adult weight at 2 years. ( kg ) To reduce mature weight in ewes look for a lower figure here.
<b>PFAT</b>	Post weaning fat depth at 225 days ( mm ) Check lamb kill sheets to decide if you need to alter fat levels.
<b>PEMD</b>	Post weaning eye muscle depth at 225 days ( mm )
<b>YGFW</b>	Yearling greasy fleece weight. Expressed as a %. Increase this for more wool weight.
<b>PFEC</b>	Post weaning faecal worm egg count, expressed as a %, the more negative the more tolerant/resistant to worms.
<b>PSC</b>	Post weaning scrotal circumference. ( cm ) Rams with large testes have daughters with earlier puberty that also have more lambs.
<b>LE-DIR</b>	Lambing ease direct, expressed as a %, this is the rams genetic ability to produce easily born lambs. A positive number is easier lambing.
<b>LE-DAU</b>	Lambing ease daughters, expressed as a %,this is a rams ability to produce daughters that lamb easily. A positive number is easier lambing.
<b>Dam Age</b>	Rams born to ewe lambs, 1 year olds “may have” earlier puberty. Use in combination with PSC.

page 4		ELITE PERFORMANCE MATERNALS																		
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	MILK			PWT	YWT	AWT	PFAT			YGFW			LE DIR	LE DAU	LE LOT
						NLW	BWT	WWT				PEMD	%	PFEC	PSC					
1	1500992010102398	1	133	133	111	7%	1.8	0.6	7.4	10.8	10.4	11.3	0.2	2.2	-12	-16	3.3	-1	-3	1
2	1500992010102225	1	131	131	111	5%	1.8	0.5	8.0	11.0	11.7	13.5	0.3	1.6	-2	-13	2.3	0	-2	2
3	1500992010101312	1	131	130	110	4%	1.6	0.7	9.1	14.1	14.6	17.7	-1.3	-0.4	9	-13	3.4	0	-1	3
4	1500992010102135	1	130	130	109	9%	1.7	0.3	4.7	9.5	10.8	12.3	0.8	1.3	9	-37	1.5	-1	-2	4
5	1500992010102134	1	130	130	108	10%	1.7	0.3	4.3	8.9	10.4	11.6	0.7	1.3	11	-28	1.8	-1	-2	5
6	1500992010102141	1	129	128	109	9%	0.9	0.3	6.0	8.9	9.1	10.0	-0.4	1.7	4	-13	2.8	0	0	6
7	1500992010101411	1	129	129	111	1%	1.9	0.7	8.6	12.5	12.3	13.3	-0.4	1.2	-11	-12	3.8	-1	-2	7
8	1500992010100408	1	129	128	108	8%	1.3	0.5	7.2	11.8	13.8	16.2	-0.7	-0.1	-4	-3	3.2	0	-3	8
9	1500992010102140	1	129	127	108	8%	0.9	0.3	5.9	8.8	9.1	10.2	-0.1	1.9	5	17	2.3	0	0	9
10	1500992010101021	1	129	128	107	9%	1.5	0.6	7.2	11.5	13.8	15.6	-0.9	-0.7	5	-4	4.4	-1	-3	10
11	1500992010100601	1	128	128	108	11%	0.9	0.4	6.0	9.2	10.0	10.8	-0.8	0.6	-7	-13	2.4	-1	-3	11
12	1500992010100741	1	128	128	108	6%	1.6	0.5	7.5	12.2	13.7	14.9	-1.1	-0.4	-16	-4	4.1	-1	-3	12
13	1500992010101984	1	128	128	108	11%	1.1	0.5	6.1	9.1	9.5	10.0	-0.6	0.4	14	-25	3.2	-3	-3	13
14	1500992010100460	1	128	128	107	13%	1.3	0.3	5.3	8.8	9.3	9.0	-0.6	0.2	-16	-5	3.9	-2	-2	14
15	1500992010101946	1	128	129	109	10%	1.1	0.4	5.8	9.8	10.6	12.5	-0.2	0.1	11	-45	3.0	-1	-1	15
16	1500992010101259	1	128	127	109	5%	1.3	0.4	6.3	10.5	11.6	13.0	-0.4	1.0	4	-4	2.3	-1	-1	16
17	1500992010101110	1	128	127	111	-1%	1.4	0.7	10.0	13.4	14.0	17.8	-1.4	0.4	3	-16	3.1	-2	-3	17
18	1500992010101271	1	128	126	109	3%	1.1	0.5	7.9	10.9	10.4	10.9	-0.8	1.3	-12	18	3.5	0	0	18
19	1500992010101392	1	128	127	109	9%	0.0	0.4	7.6	10.9	12.2	15.2	-0.7	0.4	-11	-5	3.5	1	0	19
20	1500992010101370	1	128	127	109	3%	1.1	0.6	8.5	13.0	13.2	14.4	-0.5	0.2	-10	5	3.7	-1	-2	20
21	1500992010102040	2	127	129	110	6%	1.4	0.3	6.1	10.0	10.6	12.0	0.3	1.2	-2	-38	3.0	0	0	21
22	1500992010101939	2	127	130	111	6%	1.2	0.2	5.2	9.0	9.2	10.5	1.2	2.1	-8	-55	2.9	-1	-2	22
23	1500992010101190	2	127	126	109	3%	1.2	0.6	7.6	12.2	13.1	14.7	-0.8	0.1	3	-9	3.8	-1	-1	23
24	1500992010102370	2	127	128	110	7%	0.6	0.4	7.6	11.8	13.1	15.6	-0.3	-0.1	5	-43	3.2	0	1	24
25	1500992010101058	2	127	126	109	3%	1.0	0.5	9.1	12.8	14.0	17.3	-1.5	-0.2	-8	-2	4.2	0	-1	25
26	1500992010101355	2	127	127	109	5%	1.2	0.6	7.6	12.1	13.4	15.1	-0.9	-0.2	-11	-18	3.8	-1	-3	26
27	1500992010100803	2	127	127	109	3%	1.8	0.5	6.7	10.6	12.3	14.2	-0.5	1.1	-24	-10	3.8	-2	-3	27
	Decile	50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1	
	Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																			

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Age	SIRE	PURCHASER	PRICE	LOT
1	1500992010102398	43		1				35	1	20	2	2350032009093735			1
2	1500992010102225	43		1				35	1	20	2	2350032009093735			2
3	1500992010101312	40	4	2				7	4	43	1	2350032007073027			3
4	1500992010102135	57	8	3			1	20	3	8	3	1500992009092378			4
5	1500992010102134	57	8	3			1	20	3	8	3	1500992009092378			5
6	1500992010102141	43	3	2	12			25	3	12	2	1500992009091516			6
7	1500992010101411	28	3	1				12	3	53	1	2350032007073027			7
8	1500992010100408	35	1	2	12					50	2	2300262007072763			8
9	1500992010102140	43	3	2	12			25	3	12	2	1500992009091516			9
10	1500992010101021	35	3	1	12			7	4	38	2	2350032007073027			10
11	1500992010100601	43	13	2				18	5	19	2	1500392005050756			11
12	1500992010100741	27	8	3	6			3	3	50	2	2300262007072763			12
13	1500992010101984	53	7	2	12			25	1		2	1500992009091516			13
14	1500992010100460	51	17	2				11	5	14	3	1500392005050756			14
15	1500992010101946	54	3	3	12			19	2	7	3	1500992009092378			15
16	1500992010101259	60	7	2				3	3	25	1	1500992009090498			16
17	1500992010101110	60	3	3	6			6	2	20	1	1500992009090767			17
18	1500992010101271	36	7					11	3	43	1	2350032007073027			18
19	1500992010101392	61	3	3	3			6	1	23	1	1500992009090941			19
20	1500992010101370	74	7	2				2	2	13	1	1500992009090498			20
21	1500992010102040	53	10	3				21	5	8	5	1500992009092378			21
22	1500992010101939	64	3	3				23		7	2	1500992009092378			22
23	1500992010101190	38	8	1				7	3	43	1	2350032007073027			23
24	1500992010102370	55	3	3	12			19	1	7	2	1500992009092378			24
25	1500992010101058	50	3	3	6			3	1	34	1	1500992009090767			25
26	1500992010101355	39	2	2	6				1	50	1	2300262007072763			26
27	1500992010100803	19	4					14	2	61	2	2300262005050610			27

Ave Breed %

46

7

2

3

0

15

3

23

page 6		ELITE PERFORMANCE MATERNALS																		
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	MILK			PWT	YWT	AWT	PFAT			YGFW			LE DIR	LE DAU	LE LOT
						NLW	BWT	WWT				BWT	WWT	AWT	PEMD	%	PFEC			
28	1500992010102381	2	127	127	109	1%	2.4	0.5	5.7	9.5	10.6	11.6	0.5	2.4	-35	3	3.0	-4	-4	28
29	1500992010102392	2	127	127	111	4%	0.3	0.3	5.6	9.4	10.2	10.5	0.8	2.5	-5	-28	3.2	-2	-1	29
30	1500992010101028	2	127	126	111	-2%	0.9	0.6	9.0	14.1	13.0	15.2	-0.7	0.4	-7	-7	3.7	-1	-2	30
31	1500992010102078	2	127	129	111	5%	0.8	0.4	6.1	8.8	9.8	9.9	1.3	2.5	2	-50	2.2	-1	0	31
32	1500992010101853	2	127	127	111	3%	0.8	0.4	7.2	10.6	9.4	11.0	-0.8	1.2	3	-39	3.5	-1	-2	32
33	1500992010100274	3	126	126	109	2%	1.9	0.4	7.0	11.3	11.8	13.5	-0.7	0.6	-24	-12	3.3	1	-1	33
34	1500992010100980	3	126	126	109	5%	0.9	0.4	5.7	9.2	9.7	11.4	0.2	1.7	-1	-14	3.0	0	0	34
35	1500992010100920	3	126	126	107	11%	0.7	0.3	5.7	9.0	9.7	10.4	-0.2	0.3	-2	-6	3.0	0	-1	35
36	1500992010100275	3	126	126	109	3%	1.9	0.5	6.4	10.8	11.8	13.3	-0.5	0.8	-25	-15	3.2	-1	-2	36
37	1500992010101241	3	126	126	109	5%	1.0	0.5	7.3	11.0	11.4	13.2	-0.6	0.4	-8	-10	3.6	0	-1	37
38	1500992010102288	3	126	126	109	6%	1.2	0.5	6.0	11.2	12.3	13.7	-0.9	-0.2	1	-35	2.4	0	-2	38
39	1500992010100397	3	126	126	108	6%	1.5	0.7	7.5	11.2	12.8	13.5	-1.0	-0.3	-15	-11	3.5	-2	-4	39
40	1500992010101184	3	126	126	109	4%	0.5	0.6	7.8	11.8	13.0	15.5	-0.5	0.5	-11	-5	3.3	0	-1	40
41	1500992010102240	3	126	125	108	8%	1.1	0.4	5.6	9.1	10.2	11.1	-0.8	0.5	-3	-14	3.3	-3	-2	41
42	1500992010102150	3	126	126	107	10%	1.0	0.1	4.3	7.4	7.2	5.7	0.3	1.5	-16	-9	4.3	0	-2	42
43	1500992010100934	3	126	126	109	4%	1.2	0.5	6.8	10.6	10.9	12.5	-0.4	0.6	-6	-14	3.2	0	0	43
44	1500992010101029	3	126	126	108	7%	0.9	0.5	6.4	9.8	9.6	10.7	-0.2	0.7	-11	-4	3.0	0	0	44
45	1500992010101391	3	126	126	108	9%	0.0	0.4	7.0	10.3	11.1	13.8	-0.5	0.5	-11	-4	3.3	1	0	45
46	1500992010102425	3	126	126	111	1%	1.2	0.3	6.4	9.3	10.7	11.7	0.5	2.5	-2	-27	1.4	0	0	46
47	1500992010100933	3	126	125	109	4%	1.2	0.5	7.2	10.6	10.9	12.6	-0.5	0.6	-6	-5	3.3	0	0	47
48	1500992010100063	3	126	125	106	12%	0.8	0.5	6.4	9.5	9.3	10.5	-0.8	-0.6	-8	2	3.2	-2	-2	48
49	1500992010103015	3	126	124	108	5%	0.6	0.5	6.8	10.1	11.7	12.7	-0.5	1.0	-10	12	3.1	0	0	49
50	1500992010101260	3	126	125	109	3%	1.3	0.4	5.7	9.7	10.4	11.8	-0.2	1.4	-2	-4	1.3	0	-1	50
51	1500992010100921	3	126	125	106	12%	0.7	0.3	5.1	8.4	9.5	10.2	-0.4	0.1	0	-11	3.1	0	-1	51
52	1500992010101351	3	126	125	109	5%	0.3	0.4	7.3	10.9	10.4	11.5	-0.6	0.7	-1	-4	2.8	0	0	52
53	1500992010101178	3	126	125	109	5%	0.7	0.5	7.0	10.4	9.7	10.6	-0.4	0.8	-4	-3	3.2	-1	-1	53
54	1500992010100997	4	125	124	108	4%	1.2	0.5	7.7	11.1	11.1	13.0	-1.2	-0.1	-3	3	3.8	0	0	54
Decile		50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1	
Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																				





LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
55	1500992010100946	42	3					9	8	38	5	2350032007073027			55
56	1500992010101766	63	10	4				20	3		3	1500992008080405			56
57	1500992010102126	61	3	2				20	6	8	5	1500992009092378			57
58	1500992010100022	68	14	3				9	5	1	2	1500392005050756			58
59	1500992010100387	27	5					15	3	50	2	2300262007072763			59
60	1500992010101389	46	3	1						50	1	2300262007072763			60
61	1500992010103022	18	1	3				25	6	47	1	1500992009091849			61
62	1500992010100720	47	18	2				28	4	1	6	1500392005050756			62
63	1500992010100310	27	6	1				14	2	50	2	2300262007072763			63
64	1500992010101049	34	15					8	4	39	7	2350032007073027			64
65	1500992010100821	64	17	3				8	7	1	2	1500392005050756			65
66	1500992010100320	65	7	5	3			6	3	11	5	1500992009090941			66
67	1500992010100842	60	8	1				26	4	1	3	1500392006060801			67
68	1500992010100776	30	4	2				3	2	59	2	2300262007072763			68
69	1500992010100751	73	3	3	3			6	2	10	4	1500992009090941			69
70	1500992010100606	54	7	2	3			10	1	23	3	1500992009090941			70
71	1500992010100718	43	1	1				4	1	50	2	2300262007072763			71
72	1500992010100996	29	8		12			8	4	39	4	2350032007073027			72
73	1500992010101007	17	2	2				11	4	64	3	2350032007073027			73
74	1500992010100203	70	15	3				6	5	1	3	1500392005050756			74
75	1500992010102000	34	3	1	12			30	2	18	3	1500992009091516			75
76	1500992010102422	36	1	1				41	1	20	2	2350032009093735			76
Ave Breed %															
		46	7	2	3	0	0	15	3	23					

