



### Nutrition & Management of your flock

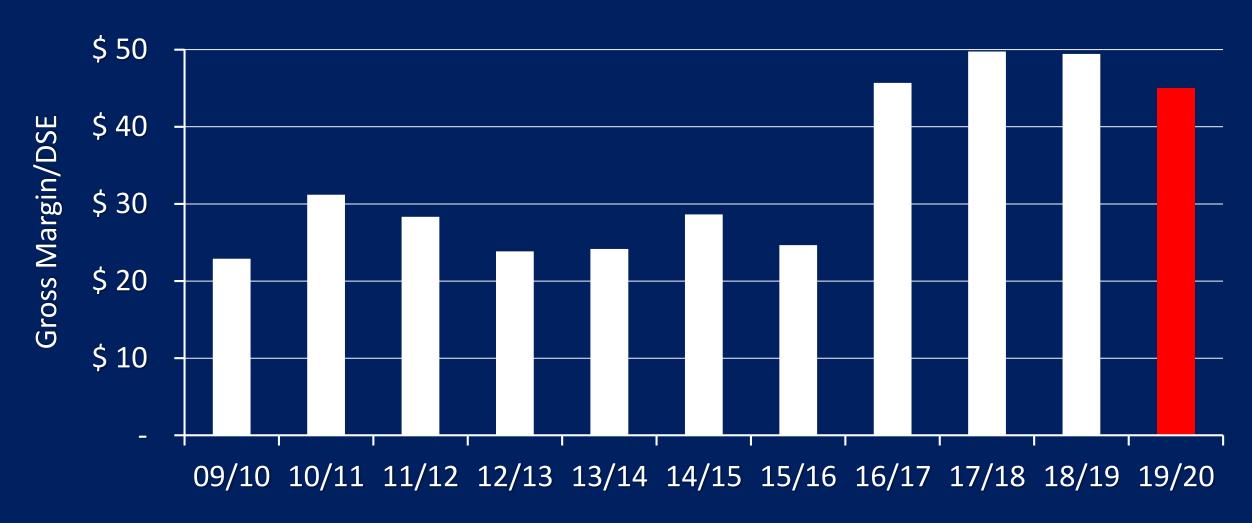
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### Managing a sustainable sheep enterprise

- 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
  - = ↑ wool cut
  - $= \uparrow$  conception rates

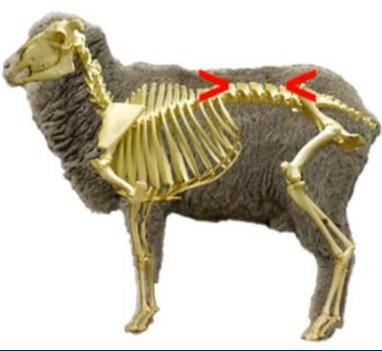
What options do you have to attain the result you want?

# Condition score Measure to manage

### Condition Scoring

Condition scoring is a critical skill in poor seasons





#### How to Condition Score



#### 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 quite thin

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



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.

#### **Short Ribs**

The ends of the short ribs 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.



#### Backbone

The vertebrae are only slightly elevated above a full eye muscle. It is nossible to feel each rounded bone but not to press between them. (Forward store condition No excess fat)

#### **Short Ribs**

The ends of short ribs are well rounded and filled in with muscle. together, it is possible to feel the them. They are well covered and filled in with muscle



Backbone It is possible to feel most vertebrae with pressure. The back bone is a smooth slightly raised ridge above

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 palm, where maybe one end can just be sensed.

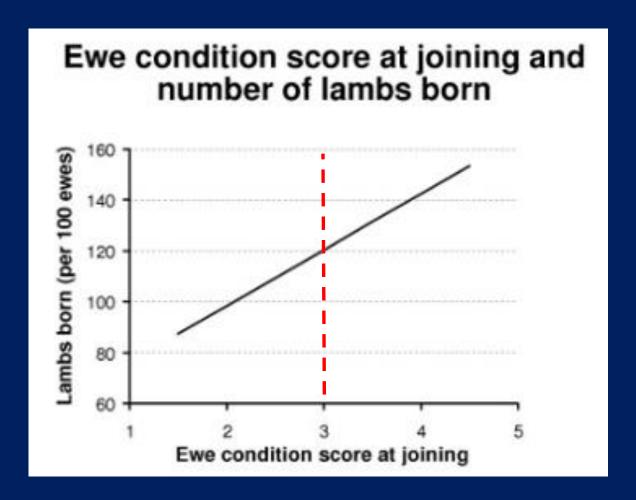


The spine may only be felt (if at all) by pressing down firmly between the under the ends as the triangle fat covered eye muscles. A bustle of fat may appear over the tall

it is virtually impossible to feel formed by the long ribs and hip bone is filled with meat and fat,

