RamSelect .com.au

Sheep CRC Telstra Pivotal Labs – San Francisco Sheep Genetics NSW DPI

RamSelect .com.au

- Simplify the process of using ASBVs to buy rams
- Commercial sheep producer 5,000 ewes
- Purchasing a team of rams each year
- Remove complexity and the need to understand ASBV figures
- Individual breeding objective
- Ranked list of sale rams

Find the best rams for your flock.

HOW IT WORKS

FIND RAMS











Australian Government Department of Industry and Science

Business Cooperative Research Centres Programme





PRIVACY POLICY TERM



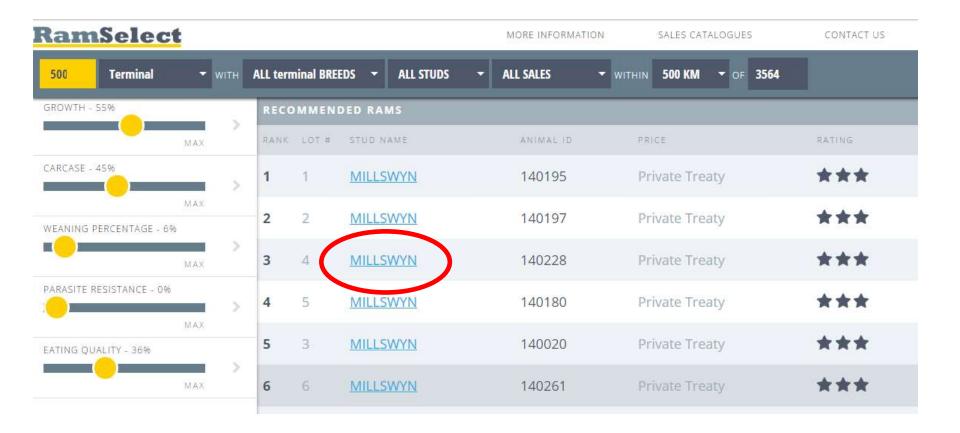




Trait categories for Merino, Maternal and Terminal breeds

MERINO and Dohne	TERMINAL	MATERNAL
Wool quality		
Fleece weight		
Growth	Growth	Growth
Carcase	Carcase	Carcase
Weaning percentage	Weaning Percentage	Weaning Percentage
Parasite resistance	Parasite resistance	Parasite resistance
	Eating Quality	Eating Quality
		Wool (maternal)





1	4	<u>MILLSWYN</u>		140228	Priv	vate Treaty		***	
A	ANIMAL ID: 2301132014140228 (SIRE ID: 2301132013130201)								
	wwt	9 63%	PWT	14 61%	PEMD	3.3 68%	PFAT	0.6	
	LMY	-0.48	BWT	-0.04	NLW	-96	PWEC	- 96	
	IMF	0.29 32%							

Making More From Sheep





Keeping Sheep in Good Condition

A joint

Assessing livestock

- Know the feed requirements of different livestock classes
- Be able to condition score
- Know critical minimum condition/fat scores and times to assess stock