page 10		PERFORMANCE MATERNALS																	
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	NLW	MILK	BWT	WWT	PWT	YWT	AWT	PFAT	PEMD	% YGFW	PFC	DIR	LE	
77	1500992010100016	5	124	124	105	14%	0.9	0.0	3.6	6.7	6.5	6.4	-0.3	0.0	-8	1	3.1	1	0
78	1500992010100155	4	125	123	105	12%	0.5	0.2	4.7	8.2	9.5	9.9	-0.7	0.0	1	12	2.4	0	-1
79	1500992010100410	5	124	124	104	16%	0.1	0.2	4.0	7.9	8.7	8.7	-0.1	-0.6	-7	-7	3.4	0	-1
80	1500992010100450	10	123	123	104	12%	1.4	0.2	3.9	7.6	9.0	8.8	-0.4	-0.8	1	-4	2.1	0	-1
81	1500992010100710	5	124	123	106	10%	0.7	0.3	5.4	9.1	11.1	11.9	-1.1	-0.8	-2	-7	3.8	0	-1
82	1500992010100128	4	125	124	105	10%	1.6	0.1	4.7	7.7	8.7	8.3	0.0	0.4	-8	9	3.4	0	-1
83	1500992010100154	5	124	123	106	11%	0.5	0.1	4.0	7.6	8.0	8.1	-0.5	0.5	-1	-11	2.2	0	-1
84	1500992010100349	4	125	124	105	11%	1.3	0.1	3.8	7.8	9.3	9.8	-0.1	0.4	-21	3	3.5	0	-1
85	1500992010100514	10	123	123	104	15%	0.9	0.2	3.3	6.3	6.4	6.8	0.0	-0.2	-4	-2	1.6	0	0
86	1500992010100749	10	123	123	104	13%	0.9	0.2	4.3	7.5	7.8	8.1	-0.7	-0.7	-8	4	2.4	0	-1
87	1500992010101097	5	124	123	108	2%	1.3	0.6	6.9	10.6	11.5	13.2	-0.9	0.4	5	-6	2.5	-2	-4
88	1500992010101155	5	124	123	108	2%	1.4	0.4	7.3	10.5	11.3	13.1	-1.0	0.3	4	3	2.6	0	-1
89	1500992010101157	10	123	122	109	0%	0.6	0.5	6.5	10.3	10.9	12.1	-0.6	1.2	-5	10	4.2	0	0
90	1500992010101182	5	124	124	110	-2%	1.2	0.3	7.1	11.6	11.8	13.3	-0.3	1.1	-5	-4	3.5	1	1
91	1500992010101372	5	124	123	109	2%	0.6	0.5	7.6	12.5	13.5	14.9	-1.0	-0.4	-10	-10	3.0	-1	-1
92	1500992010101868	5	124	123	108	8%	-0.3	0.3	5.2	8.4	10.0	11.8	0.1	1.6	-8	8	4.0	-1	0
93	1500992010102305	5	124	126	111	0%	1.1	0.3	6.7	10.1	11.7	12.7	0.6	2.0	-13	-48	2.8	1	1
94	1500992010102307	5	124	121	106	6%	0.0	0.3	5.5	8.3	9.0	10.6	-0.1	1.7	9	53	3.0	-1	0
95	1500992010102399	5	124	125	109	5%	1.1	0.1	4.4	7.5	8.1	7.4	1.3	2.4	-3	-25	1.8	0	0
96	1500992010102424	5	124	124	111	0%	1.2	0.1	4.9	7.3	7.6	8.2	1.1	3.5	1	-33	0.9	1	0
97	1500992010101916	5	124	123	105	0%	1.3	0.3	5.6	8.4	9.9	11.3	0.6	2.0	1	-29	2.2	0	0
98	1500992010102119	10	123	124	109	0%	1.7	0.3	6.5	9.6	9.6	11.1	0.0	1.4	-21	-21	4.1	0	-1
99	1500992010102172	5	124	124	107	8%	1.4	0.3	5.2	8.3	9.7	9.4	-0.8	0.0	1	-25	2.5	0	-2
100	1500992010102289	4	125	124	108	5%	1.2	0.5	5.9	10.5	11.6	13.0	-1.1	-0.2	4	-29	2.1	0	-2
101	1500992010102535	5	124	125	110	4%	0.6	0.5	6.4	9.3	10.0	12.8	-0.4	1.3	-14	-38	2.5	-1	-1
102	1500992010102096	5	124	123	109	-1%	2.2	0.5	6.4	10.0	11.1	13.5	-0.5	0.9	-9	-4	3.1	-1	-2
103	1500992010102128	5	124	123	109	-3%	1.4	0.5	7.3	11.7	12.6	14.8	0.2	1.2	1	5	2.3	-1	-2
104	1500992010102295	5	124	125	111	-2%	2.2	0.5	6.0	9.4	11.6	11.6	-0.3	1.9	-26	-36	2.8	-3	-5
105	1500992010102942	10	123	121	108	-3%	1.8	0.5	7.5	10.7	9.9	11.3	-0.4	1.2	-5	32	2.7	0	0
	Decile	50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1
	Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																		

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
77	1500992010100016	61	19	3				8	7	2	6	1500392005050756			77
78	1500992010100155	66	15	2			3	8	5	1	4	1500392005050756			78
79	1500992010100410	55	16	3	12			7	5	2	2	1500392005050756			79
80	1500992010100450	52	23	2				14	6	3	5	1500392005050756			80
81	1500992010100710	57	15	3	12			8	4	1	3	1500392005050756			81
82	1500992010100128	53	21	2				18	5	1	3	1500392005050756			82
83	1500992010100154	66	15	2			3	8	5	1	4	1500392005050756			83
84	1500992010100349	47	17	2				13	6	15	3	1500392005050756			84
85	1500992010100514	56	18	5				8	11	2	6	1500392005050756			85
86	1500992010100749	56	24	3				8	6	3	2	1500392005050756			86
87	1500992010101097	73	4	2	6			3	1	11	1	1500992009090767			87
88	1500992010101155	61	9	2				1	2	25	1	1500992009090498			88
89	1500992010101157	42	4		6			7	3	38	1	2350032007073027			89
90	1500992010101182	38	7					8	4	43	1	2350032007073027			90
91	1500992010101372	33	3					13	1	50	1	2300262007072763			91
92	1500992010101868	46	2	2	25			25			2	1500992009091516			92
93	1500992010102305	24	3	8				42	3	20	2	2350032009093735			93
94	1500992010102307	44	3	3	25			25			2	1500992009091516			94
95	1500992010102399	33	10	1				32	3	21	2	2350032009093735			95
96	1500992010102424	30	3				3	42	2	20	2	2350032009093735			96
97	1500992010101916	27	7	24				25	2	25	6	2350032009093735			97
98	1500992010102119	44	4					13	2	37	2	1500992009091713			98
99	1500992010102172	32	15	2	12			22	5	12	2	1500392005050756			99
100	1500992010102289	35	7	2				23	3	30	2	1500992009092378			100
101	1500992010102535	47	2	2				37	2	10	3	2350032008083017			101
102	1500992010102096	23	2					16	3	56	2	1500992009091713			102
103	1500992010102128	52	13					28	5	2	2	1500392006060801			103
104	1500992010102295	24					1	25		50	2	2300262005050610			104
105	1500992010102942	32	5					23	1	39	1	1500992009092147			105
	Ave Breed %	46	7	2	3	0	0	15	3	23					

page 12		PERFORMANCE MATERNALS																			
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	NLW	MILK	BWT	WWT	PWT	YWT	AWT	PFAT	PEMD	% YGFW	PFEC	PSC	DIR	LE	DAU	LOT
106	1500992010101763	10	123	122	107	4%	0.8	0.5	5.6	9.2	10.2	11.1	-0.5	0.6	7	-7	2.4	-1	-2	106	
107	1500992010101812	5	124	122	105	5%	1.3	0.3	5.3	8.4	9.8	9.5	0.6	1.2	2	46	2.5	0	1	107	
108	1500992010101977	5	124	123	107	6%	1.2	0.2	5.0	8.2	7.1	7.1	-0.3	1.2	-11	9	3.8	-1	-3	108	
109	1500992010102672	10	123	120	105	5%	0.0	0.4	6.1	9.3	11.2	12.1	-0.6	0.2	4	40	3.0	-1	0	109	
110	1500992010100068	10	124	123	106	8%	1.3	0.3	5.0	8.3	9.1	9.0	-0.4	0.0	-8	0	3.4	-2	-3	110	
111	1500992010100122	5	124	124	107	6%	1.3	0.3	6.1	9.0	8.3	9.7	-0.4	0.4	-24	-12	3.3	0	-2	111	
112	1500992010100484	5	124	124	108	4%	0.8	0.4	6.7	10.2	10.4	12.9	-0.6	0.5	-2	-2	2.6	0	0	112	
113	1500992010100690	5	124	124	108	5%	1.0	0.4	5.7	9.4	11.0	13.0	-0.4	0.7	-25	-17	4.1	-2	-1	113	
114	1500992010100695	5	124	124	107	4%	1.8	0.5	7.2	10.0	11.1	12.6	-1.0	0.0	-3	2	2.5	0	-1	114	
115	1500992010100035	5	124	125	108	3%	2.5	0.5	5.8	9.6	10.6	12.8	-0.5	0.3	-22	-21	2.9	-3	-4	115	
116	1500992010100233	4	125	124	109	0%	1.0	0.6	8.0	11.5	12.2	15.0	-0.3	0.9	-11	3	2.9	0	-2	116	
117	1500992010100299	10	123	122	109	0%	1.8	0.6	7.0	10.1	9.9	11.5	-1.0	0.6	-16	-5	2.0	-2	-4	117	
118	1500992010100764	10	123	122	108	-1%	1.7	0.5	7.6	11.6	13.0	15.7	-1.0	-0.1	-11	2	3.2	-2	-3	118	
119	1500992010101094	5	124	123	109	-3%	1.0	0.5	9.0	13.0	13.8	16.9	-0.7	0.3	2	10	3.8	0	-1	119	
120	1500992010100252	5	124	123	107	4%	2.1	0.4	5.6	8.3	9.1	9.7	-0.4	0.9	-19	3	3.3	-2	-3	120	
121	1500992010100296	5	124	125	108	4%	2.0	0.3	4.8	8.0	8.3	9.4	0.0	1.4	-24	-21	2.4	-2	-2	121	
122	1500992010100317	10	123	123	107	8%	0.7	0.4	5.2	8.3	9.4	11.0	-0.2	0.5	-6	-13	3.3	0	-1	122	
123	1500992010100773	10	123	125	107	7%	1.9	0.4	4.7	8.3	9.1	10.2	-0.1	0.5	-32	-19	2.9	-3	-3	123	
124	1500992010100774	5	124	125	107	6%	1.9	0.5	5.4	8.8	9.2	10.6	-0.4	0.5	-31	-15	2.8	-3	-3	124	
125	1500992010101299	10	123	122	107	6%	0.5	0.3	5.4	8.9	9.8	11.2	-0.5	0.8	-5	-2	2.7	-1	-1	125	
126	1500992010101300	5	124	123	108	5%	0.5	0.4	6.3	10.0	11.1	13.2	-0.7	0.5	-5	-3	2.5	0	-1	126	
127	1500992010101332	5	124	123	108	4%	0.4	0.6	7.2	11.0	11.6	14.5	-0.7	0.1	14	2	2.8	0	-2	127	
128	1500992010101439	4	125	124	108	5%	0.8	0.4	6.2	9.6	10.1	11.5	-0.2	0.9	-11	1	3.5	0	-1	128	
129	1500992010101282	4	125	124	109	0%	1.6	0.5	7.8	11.7	12.0	14.1	-0.6	0.1	5	-17	2.1	0	-1	129	
130	1500992010101353	5	124	123	109	2%	0.7	0.3	6.6	10.5	10.9	12.9	0.0	1.0	4	-3	2.5	0	-1	130	
131	1500992010101383	10	123	123	109	1%	0.6	0.5	7.8	11.7	13.1	15.9	-0.4	0.1	0	-11	3.1	0	-1	131	
132	1500992010101429	10	123	124	109	2%	1.2	0.6	7.3	10.1	10.4	12.4	-0.3	0.6	-14	-13	2.8	0	-2	132	
Decile		50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1		
Shaded box top 10 %. Bold type top 25 % of Coopworth Percentile																					

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
106	1500992010101763	64	7	2				19	1	7	3	1500992009092378			106
107	1500992010101812	50	12	1	12		1	20	3	1	7	1500992009091516			107
108	1500992010101977	48	13	2				22	4	11	2	1500392005050756			108
109	1500992010102672	36	1	25	12			25	1		1	1500992009091516			109
110	1500992010100068	28	7	1				25	2	37	2	1500392005050756			110
111	1500992010100122	51	15	3				7	6	18	2	1500392005050756			111
112	1500992010100484	62	10	2	3		1	8	3	11	5	1500992009090941			112
113	1500992010100690	52	4	2	12			8	1	21	3	2300262005050610			113
114	1500992010100695	39	8						3	50	5	2300262007072763			114
115	1500992010100035	34	9	3				12	4	38	4	2300262005050610			115
116	1500992010100233	54	1	2	3			12		28	2	1500992009090941			116
117	1500992010100299	17	3	2				8	3	67	2	2300262007072763			117
118	1500992010100764	44	5					12	1	38	3	1500992008080098			118
119	1500992010101094	50	12	1				15	3	19	1	1500992007071928			119
120	1500992010100252	37	8	1				13	4	37	3	2300262005050610			120
121	1500992010100296	35	9	3				10	3	40	2	2300262005050610			121
122	1500992010100317	61	4	3	14			6	2	10	3	1500992009090941			122
123	1500992010100773	31	7	1	6			15	2	38	2	2300262005050610			123
124	1500992010100774	31	7	1	6			15	2	38	2	2300262005050610			124
125	1500992010101299	69	7	1	6			5	1	11	1	1500992009090767			125
126	1500992010101300	69	7	1	6			5	1	11	1	1500992009090767			126
127	1500992010101332	82	1	2	8		1	5		1	1	1500992009090941			127
128	1500992010101439	40	3		6			6	2	43	1	2350032007073027			128
129	1500992010101282	58	9	2				3	3	25	1	1500992009090498			129
130	1500992010101353	67	5	2				15	1	10	1	1500992009090498			130
131	1500992010101383	71	7	2	3			6	1	10	1	1500992009090941			131
132	1500992010101429	57	4	3	3			6	2	25	1	1500992009090941			132
	Ave Breed %	46	7	2	3	0	0	15	3	23					

page 14		PERFORMANCE MATERNALS																			
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	NLW	MILK	BWT	WWT	PWT	YWT	AWT	PFAT	PEMD	% YGFW	PFEC	PSC	LE DIR	LE DAU	LE LOT	
133	1500992010100149	15	122	122	106	9%	1.0	0.3	4.8	7.9	7.8	9.2	-0.6	-0.3	0	-20	1.9	0	0	133	
134	1500992010100373	10	123	123	105	11%	1.5	0.3	5.6	7.3	7.7	8.3	-0.6	-0.6	6	-2	2.4	-1	-2	134	
135	1500992010100845	15	122	122	105	12%	0.5	0.1	4.4	7.5	9.0	10.0	-0.2	-0.2	2	-2	3.8	0	-1	135	
136	1500992010100898	15	122	122	105	9%	1.5	0.3	5.2	8.0	8.4	8.8	-0.7	-0.7	-5	-10	2.4	0	-2	136	
137	1500992010100918	10	123	122	104	11%	0.8	0.2	4.5	7.4	8.9	9.5	0.0	0.0	3	20	2.2	0	-1	137	
138	1500992010100005	15	122	122	105	9%	1.1	0.2	4.1	7.6	7.7	7.4	0.1	0.0	-5	-10	1.8	-1	-1	138	
139	1500992010100389	15	122	121	106	7%	1.1	0.3	5.8	9.1	10.2	12.4	-1.1	-0.5	-11	5	2.2	-1	-2	139	
140	1500992010100598	15	122	121	108	9%	-1.1	0.1	4.8	7.9	8.4	9.3	-0.4	1.3	-2	-8	3.7	1	2	140	
141	1500992010100680	15	122	122	106	8%	1.0	0.2	5.3	8.4	9.2	10.4	-0.8	-0.5	-3	-15	3.0	1	0	141	
142	1500992010100852	15	122	122	104	15%	0.1	0.1	4.2	7.3	8.0	7.6	-0.5	-0.8	-14	6	2.9	0	-1	142	
143	1500992010100419	15	122	121	108	4%	1.1	0.3	6.2	9.0	9.7	10.0	-1.0	0.2	-4	-12	2.0	0	0	143	
144	1500992010100575	15	122	123	108	0%	1.8	0.6	6.4	10.1	9.8	9.2	-0.5	0.5	-15	-18	1.9	-2	-3	144	
145	1500992010100633	15	122	122	106	6%	0.8	0.4	6.3	9.9	11.1	13.9	-0.5	-0.4	-1	0	2.1	0	0	145	
146	1500992010100922	15	122	122	106	5%	1.8	0.5	6.7	9.3	9.8	13.7	-0.9	-0.6	7	-2	2.6	0	0	146	
147	1500992010101008	10	123	122	108	2%	1.5	0.5	6.2	9.4	10.7	13.1	-0.7	0.6	-16	-9	3.0	-1	-1	147	
148	1500992010100099	15	122	122	109	-1%	1.1	0.5	7.7	11.6	13.1	14.9	-0.7	0.0	-14	-17	3.1	0	0	148	
149	1500992010100135	10	123	122	109	-1%	1.1	0.5	8.2	11.2	11.5	14.2	-0.9	0.5	-14	-1	3.1	-1	-2	149	
150	1500992010100232	10	123	122	109	-1%	1.0	0.6	7.7	10.6	11.4	14.3	-0.4	0.9	-10	-2	2.2	-1	-3	150	
151	1500992010100270	15	122	122	107	0%	1.9	0.4	7.3	10.8	12.3	16.6	-0.4	-0.2	-3	-6	2.3	1	-2	151	
152	1500992010100604	15	122	122	109	-1%	1.2	0.5	6.4	9.3	10.8	13.9	-0.2	1.4	-9	-11	1.9	-1	-3	152	
153	1500992010100090	15	122	123	107	3%	2.1	0.5	5.8	9.1	10.5	12.2	-0.2	0.2	-23	-17	3.0	-3	-3	153	
154	1500992010100240	15	122	122	108	3%	1.8	0.2	4.3	7.3	8.0	8.2	0.0	1.3	-26	-25	2.9	-1	-2	154	
155	1500992010100391	15	122	121	108	6%	-0.3	0.1	5.2	7.5	7.6	8.0	-0.3	1.4	-5	-7	1.9	0	1	155	
156	1500992010100506	15	122	121	109	3%	0.3	0.3	6.2	8.0	8.0	9.3	-0.7	1.6	-4	-7	2.2	0	-1	156	
157	1500992010100801	10	123	123	107	7%	0.7	0.3	5.7	8.2	9.3	10.2	-0.1	0.5	2	-4	2.5	0	-1	157	
158	1500992010100206	15	122	123	108	-1%	2.8	0.5	6.6	9.7	10.8	13.7	-0.6	0.4	-26	-4	3.1	-3	-4	158	
159	1500992010100264	15	122	122	108	2%	0.7	0.3	5.5	9.4	10.6	12.5	-0.2	1.0	-6	-2	3.0	-1	-1	159	
160	1500992010100311	15	122	122	108	-1%	1.7	0.5	7.2	11.2	11.7	12.8	-1.1	-0.1	-17	-14	2.2	-1	-2	160	
161	1500992010100562	15	122	123	109	-1%	1.9	0.5	5.8	9.6	9.4	10.9	-0.1	1.3	-36	-23	3.0	-3	-4	161	
162	1500992010100605	15	122	121	108	1%	1.2	0.5	5.5	9.1	10.9	13.6	-0.2	1.1	-13	-8	2.5	-1	-3	162	
	Decile	50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1		
	Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																				

