



# Dry Season Response

Agribusiness Update

July 2017

Supporting your success



# Nutrition and feed budgeting

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## **Energy requirements of lactating ewes**

- •Energy (MJ) requirement increases thro' lactation peaking at day 21
- •Twinning ewes need up to 30% more than singles at peak lactation (~6MJ)
- •Drops to 8.3 MJ/hd once weaned at condition score 3
- •Confinement fed reduces energy required by 20%

To maintain a ewe in score 2 on low pasture

•7MJ of energy a day = 700gms per head per day of a 10MJ feed (oats) or 600gms of a 12 MJ feed (barley)

•6MJ of energy if confinement fed = 500gms per head per day (barley)

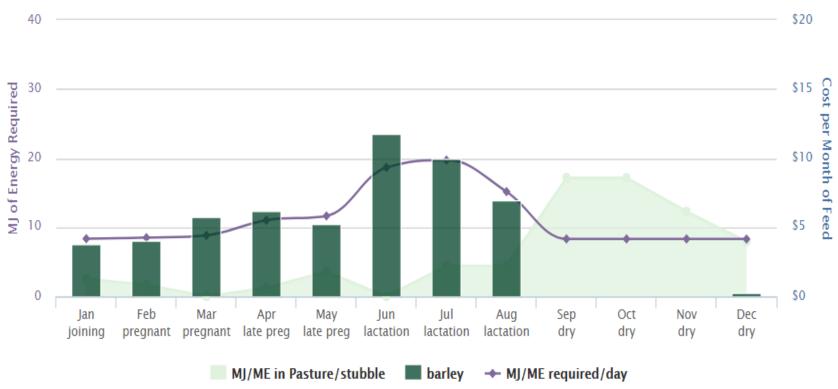
What's she getting from the paddock?





### Sheep Feed Calculator

#### Daily energy requirements and cost of feed / month



Annual feed budget for sheep at www.agric.wa.gov.au/feeding-nutrition/annual-feed-budget-sheep-enterprises





## **Energy requirements of a Merino weaner**

Energy required MJ/head/day					
Liveweight (kg)	Maintain weight	Gain at 30g/day	Gain at 50g/day	Gain at 70g/day	
15	3.9	5.5	6.2	7	
20	4.8	6.7	7.5	8.3	
25	5.6	7.8	8.8	9.5	
30	6.3	8.8	9.7	10.5	

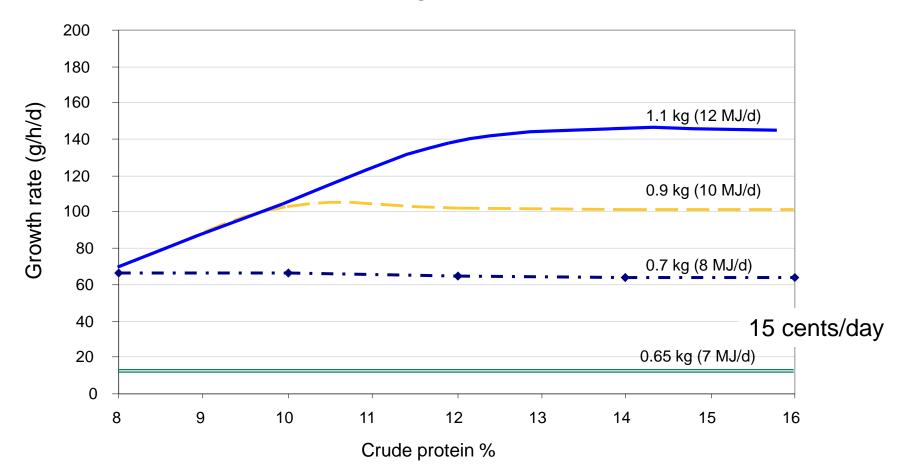
But its not all about energy in growing animals

- Weaners need protein and energy
- If protein is limiting then growth rate is limited regardless of energy
- If energy is limiting then growth rate is limited regardless of protein