Making More From Sheep

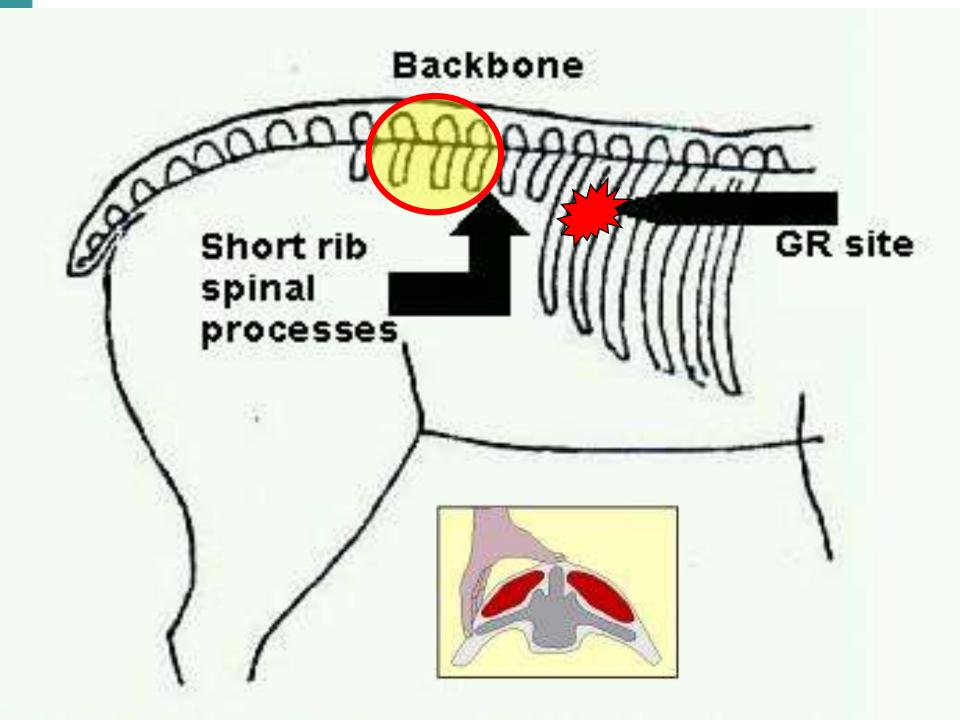


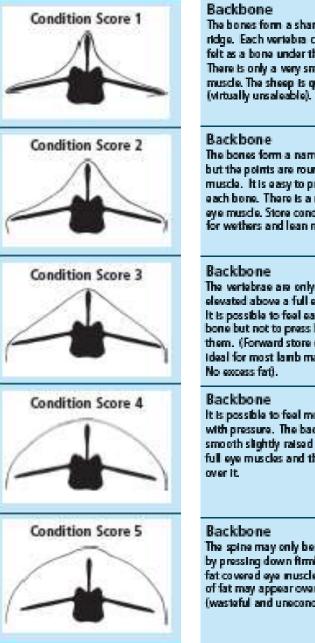


Appropriate Body Condition ??

A joint initiative of

- Ultimately production is <u>nutrition</u> driven
- Conception and survival to weaning are heavily dependent on
 - -ewe body condition and
 - meeting the weaner lambs feed needs (increasing weaning by 10% can increase profit margins between <u>13 to 25%</u>)





The bones form a sharp narrow ridge. Each vertebra can be easily felt as a bone under the skin. There is only a very small eye muscle. The sheep is guite thin

The bones form a narrow ridge but the points are rounded with muscle. It is easy to press between each bone. There is a reasonable eve muscle. Store condition- ideal for wethers and lean meat.

Backbone

The vertebrae are only slightly elevated above a full eye muscle. It is possible to feel each rounded bone but not to press between them. (Forward store condition ideal for most lamb markets now. No excess fati.

Backbone

It is possible to feel most vertebrae with pressure. The back bone is a smooth slightly raised ridge above full eye muscles and the skin floats over it.

Backbone

The spine may only be felt ()f at all) by pressing down firmly between the fat covered eye muscles. A bustle of fat may appear over the tail (wasteful and uneconomic).

Short Ribs The ends of the short ribs are very obvious. It is easy to feel the squarish shape of the ends. Using fingers spread 1cm apart, it feels like the fingernall under the skin with practically no covering.

Short Ribs

The ends of the short rbs are rounded but it is easy to press between them. Using fingers spread 0.5cms apart, the ends feel rounded like finger ends. They are covered with flesh but it is easy to press under and between them.

Short Ribs

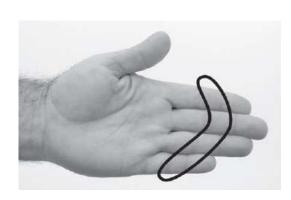
The ends of short ribs are well rounded and filled in with muscle. Using 4 fingers pressed tightly together, it is possible to feel the rounded ends but not between them. They are well covered and filled in with muscle.

