

Lamb production in New Zealand

- 27.3 million breeding ewes
- 24.7 million lambs slaughtered per annum
- 96% exported
 - 55% of world's exports
 - 50% of NZ exports go to the EU







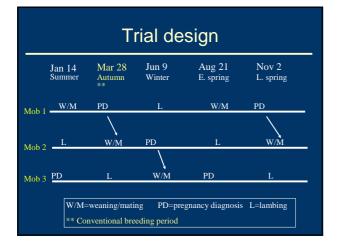


Why adopt an accelerated lamb production system?

- Increase number of lambs born per ewe annually
 - Alternative is to aim for high lambing percentages
- · Continuous supply of lamb
- Better utilisation
 - meat processing plants
 - skilled labour
 - pasture

Methods

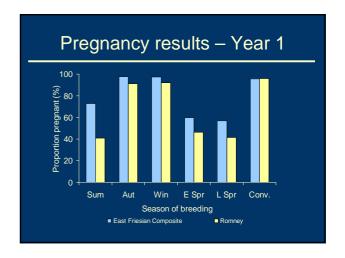
- Breeds
 - NZ Romney
 - East Friesian Composite
- Pasture based
- Two 20 ha farmlets
 - Control (280 ewes)
 - Accelerated (280 ewes)
 - Based on the "STAR" system (Cornell University, USA)
 - 3 mobs lambing 5 x 3 years



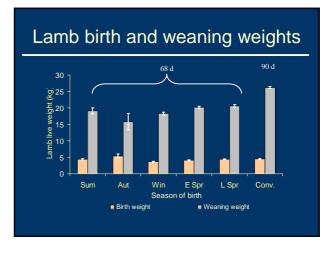
Results

- Pregnancy percentages
- Lamb birth and weaning weights

Pregnancy results (%)				
System & Yr	n & Yr East Friesian C. Romne			
Acc. Yr 1	76 ^b	63 ^b		
Acc. Yr 2	62 ^a	55ª		
Acc. Av.	69 ^y	60 ^y		
Conv. Yr 1	96	96		
Conv. Yr 2	98	99		
Conv. Av.	97 ^z	98 ^z		







Accelerated vs Conventional				
	Foot F	rianian	Dom	2001
	East Friesian		Romney	
	Convent.	Acc.	Convent.	Acc.
No. lambs weaned	260	427	295	346
Kg lambs sold	7,218	9,080	7,183	7,300
Income from lambs	€7,800	€9,200	€6,100	€7,500

Discussion
Limiting factors
 Low out of season pregnancy rates Possible solution Breed change Different reproductive hormone regime
Other issues
Lamb age and live weight at weaningPossible solutionDelay weaning, bred lactating ewes
 Internal parasite challenges (summer & autumn)

Conclusion

- Increased number of
 - ewes mated
 - lambs born
- Earlier weaning age, lower weaning weights
- Increased gross farm profit
 - more kilograms of lamb sold per farmlet

Acknowledgements

- Meat and Wool New Zealand
- MEAT & WOOL
 NEW ZEALAND

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