### Supporting your success



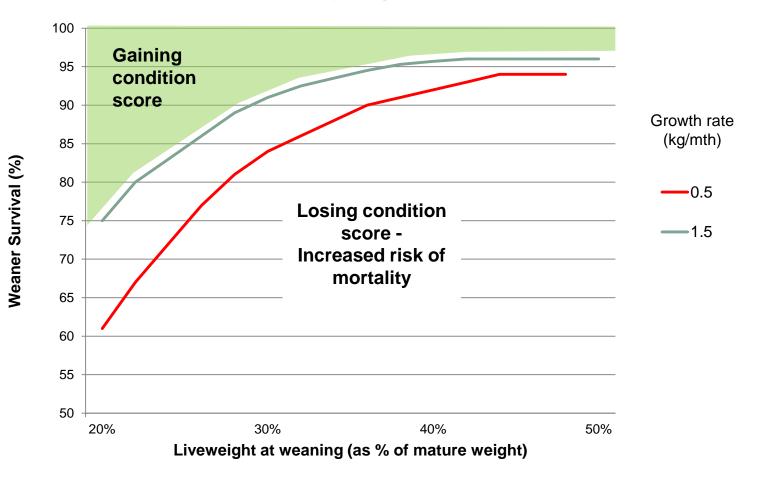
## Growth rate of a 30kg Merino weaner with an 11 MJ/kg DM diet



Maintenance for a weaner means growing at >30gms per head per day (1kg per month)



#### Growth rate and bodyweight effect weaner survival



Source: Lifetimewool.com.au





#### Maintenance Pellets at \$250/t

Energy (MJ/kg) as fed:	8 MJ/kg
Energy (MJ/t DM):	7,820 MJ/t DM
Protein % as fed:	6%
Energy (\$/MJ DM):	0.03 \$/MJ DM

#### Barley at \$250/t + 10% hay

Energy (MJ/kg) as fed:	10 MJ/kg		
Energy (MJ/t DM):	10,450 MJ/t DM		
Protein % as fed:	10%		
Energy (\$/MJ DM):	0.02 \$/MJ DM		
Energy (\$/MJ DM):	0.02 \$/MJ DM		

www.agric.wa.gov.au/feeding-nutrition/feed-cost-calculator





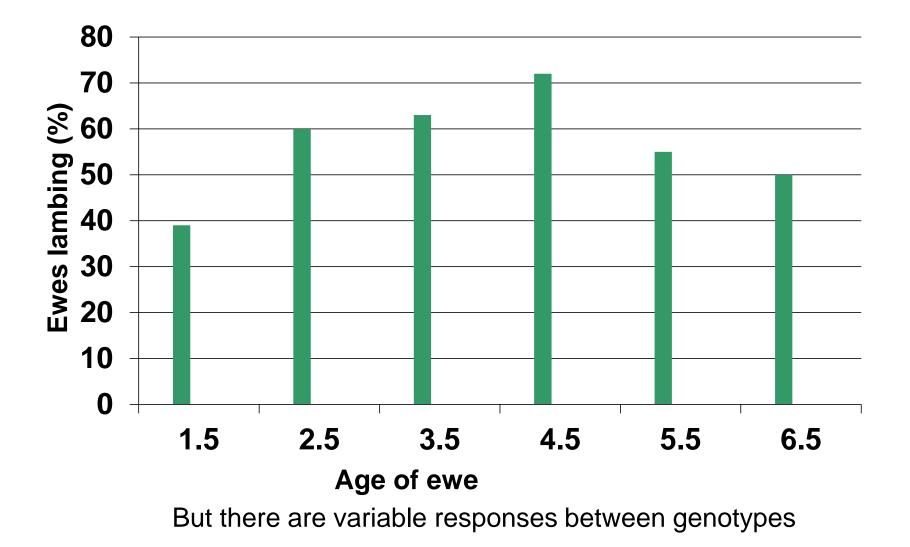
- Age
- Reproductive performance
- Production