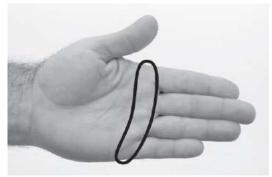
Short Ribs

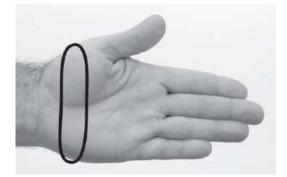
It is only possible to feel or sense one or two short ribs and only possible to press under them with difficulty. It feels like the side of the pain, where maybe one end can just be sensed.

Short Ribs

It is virtually impossible to feel under the ends as the triangle formed by the long ribs and hip bone is filled with meat and fat. The short rib ends cannot be felt.







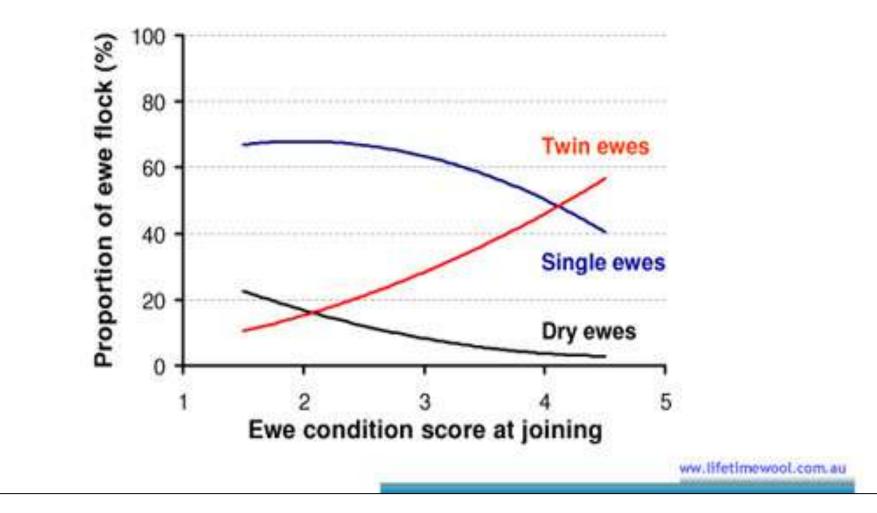
Class of sheep	Minimum condition score	Target condition score
Dry ewe at joining	2.5	3
Pregnancy	2.5	3
Lactation	2	2.5 to 3
End of growing season	3	3.5+
Wethers (minimum feed supply)	2- (winter)	2+
Rams at mating	3	3.5 to 4
Weaners (wool)	Better to weigh, bu	t generall <mark>y >2.5</mark>
Lambs (meat)	Assess growth targets to m	eet market specifications

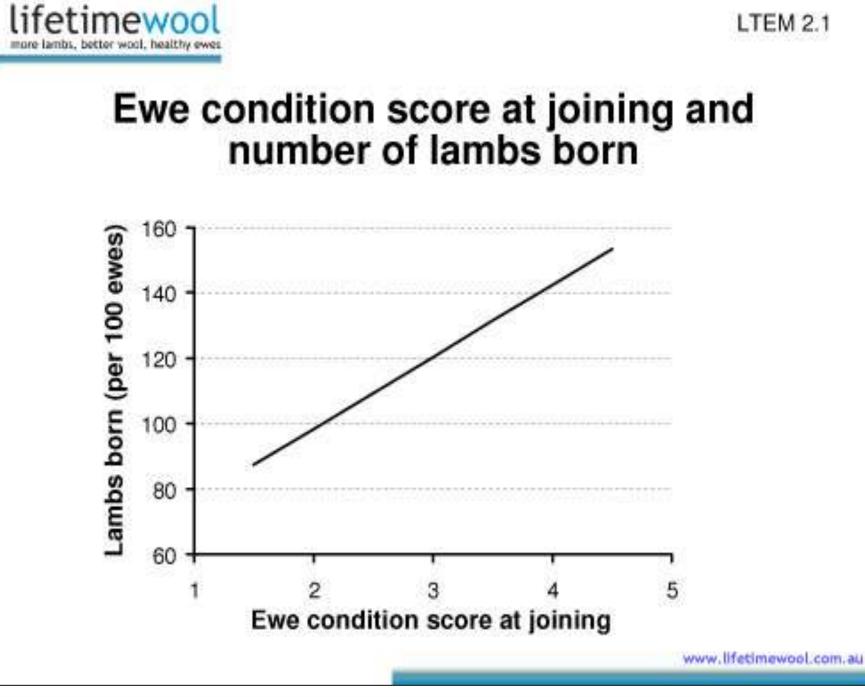
Ewe condition score at joining and pregnancy status

