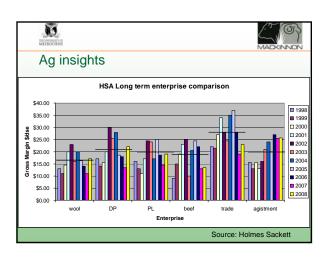
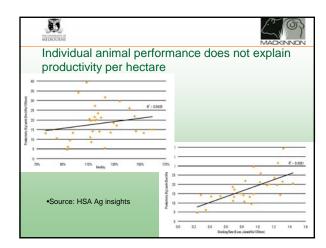
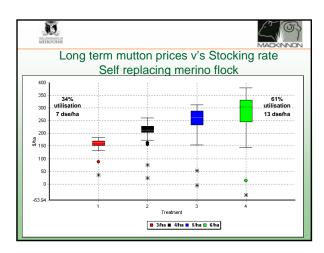


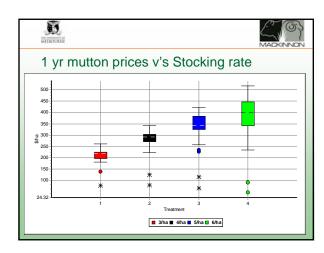
MITEOURN			MADEINION		
Historical gross margins (\$/dse)*					
	37 years	10 years	5 years		
• Beef	\$15	\$16	\$16		
Prime lamb	\$26	\$20	\$19		
• Wool	\$23	\$15	\$13		
Enormous variation within year, between years and between farms in farm income					