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
133	1500992010100149	57	19	5				8	8	3	6	1500392005050756			133
134	1500992010100373	60	21	5				6	7	1	5	1500392005050756			134
135	1500992010100845	53	16	3	12		3	7	5	1	3	1500392005050756			135
136	1500992010100898	52	28	2				8	6	4	5	1500392005050756			136
137	1500992010100918	68	15	3				7	6	1	2	1500392005050756			137
138	1500992010100005	55	17	3				18	6	1	2	1500392005050756			138
139	1500992010100389	39	18	2				15	6	20	2	1500392005050756			139
140	1500992010100598	56	5	1	12			12	3	11	3	1500992008080580			140
141	1500992010100680	50	26	2				11	8	3	5	1500392005050756			141
142	1500992010100852	56	22	3				9	8	2	2	1500392005050756			142
143	1500992010100419	34	9				1	3	3	50	6	2300262007072763			143
144	1500992010100575	29	4	2				13	2	50	2	2300262007072763			144
145	1500992010100633	60	12	3	3			8	3	11	2	1500992009090941			145
146	1500992010100922	68	5	5	3			5	3	11	7	1500992009090941			146
147	1500992010101008	17	2	2				11	4	64	3	2350032007073027			147
148	1500992010100099	39	19	1				33	5	3	4	1500392006060801			148
149	1500992010100135	15	3					9	1	72	2	2300262007072763			149
150	1500992010100232	54	1	2	3			12		28	2	1500992009090941			150
151	1500992010100270	65	8	3	3			8	2	11	3	1500992009090941			151
152	1500992010100604	54	7	2	3			10	1	23	3	1500992009090941			152
153	1500992010100090	31	4	1	12			13	1	38	3	2300262005050610			153
154	1500992010100240	33	8	1	6			10	2	40	2	2300262005050610			154
155	1500992010100391	59	13	1				13	3	11	2	1500992008080580			155
156	1500992010100506	55	7	2				13	3	20	2	1500992008080580			156
157	1500992010100801	60	10	3	3		2	8	3	11	2	1500992009090941			157
158	1500992010100206	46	1	2				8	1	42	3	2300262005050610			158
159	1500992010100264	51	9	1				28	1	10	4	1500992009090058			159
160	1500992010100311	27	6	1				14	2	50	2	2300262007072763			160
161	1500992010100562	20	3	1				8	1	67	2	2300262005050610			161
162	1500992010100605	54	7	2	3			10	1	23	3	1500992009090941			162
	Ave Breed %	46	7	2	3	0	0	15	3	23					



LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
163	15009920101198	40	7	1				1	1	50	1	2300262007072763			163
164	15009920101212	34	8				3	3	2	50	1	2300262007072763			164
165	15009920101229	79	5	2				3	1	10	1	1500992009090498			165
166	15009920101279	72	4	1	6		1	6		10	1	1500992009090767			166
167	15009920101320	29		1	6			3		61	1	2300262007072763			167
168	15009920101646	68	6					3	1	22	3	7500052006061218			168
169	15009920102205	58	15	7			3	12	4	1	3	1500392005050756			169
170	15009920102375	56	15	4	12			6	6	1	2	1500392005050756			170
171	15009920102723	26	13	2				18	8	33	2	1500392005050756			171
172	15009920101918	61	1	1	12			25			5	1500992009091516			172
173	15009920101934	41	5	3	25			25	1		3	1500992009091516			173
174	15009920102157	61	23	3				7	5	1	2	1500392005050756			174
175	15009920102178	53	3	4	12			25	3		5	1500992009091516			175
176	15009920101776	47	12					16	3	22	3	1500992008080405			176
177	15009920102192	23	1					29	1	46	2	2300262005050610			177
178	15009920102208	41	2	6				13		38	2	2300262005050610			178
179	15009920102271	46	1	2				13		38	2	2300262005050610			179
180	15009920102866	44	2	25				19	2	8	1	1500992009091849			180
181	15009920101793	30	6					12	2	50	2	2300262005050610			181
182	15009920102038	19	1				2	37	3	38	3	2350032008083017			182
183	15009920102285	23	1	1	25		1	37		12	2	1500992009091516			183
184	15009920102758	63	7		3			15	2	10	1	1500992009092147			184
185	15009920102943	32	5					23	1	39	1	1500992009092147			185
186	15009920101046	36	3	1	12			7	3	38	2	2350032007073027			186
187	15009920101059	74	6	2				2	3	13	1	1500992009090498			187
188	15009920101119	58	8	2				4	3	25	1	1500992009090498			188
189	15009920101191	35	10					8	4	43	1	2350032007073027			189
190	15009920101216	73	4	2				7	1	13	1	1500992009090498			190
	Ave Breed %	46	7	2	3	0	0	15	3	23					

page 18		PERFORMANCE MATERNALS																	
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	NLW	MILK	BWT	WWT	PWT	YWT	AWT	PFAT	PEMD	% YGFW	PFC	DIR	LE	
191	150099201010061	15	122	122	110	-2%	0.6	7.9	11.3	12.7	15.8	-0.4	0.8	0	-12	2.4	-1	-1	
192	150099201010153	15	122	121	109	-1%	1.0	7.2	10.4	9.6	11.7	-0.9	0.6	-2	-5	1.8	-1	-2	
193	150099201010197	15	122	121	108	0%	0.7	6.9	10.5	11.0	12.8	-0.8	0.6	1	9	2.7	1	0	
194	1500992010101338	15	122	122	110	-3%	1.0	7.5	11.0	11.2	12.6	-0.6	1.0	-6	-21	2.9	0	-1	
195	1500992010100116	15	121	120	108	-1%	1.8	6.0	9.5	9.6	10.9	-0.7	0.4	-17	-8	2.2	-1	-3	
196	1500992010100205	15	121	121	108	-2%	2.2	6.6	9.7	11.1	14.1	-0.4	0.7	-25	-7	2.9	-3	-2	
197	1500992010100457	15	121	122	108	0%	2.0	6.2	9.0	10.3	11.9	-0.5	0.6	-20	-27	3.0	-3	-4	
198	1500992010100738	15	121	121	107	3%	2.1	4.8	7.6	8.6	9.8	-0.6	0.6	-22	-15	2.8	-2	-3	
199	1500992010100897	15	121	121	105	8%	1.5	4.7	7.2	7.5	7.7	-0.7	-0.4	-2	-4	2.1	0	-2	
200	1500992010100118	15	121	120	109	-2%	0.4	7.2	10.4	9.8	11.1	-0.7	1.2	-10	14	2.8	0	-1	
201	1500992010100276	15	121	121	107	1%	1.7	5.7	9.1	9.5	10.3	-0.7	0.4	-8	-9	1.7	0	-2	
202	1500992010100353	15	121	120	108	-1%	1.0	5.4	8.7	8.9	10.1	-0.5	1.3	-7	-10	2.2	-1	-1	
203	1500992010100354	15	121	119	108	-1%	1.0	6.2	9.4	9.8	11.4	-0.8	0.9	-6	17	2.1	-1	-1	
204	1500992010100757	15	121	122	106	3%	2.1	5.2	8.4	9.7	12.7	-0.1	0.5	-26	1	2.2	-2	-1	
205	1500992010100167	15	121	121	108	-1%	1.6	7.2	10.0	10.7	13.1	-1.1	0.2	-17	-6	2.2	0	-2	
206	1500992010100351	15	121	120	108	4%	0.4	5.1	7.7	8.9	10.6	-0.4	1.3	1	-11	1.9	0	1	
207	1500992010100367	20	120	120	107	-2%	2.0	5.1	9.0	10.9	12.1	0.0	1.1	-30	0	2.5	-2	-3	
208	1500992010100689	15	121	122	107	5%	1.0	4.7	8.5	9.6	11.2	-0.2	0.5	-26	-14	4.0	-2	-1	
209	1500992010100748	15	121	121	103	14%	0.9	3.9	6.5	7.4	7.6	-0.5	-0.9	-3	-5	2.1	0	-1	
210	1500992010100318	15	121	121	109	-2%	1.0	7.0	10.7	11.0	12.0	-0.9	0.3	-5	-15	3.4	0	0	
211	1500992010100372	15	121	121	106	5%	1.6	4.2	7.7	9.2	10.4	-0.6	0.2	-26	-7	3.2	-2	-3	
212	1500992010100398	20	120	121	107	3%	1.5	6.7	9.2	10.4	11.2	-1.1	-0.4	-18	-11	2.2	-1	-3	
213	1500992010100431	15	121	121	106	4%	2.1	5.4	8.9	11.0	11.3	-0.4	-0.3	-25	-7	2.9	-2	-3	
214	1500992010101042	15	121	120	106	3%	1.7	5.7	8.8	10.8	11.9	-0.6	0.0	1	2	2.8	0	-1	
215	1500992010101107	15	121	120	108	-1%	0.4	7.6	11.0	11.3	14.0	-0.8	0.4	-1	5	3.2	0	-1	
216	1500992010101156	15	121	121	110	-2%	0.9	7.1	9.8	10.1	11.9	-0.3	1.3	-11	-18	2.8	0	0	
217	1500992010101215	15	121	121	108	5%	0.1	5.5	8.5	8.5	9.3	-0.3	0.8	0	-14	1.7	0	0	
218	1500992010101346	15	121	121	108	2%	0.5	6.2	9.6	10.6	11.5	-0.3	0.5	-7	-17	2.1	0	0	
219	1500992010101360	15	121	120	109	-1%	0.3	8.5	11.3	12.8	16.5	-1.0	0.1	-3	-5	2.8	-1	-1	
220	1500992010101396	20	120	120	108	0%	1.3	5.6	9.1	9.3	10.0	-0.7	0.6	-10	-16	1.6	-1	-3	
	Decile	50%	115.5			3%	0.5	5.3	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1	
		Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																	

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
191	15009920101061	63	11	2	3			8	3	10	1	1500992009090941			191
192	15009920101153	67	9	2	6			4	2	10	1	1500992009090767			192
193	15009920101197	39			6		1	8	3	43	1	2350032007073027			193
194	15009920101338	38	3	1				8		50	1	2300262007072763			194
195	1500992010100116	15	9					7	1	68	2	2300262007072763			195
196	1500992010100205	44	2	2				10	2	40	4	2300262005050610			196
197	1500992010100457	42	7					12	1	38	3	2300262005050610			197
198	1500992010100738	38	8	2				12	2	38	2	2300262005050610			198
199	1500992010100897	52	28	2				8	6	4	5	1500392005050756			199
200	1500992010100118	51	6	2				10	3	28	2	1500992008080580			200
201	1500992010100276	28	4	2				13	3	50	3	2300262007072763			201
202	1500992010100353	51	3				3	16	3	24	3	1500992008080580			202
203	1500992010100354	51	3				3	16	3	24	3	1500992008080580			203
204	1500992010100757	36	7	3				12	4	38	6	2300262005050610			204
205	1500992010100167	21	1					8	3	67	2	2300262007072763			205
206	1500992010100351	60	8	3				12	6	11	4	1500992008080580			206
207	1500992010100367	29		1				28	2	40	4	2300262005050610			207
208	1500992010100689	52	4	2	12			8	1	21	3	2300262005050610			208
209	1500992010100748	56	24	3				8	6	3	2	1500392005050756			209
210	1500992010100318	43	16	1				33	5	2	3	1500392006060801			210
211	1500992010100372	38	8	1				12	3	38	3	2300262005050610			211
212	1500992010100398	19	6					7	2	66	2	2300262007072763			212
213	1500992010100431	43	6					16	1	34	4	2300262005050610			213
214	1500992010101042	35	14					8	4	39	5	2350032007073027			214
215	1500992010101107	54	8	1	6			9	3	19	1	1500992007071928			215
216	1500992010101156	43	8					8	3	38	1	2350032007073027			216
217	1500992010101215	73	4	2				7	1	13	1	1500992009090498			217
218	1500992010101346	43	3					8	3	43	1	2350032007073027			218
219	1500992010101360	67	6	2	8			6	1	10	1	1500992009090941			219
220	1500992010101396	43	3	2				1	1	50	1	2300262007072763			220
	Ave Breed %	46	7	2	3	0	0	15	3	23					

		PERFORMANCE COOPWORTHS																			
		% \$Coop		SRC		2020		MILK		PWT		YWT		AWT		PFAT		YGFW		LE	
LOT	ID	band	Index	Index	Index	Index	Index	NLW	BWT	WWT	PWT	YWT	AWT	PFAT	PEMD	%	PFEC	PSC	DIR	DAU	LE
221	1500992010100438	20	120	120	120	106	106	6%	0.6	0.3	8.7	9.6	10.8	-0.3	-0.2	-5	-8	3.3	0	-1	221
222	1500992010100537	20	120	120	120	107	107	5%	0.3	0.3	7.8	7.3	8.9	-0.6	0.6	0	-4	3.0	0	1	222
223	1500992010100542	25	119	119	119	106	106	4%	1.3	0.3	7.5	8.2	9.6	0.0	0.2	-2	-16	1.9	0	-1	223
224	1500992010100550	20	120	120	120	103	103	10%	1.5	0.4	7.7	8.0	8.6	-1.2	-1.5	2	17	1.8	0	-1	224
225	1500992010100793	15	121	121	121	107	107	4%	0.9	0.6	8.8	9.4	13.1	-0.5	0.2	5	-11	1.9	-1	-1	225
226	1500992010100183	15	121	119	119	106	106	7%	-0.5	0.2	7.7	8.4	10.3	-0.6	0.7	2	9	2.5	1	1	226
227	1500992010100271	15	121	121	121	108	108	-2%	1.9	0.4	10.7	11.5	15.9	-0.7	-0.2	-5	-13	2.1	1	-1	227
228	1500992010100623	20	120	120	120	107	107	0%	1.6	0.6	9.3	10.5	13.6	-0.6	0.2	4	-1	1.5	-1	-3	228
229	1500992010100866	25	119	118	118	106	106	3%	1.1	0.4	8.3	9.9	12.0	-0.5	0.0	-8	8	1.9	0	-2	229
230	1500992010100868	20	120	119	119	109	109	-2%	0.5	0.5	9.1	10.0	13.6	-0.2	1.4	-3	-6	1.1	0	0	230
231	1500992010101142	20	120	119	119	109	109	-3%	0.4	0.5	10.8	10.6	12.0	-0.8	0.5	-1	-4	2.2	-1	-1	231
232	1500992010101231	20	120	120	120	108	108	1%	0.2	0.5	11.0	12.1	14.1	-0.7	0.0	-12	-1	3.0	0	-1	232
233	1500992010101267	25	119	118	118	108	108	-3%	0.8	0.4	9.8	10.6	12.1	-0.8	0.4	5	1	1.1	0	-1	233
234	1500992010101303	15	121	120	120	108	108	-1%	1.1	0.5	10.5	10.8	12.2	-0.8	0.1	10	-8	1.5	-1	-2	234
235	1500992010101337	15	121	120	120	107	107	3%	0.5	0.6	10.5	11.9	13.9	-1.1	-0.7	1	-6	2.8	-1	-1	235
Decile		50%	115.5					3%	0.5	0.4	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1	
Shaded box top 10 %		Bold type top 25 % of Coopworth Percentile																			