LTEM 2.2

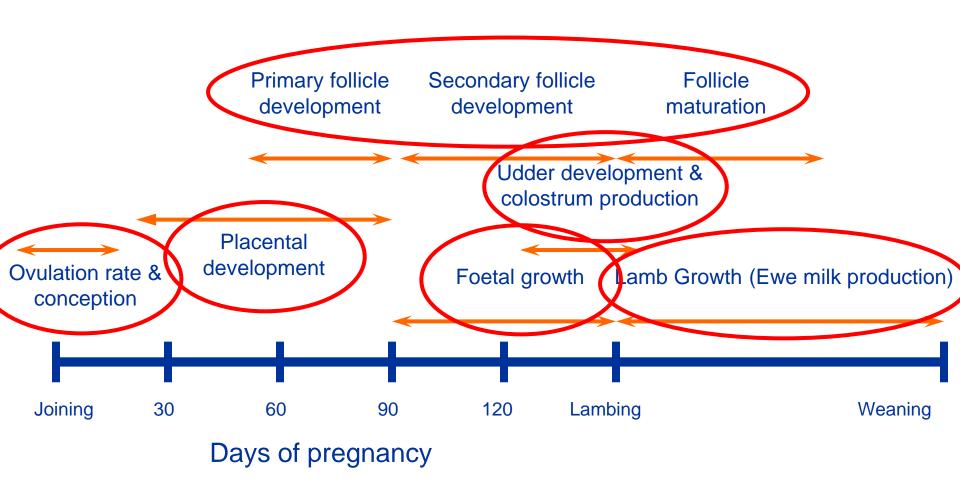
lifetimewool

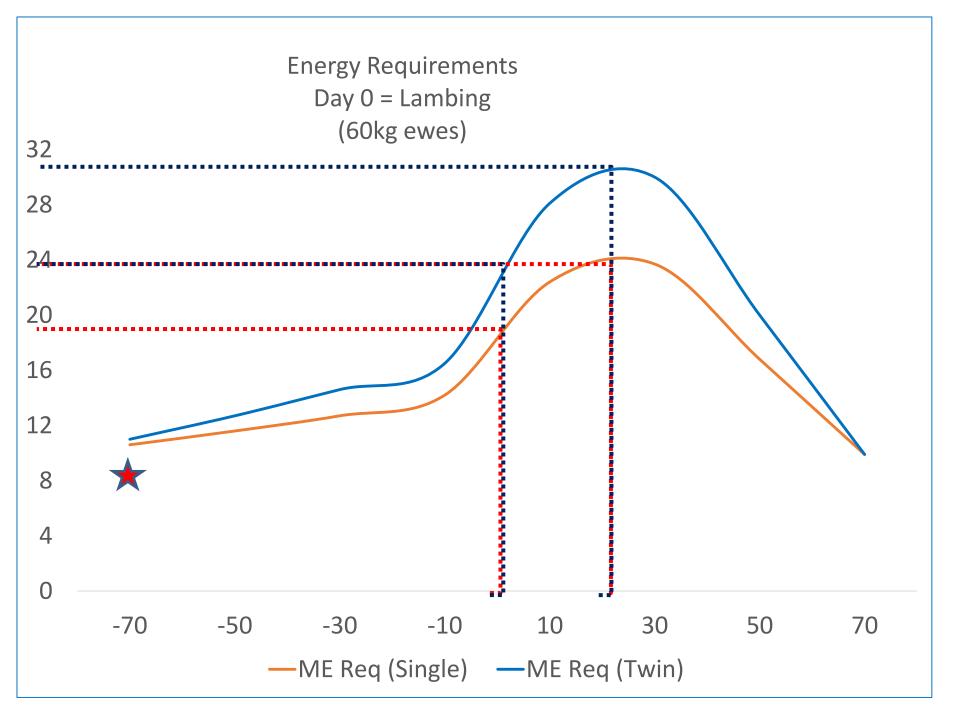
more lambs, better wool, healthy ewer





The developing lamb:





