

Nutrition & Management of your flock

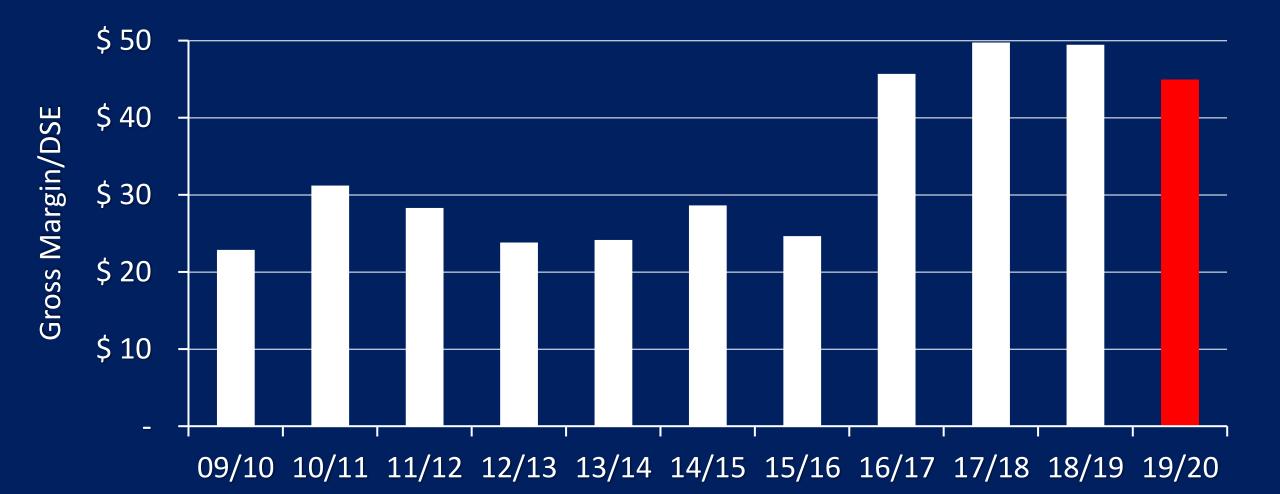
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Managing a sustainable sheep enterprise

- Key plank of sustainable is profitable
- Lessons from 2017/18/19? (Tough starts to season)
- Mated ewes are the engine room of the systems
- Principles of feeding
- Feed budgeting

Profitable Sheep...



Source: Compass Agricultural Alliance & Icon Agriculture

Lessons learned in poor seasons?

- Things didn't turn bad overnight, they happened incrementally
- Did you recognise the signs?

- Did you have trigger points?
- Did you act on these trigger points?

Next time - The exit strategy

- If this season was overwhelming Come up with strategy before next season
- Determine potential stocking rate for a range of seasons
- What tactics are available?
- When will the tactics be employed?
- What & Who mechanics of employing tactic
- Review, revise, repeat

Right Now - Breeding Ewes

- Breeding Ewes
- Good condition = good yield potential
- Why?
- Increased Condition Score
 - = \uparrow wool cut
 - = \uparrow conception rates

What options do you have to attain the result you want?