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
221	1500992010100438	Coopworth										1500992009090058			221
222	1500992010100537	Coopworth										1500992008080580			222
223	1500992010100542	Coopworth										1500992009090058			223
224	1500992010100550	Coopworth										1500392005050756			224
225	1500992010100793	Coopworth										1500992009090941			225
226	1500992010100183	Coopworth										1500992008080580			226
227	1500992010100271	Coopworth										1500992009090941			227
228	1500992010100623	Coopworth										1500992009090941			228
229	1500992010100866	Coopworth										1500992009090941			229
230	1500992010100868	Coopworth										1500992009090941			230
231	1500992010101142	Coopworth										1500992009090498			231
232	1500992010101231	Coopworth										1500992009090498			232
233	1500992010101267	Coopworth										1500992009090498			233
234	1500992010101303	Coopworth										1500992009090498			234
235	1500992010101337	Coopworth										1500992009090498			235

page 22		PERFORMANCE MATERNALS																			
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	NLW	MILK	BWT	WWT	PWT	YWT	AWT	PFAT	PEMD	% YGFW	PFC	DIR	LE	DAU	LOT	
236	1500992010101835	15	121	123	108	2%	1.9	0.4	5.6	8.7	8.2	9.7	0.5	0.5	-23	3.4	-2	-1	236		
237	1500992010101906	20	120	121	107	3%	1.9	0.2	5.4	7.6	6.8	8.4	-0.5	0.7	-22	3.9	-1	-1	237		
238	1500992010102024	15	121	122	107	1%	2.7	0.4	5.1	7.8	8.8	9.9	0.0	0.8	-20	2.5	-3	-3	238		
239	1500992010102222	15	121	121	109	-1%	2.0	0.3	5.3	8.6	9.7	11.4	-0.2	1.3	-25	3.4	-2	-3	239		
240	1500992010101880	15	121	122	109	-2%	1.8	0.3	6.2	9.3	10.5	11.6	0.0	1.3	-28	3.8	-3	-3	240		
241	1500992010101964	20	120	121	107	1%	2.3	0.5	6.4	9.7	10.7	13.1	-0.9	-0.4	-24	3.4	-3	-5	241		
242	1500992010102259	15	121	121	108	0%	1.8	0.2	5.2	8.8	9.6	10.7	0.2	1.3	-27	3.4	-1	-1	242		
243	1500992010102363	15	121	122	107	0%	2.9	0.2	4.9	7.9	8.6	9.4	0.2	0.9	-31	3.6	-2	-2	243		
244	1500992010101661	15	121	123	109	3%	0.4	0.4	6.3	9.1	7.4	8.1	0.7	0.8	-13	4.7	-1	-1	244		
245	1500992010101866	15	121	121	107	5%	0.3	0.3	4.7	8.3	8.2	9.9	0.4	0.8	0	2.3	0	0	245		
246	1500992010102579	20	120	123	109	5%	0.4	0.3	5.3	8.7	9.3	10.4	0.0	0.4	-7	2.0	1	1	246		
247	1500992010102715	15	121	121	110	2%	-0.2	0.4	6.1	7.9	8.6	8.1	-0.2	2.1	-18	1.8	1	1	247		
248	1500992010102988	15	121	122	106	6%	1.3	0.3	4.7	8.2	7.9	8.7	-0.1	0.1	-15	2.2	1	0	248		
249	1500992010101910	15	121	121	106	6%	1.3	0.2	3.5	6.8	8.7	9.6	1.2	1.3	-14	2.0	-1	-1	249		
250	1500992010102065	15	121	121	105	6%	1.3	0.3	5.8	8.8	8.3	9.5	-0.8	-0.5	1	3.2	0	0	250		
251	1500992010102218	15	121	121	105	9%	0.8	0.0	3.8	7.2	8.0	8.3	0.1	0.2	0	2.7	1	0	251		
252	1500992010102583	15	121	119	108	3%	0.2	0.1	4.3	6.7	7.3	8.6	0.2	2.2	5	4	0	1	252		
253	1500992010102709	15	121	118	106	2%	0.9	0.4	5.7	8.4	9.7	10.4	-0.6	1.0	8	2.1	-1	-1	253		
254	1500992010101687	20	120	118	104	12%	-0.4	0.4	5.7	7.6	8.0	9.3	-0.8	-1.0	3	3.4	0	0	254		
255	1500992010101784	20	120	120	106	7%	-0.2	0.4	5.2	8.5	8.7	11.4	-0.1	-0.3	14	3.0	0	-1	255		
256	1500992010101849	20	120	121	106	8%	0.9	0.1	3.8	7.8	8.5	8.6	-0.8	-0.9	5	2.7	0	-1	256		
257	1500992010101850	20	120	120	103	12%	0.8	0.2	4.1	7.0	7.4	9.6	-0.4	-0.8	-8	2.9	0	-2	257		
258	1500992010102133	20	120	121	106	10%	0.5	0.1	4.2	7.2	8.1	9.5	-0.6	-0.8	8	2.0	1	1	258		
259	1500992010101700	20	120	123	110	1%	0.5	0.3	5.5	8.2	8.4	9.8	1.0	1.9	-11	3.0	-1	-2	259		
260	1500992010101834	20	120	122	108	2%	1.9	0.5	6.2	9.2	9.6	11.5	-0.4	-0.2	-22	2.9	-2	-1	260		
261	1500992010102184	20	120	122	110	0%	1.1	0.6	8.7	11.2	11.0	13.4	-1.1	-0.8	1	4.4	-1	-2	261		
262	1500992010102582	20	120	122	110	-1%	1.2	0.4	6.7	9.5	9.0	8.8	-0.5	0.6	-17	2.8	1	0	262		
263	1500992010102759	20	120	119	106	2%	0.7	0.4	7.1	10.2	10.4	12.0	-0.8	-0.6	1	2.9	0	0	263		
264	1500992010102867	25	119	121	107	4%	1.0	0.3	5.0	7.6	7.7	8.8	0.0	0.3	0	1.7	0	0	264		
	Decile	50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	2.1	0	-1			
	Shaded box top 10 %. Bold type top 25 % of Coopworth Percentile																				

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
236	15009920101835	41	3	3				12	3	38	6	2300262005050610			236
237	15009920101906	34	8	3				12	5	38	6	2300262005050610			237
238	15009920102024	39	3	3				12	5	38	5	2300262005050610			238
239	15009920102222	37	10	1				12	2	38	2	2300262005050610			239
240	15009920101880	48	1	1				12		38	2	2300262005050610			240
241	15009920101964	21	2	1				12	1	63	2	2300262005050610			241
242	15009920102259	39	4	1				18	1	37	2	2300262005050610			242
243	15009920102363	37	8					14	3	38	3	2300262005050610			243
244	15009920101661	10	7	8	25					50	3	2300022008080035			244
245	15009920101866	51	5	2				22	3	17	2	1500992009092378			245
246	15009920102579	56	11	3				20	3	7	2	1500992009091849			246
247	15009920102715	4						58	1	37	1	2350032009093665			247
248	15009920102988	44	8	7			5	26	3	7	1	1500992009091849			248
249	15009920101910	22		25			3	12		38	6	2300262005050610			249
250	15009920102065	47	9	3	12			25	3	1	5	1500992009091516			250
251	15009920102218	55	13	3		12peren		12	4	1	2	1500392005050756			251
252	15009920102583	43	3	1	12			37	1	3	2	1500992009091516			252
253	15009920102709	36	1	1	12			30		20	2	1500992009091516			253
254	15009920101687	48	13			25peren		1	13		4	CM09162005053253			254
255	15009920101784	47	13			25peren			15		4	CM09162005053253			255
256	15009920101849	55	21	5				8	10	1	5	1500392005050756			256
257	15009920101850	58	17	6				13	5	1	3	1500392005050756			257
258	15009920102133	38	3	4	12	12		21	3	7	3	1500992009091849			258
259	15009920101700	25		12				13		50	3	2300022008080035			259
260	15009920101834	41	3	3				12	3	38	6	2300262005050610			260
261	15009920102184	63	5	1	12			5	2	12	3	1500992009091720			261
262	15009920102582	31	7	3				25	7	27	2	1500992009091849			262
263	15009920102759	80	3		5			2		10	1	1500992009091720			263
264	15009920102867	44	2	25				19	2	8	1	1500992009091849			264
	Ave Breed %	46	7	2	3	0	0	15	3	23					



LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
265	1500992010101905	34	8	3				12	5	38	6	2300262005050610			265
266	1500992010102442	43	15	2				23	6	11	2	1500392005050756			266
267	1500992010102448	51	6	3	12		1	25	2		5	1500992009091516			267
268	1500992010102607	53	3	2	12			25		5	1	1500992009091516			268
269	1500992010102941	22	3					33	2	40	1	1500992007072456			269
270	1500992010100169	33	11	3				10	3	40	2	2300262005050610			270
271	1500992010100204	44	2	2				10	2	40	4	2300262005050610			271
272	1500992010100381	54	19	3				18	5	1	3	1500392005050756			272
273	1500992010100584	37	5	5				1	2	50	3	2300262007072763			273
274	1500992010100784	54	5	1				24	5	11	4	1500992008080580			274
275	1500992010100171	37	7					32	5	19	2	1500392006060801			275
276	1500992010100369	59	5	3				16	3	14	5	1500992008081145			276
277	1500992010100561	20	3	1				8	1	67	2	2300262005050610			277
278	1500992010100588	56	13	3	12			8	5	3	4	1500392005050756			278
279	1500992010100734	59	9	3				12	5	12	4	1500992008080580			279
280	1500992010100067	28	7	1				25	2	37	2	2300262005050610			280
281	1500992010100210	35	12						3	50	5	2300262007072763			281
282	1500992010100224	49	8	1	12			25	3	2	2	1500392006060801			282
283	1500992010100780	16	7					14	2	61	2	2300262005050610			283
284	1500992010100032	46	9	3				31	9	2	5	1500392006060801			284
285	1500992010100223	49	8	1	12			25	3	2	2	1500392006060801			285
286	1500992010100528	38	6	1				3	2	50	3	2300262007072763			286
287	1500992010100967	40	8	2	12		1	15	3	19	3	1500992007071928			287
288	1500992010101323	33	4	1				16	3	43	1	2350032007073027			288
289	1500992010101428	57	4	3	3			6	2	25	1	1500992009090941			289
290	1500992010101430	74	8	2				13	2	1	1	1500992009090498			290
291	1500992010101447	65	2	2	3			5		23	1	1500992009090941			291
292	1500992010101448	65	2	2	3			5		23	1	1500992009090941			292
	Ave Breed %	46	7	2	3	0	0	15	3	23					

		PERFORMANCE MATERNALS																									
LOT	ID	%	\$Coop		SRC		2020		MILK		PWT		YWT	AWT	PFAT		PEMD		YGFW		PSC		LE		LE		
			band	Index	Index	Index	Index	Index	Index	Index	Index	Index			Index	Index	Index	Index	Index	Index	Index	Index	Index	Index		Index	Index
293	1500992010101165	20	120	119	109	109	109	109	0.9	0.4	7.7	10.6	9.7	12.4	-1.2	0.7	1	-4	3.0	0	-1	293					
294	1500992010101293	25	119	118	108	108	108	108	-0.2	0.3	6.4	9.7	9.3	11.4	-0.7	0.9	4	-4	2.0	1	1	294					
295	1500992010101325	20	120	119	108	108	108	108	1.4	0.6	6.6	9.7	10.2	11.7	-1.0	0.4	-11	0	1.7	-1	-3	295					
296	1500992010101385	25	119	118	108	108	108	108	0.2	0.5	6.6	9.7	10.9	14.4	-0.7	0.6	-1	-8	2.4	-1	0	296					
297	1500992010101452	25	119	118	108	108	108	108	0.6	0.4	6.1	8.6	8.9	10.3	-0.2	1.3	-3	1	1.8	-1	-2	297					
298	1500992010100098	25	119	119	108	108	108	108	1.1	0.3	5.6	9.1	10.1	10.9	-0.3	0.5	-13	-21	3.0	0	0	298					
299	1500992010100132	25	119	118	107	107	107	107	0.8	0.5	6.5	9.4	10.2	11.7	-0.7	0.4	-18	4	2.5	-1	-1	299					
300	1500992010100163	25	119	119	105	105	105	105	0.8	0.3	6.2	8.9	9.8	11.5	-0.7	-0.8	-3	4	2.9	0	-1	300					
301	1500992010100756	25	119	119	106	106	106	106	2.1	0.4	5.4	8.0	9.5	12.7	-0.5	-0.2	-22	-5	2.1	-2	-1	301					
302	1500992010100887	25	119	120	107	107	107	107	2.2	0.5	6.5	9.5	9.4	11.8	-0.8	0.2	-34	-4	2.8	-2	-4	302					
303	1500992010100024	25	119	118	107	107	107	107	0.9	0.5	7.2	10.0	11.2	14.2	-0.4	0.4	-11	21	2.0	0	-1	303					
304	1500992010100340	25	119	119	108	108	108	108	0.1	0.4	6.7	11.3	12.6	15.2	-0.3	0.1	-3	-14	2.8	0	1	304					
305	1500992010100368	25	119	120	108	108	108	108	2.1	0.5	6.3	8.9	10.8	12.2	-0.4	0.2	-26	-20	2.9	-4	-3	305					
306	1500992010100437	25	119	119	106	106	106	106	0.6	0.4	5.3	8.3	8.9	10.2	-0.2	0.1	-1	-2	2.5	-1	-1	306					
307	1500992010101014	25	119	118	108	108	108	108	0.5	0.4	6.8	9.3	9.5	11.7	-0.7	0.7	-5	3	2.3	0	-1	307					
308	1500992010101796	25	119	121	109	109	109	109	2.6	0.7	6.6	10.3	12.4	14.0	-0.6	-0.1	-21	-43	2.8	-5	-7	308					
309	1500992010101824	25	119	121	107	107	107	107	1.9	0.3	4.3	6.9	7.9	8.7	-0.7	-0.3	0	-69	1.2	-1	-2	309					
310	1500992010101915	25	119	120	109	109	109	109	1.4	0.3	5.7	7.7	9.1	11.4	0.3	1.4	6	-38	1.3	1	0	310					
311	1500992010102213	25	119	119	109	109	109	109	1.5	0.4	6.1	10.2	10.0	11.7	-0.5	0.7	-7	-33	2.0	0	-2	311					
312	1500992010102290	25	119	120	109	109	109	109	1.7	0.4	6.5	9.8	10.3	13.6	-0.2	0.8	-24	-27	3.0	0	-1	312					
313	1500992010102421	25	119	119	108	108	108	108	1.6	0.3	5.3	7.4	7.8	9.5	-0.8	0.9	-22	-25	2.7	0	-1	313					
314	1500992010101626	25	119	120	107	107	107	107	-0.2	0.2	5.6	7.3	8.9	8.8	0.9	1.0	10	-20	2.1	0	0	314					
315	1500992010101830	25	119	119	106	106	106	106	1.2	0.4	3.6	5.6	5.8	5.6	0.4	1.6	-13	-6	1.4	-1	-2	315					
316	1500992010101895	25	119	119	106	106	106	106	0.8	0.2	4.1	6.6	6.6	8.1	-0.5	0.3	-8	-15	2.1	1	-1	316					
317	1500992010102733	25	119	119	105	105	105	105	1.0	0.3	4.2	7.2	8.8	11.7	-0.8	-0.4	-11	-11	0.2	0	-1	317					
318	1500992010102771	25	119	120	108	108	108	108	0.2	0.3	5.8	9.7	10.0	11.6	-0.7	-0.4	2	-38	2.8	1	0	318					
319	1500992010101775	30	118	119	106	106	106	106	4%	0.5	3.9	6.7	7.3	8.8	-0.8	-0.3	8	-50	0.8	-2	-3	319					
320	1500992010102351	30	118	119	108	108	108	108	1%	0.2	6.0	9.5	8.7	9.6	-0.6	-0.3	0	-50	3.4	1	1	320					
321	1500992010102688	30	118	120	108	108	108	108	0.6	0.6	7.3	10.8	11.3	13.3	-0.9	-1.2	4	-41	3.5	0	-1	321					
322	1500992010102767	30	118	119	110	110	110	110	0.2	0.5	7.6	10.4	10.1	11.4	-0.7	0.4	-17	-37	3.3	1	0	322					
323	1500992010102832	30	118	121	110	110	110	110	0%	0.3	4.6	7.5	7.9	8.7	0.1	1.3	-28	-70	1.2	1	-1	323					
324	1500992010103003	30	118	120	109	109	109	109	2%	0.1	0.3	7.4	7.3	8.0	0.4	1.5	-25	-46	1.9	0	0	324					
	Decile	50%	115.5						3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	-9	2.1	0	-1					
	Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																										