Making More From Sheep

A joint initiative of





Practical and

Lunch

INCREASING LAMB SURVIVAL

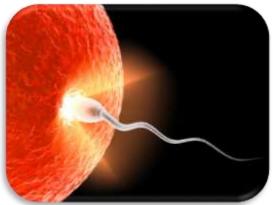
MURRAY LONG CLEAR VIEW CONSULTANCY



CONCEPTION AND SURVIVAL



EFFECT OF A 10% INCREASE





+1.8 - 6.2 %

GROSS MARGIN (\$/Ha)

+3.6 - 12.1%

Source: MLA/AWI report McEachern et al 2008.

NATIONAL AVERAGES





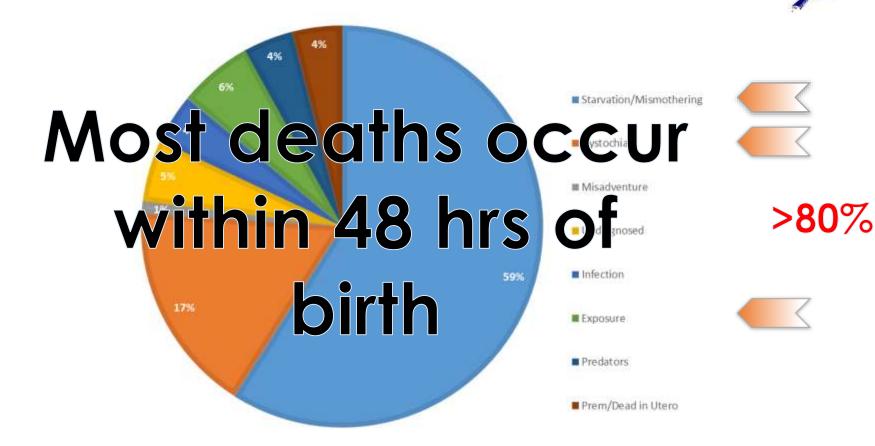
- 40.3 MILLION EWES
- Av 130% CONCEPTION
- 60-90% MARKING RATES

