# Managing Ewes through Pregnancy & Lambing

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#### What are the main causes of ewe and lamb death?

### What can we control?







#### MAIN DRIVERS OF EWE AND LAMB LOSS



#### **Birthweight & Birth Type**







#### LAMB BIRTH WEIGHT AND SURVIVAL



#### EWE CONDITION SCORE AT LAMBING AND LAMB SURVIVAL (lifetime wool)







# **TOOL:** Condition Scoring







### **CONDITION SCORE**

- Measure of fat and muscle
- NOT Fat Score measures fat cover only over the long rib





# WHY CONDITION SCORE?

- More accurate than Fat Score for managing ewes
- Simple and quick
- Can predict production of ewes/lambs
- Better feed allocation

#### AIM FOR:

CS 3 (singles) and 3.5 (twins) at LAMBING CS 3 at JOINING







# **MEETING THE NEEDS OF PREGNANT EWES**

#### 1. Determine ewe's energy requirements

- 2. Assess pasture for quality & quantity
- 3. Calculate surplus/deficit and feed appropriately







#### **Energy Requirements for 60kg Ewe**

# **SCANNING**

- Identify any joining problems
- Draft ewes post scanning pregnancy and CS
- Better allocate feed
- (Better manage twins)
- Multiple/Single 90 days from rams in
- Wet/Dry from 35 days after rams out
- Early/Late







# **MEETING THE NEEDS OF PREGNANT EWES**

- 1. Determine ewe's energy requirements
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# Quantity

- Feed on Offer (FOO)
- Kg DM/ha







300–600 kg/ha



1200–1500 kg/ha

<image>

### QUALITY



### What's in the feed?



Cannon ball – Wilcannia May 2020 DOMD 55% CP 20% ME 7.8 MJ



 Blue bush – Wilcannia May 2020

 DOMD
 43%

 CP
 14%

 ME
 5.6 MJ



# **Pastoral Plants**

	Saltbush	Blackbush	Bluebush	Spear Grass (Dry)
Protein (% DM)	11 - 20	15	14 - 23	4 – 5
Energy (MJ/kg DM)	7 - 11	5.5	6 - 10	6.5
Digestibility (DOMD %DM)	45 - 55 42 56			45
Other				







# **MEETING THE NEEDS OF PREGNANT EWES**

- 1. Determine ewe's energy requirements
- 2. Assess pasture for quality & quantity
- 3. Calculate surplus/deficit and manage appropriately







You can't make a silk purse from a sow's ear

# **FEEDTEST!**

# **SUPPLEMENTARY FEED**

Feed Source	DM %	ME (MJ/ kg DM)	As fed ME /kg	\$/ Tonne	\$/ MJ	СР %
Cereal Hay	87	8.5	7.4	\$180	\$0.03	6
Lucerne Hay	87	9.0	7.8	\$350	\$0.05	21
Pellet	90	11.0	10	\$470	\$0.05	16
Barley	90	12.3	11	\$240	\$0.02	11
Lupins	90	12.5	11	\$400	\$0.04	32





# How much can they eat?

#### Higher fibre feed = Lower daily intake

A ewe can eat (roughly, % bodyweight):

- 3.5% bwt grain
- 2 to 2.4% bwt hay
- 1.8% bwt straw







Table 5. Change in Condition Score due to ME Surplus or Deficit									
Increasin ME Surplu	ig Condition s (above maint	Score enance)			Decreas ME Defici	sing Condition it (below mainte	n Score nance)		
ME	CS gain	Gair	n g/day		ME	CS loss	Los	s g/day	
surplus	per month	50kg	60kg	70kg	Deficit	per month	50kg	60kg	70kg
6.0	0.4	91	124	131	-3.00	0.4	92	107	133
6.5	0.4	99	134	142	-3.25	0.4	100	116	143
7.0	0.4	107	145	153	-3.50	0.4	108	125	154
75	0.4	114	155	164	-3.75	0.4	115	134	165
8.0	0.5	122	165	175	-4.00	0.5	123	142	176
8.5	0.5	129	176	186	-4.25	0.5	130	151	187
9.0	0.5	137	186	197	-4.50	0.5	138	160	198

It takes twice as much energy to gain weight than lose it





#### IT TAKES TWICE AS MUCH ENERGY TO GAIN WEIGHT THAN LOSE IT

Need = 10MJ/day, less pasture intake = 5MJ/day =Balance = -5MJ/day

60kg Dry Ewe, CS3	Maintain Condition	Lose Condition	
FEB/MAR			
ME Supplement (Grain mix = barley + buffer)	5.5 MJ (0.5kg/h/d)	0 MJ	
Energy Balance	Maintain	Lose 0.6 CS /mnth	
Condition Score end Mar	3.0	1.8	
APR			
April feed (max gain 0.6 CS/month)	5.5 MJ (0.5kg/h/d)	15.5 MJ (1.4kg/h/d)	
Condition Score end Apr	3.0	2.4	
TOTAL FEED			
Ration cost = (\$350/t)	18c/day for 89 days	50c/day for 30 days	
Total cost 3 months	\$16.00	\$15.50	





### WATER

- Quality
  - Salinity
  - Contaminants
  - Free of toxins (eg. blue- green algae)
- Clean troughs every couple of days
   more often for younger stock
- Minimum flow rate of 21 litres/minute





### **MINERAL SUPPLEMENTS**









# **TOOL:** Mob Size





# Mob size and Merino twin lamb survival at low stocking rates



# **MOB SIZE & LAMB SURVIVAL**

- 2 to 2.5% reduction in survival for every 100 ewe increase in mob size
- Twin mob size 40-50% of the optimum for singles
- Keep mobs as small as possible





### Take home messages





- Meet the needs of ewes (playing catch up doesn't work)
- Identify fodder/pasture quality and quantity
- Focus on multiples to  $\clubsuit$  survival %
- Restrict Mob Size





### **Tools and resources**

- Bred Well Fed Well
- Making More from Sheep especially Modules 10, 11, 12
- MLA Project Number ON-00347, Improving lamb survival by optimising lambing density, Publication date: 5th February 2019
- Lifetime Wool program and Lifetime Ewe Management producers course