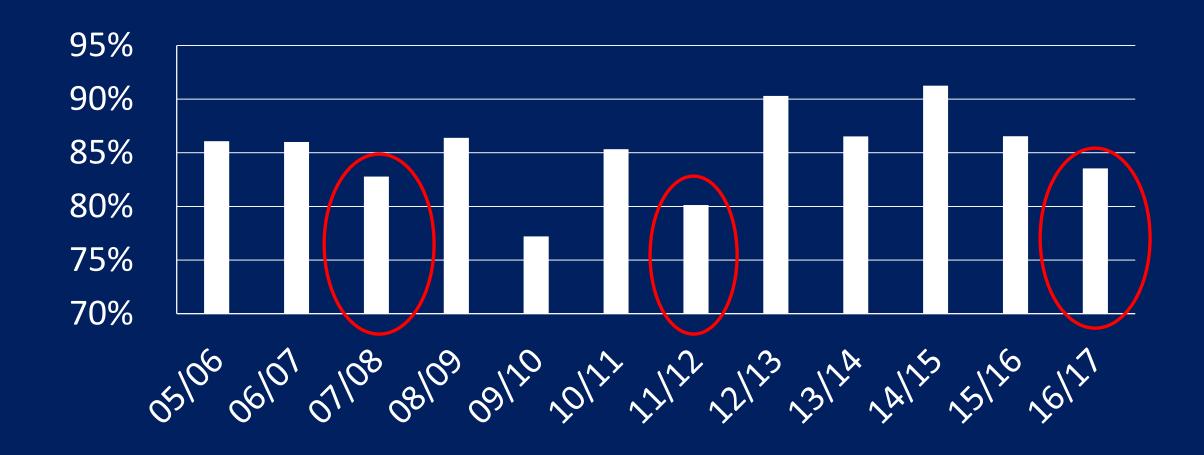
lifetimewool

### Don't compromise ewes CS



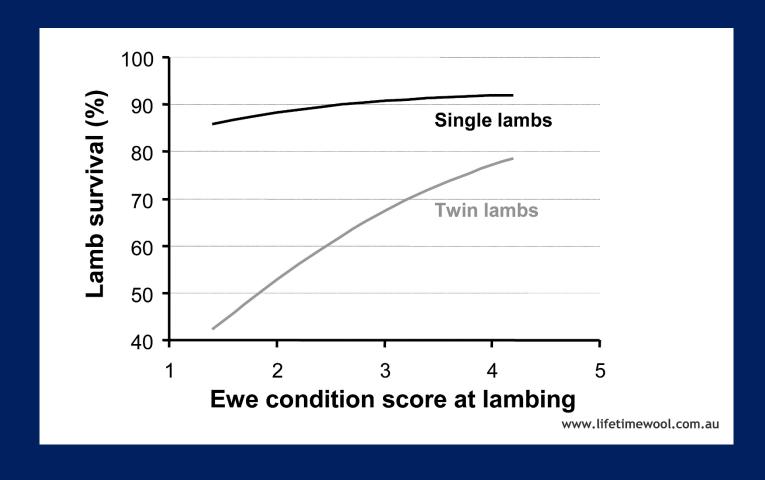
Average response is about 20 extra lambs per 100 ewes for an additional CS at joining