15 FT DEEP

X 45



CAUSES OF LAMB MORTALITY







GENETICS

MANAGEMENT



GENETICS

BREED/GENES











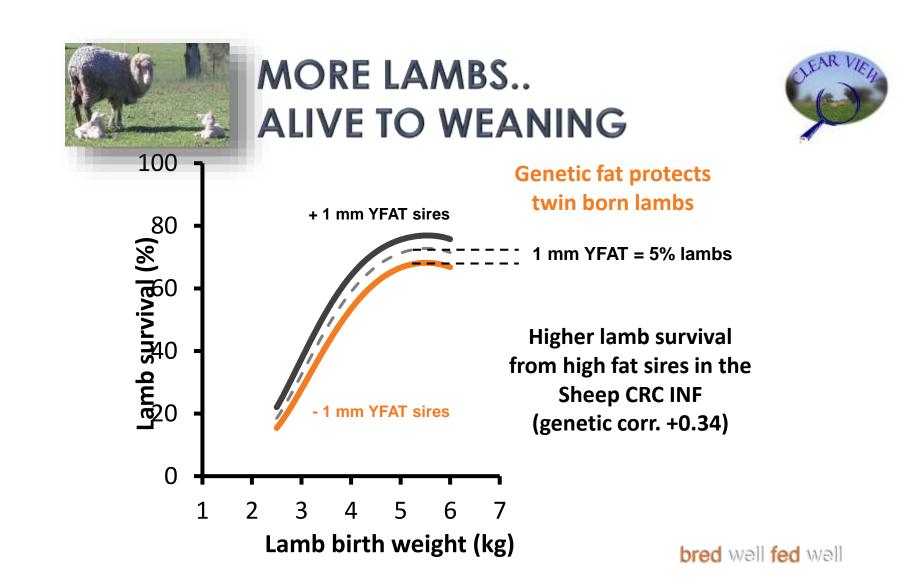
INCREASING SURVIVAL WITH ASBV's

HIGHER GROWTH, MORE MUSCLE and FAT = MORE LAMBS

per unit; 8% + 6% + 25%

GENETIC FAT IS AN EXCELLENT GENETIC INSURANCE POLICY... NOT A SELECTION CRITERIA TO MORE LAMBS





IN A TOUGH YEAR



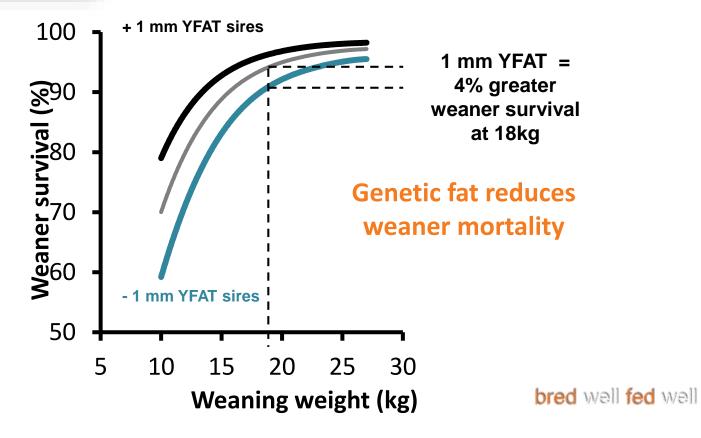
2009 - EWES SCANNED WITH 163% LAMBS IN UTERO

SIRES WITH ASBV's LEANER THAN -0.6 75% SURVIVAL

SIRES WITH ASBV's FATTER THAN -0.6 87% SURVIVAL



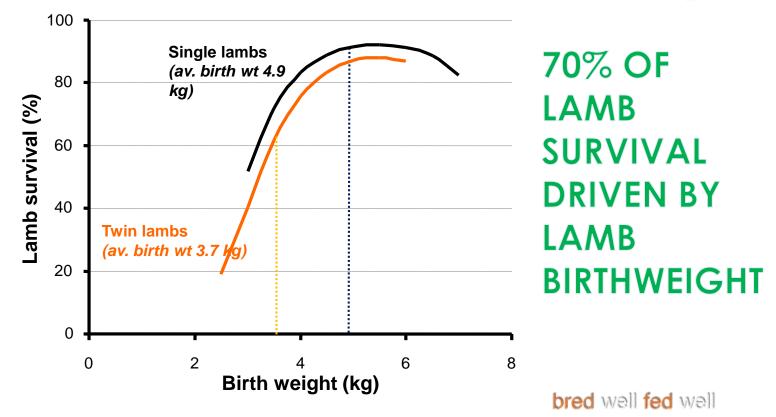
MORE LAMBS SURVIVE AFTER WEANING





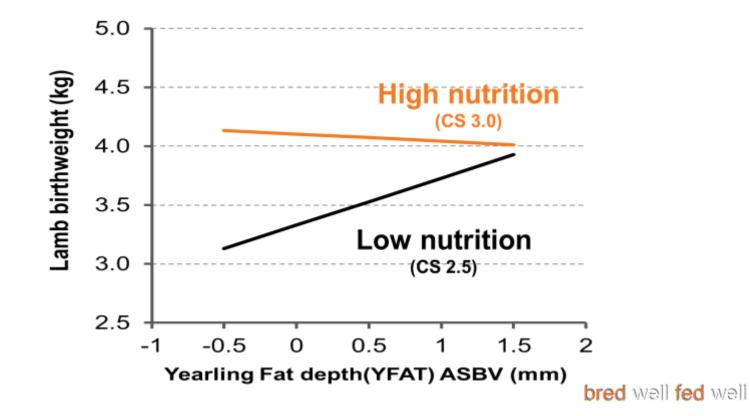


LAMB BIRTH WEIGHT DRIVES SURVIVAL



GENETIC FAT AND BIRTH WEIGHT





GENETIC FAT











FEED EFFICIENCY



LAMB BIRTH WEIGHTS



LAMB RESILIENCE

= \$\$\$\$\$



LAMB BIRTH WEIGHT

Sire group	Birthwt	Growth (PWWT)	PFAT (post weaning fat)	PEMD (eye muscle depth)
Lambplan	0.36	14.2	-0.15	1.4
Non Lambplan	Unknown	Unknown	Unknown	Unknown

2010 – Dennis & Geoff Hogan Glen Innes NSW



Source: Brent McLeod & Ashley White

BIRTH WEIGH – DYSTOCIA?