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
293	15009920101165	58	9	2				9	3	19	1	1500992009090767			293
294	15009920101293	67	11	2				6	3	11	1	1500992009090498			294
295	15009920101325	32	2					3	1	62	1	2300262007072763			295
296	15009920101385	64	7	1	12			4	2	10	1	1500992009090767			296
297	15009920101452	68	3	2				13	1	13	1	1500992009090498			297
298	15009920100098	39	19	1				33	5	3	4	1500392006060801			298
299	15009920100132	30	1	1	12			6		50	3	2300262007072763			299
300	15009920100163	62	16	2			1	13	5	1	4	1500392005050756			300
301	15009920100756	36	7	3				12	4	38	6	2300262005050610			301
302	15009920100887	20	3					9	2	66	3	2300262005050610			302
303	15009920100024	54		3	3			26	2	12	4	1500992009090941			303
304	15009920100340	45	11	1	12			26	4	1	2	1500392006060801			304
305	15009920100368	39	6	3				12	2	38	3	2300262005050610			305
306	15009920100437	53	9		12			15	1	10	4	1500992009090058			306
307	15009920101014	48	13	3				12	4	20	2	1500992007071928			307
308	15009920101796	21	3					25	1	50	2	2300262005050610			308
309	15009920101824	68	6	1	3			19	3		2	1500992008080405			309
310	15009920101915	22	8	13				32	3	22	5	2350032009093735			310
311	15009920102213	34	9	1				28	5	23	2	1500392006060801			311
312	15009920102290	62	7					17	1	13	2	1500992009091713			312
313	15009920102421	40	7					15	3	35	2	1500992009091713			313
314	15009920101626	58	14	2				13	13		3	7500052006061218			314
315	15009920101830	25	5					30	2	36	3	2350032009093735			315
316	15009920101895	31	18	9				11	5	26	2	1500392005050756			316
317	15009920102733	58	15	3				18	5	1	2	1500392005050756			317
318	15009920102771	68	7	1				10	4	10	1	1500992009091720			318
319	15009920101775	47	12					16	3	22	3	1500992008080405			319
320	15009920102351	63	12	1				9	4	11	8	1500992009091720			320
321	15009920102688	48	4	8	25			3	2	10	3	1500992009091720			321
322	15009920102767	37	4	1				32	2	24	1	1500992009091720			322
323	15009920102832	41	1	3				34	3	18	2	1500992009091849			323
324	15009920103003	25		2				42		31	1	1500992009091849			324
	Ave Breed %	46	7	2	3	0	0	15	3	23					

page 28		PERFORMANCE MATERNALS																			
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	NLW	MILK	BWT	WWT	PWT	YWT	AWT	PFAT	PEMD	% YGFW	PSEC	DIR	LE	DAU	LE	LOT
325	15009920101888	30	118	119	106	5%	1.0	0.3	4.2	6.7	8.3	9.0	-0.5	0.2	-10	2.1	-1		-2		325
326	150099201012087	30	118	118	104	8%	1.0	0.1	3.9	6.6	6.7	8.8	-0.5	-0.7	-5	1.6	1	0	0		326
327	15009920102216	30	118	118	104	11%	0.3	0.1	3.0	6.3	6.1	5.8	-0.8	-0.6	-12	2.3	0	0	-2		327
328	150099201012267	30	118	117	106	5%	0.3	0.4	4.9	7.7	10.2	12.2	-0.8	-0.3	18	1.1	-1	-1	-1		328
329	150099201012584	30	118	117	105	6%	0.6	0.3	4.5	6.7	7.5	8.4	-0.2	0.2	12	5	-1	-1	-1		329
330	150099201012591	30	118	117	105	9%	-0.7	0.3	4.6	6.0	8.4	9.9	-0.4	0.3	19	-2	0	2	2		330
331	15009920101618	30	118	115	104	4%	0.0	0.3	5.2	7.4	7.3	8.5	-0.5	0.3	14	45	1	0	0		331
332	15009920101677	30	118	118	108	3%	-0.4	0.2	5.1	7.8	7.4	8.3	0.0	1.1	5	-16	1	0	0		332
333	150099201012261	30	118	119	109	-5%	0.8	0.3	6.2	9.9	9.8	11.9	0.5	1.1	1	-23	0	0	0		333
334	150099201012386	30	118	117	106	4%	-0.3	0.2	5.7	8.3	9.9	11.4	-0.3	0.2	3	3	0	1	1		334
335	150099201012954	25	119	119	109	-5%	1.3	0.5	7.5	10.9	10.5	12.6	-0.7	0.5	-20	3.2	1	0	0		335
336	150099201013033	25	119	121	110	-1%	0.3	0.5	8.1	12.1	13.7	16.6	-1.0	-0.8	-5	3.8	0	0	0		336
337	15009920101900	30	118	120	108	-1%	1.1	0.4	5.3	9.1	8.2	9.4	-0.2	0.2	-21	2.3	1	-1	-1		337
338	150099201012124	40	117	119	107	5%	0.9	0.3	4.1	7.5	8.9	9.6	-0.6	-0.5	2	1.1	0	0	0		338
339	150099201012301	40	117	118	107	7%	-0.2	0.1	3.1	6.2	7.3	8.6	0.2	0.6	8	0.9	0	1	1		339
340	150099201012578	40	117	119	107	5%	0.4	0.3	5.0	8.0	9.1	10.3	-0.2	-0.4	-9	1.7	1	1	1		340
341	150099201012921	40	117	118	107	1%	1.1	0.3	6.1	8.2	9.2	11.6	-0.8	-0.4	1	2.2	1	1	1		341
342	15009920101652	40	117	118	108	1%	0.3	0.3	4.6	7.5	8.4	10.0	-0.1	0.8	-4	2.5	1	0	0		342
343	15009920101688	30	118	115	101	12%	-0.4	0.4	5.1	7.3	8.3	9.8	-1.1	-1.5	4	44	0	0	0		343
344	15009920101722	30	118	118	104	8%	0.3	0.1	5.6	6.5	7.8	7.6	0.7	0.2	10	2.2	1	0	0		344
345	150099201012231	35	117	116	104	4%	1.2	0.4	5.8	8.0	9.6	11.8	-1.0	-0.9	1	1.6	0	0	0		345
346	150099201012359	40	117	117	105	2%	1.4	0.3	5.8	8.1	6.9	8.9	-0.5	-0.3	-4	6	0	-1	-1		346
347	15009920101659	30	118	118	106	4%	-0.1	0.4	6.2	8.4	9.3	10.5	0.2	-0.2	13	3	0	0	0		347
348	150099201012174	35	117	118	105	7%	0.6	0.3	4.4	7.3	8.2	8.6	-0.8	-0.9	-9	2.7	0	-2	-2		348
349	150099201012485	35	117	118	108	4%	-0.4	0.3	3.7	6.2	5.8	6.0	0.5	1.6	-10	1.6	0	1	1		349
350	150099201012667	40	117	117	109	-2%	-0.3	0.4	6.1	9.3	9.9	12.9	-0.4	0.9	-7	2.2	0	0	0		350
351	150099201012953	40	117	117	109	-1%	-0.4	0.4	6.7	8.7	8.5	10.3	-0.6	1.0	-12	2.3	0	0	0		351
Decile		50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	-0.3	0.0	19	2.1	0	-1	-1		
Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																					

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
325	15009920101888	53	22	3	6			8	7	1	3	1500392005050756			325
326	15009920102087	63	17	3				8	7	2	6	1500392005050756			326
327	15009920102216	48	2	15				6		26	2	1500392005050756			327
328	15009920102267	65	7	2				18	1	7	2	1500992009092378			328
329	15009920102584	51	6	2	12			25	3	1	3	1500992009091516			329
330	15009920102591	33	3	1	37		1	25			3	1500992009091516			330
331	15009920101618	64	18					3	14	1	3	CM09162005053253			331
332	15009920101677	48	14	6	12			6	14		3	CM09162005053253			332
333	15009920102261	55	12					27	5	1	2	1500392006060801			333
334	15009920102386	44	4	2	12			37	1		2	1500992009091516			334
335	15009920102954	25	5					9	1	60	1	1500992009092147			335
336	15009920103033	67	6	1	6			9	1	10	1	1500992009091720			336
337	15009920101900	54	1	3			1	32	2	7	5	1500992009091849			337
338	15009920102124	49	7	2				16	4	22	2	1500992008080405			338
339	15009920102301	63	12				1	20	3	1	2	1500992008080405			339
340	15009920102578	56	11	3				20	3	7	2	1500992009091849			340
341	15009920102921	74	7	2				4	3	10	1	1500992009091720			341
342	15009920101652	29	5	2	12			1	1	50	3	2300022008080035			342
343	15009920101688	48	13			25peren		1	13		4	CM09162005053253			343
344	15009920101722	84	6					6	3	1	4	7500052006061218			344
345	15009920102231	46	10	3	12			25	3	1	4	1500992009091516			345
346	15009920102359	56	7		12		1	11	3	10	3	1500992009092147			346
347	15009920101659	76	3	1	12			7	1		3	7500052006061171			347
348	15009920102174	59	15	3	12			6	4	1	2	1500392005050756			348
349	15009920102485	15			12			50		25	1	2350032008083017			349
350	15009920102667	36	5	2			1	27	3	26	1	1500992007072456			350
351	15009920102953	32		1				23		42	1	1500992007072456			351
Ave Breed %															
		46	7	2	3	0	0	15	3	23					

page 30		PERFORMANCE MATERNALS																			
LOT	ID	% band	\$Coop Index	SRC Index	2020 Index	NLW	MILK		BWT	WWT	PWT	YWT	AWT	PFAT		YGFW		LE			
							Index	%						%	PEMD	%	PFEC	PSC	DIR	DAU	LE
352	1500992010102203	45	116	118	106	7%	-0.2	0.4	4.8	7.3	8.0	10.0	10.0	-0.7	8	-49	1.5	0	0	352	
353	1500992010102513	40	117	118	108	-4%	2.8	0.3	3.4	6.1	7.2	9.0	9.0	0.1	-26	-43	1.3	-2	-3	353	
354	1500992010102646	40	117	119	109	-2%	0.9	0.3	6.3	9.5	10.0	11.5	11.5	0.0	-7	-52	2.2	1	0	354	
355	1500992010102682	40	117	118	109	-4%	0.9	0.4	6.9	9.7	9.2	10.2	10.2	-0.4	0.3	-5	-41	2.6	1	1	355
356	1500992010102753	40	117	119	109	-3%	0.5	0.4	7.0	10.0	8.8	10.1	10.1	-0.3	0.1	-7	-55	2.9	0	1	356
357	1500992010102922	40	117	119	109	-3%	1.0	0.5	7.0	10.0	10.0	11.6	11.6	-0.6	-0.2	-11	-52	2.5	1	0	357
358	1500992010101792	40	117	118	107	-3%	1.9	0.5	5.5	9.0	11.4	14.3	14.3	-0.4	-0.1	-24	2.4	-4	-5	358	
359	1500992010102014	40	117	118	107	-3%	2.3	0.2	4.6	8.0	8.8	9.3	9.3	0.2	0.6	-19	2.8	0	0	359	
360	1500992010102099	40	117	117	107	-2%	0.8	0.5	5.1	8.5	9.1	10.2	10.2	0.0	0.7	-6	1.4	-1	-1	360	
361	1500992010102575	45	116	117	107	-1%	1.2	0.3	6.3	9.1	9.0	10.2	10.2	-0.7	-0.6	-1	2.7	1	0	361	
362	1500992010102616	45	116	117	106	1%	1.3	0.2	4.0	7.0	6.8	7.0	7.0	0.3	0.4	0	1.0	1	1	362	
363	1500992010102617	40	117	118	108	-1%	1.0	0.4	6.5	9.2	8.9	9.9	9.9	-1.0	-0.3	-10	2.8	1	0	363	
364	1500992010101704	50	115	115	105	-1%	0.1	0.1	6.1	8.0	9.1	9.0	9.0	0.6	0.7	5	3.6	1	0	364	
365	1500992010101861	45	116	117	108	-1%	0.6	0.2	6.0	8.7	7.8	10.3	10.3	-0.6	-0.1	-4	1.8	2	1	365	
366	1500992010102236	45	116	115	105	-1%	1.7	0.5	5.8	8.7	9.6	11.9	11.9	-0.8	-0.5	-20	2.6	0	-2	366	
367	1500992010102412	45	116	116	108	-4%	1.0	0.4	5.9	10.0	10.1	11.5	11.5	-1.0	-0.2	-8	2.0	1	0	367	
368	1500992010102441	45	116	116	104	6%	0.3	0.1	4.1	6.8	7.0	7.1	7.1	-0.5	-0.3	-9	2.6	0	0	368	
369	1500992010102610	45	116	117	107	1%	0.0	0.4	5.9	7.5	9.0	10.0	10.0	0.0	0.0	-24	0.0	0	0	369	
370	1500992010102661	45	116	116	107	-4%	0.9	0.4	6.4	9.3	8.3	10.8	10.8	-0.7	0.1	-3	2.6	0	0	370	
371	1500992010102666	45	116	116	108	-3%	-0.3	0.4	5.8	8.8	9.1	11.9	11.9	-0.4	1.0	-12	2.1	0	0	371	
372	1500992010102687	45	116	115	108	-9%	1.8	0.4	6.9	10.2	9.0	11.3	11.3	-0.4	0.7	-29	3.1	0	0	372	
373	1500992010102768	45	116	117	109	-4%	0.5	0.5	7.1	9.7	10.5	14.0	14.0	-0.8	0.2	-16	3.6	-1	-1	373	
374	1500992010102897	45	116	116	106	2%	0.6	0.3	4.1	6.1	6.9	8.1	8.1	-0.6	0.9	-6	2.0	-2	-1	374	
375	1500992010102969	45	116	115	108	-7%	0.7	0.4	7.0	10.7	10.4	12.2	12.2	-0.7	0.1	1	2.4	1	0	375	
376	1500992010101624	45	116	115	105	2%	0.1	0.3	5.2	8.4	8.1	9.6	9.6	-0.4	-0.1	0	3.0	0	-1	376	
377	1500992010101813	45	116	115	107	-5%	1.1	0.4	6.4	8.5	8.9	11.5	11.5	-0.8	0.8	-18	2.6	-1	-1	377	
378	1500992010102428	45	116	117	111	-5%	-0.6	0.2	6.0	9.3	9.9	11.6	11.6	0.3	1.9	-14	2.6	0	1	378	
379	1500992010102512	45	116	117	108	-5%	2.8	0.3	3.5	5.5	5.8	7.3	7.3	0.3	2.1	-34	1.3	-2	-3	379	
380	1500992010102550	45	116	116	105	5%	-0.1	0.1	3.0	6.4	6.8	6.4	6.4	-0.1	0.5	-13	1.8	1	1	380	
381	1500992010102714	45	116	116	108	-4%	1.3	0.5	5.6	9.2	8.6	11.5	11.5	-1.0	-0.3	-8	1.0	0	-1	381	
	Decile	50%	115.5			3%	0.5	0.4	5.3	7.1	8.2	8.8	8.8	-0.3	0.0	19	2.1	0	-1		
		Shaded box top 10 %, Bold type top 25 % of Coopworth Percentile																			

