



Introduction to UK sheep sector – challenges and opportunities

Kim Matthews



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Outline

- Sheep industry structure
- · Recording for breed improvement
- · Production and consumption
- · Changing consumer demand
- · Wider challenges and opportunities

UK sheep sector





Terminal Sire







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Maternal breed (hill)

Longwool crossing



Crossbred maternal ewe



Maternal breed (lowland)

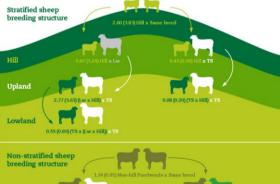
Changes in sheep breeds 1971 - 2012

Figure 2. Crossbreeding pattern of the major ewe types (million) with 2003 figures shown in brackets.

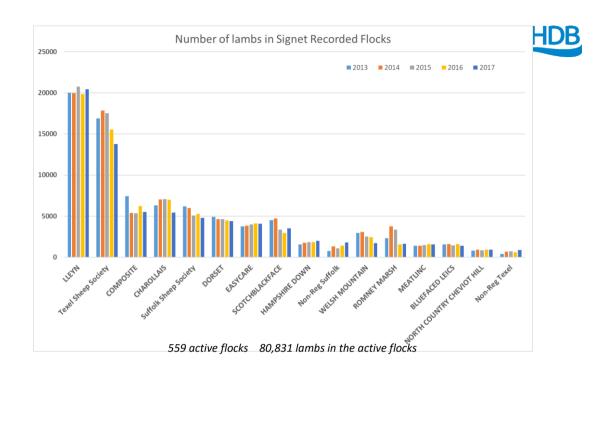
Shift from purebred matings (44%) to cross bred

Shift from purebred matings (44%) to cross bred (56%)

http://www.signetfbc.co.uk/wp-content/uploads/2014/11/the-breeding-structure-of-the-british-sheep-industry-2012-180914.pdf

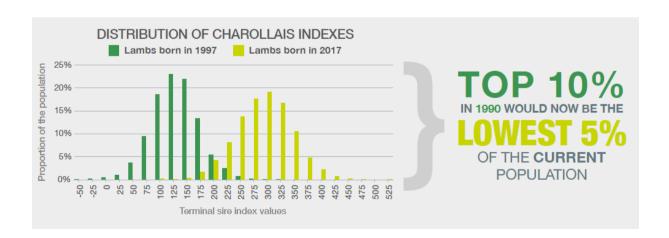






Genetic change in UK sheep breeds





Measuring carcase attributes







Computed Tomography and the release of new CT derived EBVs









Already assess:

- CT Lean Weight
- CT Fat Weight
- CT Gigot Muscularity



Spine measurement from CT longitudinal scan



		Total Vertebra Number (% CT scanned population)			
Breed	Count	18	19	20	21
Texel	2846	1.37	65.60	32.82	0.21
Suffolk	1460	0.41	20.41	78.22	0.96
Hampshire Down	323	0.00	18.89	77.40	3.72
Meatlinc	660	0.30	25.45	73.03	1.21
Charollais	1435	0.42	25.16	74.08	0.35
Beltex	269	2.23	86.99	10.78	0.00
Blue Texel	9	0.00	66.67	33.33	0.00





Ewe Fertility

Longevity

Age at first lambing

Lambing interval





Parasite resistance

Faecal Egg Count Strongyles Nematodirus

Saliva IgA

Serum IgA

The future New phenotypes – feed intake / meat eating quality





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Technically efficient farms – Times are changing



In the UK we are (fairly) good at producing high output breeding lines in the lowlands and regionally adapted strains in the uplands

In a very general sense we can see breeding objectives changing to embrace

- 1. Lambing outdoors.
- 2. Utilizing "poorer" land (at a lower cost)
- Using "easier care" ewe breeds with lower labor requirement

Testing animals under commercial conditions





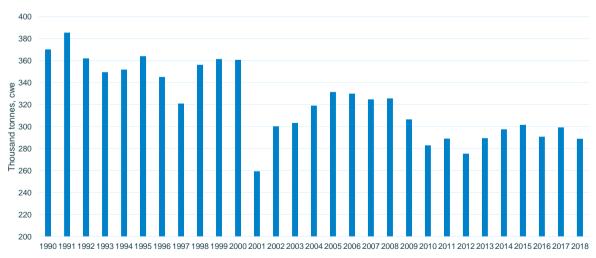
Tight global market pushes AUS/NZ prices up



Source: AHDB, European Commission, MLA's NLRS, NZ AgriHQ

UK sheep meat production

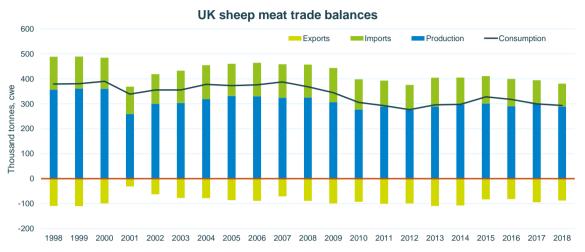




Source: Defra

UK sheep meat trade balances





Source: Defra, HMRC

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Lamb Barriers to Purchase

- Cost
- Cooking knowledge
- Fatty Perceptions
- · Lack of versatility

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Marketing Strategies Summary

- · Increase versatility perceptions
- · Communicate ease of cooking
- Overcome negative health perceptions
- Position in midweek meal occasions
- Appeal to younger consumers

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Challenges and opportunities



- Genetics
- New data sources
- Artificial intelligence
- Precision approaches
- · Land use:
 - Forage areas
 - · Livestock in arable systems
 - · Maintaining landscape





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