

Containment Feeding of Ewes

What can go wrong?

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Consultant

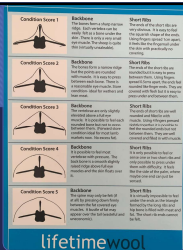


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Why Contain?



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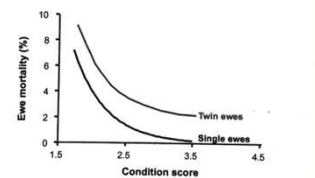


Condition Scoring

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Ewe Mortality

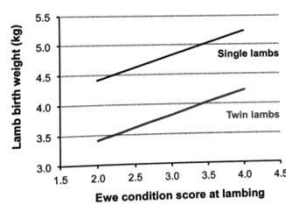
Mortality of Merino ewes in late pregnancy in relation to condition score



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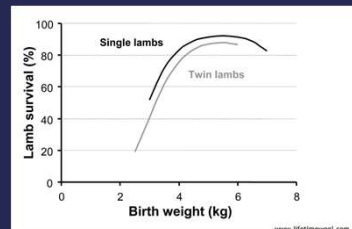
Lamb Survival

Merino ewes in better condition at lambing have heavier lambs



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Lamb Survival vs Birthweight



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Condition Score Spread

Large mob sizes

Inadequate trough space

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Feeding Systems



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Feeding Systems



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Autofeeder



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Fat Ewes

Prone to Prolapse

Dystocia risk

Preg Tox risk

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Requirements

TABLE 1a
Energy Required by Ewes @ Condition Score 3 to maintain weight

day of pregnancy	Maintenance energy (MJ/d) for ewes under paddock conditions						Confinement fed	
	small frame (45kg)		medium frame (50kg)		large frame (60kg)		medium frame (50kg)	
	single	twin	single	twin	single	twin	single	twin
dry	7.8	7.8	8.3	8.3	9.9	9.9	6.7	6.7
50	8.1	8.2	8.6	8.7	10.1	10.3	6.9	7.2
70	8.3	8.7	9.1	9.4	10.5	10.9	7.4	7.7
100	9.3	10.3	10.3	11.5	11.8	13.2	8.3	9.6
130	11.6	14.4	12.8	15.9	14.8	17.9	10.9	11.7
days lactating	maintain CS 3		maintain CS 3		maintain CS 3		maintain CS 3	
	single	twin	single	twin	single	twin	single	twin
	17.7	22.0	19.2	24.0	21.9	28.7	ask for advice on confinement feeding ewes and lambs	
	30	19.2	24.1	20.8	26.5	23.4	29.8	
50	15.8	19.5	17.2	21	19.4	24.2		



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Inadequate nutrition

NDF

Protein

Energy

Mineral
balance

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Analysis Results

Determinant		Result Value
NIR Package (FT003)		
S2021-16249	Dry Matter	91.6 %
S2021-16249	Moisture	8.4 %
S2021-16249	Crude Protein	10.9 % of dry matter
S2021-16249	Acid Detergent Fibre	32.8 % of dry matter
S2021-16249	Neutral Detergent Fibre	67.4 % of dry matter
S2021-16249	Digestibility (DMD)	58.1 % of dry matter
S2021-16249	Digestibility (DOMD) (Calculated)	56.0 % of dry matter
S2021-16249	Est. Metabolisable Energy (Calculated)	8.4 MJ/kg DM
S2021-16249	Water Soluble Carbohydrates	9.3 % of dry matter
S2021-16249	Fat	2.6 % of dry matter
S2021-16249	Ash	2.8 % of dry matter

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How much will they eat (fibrous feeds)?

65 kg Merino ewe

Intake = $120/\text{NDF} = \%$ of BW they can consume

= $120/67.4 = 1.78\%$ of BW = 1.15kg of DM

Hay @ 8.4MJ/Kg DM = 9.7MJ / day of energy from this hay



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Mineral Requirements

Table 18: Major (g/kg DM, g/day) and trace (mg/kg DM, mg/day) mineral requirement for sheep

	Young animal (30 kg)		Dry mature animal - 50 kg		Late pregnancy	Lactation
	maintenance	200 g/day	maintenance	(single)	(single)	(single)
Major minerals						
Calcium						
(g/kg DM)	3.0	3.5	2.0	3.5	3.5	3.5
(g/day)	1.8	4.2	1.6	6.0	7.0	7.0
Phosphorus						
(g/kg DM)	2.0	2.5	1.5	2.0	3.0	3.0
(g/day)	1.3	3.0	1.3	3.5	6.0	6.0
Magnesium						
(g/kg DM)	1.2	1.2	1.2	1.2	1.4	1.4
(g/day)	0.6	1.4	0.8	1.2	2.1	2.1

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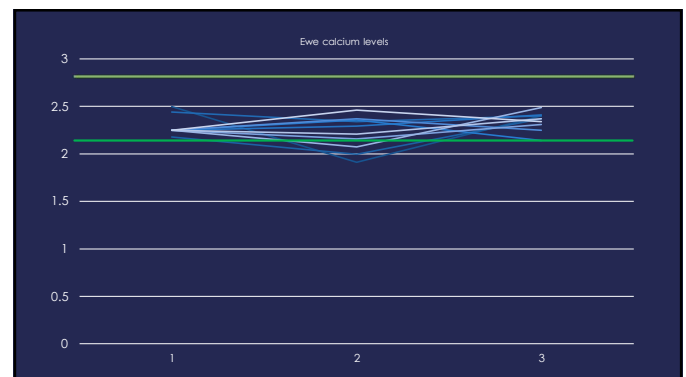
Mineral imbalance

Hypocalcaemia

Hypomagnesaemia



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Health problems

Campylobacter

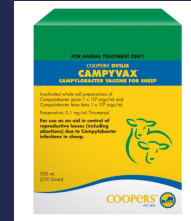
Pulpy Kidney

Acidosis

Prolapse

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Campylobacter



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Containment at Keyneton Station

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Letting Stock out of containment

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