Condition score

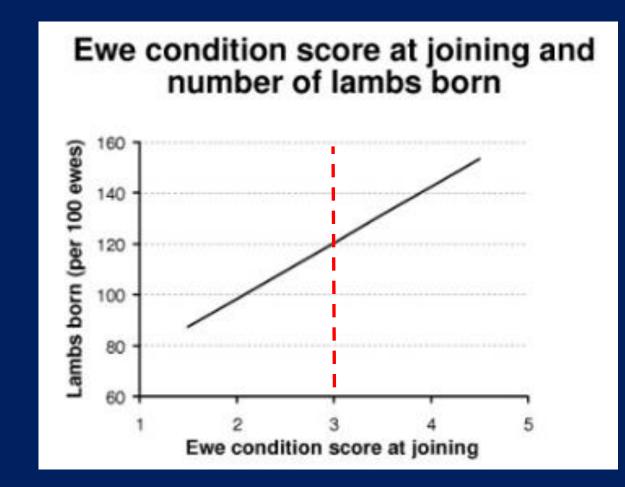
Measure to manage

Condition Scoring

Condition scoring is a critical skill in poor seasons

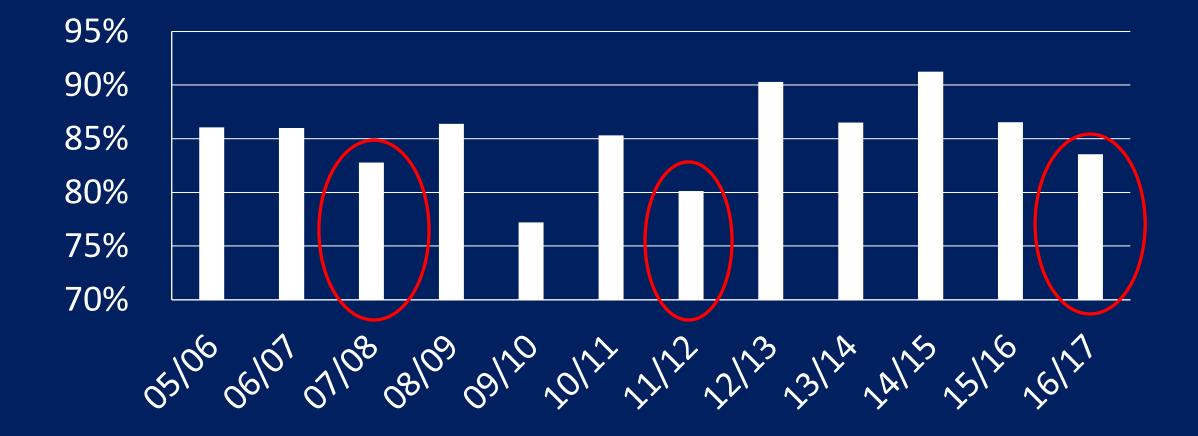


Don't compromise ewes CS



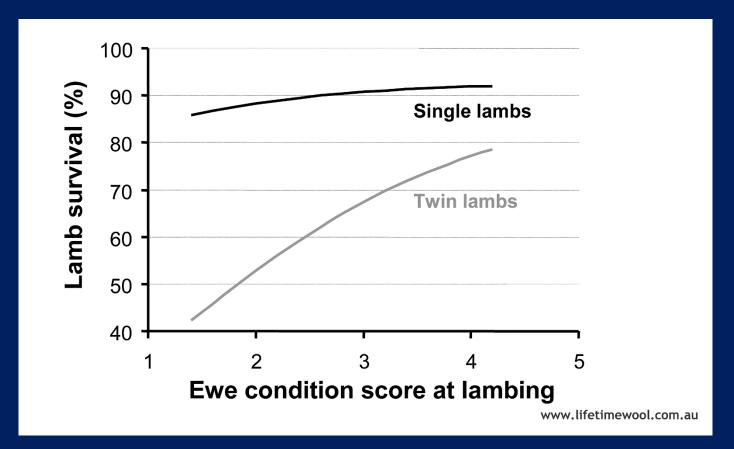
Average response is about 20 extra lambs per 100 ewes for an additional CS at joining