LAMBPLAN ASBV		UNKNOWN
0.3	36	?
0.7%	LAMB ASSISTS	<u>5</u> 2.6%
0.7%	<u>EWE DEATHS</u>	2.7%



Source: Brent McLeod & Ashley White

MANAGEMENT



SCANNING



FLOCK SIZE



CONDITION SCORE







Making More From Sheep



TRENDS IN AVERAGE MARKING RATE

Enterprise sector	Average marking rate (1990-1999)	Average marking rate (2000-2009)
Prime lamb specialists	New	Average
Sheep specialists	Zealand 130% and	lamb marking
Mixed sheep enterprises	increasing ~1.5%/yr	percentage s ~90% for
Sheep Industry Total	How ???	2010-2014

(ABARE Survey data for all sheep regions of Aus)



SCANNING FOR MULTIPLES



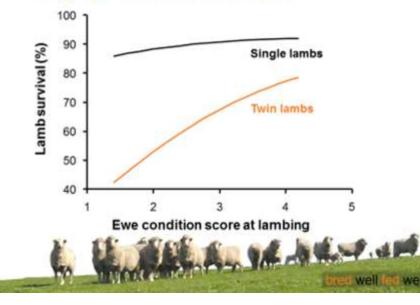
SCAN 40 DAYS AFTER RAM REMOVAL IDENTIFY MULTIPLES AND SEGREGATE 70% FOETUS GROWTH IN LAST TRIMESTER RULE OF THUMB - TWINS +25% - TRIPLETS +45% MULTIPLES NEED HIGH ENERGY DIFFICULT TO OVERFEED MULTIPLE BEARERS

CONDITION SCORE



** CONDITION SCORE AT LAMBING IS THE MOST CRITICAL CONSIDERATION **

Higher condition at lambing



IT IS NOT A LAST MINUTE DECISION

To prevent 1 kg wt loss ~ 3 kg grain

To increase 1 kg bodyweight ~ 7 kg grain

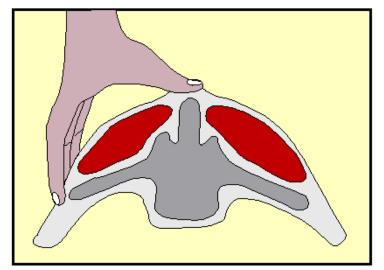
10 Kg loss in ewe resulted in 0.8 Kg lower Bwt

10 Kg gain only gave 0.5 Kg gain in Bwt

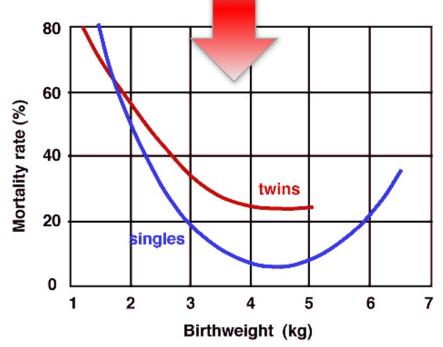
Feeding to maintain weight will pay Feeding to increase weight will not pay