#### Don't let a poor season double up



#### CS Set's up potential – Lamb Survival

Starting too far behind will then effect survival



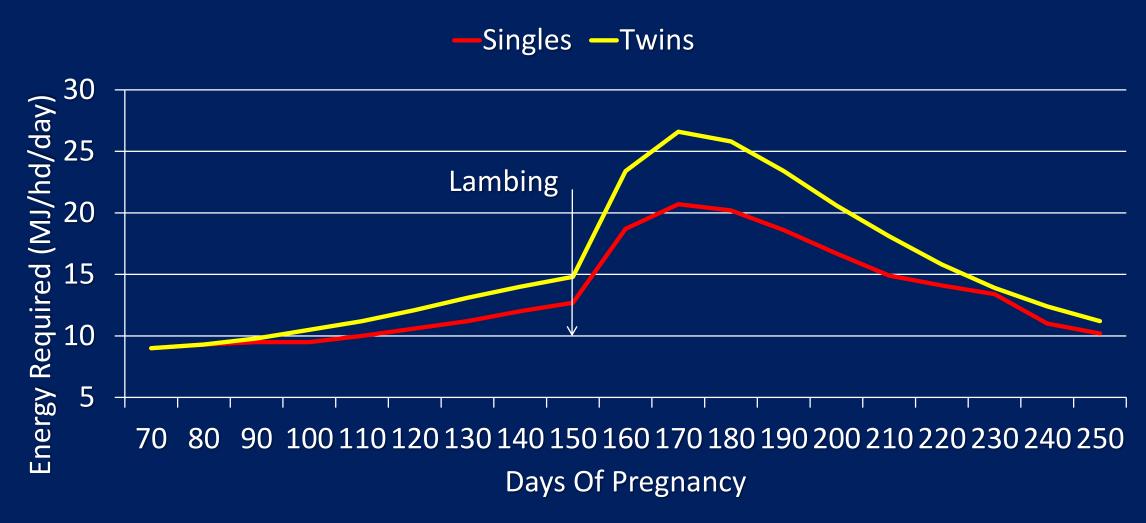
### Principles of feeding

- 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



#### TOL: Implications for Energy Requirements?

	Sys	System		
	1	2		
Date of Lambing	1 <sup>st</sup> July	1 <sup>st</sup> May		

#### Energy Req:

• @ 1 <sup>st</sup> April	8.7 ME	12.0 ME	38%
• @ 1 <sup>st</sup> May	9.6 ME	13.5 ME	41%
• @ 1 <sup>st</sup> 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 frame (45kg) maintain @ CS 3 single twin		medium frame (50kg) maintain @ CS 3 single twin		large frame (60kg) maintain @ CS 3 single twin		medium frame maintain @ CS 3 single twin	
dry 50 70 100 130	7.4 7.6 8.0 9.0 11.3	7.4 7.8 8.4 10.2 14.1	8.0 8.4 8.7 9.9 12.3	8.0 8.6 9.1 11.1 15.4	9.3 9.7 10.1 11.5 14.4	9.3 9.9 10.7 12.9 17.7	6.7 7.0 7.4 8.6 10.9	6.7 7.2 7.9 9.8 14.1
days lactating 10 30	maintain single 17.3 18.7 15.5	cS 3 twin 21.7 23.9 19.1	maintair single 18.7 20.2 16.7	twin 23.4 25.8 20.6	maintain single 21.5 23.2 19.2	@ CS 3 twin 26.9 29.6 23.7	ewes an ask for a confineme	dvice on nt feeding
50	15.5	13.1	10.7	20.0	13.2	23.7	ewes an	d lambs

#### Right now...

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

### Dry Feed





- 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)	d	CS in 30 lays (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	1	-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
Hay	\$250	9.0	2.77 c
Lupins	\$500	13.7	3.65 c
Pellets	\$450	11.5	3.91 c

<sup>\*</sup>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 (%)	<u> </u>
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

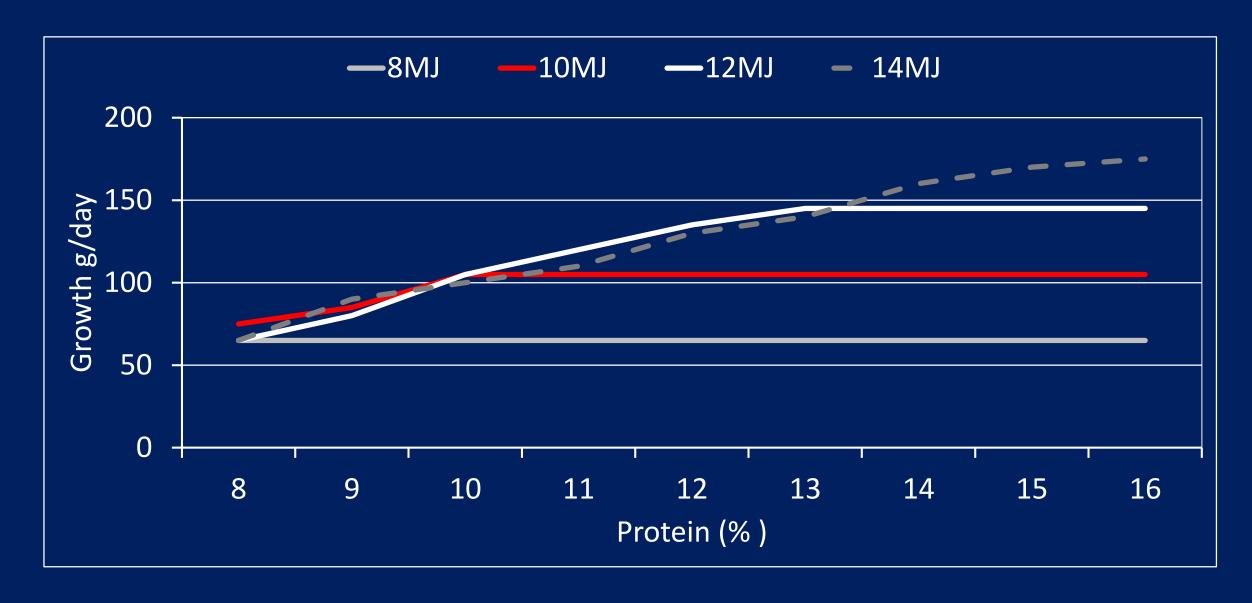
Long periods on cereal grains

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?