

Planning Spring/Summer 2018

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SAC Consulting is a division of Scotland's Rural College Leading the way in Agriculture and Rural Research, Education and Consulting

Outline



- 1. Soil structure after 2017
- 2. Ewe nutrition: late pregnancy-lactation
- 3. Minimising stress at lambing
- 4. Sustainable health planning
- 5. Lactation

Compaction – does it matter?





AHDB Dairy Compaction Experiment

The compaction experiment – 2011 to 2014.

Three main treatments:

- Trampling
- Mechanical load
- No compaction



SRUC Crichton (Scotland) and Harper Adams University (England)





Dry Matter Yield Reductions (t/ha)

	SRUC				Harper Adams			
	Yield Reduction (t/ha)		Percent reduction (%)		Yield Reduction (t/ha)		Percent reduction (%)	
	Trample d	Tractor	Trample d	Tractor	Trample d	Tractor	Trample d	Tractor
2012	0.6	0.3	6.5	1.0	0.6	0.1	6.2	1.8
2013	0.4	1.0	5.6	11.5	0.2	0.6	1.9	-5.1
2014	1.6	2.0	11.0	14.3	2.0	2.3	12.2	14.3
All Years	2.6	3.3			2.8	3.0		

Compaction – does it matter? Yes – what an we do?















Structure



• Signs of poor soil structure?



Structure: action required?



Target compaction with correct kit

- 0-10 cm aerator
- 10-15 cm sward lifter

Timing – Autumn if conditions allow, otherwise Spring





Prevention- controlled traffic





• 9 m triple gang mower (9 m working width)

Results of Experimental Work

Traffic	Traffic	(t DM ha ⁻¹)	P- value
5.28	5.43	0.15	0.27
3.58	3.88	0.30	0.72
2.34	2.84	0.50	<0.01
5.92	6.72	0.80	<0.05
11.29	12.15	0.96	
	Traffic 5.28 3.58 2.34 5.92 11.29 11.29	TrafficTraffic5.285.433.583.882.342.845.926.7211.2912.15	TrafficTraffic(t DM ha ⁻¹)5.285.430.153.583.880.302.342.840.505.926.720.8011.2912.150.96

Why is all this important?





Decreasing energy value

Leaf 11.5 MJ ME/kg DM Stems 10.5 MJ ME/kg DM Dead leaves <8 MJ ME/kg DM



Use feed to fill deficits











Not a time for low quality feeds when intake is constrained

Late pregnancy – last 6 weeks

In addition:

- Udder development
- Colostrum production
- Maintain immunity Increasing requirement with decreasing appetite!



Week 20



ENERGY REQUIREMENTS OF PREGNANT EWES 75kg TWIN BEARING



A nutritional issue





Protein





DUP stands for Digestible Undegradable protein; it is protected from degradation by the rumen microbes and is absorbed through the intestine

Options for late pregnancy



Target BCS is 3

- Grass (grass>4cm)
- Silage (10.5 MJ ME/kg DM) plus 100g soya/lamb or 50g protected soya/lamb
- Silage (<10.5 MJ ME/kg DM) plus sugarbeet pulp/oats/whole barley plus soya

Pre lambing



Check energy of ration <u>4 weeks pre-</u> lambing:

-Blood test – beta hydroxybutyrate

Are they getting enough?







Stress



Maternal behaviour





Stress around birth





Sheep like:

Calm, quiet and predictable environment
Familiarity

Sheep don't like:

- Mixing with other unfamiliar sheep
- Unpredictability e.g. at feeding
- Dogs
- Loud and extravert handling
- Novelty

Competition - Stress





Notes: *TMR use the same allowance as ad-lib forage.



Preventative health measures

Proactive worm control





The other side of the coin





Source: AHDB Beef and Lamb – Worm Control for Better Returns







Key message: Leave a proportion untreated to reduce selection pressure Singles

>CS 3

Antibiotics...





Consider risk



Low risk	Higher risk
Single lambs	Triplets+
Lambs that were born unassisted	Difficult birthing
Sufficient colostrum	Insufficient colostrum/artifical colostrum
Born early in lambing season	Born mid-late in season
Healthy mums on target BCS	Thin, lame, dirty mums
No disease within the season	Disease prevalent





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Early lactation



Poor feeding and low BCS – risk factors for teat lesions

- Cheapest ration: Grass
- If below 4cm supplement with concentrates or energy licks
- Magnesium licks and/or hay/silage









v.

Late lactation





From soil to lamb