# Identify the most valuable ewes!



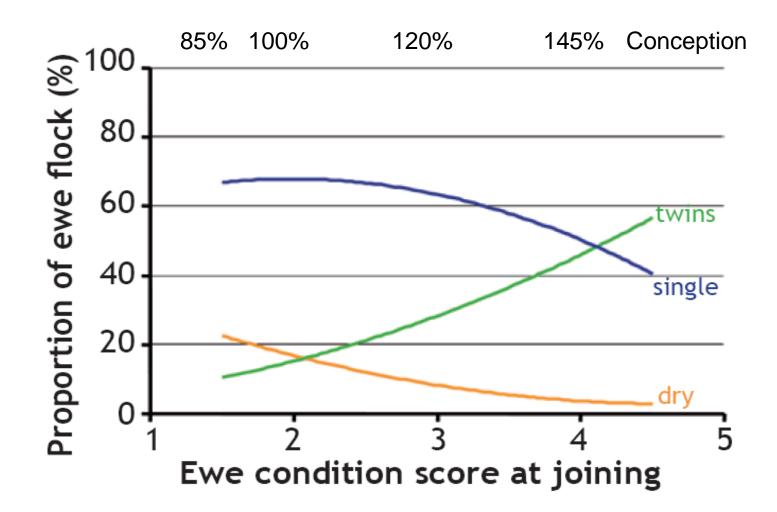


### Age of ewes affects reproduction



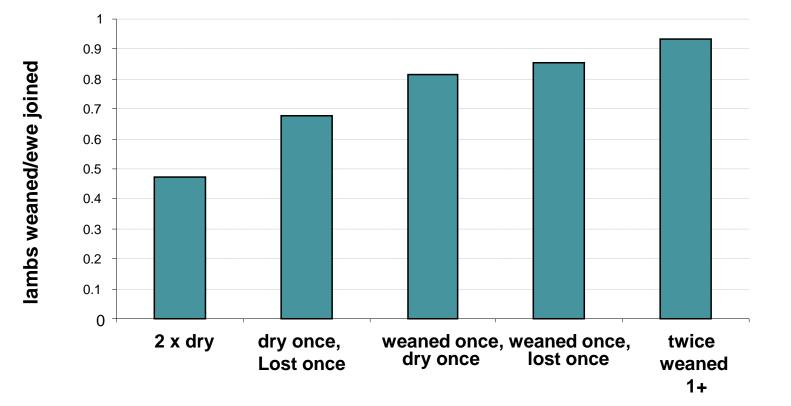


# **Condition and reproduction**



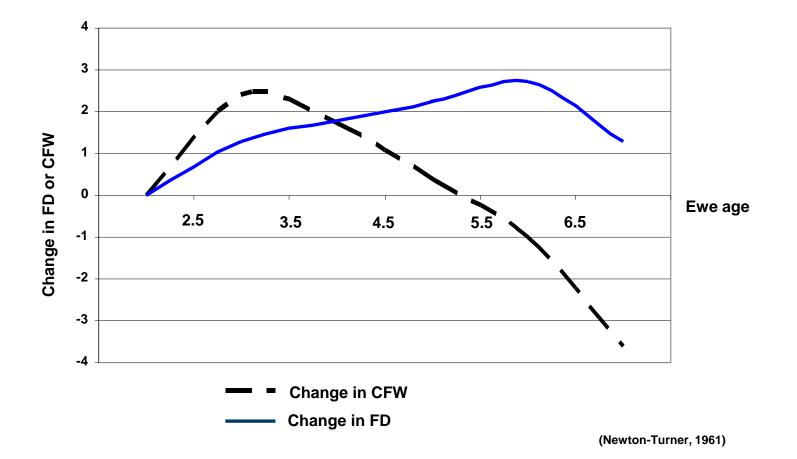
















- Wean early to maximise ewe 'recovery' to get higher ewe condition at next joining
- Feed to meet the needs of individuals, NOT whole flocks
  - variation in condition score between ewes
  - 'twinners' will be up to 0.5 CS lighter at weaning
  - repeatability of twinning  $\approx 15\%$
- Monitor condition score well in advance of joining

Ewes will be in different condition at weaning

Wet and dry to choose performers this season Draft into 2 groups – skinnys (CS <2.5) and fats (CS> 2.5)





- Feed budgeting tables and calculators
- Feed Cost calculator
- Condition scoring video and charts
- Dry seasons info pages on agric.wa.gov.au

Managing a poor spring – workshops for producers (check the Sheep's Back website for dates)

Lifetime Ewe Management Professional Development training day – 28 July at Katanning

Recommend producers do a LTEM course.