LOT	ID	CP	EF	BL	RM	FN	SM	PD	TX	WS	Dam Age	SIRE	PURCHASER	PRICE	LOT
352	1500992010102203	40	1	3	25		1	20	3	7	3	1500992009091849			352
353	1500992010102513	38		1			1	33		26	6	2300262005050610			353
354	1500992010102646	56	5	3				26	3	7	1	1500992009091849			354
355	1500992010102682	41	4	8				9	1	37	1	1500992009091720			355
356	1500992010102753	51	4	3				22	3	17	1	1500992009091720			356
357	1500992010102922	43	2	3				19	2	31	1	1500992009091849			357
358	1500992010101792	50		1				20		28	2	2300262005050610			358
359	1500992010102014	52	12					16	6	14	5	1500992009091713			359
360	1500992010102099	24	6	8	12			37		13	3	2350032008083017			360
361	1500992010102575	75	3	2				9	1	10	2	1500992009091720			361
362	1500992010102616	50	8	3				28	3	8	1	1500992009091849			362
363	1500992010102617	62	10	5				10	3	10	1	1500992009091720			363
364	1500992010101704	87		1				12			3	7500052006061218			364
365	1500992010101861	45	14	3				25	5	8	5	1500992009091849			365
366	1500992010102236	34	3				12	13	1	37	3	1500992009091713			366
367	1500992010102412	24	8	1	12			28	4	23	2	1500392006060801			367
368	1500992010102441	43	15	2				23	6	11	2	1500392005050756			368
369	1500992010102610	67	6					1	1	25	1				369
370	1500992010102661	65	5	1	3			10	1	15	1	1500992009092147			370
371	1500992010102666	36	5	2			1	27	3	26	1	1500992007072456			371
372	1500992010102687	50	7					19	1	23	1	1500992009092147			372
373	1500992010102768	31	4		12			12	3	38	1	1500992007072456			373
374	1500992010102897	40		1	11			25	1	20	1	1500992009091516			374
375	1500992010102969	65	9					15	1	10	1	1500992009092147			375
376	1500992010101624	53	20	4				8	14	1	3	CM09162005053253			376
377	1500992010101813	51	8					15	2	24	2	1500992009091713			377
378	1500992010102428	47	7					39	3	4	3	1500392006060801			378
379	1500992010102512	37		1			1	32		26	6	2300262005050610			379
380	1500992010102550	48	3	5			1	33	3	7	5	1500992009091849			380
381	1500992010102714	44	6	8				13		27	3	1500992008080405			381
	Ave Breed %	46	7	2	3	0	0	15	3	23					

		POLL DORSETS																			
LOT	ID	% band	Materna		SRC		2020		MILK		BWT	WWT	PWT	YWT	AWT	PFAT	YGFW			LE	
			Index	Index	Index	Index	NLW	Index	Index	Index							Index	Index	Index	Index	Index
382	2350032010103809	1	142	142	136	133	113	12%	2.4	0.4	8.2	13.5	15.5	18.7	-0.7	1.8	-34	3.1			
383	2350032010103691	1	137	136	133	113	5%	1.6	0.5	8.6	14.3	15.8	18.1	-0.7	1.6	-25	2.8				
384	2350032010103696	1	133	133	133	113	4%	1.9	0.5	6.8	11.0	9.8	11.2	-0.2	3.2	-17	2.3				
385	2350032010103616	1	140	139	134	113	10%	2.9	0.6	7.0	11.5	12.2	13.9	-1.0	2.6	-15	2.4	-1	-2		
386	2350032010103678	5	134	134	131	112	7%	1.6	0.2	6.4	11.1	11.1	12.2	0.0	2.4	-29	3.3				
387	2350032010103679	5	132	131	129	111	6%		0.3	5.7	9.5	10.3	12.3	-0.1	1.8	-66	2.1				
388	2350032010103559	10	129	129	131	111	4%	1.2	0.3	6.3	10.7	12.4	16.0	-1.1	1.9	-21	2.0	-1	-4		
389	2350032010103563	10	132	131	126	111	6%	1.1	0.1	7.2	11.9	14.5	16.6	-0.9	2.0	5	3.2	0	0		
390	2350032010103626	10	126	126	131	111	2%	1.2	0.2	6.6	9.8	11.4	14.2	-1.1	1.6	-37	1.9	1	2		
391	2350032010103831	10	131	131	128	110	5%	2.6	0.3	6.6	10.6	10.7	12.9	-1.2	1.1	-37	1.7				
392	2350032010103650	20	128	128	132	110	3%	1.5	0.3	6.5	11.0	13.0	15.6	-1.2	1.0	-23	1.9				
393	2350032010103633	20	133	132	128	110	7%	2.7	0.2	5.5	9.0	9.0	10.9	0.4	2.2	-31	2.6	2	2		
394	2350032010103553	20	128	128	127	110	3%	1.7	0.2	6.0	9.7	8.3	10.6	-0.3	1.9	-20	2.2				
395	2350032010103647	20	128	127	127	109	7%	1.1	0.4	6.4	9.6	11.2	13.6	-0.9	0.8	-44	1.2	2	1		
396	2350032010103657	40	127	127	123	109	7%	0.9	0.3	6.5	11.1	11.8	12.3	-0.8	0.7	6	2.8	2	3		
397	2350032010103570	60	124	123	123	108	5%	1.9	0.2	5.0	7.7	5.6	7.7	-1.1	0.7	-32	1.6	3	1		

		WHITE SUFFOLKS																				
LOT	ID	% band	Materna		SRC		2020		MILK		BWT	WWT	PWT	YWT	AWT	PFAT	YGFW			LE		
			Index	Index	Index	Index	NLW	Index	Index	Index							Index	Index	Index	Index	Index	Index
398	2350032010103693	1	140	139	132	111	8%	2.8	0.6	7.9	12.3	11.7	13.0	-0.8	2.4	-28	2.8					
399	2350032010103695	10	133	132	131	111	5%	2.4	0.2	6.0	10.5	10.3	13.1	0.8	2.1	-41	2.7					
400	2350032010103558	10	131	131	133	111	5%	2.7	0.4	6.1	9.8	10.8	12.7	-1.5	1.6	-34	1.6	1	-1			
401	2350032010103837	10	134	133	124	111	8%	1.8	0.4	7.0	11.8	10.8	12.4	-0.4	1.5	-19	3.1					
402	2350032010103817	10	124	124	131	111	-2%		0.2	5.1	9.2	9.8	11.7	0.3	1.6	-65	2.5					
403	2350032010103716	10	131	131	125	111	8%	0.5	0.5	7.3	11.7	13.7	14.3	-0.8	1.1	-24	2.6					
404	2350032010103688	10	125	125	128	111	0%	1.1	0.1	5.0	9.0	8.1	10.4	0.5	2.4	-39	2.5					
405	2350032010103680	10	128	128	128	111	3%	1.2	0.3	6.3	10.6	10.8	13.2	-0.5	2.0	-7	2.2					
406	2350032010103541	20	128	128	130	110	3%	1.4	0.3	6.5	11.0	12.7	16.1	-1.2	1.4	-12	2.0					
407	2350032010103528	20	130	130	130	110	8%	1.4	0.3	5.8	8.9	9.0	9.5	0.0	2.6	-8	2.1	2	1			
408	2350032010103628	20	130	130	128	109	5%	2.7	0.5	7.7	11.8	10.7	11.4	-1.7	0.1	-20	3.5	1	0			
409	2350032010103726	40	128	128	123	109	4%	2.1	0.3	7.4	11.5	12.7	14.4	-1.1	0.1	-10	2.9					
410	2350032010103501	40	123	123	123	109	5%	-0.1	0.6	7.6	10.8	11.0	12.6	-2.1	0.0	-8	1.4	-3	-2			
	Decile	50%		125		108	3%	2.1	0.3	6.7	10.3	11.3		-0.7	0.8	-15	2.2	-1	-2			
	Shaded box top 10 %, Bold type top 25 % of Terminal Percentile																					



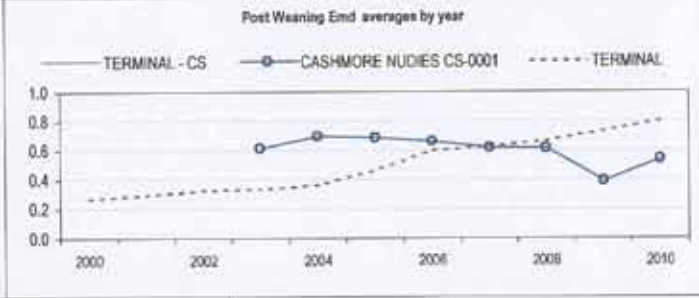
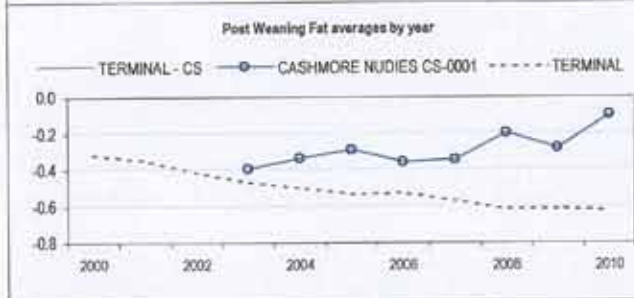
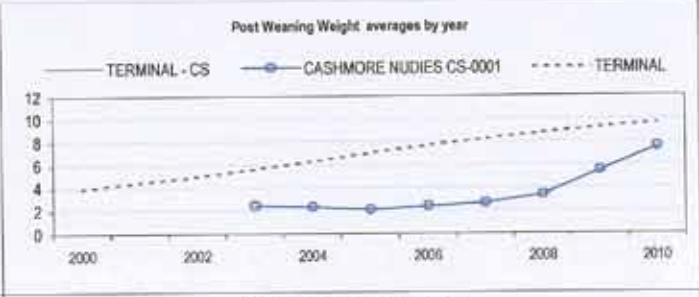
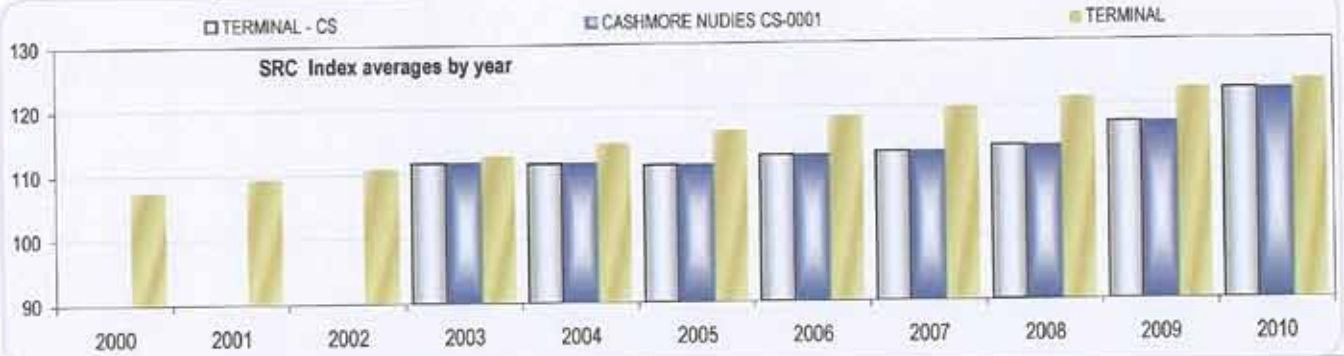
EASY CARE CASHMERE NUDIES

LOT	ID	band	Materna		SRC	2020		MILK		BWT	WWT	PWT	YWT	AWT	PFAT	YGFW		LE	
			Index	Index		Index	Index	NLW	BWT							%	PEMD	PSEC	DIR
411	CS00012010104212	20	131	131	106	21%	0.3	0.0	5.0	8.0	6.9	14.3	0.5	3	3.5				411
412	CS00012010103507	30	129	129	108	13%	-0.3	0.0	6.0	9.9	7.6	12.6	0.5	-1	4.8				412
413	CS00012010104355	40	127	128	108	9%		0.1	6.4	10.2	10.1	15.0	1.2	10	3.8				413
414	CS00012010104283	40	127	127	107	13%	0.4	0.0	4.8	8.3	8.8	16.1	-0.3	-24	2.8				414
415	CS00012010104319	40	126	127	108	12%		0.0	5.8	9.1	9.3	15.0	0.8	-6	3.6				415
416	CS00012010104172	50	126	126	107	13%	0.2	0.1	5.4	9.1	9.8	16.4	-0.1	-13	3.4			-5	416
417	CS00012010104318	50	125	126	106	9%		0.2	6.7	11.1	10.8	15.2	-0.3	52	3.8				417
418	CS00012010104094	50	125	125	107	6%		0.1	6.0	9.7	9.2	13.8	-0.6	6	3.9			-5	418
419	CS00012010104332	50	125	125	107	12%		0.0	5.1	8.8	9.7	15.9	-0.1	-1					419
420	CS00012010104103	60	124	125	106	12%		0.2	5.6	8.7	8.8	14.8	-0.8	-11	2.8			-6	420
421	CS00012010104123	60	124	125	106	11%	0.8	0.1	5.1	8.5	7.3	11.8	-0.2	-6	3.7			-7	421
422	CS00012010104326	60	124	125	108	10%		0.0	5.1	8.3	8.5	14.2	0.1	-15	3.2				422
423	CS00012010104127	60	124	124	106	9%	1.2	0.2	5.4	9.4	10.1	15.6	-0.6	-13	2.9			-8	423
424	CS00012010104045	60	124	124	106	13%	0.1	-0.3	3.3	6.8	7.2	12.4	0.2	34	3.2			0	424
425	CS00012010104089	70	123	124	107	8%	0.6	0.1	5.5	9.2	9.3	13.6	-0.1	4	3.8			-11	425
426	CS00012010104286	70	123	123	107	12%	-0.6	0.0	5.1	6.6	7.5	13.7	0.1	-34	2.9				426
427	CS00012010104132	70	122	122	106	14%		0.1	3.9	6.3	6.1	11.5	-0.2	-27	3.1			-4	427
428	CS00012010104046	70	122	122	104	12%	0.1	-0.2	3.3	6.4	5.8	11.0	0.4	49	3.1			-2	428
429	CS00012010104281	70	122	122	107	6%		0.1	4.9	7.6	7.5	12.5	0.0	-2	2.7				429
430	CS00012010104240	70	121	122	105	16%		0.0	4.9	7.4	8.0	15.3	-1.0	-10	3.2			-2	430
431	CS00012010104019	70	121	121	107	8%	0.3	-0.1	4.3	7.1	7.1	13.5	-0.2	-8	2.8			-1	431
432	CS00012010104049	70	119	119	103	13%		0.2	4.1	6.3	8.4	14.0	0.1	-1	3.0			-7	432
433	CS00012010104090	70	118	119	104	11%		0.1	4.3	6.2	6.0	11.8	-0.5	-1	2.6			-6	433
434	CS00012010104186	70	118	118	103	15%	-0.9	-0.1	4.4	6.7	6.6	13.4	-1.6	18	2.9			-3	434
	Decile	50%			125	3%	2.1	0.3	6.7	10.3	11.3		-0.7	-15	2.2			-1	-2
Shaded box top 10 %, Bold type top 25 % of Terminal Percentile																			