Don't let a poor season double up



CS Set's up potential – Lamb Survival

Starting too far behind will then effect survival



Principles of feeding

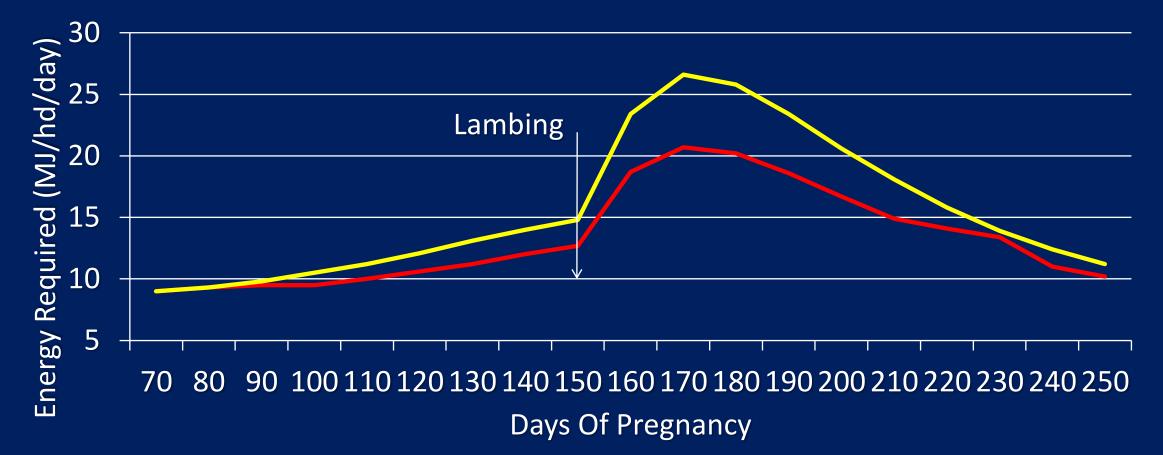
- 1. Energy young & old sheep
 - Most limiting factor
 - Required for all body functions
- 2. Protein young sheep
 - Balanced diet
 - Growth & muscle development
- 3. Vitamins & Minerals

1. Energy

- A 60 kg single bearing adult dry ewe requires:
 - 10 ME
- 2 weeks prior to lambing
 - 14 ME
- Day 30 lactation
 - 24 ME!

Energy Required

-Singles -Twins



TOL: Implications for Energy Requirements?

	Sys	System		
	1	2		
Date of Lambing	1 st July	1 st May		

Energy Req:

• @ 1 st April	8.7 ME	12.0 ME	38%
• @ 1 st May	9.6 ME	13.5 ME	41%
• @ 1 st June	11.2 ME	22.4 ME	200%

What do your sheep require now?

- Preg status single/twin/dry?
- Day of pregnancy or lactation?
- = Energy required

TABLE 1a. Energy Required by Ewes @ Condition Score 3 to maintain weight									
Mainte	Maintenance energy (MJ/d) for ewes under drought paddock conditions Confinement Fed								
Day of pregnancy	small fran maintain single	a nera	S 3 maintain @ CS 3 main		large frame (60kg) maintain @ CS 3 single twin		medium frame maintain @ CS 3 single twin		
dry	7.4	7.4	8.0	8.0	9.3	9.3	6.7	6.7	
50	7.6	7.8	8.4	8.6	9.7	9.9	7.0	7.2	
70	8.0	8.4	8.7	9.1	10.1	10.7	7.4	7.9	
100	9.0	10.2	9.9	11.1	11.5	12.9	8.6	9.8	
130	11.3	14.1	12.3	15.4	14.4	17.7	10.9	14.1	
days	maintain	@ CS 3	maintain @ CS 3 maintain @ CS		@ CS 3	ewes and lambs			
lactating	single	twin	single twin single tw		twin				
10	17.3	21.7	18.7	23.4	21.5	26.9	ask for a	nt feeding	
30	18.7	23.9	20.2	25.8	23.2	29.6	confineme		
50	15.5	19.1	16.7	20.6	19.2	23.7	ewes an		

Right now...

- What feed is in my paddock?
- Dry FOO
- Green FOO
- Pasture growth rates







- sheep are selective grazers. (10-15%)
- 3 6 ME (Plus grain on ground)

Deficit MJ/day	expected loss g/h/d	CS in 30 days (45kg)	CS in 30 days (50kg)	CS in 30 days (60kg)	
-1.00	-29	-0.12	-0.11	-0.09	
-2.00	-57	-0.23	-0.21	-0.17	
-3.00	-85	-0.34	-0.31	-0.26	
-4.00	-113	-0.46	-0.41	-0.34	
-5.00	-142	-0.57	-0.52	-0.43	

8.4 MJ/day deficit!

Making up the difference

- What are you feeding?
- What energy level has it got?
- What rate are you feeding?
- How much energy does this supply?

What's grain worth to your sheep?