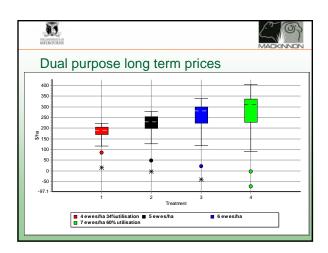


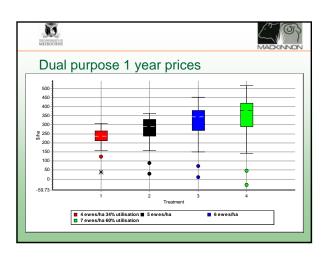




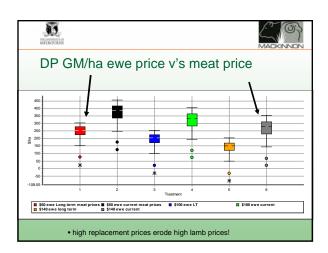


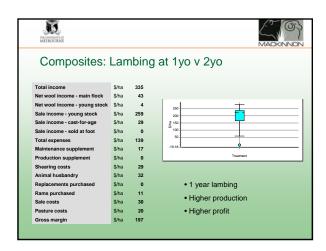


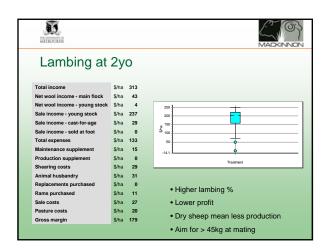


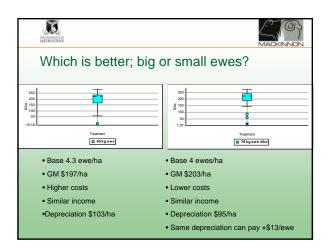




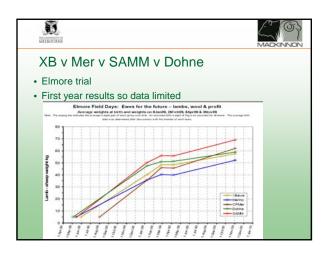


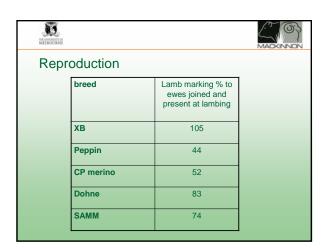


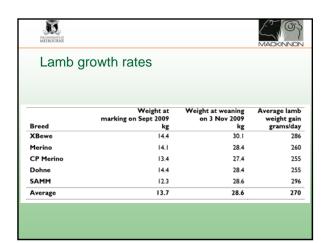




THE OWNER OF THE STATE OF THE S			MACK
Enterprise	Meat price	GM/ha	GM variability
Merino SR	Long term	201	49
Merino SR	1 year	275	57
Merino DP	Long term	211	67
Merino DP	1 year	272	80
Comp 60 kg	Long term	197	66
Comp 60 kg	1 year	248	76
Comp 60 kg lamb 2yo	Long term	170	60
Comp 60 kg lamb 2yo	1 year	229	67
Comp 70 kg	Long term	203	62
Comp 70 kg	1 year	318	77
Comp 70 kg +15% -wool	Long term	201	67
Comp 70 kg +15% -wool	1 year	314	83
Comp 70 kg +15% +wool	Long term	223	67
Comp 70 kg +15% +wool	1 year	345	86











Wool traits

Breed	CFW kg	FD	Fleece value
ХВ	2.88	28.7	\$12.40
Peppin	3.23	19.2	\$29.38
CP merino	2.94	18	\$31.67
Dohne	2.45	19.8	\$21.88
SAMM	2.12	23.4	\$15.15





Are SA merinos better?

- Too early to make any conclusion from this trial
- SAMM no better than XB especially with lower skin and carcase value?
- Dohne ahead of SAMM
- Dohne fleece values means unlikely to be better than high fertility merino
- Dorpers?







Sustaining flock structure in merino/dual purpose flocks

- Age structure of the national sheep flock has increased by 1.5 years in recent years
- Cause:
 - Mating too many merinos to terminal sires
 - Not replacing due to high cost of replacements
 - Has been good for cash flow but the issue is at crisis point for many
 - Problems will persist with ongoing low sheep numbers and high sheep prices





How many merino ewes can you mate to terminals?

- Depends on
 - Lambing %
 - ewe hogget culling %
 - weaner death rate %
 - Adult death rate %
 - Age ewes are kept
- Issues
 - Profitability of each enterprise
 - Increasing complexity
 - Mulesing/Flystrike in merinos





How many merino ewes can you mate to terminals?

- Model flock
 - Assumptions
 - Keep ewes for 5 lambing periods
 10% weaner DR

 - 5% ewe hoggets culled
 - 3% adult DR
- Results

lambing % in merinos	70%	75%	80%	85%	90%
Max % ewes to terminals	29%	33%	37%	41%	44%





Alternative (to increase exposure for prime lamb production)

- Retain first cross ewe lambs to produce first cross ewes
 - 75% lambing merinos 33% mated to terminals - 28% DSE mated (merino ewes to terminal)
 - If first cross ewe lambs retained for 2nd cross lamb production
 - 14% DSE (merino ewes to terminal)46% DSE (first cross ewes)
- Set up specialist SR composite flock
 - Much greater amplification of numbers possible

 - Enable bigger exposure quickly
 Control genetic improvement



Ewe nutrition



- To prevent 1 kg wt loss
- To increase 1 kg bodyweight ~ 7 kg grain
- · Response to ewe body weight at joining
 - 1 kg ewe weight change = CR by 2.5% (1.5% live lambs)
- · Response to ewe body weight at lambing
 - 1 kg ewe weight change = 1.1% singles 1.6% twins







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

Management	Margin/ 100 ewes	Return on investment
Maintain 1 kg LW at joining	\$43.50	73%
Increase 1 kg LW at joining	-\$24.50	-ve
Maintain 1 kg LW in pregnancy	\$23.50	42%
Increase 1 kg LW in pregnancy	-\$44.50	-ve





Summary

- Management first
 Balance number of ewes per ha, Tof L
 Reproductive rate
 Lamb growth rate
 Sale prices and timing
 Genetics
- Stocking rate still drives profit
 Benefit of increasing lambing % greatest if understocked
 If fully stocked may need to reduce number of sheep run
- High meat prices favour lamb production
 But merinos benefit too
 High meat prices provide more short term opportunities such as finishing
 Understand the impact of changing enterprise
 Production and price