LOT	ID	COOL			Moult			DP	WS	Age	SIRE	PURCHASER	PRICE	LOT
		WILT	RM	Score	SM	PD	TX							
411	CS00012010104212	25	50	25					3	CS00012009094037			411	
<b>412</b>	<b>CS00012010103507</b>	15	75	10					4	CS00012009094138			<b>412</b>	
413	CS00012010104355	18	72	10					1	CS00012009094138			413	
<b>414</b>	<b>CS00012010104283</b>	25	70	5					2	CS00012009094037			<b>414</b>	
415	CS00012010104319	14	76	10					1	CS00012009094138			415	
<b>416</b>	<b>CS00012010104172</b>	25	50	25					2	CS00012009094037			<b>416</b>	
417	CS00012010104318	15	77	8					1	CS00012009094138			417	
<b>418</b>	<b>CS00012010104094</b>	25	37	37					3	CS00012009094037			<b>418</b>	
419	CS00012010104332	10	84	6					1	CS00012009094138			419	
<b>420</b>	<b>CS00012010104103</b>	15	60	25					2	CS00012009094138			<b>420</b>	
421	CS00012010104123	12	48	40					3	CS00012008083816			421	
<b>422</b>	<b>CS00012010104326</b>	18	77	5					1	CS00012009094138			<b>422</b>	
423	CS00012010104127	29	57	10					2	CS00012008083816			423	
<b>424</b>	<b>CS00012010104045</b>	60	15	25					4	4700442008085005			<b>424</b>	
425	CS00012010104089	33	48	18					2	1200032008080063			425	
<b>426</b>	<b>CS00012010104286</b>	25	69	6					2	1200032008080063			<b>426</b>	
427	CS00012010104132	5	62	29					4	CS00012009094068			427	
<b>428</b>	<b>CS00012010104046</b>	60	15	25					4	4700442008085005			<b>428</b>	
429	CS00012010104281	15	79	5					2	CS00012008083816			429	
<b>430</b>	<b>CS00012010104240</b>	6	89	5					3	CS00012009094138			<b>430</b>	
431	CS00012010104019	60	20	20					4	4701142005050479			431	
<b>432</b>	<b>CS00012010104049</b>	15	85						2	CS00012009094068			<b>432</b>	
433	CS00012010104090	25	37	37					2	CS00012009094138			433	
<b>434</b>	<b>CS00012010104186</b>	25	50	25					3	CS00012009094037			<b>434</b>	
Taken at 6 months														
1 = clean moult, 3 = half moult, 5 = no moult														

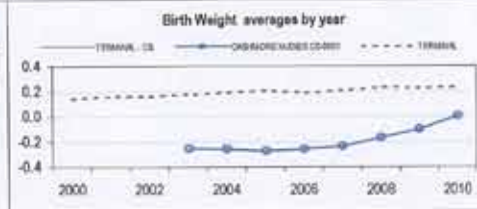
Analysis : **TERMINAL - CS**

Dated : 15-Sep-11



**TERMINAL - CS**

	Bwt	Wwt	Pwwt	Pfat	Pemd	Ywt	SRC	Counts
2001	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0
2002	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0
2003	-0.26	1.43	2.46	-0.40	0.61	2.51	111.7	65
2004	-0.26	1.38	2.35	-0.34	0.70	2.35	111.5	114
2005	-0.27	1.23	2.10	-0.29	0.69	2.15	111.3	85
2006	-0.26	1.44	2.42	-0.36	0.66	2.47	112.6	214
2007	-0.24	1.57	2.65	-0.35	0.62	2.73	113.0	303
2008	-0.17	2.26	3.38	-0.20	0.61	3.93	113.8	284
2009	-0.10	3.32	5.48	-0.28	0.39	6.05	117.4	310
2010	0.00	4.66	7.54	-0.10	0.54	7.99	122.3	386



**CASHMORE NUDIES CS-0001**

	Bwt	Wwt	Pwwt	Pfat	Pemd	Ywt	SRC	Counts
2001								0
2002								0
2003	-0.26	1.43	2.46	-0.40	0.61	2.51	111.7	65
2004	-0.26	1.38	2.35	-0.34	0.70	2.35	111.5	114
2005	-0.27	1.23	2.10	-0.29	0.69	2.15	111.3	85
2006	-0.26	1.44	2.42	-0.36	0.66	2.47	112.6	214
2007	-0.24	1.57	2.65	-0.35	0.62	2.73	113.0	300
2008	-0.17	2.26	3.38	-0.20	0.61	3.93	113.8	284
2009	-0.10	3.32	5.48	-0.28	0.39	6.05	117.4	310
2010	0.00	4.66	7.54	-0.10	0.54	7.99	122.3	386

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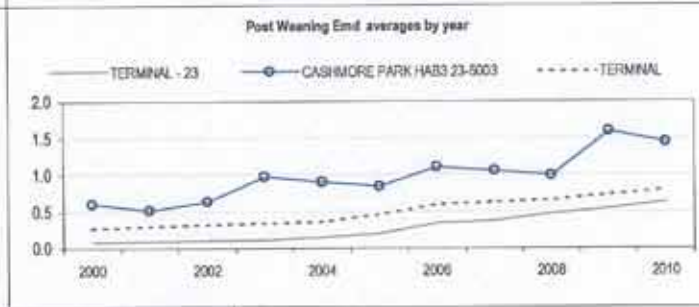
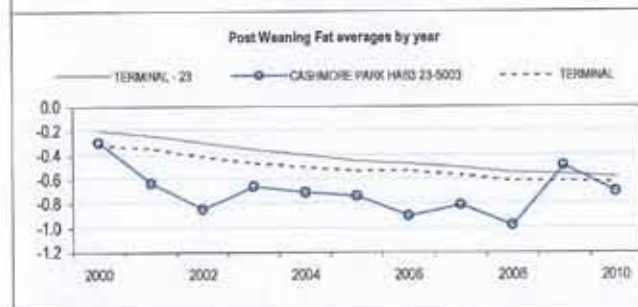
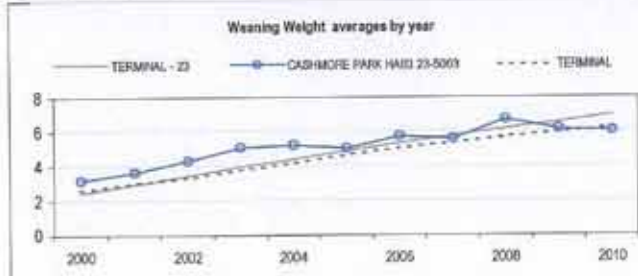
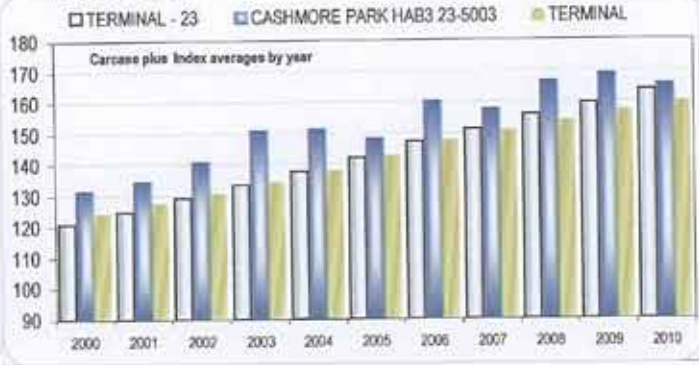
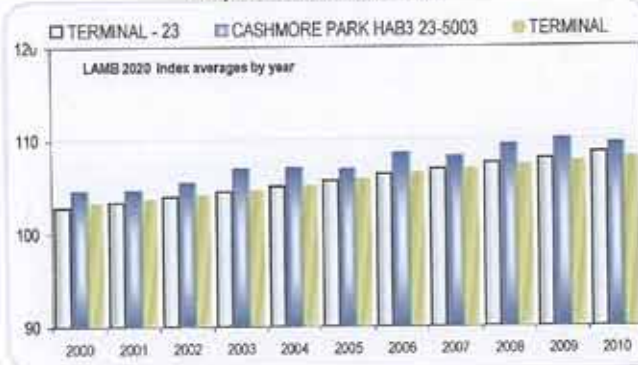
Linkage Summary	
CASHMORE NUDIES CS-0001	
linked	
Wts	Yes
Carcase	Yes
FEC	Yes
Reproduction	Yes
Site Code	235003



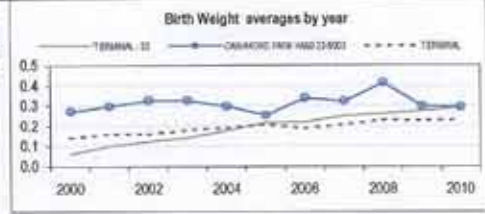
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Analysis: **TERMINAL - 23**

Dated: 15-Sep-11



TERMINAL - 23								
Year	Bwt	Wwt	Pwwt	Pfat	Pemd	LAMB2020	Carcase +	Counts
2001	0.10	2.93	4.56	-0.25	0.10	103.3	124.9	30461
2002	0.12	3.44	5.39	-0.30	0.11	103.9	129.3	30345
2003	0.14	3.96	6.12	-0.36	0.12	104.5	133.4	30101
2004	0.18	4.40	6.90	-0.40	0.15	105.1	137.7	35374
2005	0.22	4.87	7.59	-0.46	0.20	105.6	142.0	35942
2006	0.22	5.32	8.33	-0.47	0.34	106.3	147.2	37528
2007	0.25	5.75	9.02	-0.51	0.37	106.9	151.3	35019
2008	0.26	6.17	9.73	-0.55	0.47	107.5	155.9	38040
2009	0.27	6.53	10.29	-0.56	0.54	108.0	159.5	37368
2010	0.29	6.92	10.86	-0.58	0.63	108.6	163.7	42226



CASHMORE PARK HAB3 23-5003								
Year	Bwt	Wwt	Pwwt	Pfat	Pemd	LAMB2020	Carcase +	Counts
2001	0.30	3.60	5.11	-0.84	0.51	104.6	134.7	571
2002	0.33	4.27	5.78	-0.85	0.64	105.4	140.8	574
2003	0.33	5.04	7.31	-0.66	0.98	106.9	151.0	586
2004	0.30	5.19	7.83	-0.71	0.91	107.0	151.8	564
2005	0.25	5.02	7.61	-0.74	0.84	106.9	148.5	510
2006	0.34	5.73	8.83	-0.90	1.10	108.5	160.4	526
2007	0.32	5.56	8.71	-0.81	1.05	108.2	157.7	534
2008	0.42	6.67	10.36	-0.98	0.99	109.5	166.8	425
2009	0.30	6.11	9.94	-0.49	1.59	110.0	169.1	429
2010	0.30	6.01	9.69	-0.71	1.44	109.6	165.7	357

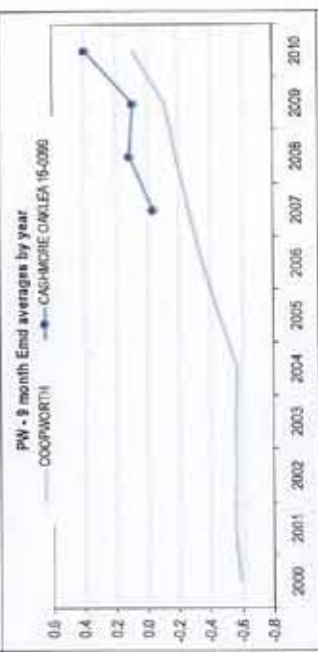
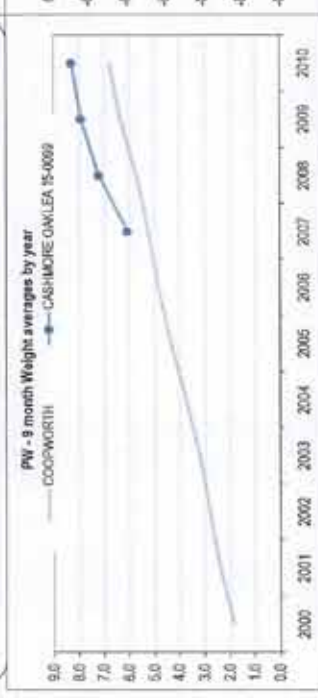
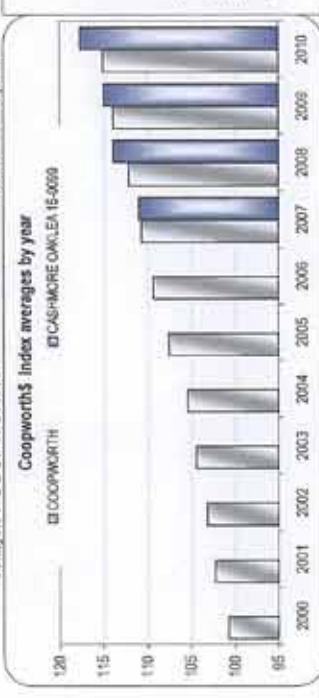
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Linkage Summary	
CASHMORE PARK HAB3 23-5003	
Wts	Yes
Carcase	Yes
FEC	Yes
Reproduction	Yes
Site Code	235003

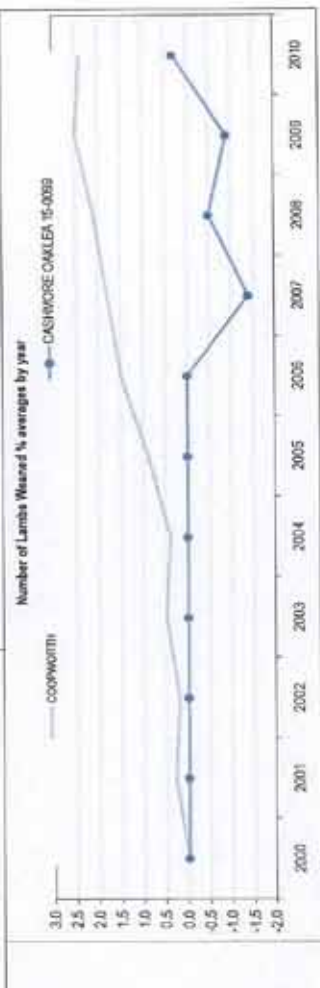


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Analysis : COOPWORTH Dated : 15-Sep-11



Year	WWT	PWWT	PFAT	PEMD	YGPW%	YFD	NLW%	PFEC	Coopworth\$	Counts
2001	1.9	2.4	-0.2	-0.6	13.3	1.50	0	4.0	102	48507
2002	2.2	2.8	0.0	-0.6	14.5	1.62	0	6.4	103	48581
2003	2.5	3.2	0.0	-0.6	14.7	1.67	1	2.8	104	48910
2004	2.9	3.7	0.0	-0.6	15.0	1.77	0	0.6	105	48828
2005	3.4	4.4	0.0	-0.5	14.9	1.84	1	-0.4	108	47989
2006	3.8	4.9	0.0	-0.3	14.1	1.91	2	9.8	109	50207
2007	4.0	5.3	0.0	-0.3	13.4	1.86	2	-2.3	111	46375
2008	4.4	5.7	0.0	-0.2	12.3	1.83	2	4.5	112	39213
2009	4.8	6.4	0.0	-0.1	11.8	1.81	3	-4.7	114	38066
2010	5.0	6.8	-0.2	0.1	10.1	1.70	2	-8.1	115	37831



Linkage Summary

Linkage	Fleeces	Weights	Carcass	FEC	Reproduction
CASHMERE OAKLEA 15-0099	Yes	Yes	Yes	Yes	Yes
Coopworth	Yes	Yes	Yes	Yes	Yes

ASBV  
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University of New England  
Armidale NSW 2351  
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### LAMBPLAN Coopworth Percentiles