CONDITION SCORE



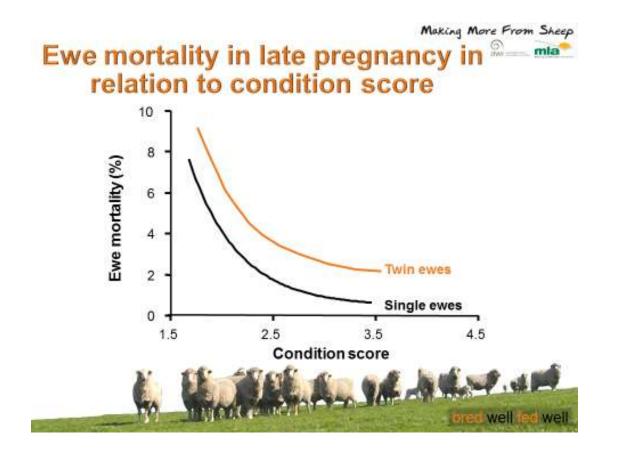


- CONDITION SCORE NOT BODY WEIGHT
- BIRTH WEIGHT DRIVES LAMB SURVIVAL
- CONDITION SCORE AFFECTS EWE
 MORTALITY



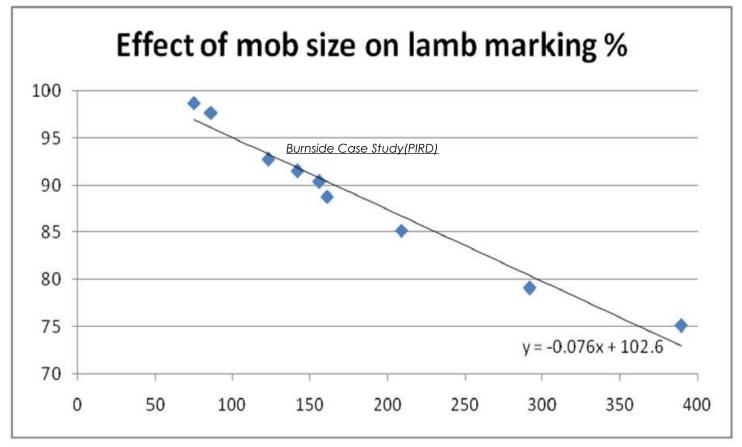
EWE MORTALITY







FLOCK SIZE



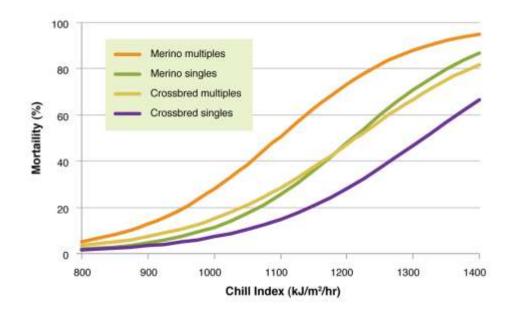
SINGLES	MATURE EWES	400
SINGLES	MAIDEN EWES	300
MULTIPLES	MATURE EWES	200
MULTIPLES	MAIDEN EWES	150

SHELTER





- SHELTERING CAN REDUCE MORTALITY BY UP TO 40%
- GREATER BENEFIT WITH MULTIPLES IN BAD WEATHER
- LAMBS WITH SHELTER HAVE HIGHER WEANING WEIGHTS



EFFECT ON SURVIVAL



EFFECT OF SHELTER ON LAMB SURVIVAL AT HAMILTON Behrendt and Friend (2010)

<u>SURVIVA</u> L	WITH SHELTER	WITHOUT SHELTER
SINGLE LAMBS	82%	78%
TWIN LAMBS	87%	76%
TRIPLET LAMBS	96%	50%

BENCHMARKS



90% IN SINGLES

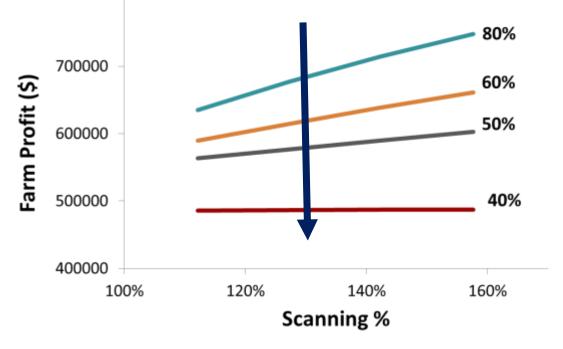
75-85% IN MULTIPLES

State of the state



I'M HAPPY WITH A HEALTHY SINGLE !

Scanning x Twin survival



ONE IS NOT ENOUGH!