	Price (\$/T DM)	Energy (MJ/kg)	Cost (c/MJ)
Oats*	\$380	10.7	3.55 c
Barley	\$280	11.9	2.35 c
Нау	\$250	9.0	2.77 с
Lupins	\$500	13.7	3.65 c
Pellets	\$450	11.5	3.91 c

*Much variation in Oats

Principles of feeding Protein

- Low protein = limited intake
- Lupins or green feed
- Why?

Rumen cannot process the 3% bodyweight.

- The solution
 - To make up the protein deficit
- Feed Lupins if no green feed available

2. Protein

	Price (\$/T DM)	Protein (%)	
Oats	\$380	8.8%	
Lupins	\$500	31.3%	
Barley	\$280	10.8%	
Pellets (Low)	\$330	10%	
Pellets (High)	\$450	14.1%	

2. Protein

- Low protein = limited intake
- Lupins or green feed
- Why? Rumen cannot process the 3% bodyweight
- Making up protein deficit?
- Feed Lupins if no green feed available

Incredibly important in growing sheep

3. Minerals

Selenium Vitamin E Calcium based licks

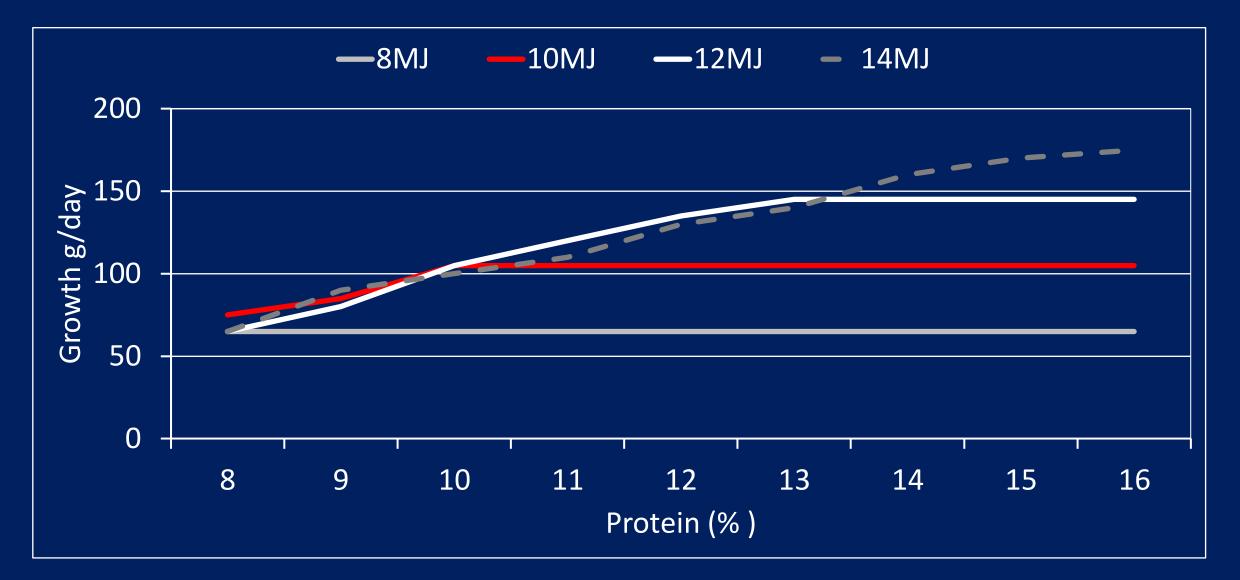
Why? Short period on green feed Long periods on cereal grains

Best practice management?

Weaners

- High Protein 15% (depending on size?)
- Growing or dying
- No worms
- Vitamin E (If no green pick)
- Selenium
- Find ways to minimise the tail! Eg. Draft off the tail

Growing Weaners



How much feed do you need?

- Depends on..
 - nutritional requirements of the animal being fed
 - Number of animals to feed
 - Feed on offer (FOO)
 - Energy content of feed
 - How long you will be feeding for? Until August?
 - Sheep Feeding Model

Todays Points

- Exit Strategy
- Principles of feeding
 - Energy
 - Protein
 - Vitamins & minerals
- Managing Ewes
- How much feed do you need?