	BWT	WWT	PWT	YWT	HWT	AWT	PFAT	YFAT	PEMD	YGFW	AGFW	YFD	WWEC	PWEC	YWEC	HWEC	PSC	YSC	LE_DIR	LE_DTR	NLW	GL_DIR
Top value	-0.59	11.2	15.1	16.3	15.6	19	-0.8	-1	4.8	41	25.4	-2.5	-80	-80	-85	-88	5.8	3.9	2%	2%	19%	-2.8
Top 1%	-0.09	8.6	11.5	12.7	12.4	14.4	-0.5	-0.6	2.5	32.6	20.7	-2.2	-62	-61	-66	-72	3.8	2.9	2%	1%	12%	-1.9
Top 5%	0.07	7.6	10.2	11.4	11.1	12.7	-0.4	-0.5	1.6	28.8	17.7	-0.1	-43	-47	-49	-57	3.3	2.5	1%	1%	9%	-1.2
Top 10%	0.15	7.1	9.6	10.8	10.4	11.9	-0.3	-0.4	1.2	26.9	15.9	0.7	-35	-40	-42	-48	3	2.2	1%	0%	8%	-1
Top 20%	0.24	6.5	8.8	9.9	9.6	10.8	-0.2	-0.3	0.7	24.2	14	1.4	-23	-27	-31	-38	2.7	2	0%	0%	6%	-0.7
Top 30%	0.29	6.1	8.2	9.3	9	10.1	-0.2	-0.3	0.4	22.1	12.5	1.6	-16	-19	-22	-27	2.5	1.8	0%	0%	5%	-0.5
Top 40%	0.33	5.7	7.6	8.7	8.4	9.4	-0.1	-0.2	0.2	20.3	11.1	1.8	-11	-14	-16	-20	2.3	1.6	0%	-1%	4%	-0.3
Top 50%	0.36	5.3	7.1	8.2	7.9	8.8	-0.1	-0.2	0	18.4	9.6	2.2	-7	-9	-10	-14	2.1	1.4	0%	-1%	3%	-0.1
Top 60%	0.4	4.9	6.6	7.6	7.3	8.2	-0.1	-0.1	-0.2	15.9	6.9	2.6	-3	-4	-5	-9	1.9	1.3	-1%	-1%	2%	0.1
Top 70%	0.43	4.4	6	7	6.7	7.5	0	-0.1	-0.4	10.7	1.2	2.9	1	1	1	-3	1.6	1.1	-1%	-2%	1%	0.2
Top 80%	0.47	3.8	5.2	6.2	6	6.6	0.1	0	-0.6	2.3	-5.2	3.3	7	7	8	5	1.3	0.9	-1%	-2%	0%	0.4
Top 90%	0.52	2.8	3.9	5	4.9	5.2	0.1	0.1	-0.9	-5.4	-11.7	3.9	15	19	20	18	0.9	0.6	-2%	-3%	-2%	0.7
Bottom value	0.9	-4.9	-5.3	-5.9	-6.7	-6.9	0.8	0.6	-3.4	-43.7	-36	5.9	114	130	147	151	-3	-2.5	-7%	-7%	-14%	4.7

### Lambplan Terminal Percentiles

LAMBPLA	Lognormal Percentiles											WEM D	YEMD	WWE C	YWE C	LE_DT R	GL_D IR	Lamb 2020				
	BWT	WWT	PWT	YWT	HWT	AWT	WFA T	PFAT	YFAT	PEM D	HEMD								PWE C	HWEC	PSC	YSC
Top value	-0.79	13.9	19.4	21.2	21.5	24.3	-1.1	-1.1	4.2	5.1	4.7	-74	-69	-78	6.3	4.6	6%	5%	23%	-4.5	118	154
Top 1%	-0.47	10	15.3	16.4	17.1	19.5	-0.6	-0.6	2.4	2.7	2.5	-54	-54	-64	4.5	3.8	3%	2%	11%	-2.1	114	141
Top 5%	-0.32	9	13.9	15	15.6	17.9	-0.4	-0.5	1.8	2.2	1.9	-37	-44	-51	4	3.5	2%	1%	8%	-1.4	113	137
Top 10%	-0.17	8.5	13.2	14.2	14.9	17	-0.4	-0.4	1.6	1.7	1.5	-31	-37	-46	3.7	3.3	1%	0%	7%	-1.1	112	135
Top 20%	0.1	7.9	12.3	13.3	13.9	15.8	-0.3	-0.4	1.2	1.3	1.2	-25	-30	-37	3.4	3	1%	-1%	6%	-0.8	111	132
Top 30%	0.19	7.5	11.6	12.6	13.1	15	-0.3	-0.3	1	1.1	0.9	-21	-24	-31	3.2	2.8	0%	-2%	5%	-0.6	111	130
Top 40%	0.25	7.1	10.9	11.9	12.5	14.2	-0.2	-0.3	0.8	0.7	0.7	-17	-19	-26	3	2.7	-1%	-2%	4%	-0.4	110	128
Top 50%	0.29	6.6	10.3	11.2	11.8	13.4	-0.2	-0.2	0.7	0.6	0.5	-13	-14	-20	2.8	2.5	-1%	-3%	3%	-0.2	109	126
Top 60%	0.34	6.1	9.6	10.5	11.1	12.6	-0.2	-0.2	0.5	0.5	0.3	-8	-9	-14	2.7	2.4	-2%	-4%	2%	-0.1	109	124
Top 70%	0.38	5.5	8.8	9.6	10.3	11.7	-0.1	-0.1	0.3	0.4	0.2	-3	-2	-5	2.5	2.2	-2%	-4%	1%	0.1	108	121
Top 80%	0.43	4.8	7.8	8.4	9.2	10.4	-0.1	-0.1	0.1	0.2	0	3	5	4	2.3	2	-3%	-5%	0%	0.3	107	118
Top 90%	0.49	3.7	6.3	6.7	7.8	8.6	0.1	0	-0.1	-0.2	-0.3	13	15	16	1.9	1.8	-5%	-7%	-1%	0.7	105	113
value	1	-6.2	-9.2	-10.5	-8	-7.9	1	0.9	1.5	-3.8	-4.5	-4.5	90	114	106	134	-2.6	-1.6	-18%	-24%	88	91



## Understanding LAMBPLAN ASBVs

Rams with lower ASBVs for birth weight (BWT) produce lambs with lower birth weight. Both low (lamb survival) and high (lambing difficulties) birth weights should be avoided.

Rams with more positive ASBVs for post weaning weight (PWT) produce lambs that grow quicker and reach target weights in a shorter time. This ram will produce lambs that are, on average, 3kg heavier at post weaning age (7.5 months) than a ram with an ASBV of 0.

Worm egg count (WEC) ASBVs estimate an animal's genetic potential for worm burdens. Lower WEC ASBVs are desirable. This ram will, on average, sire progeny that will have 5% fewer eggs/gram than a ram with an ASBV of 0.

Trait	BWT (kg)	WWT (kg)	PWT (kg)	PFAT (mm)	PEMD (mm)	WEC (%)	INDEX
ASBV	0.3	4	6.0	-1.5	1.0	-10	150
Acc	43	63	71	59	69	37	

Rams with a more positive ASBV for weaning weight (WWT) will, on average, produce lambs that grow quicker to weaning. This ram will produce lambs that are 2kg heavier than a ram with a 0 ASBV for WWT.

Rams with a more negative ASBV for post weaning fat (PFAT) will produce lambs that are leaner, at the same weight. This ram will produce lambs that are, on average, 0.75mm leaner at the GR site when compared to a ram with a FAT ASBV of 0.

Rams with more positive ASBVs for post weaning eye muscle depth (PEMD) produce lambs that have more muscle, independent of weight, and a higher lean meat yield. This ram will produce lambs that have, on average, a 0.5mm deeper eye muscle than a ram with a 0 EMD ASBV.

An index is a guide to the value of a ram for a particular market. Rams with higher indexes will produce lambs that are more suited to that particular market target. It is important to understand what market the index applies to before using an index.

• An ASBV of 0 is the average of the 1990 drop.

• Note: A useful rule of thumb for converting ram ASBVs into lamb production differences is to simply halve the ASBV (as rams contribute half the genetics of the lamb).

• Accuracy - published as a percentage, is a reflection of the amount of effective information that is available to calculate the ASBV. All ASBVs are now published with accuracies. The higher the percentage, the closer the ASBV is to the true breeding value of the animal. Breeding values without accuracies are Flock Breeding Values (FBVs) and can only be compared within the flock.

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# Understanding LAMBPLAN Maternal EBVs

## How to use LAMBPLAN for Maternal Sires

**Note: A useful rule of thumb for converting ram EBVs into lamb production is to simply halve the EBV (as rams contribute half the genetics of the lamb)**

Tag number of the ram showing the year of birth and identification.

Rams with positive EBVs for growth produce lambs that grow quicker and reach target weights in a shorter time. This ram will produce lambs that are 2kg heavier than a ram with 0 EBV for growth.

Rams with a positive figure for eye muscle depth produce lambs that have a higher dressing percentage. This ram will produce lambs that have a 0.25mm deeper eye muscle.

Rams with a higher GFW will produce progeny that cut more wool. This ram will produce progeny that cut 225g more wool at hogget ages.

Tag Number	MWWT	Growth (kg)	Fat (mm)	Eye muscle depth (mm)	NLW (%)	HGFW (kg)	Index
01000	2.0	4.0	-0.5	0.5	10	0.45	105.2

Rams with positive EBVs for MWWT (Maternal weaning weight) will produce daughters who will wean heavier lambs. This EBV reflects a combination of the daughter's ability to milk and provide a better maternal environment.

Rams with a negative EBV for fat produce lambs that are leaner at the same weight. This ram will produce lambs that are 0.25mm leaner at the GR site when compared to a ram at 0.

Rams with a greater NLW sire daughters that wean a higher percentage of lambs. This ram with an EBV of 10 will sire daughters who on average will wean 5% more lambs.

An index is a guide to the value of a ram for a particular market. Rams with higher indexes will produce lambs that are more suited to that particular market. In many cases the indexes used for maternal breeds are in \$ terms.



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This catalogue includes a number of different indexes, a brief explanation of these indexes is shown below. If you require a more detailed explanation of these indexes or further information on how to use them please contact the Sheep Genetics staff on 02 6773 2948.

**Table 1: Index Description**

Coopworth \$ Index	This index was developed for maternal breeding programs with a heavy emphasis on growth and fertility while increasing muscle and decreasing fat. It has a small emphasis on fleece weight.
Maternal \$ Index (MAT\$)	This index is intended to replace the breed specific maternal indexes such as the Coopworth \$, it includes a strong emphasis on early growth and fertility but also aims to slow the gain in birth weight, increase muscle, maintain reasonable fat levels and reduce worm burdens. It has a small emphasis on fleece weight.
Lamb 2020 (L2020)	This index is suited to use by breeders selecting terminal sires for good growth with emphasis on improving muscle, it also aims to slow the gain in birth weight, maintain fat levels and reduce worm burdens.
Self-Replacing Carcase \$ Index (SRC\$)	This index is for use by breeds included in the Terminal analysis with the intention of producing a self-replacing flock with an emphasis on carcase traits, for example Dorper and Wiltshires. It is similar to MAT\$ but does not include fleece weight.

**Table 2: Emphasis of each trait and expected gain.**

Trait	Coopworth \$ Index		Maternal \$ Index		Lamb 2020 Index		SRC \$ Index	
	Relative Emphasis	Gain over 10 years	Relative Emphasis	Gain over 10 years	Relative Emphasis	Gain over 10 years	Relative Emphasis	Gain over 10 years
BWT (kg)	----	----	12%	0.2	8%	0.1	16%	0.1
WWT (kg)	----	----	23%	2.7	21%	1.9	22%	2.2
MWWT (kg)	10%	0.5	6%	0.5	----	----	4%	0.2
PWT (kg)	52%	4.4	25%	4.0	24%	2.9	25%	3.4
PFAT (mm)	4%	-0.1	4%	0.3	9%	0.4	6%	0.3
PEMD (mm)	8%	0.2	6%	0.3	26%	1.3	11%	0.6
NLW (%)	23%	8	12%	8	----	----	16%	10
PWEC (%)	----	----	8%	-25	13%	-43	7%	-16
YGFW (%)	3%	----	3%	0	----	----	----	----

# Lambing Ease and Gestation Length ASBVs



The Lambing Ease and Gestation length ASBVs have been developed to reduce the impact of lambing difficulties in the Australian sheep flock. Lambing difficulties have an obvious economic impact by increasing ewe and lamb mortality rates and increasing labour requirements.

Sheep Genetics is now reporting two Lambing Ease ASBVs,

- Lambing Ease Direct (LE DIR) describes how easily a sire's lambs will be born, and
- Lambing Ease Daughters (LE DTR) describes how easily a sire's daughters will have lambs.

Figure 1; Genetic Trend for Lambing Ease Direct in Border Leicesters.

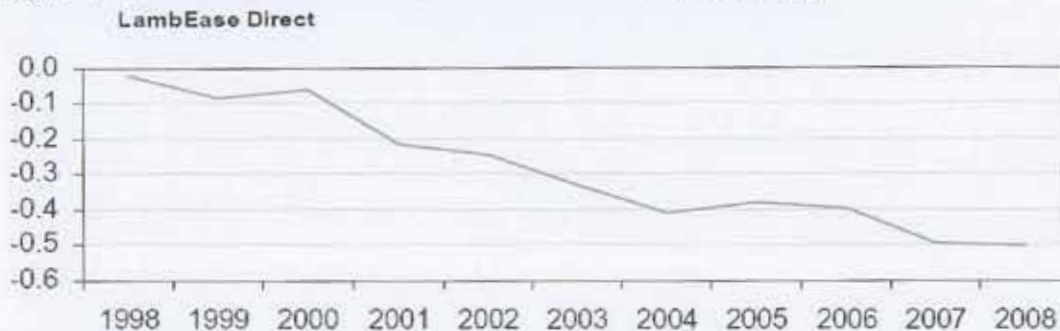


Figure 1 shows that lambing ease has been slowly declining over the last ten years, due to selection pressure on lifting growth rates. This is also reflected in correlated increases in birth weight.

The good news is that the introduction of LE ASBVs has identified a huge range in animals with the potential for improving lambing ease. In the terminal LAMBPLAN database, there is a range of 33% for LE DIR from the best to the worst 2008 drop animals. This translates to the best animal having 16.5% fewer progeny potentially needing assistance to be born when compared to the worst animal.

The Gestation Length (GL) ASBV provides an estimate of the genetic differences between animals in gestation length. It is important that GL ASBVs are used to optimise performance for this trait at moderately short values as both very long and very short gestation lengths will have a negative effect on lamb survival.

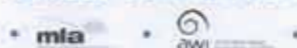
Breeders who would like to have these breeding values reported for their animals will need to collect lambing ease scores when ewes are lambing for LE ASBVs; and recorded AI dates and hand mating (conception) dates as well as birth dates for GL.

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# Understanding Lambing Ease ASBVs



Lambing ease has an obvious impact on the profitability of a flock. As lambing ease decreases, ewe and lamb mortality increases, which also increases additional labour requirements and veterinary expense. Though many large studies have consistently shown birth weight to be the most important genetic factor influencing lambing ease, there are also other aspects that need to be considered. For example, lamb shape, pelvic area and lambing "will" all play a role in lambing ease.

*LAMBPLAN Lambing Ease (LE) ASBVs are calculated using lambing ease scores recorded at birth. As they are a direct score, they combine all of the factors affecting lambing ease.*

## What Lambing Ease ASBVs are Available?

### Lambing Ease Direct (LE DIR)

LE DIR ASBVs are estimates of genetic differences in the ability of a sire's lambs to be born unassisted. LE DIR is reported as the percentage difference in unassisted lambings. Higher, more positive, LE DIR ASBVs are more favourable.

For example, a ram with an ASBV of +5.0% would be expected, on average, to produce 3% fewer difficult lambings than a ram with an ASBV of -1.0%

(6% difference between the sires, then halved as they only contribute half the genetics).

### Lambing Ease Daughters (LE DTR)

LE DTR ASBVs are estimates of genetic differences in the ability of a sire's daughters to lamb without assistance. The ASBVs are also reported as differences in the percentage of unassisted lambings.

Higher, more positive, LE DTR ASBVs are more favourable. For example, a ram with an ASBV of +4.0% would be expected to on average produce daughters that have 3% less lambing problems than the daughters of a ram with an ASBV of -2.0%.

*The challenge when selecting animals is to identify animals that have both positive ASBVs for LE DIR & LE DTR.*

## Which Lambing Ease ASBV should you use?

When using LE ASBVs to select rams it is important to consider the production system that these rams are to be used in. In a cross-breeding program where rams are being used as terminal sires and all progeny are being slaughtered, the LE DIR ASBV is the appropriate trait to use.

Where rams are being used to breed replacement ewes, it is important to include both LE DIR and LE DTR in the selection process. As the LE DIR ASBV describes how easily his lambs will born and the LE DTR ASBV describes how easily his daughters will have lambs.

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