

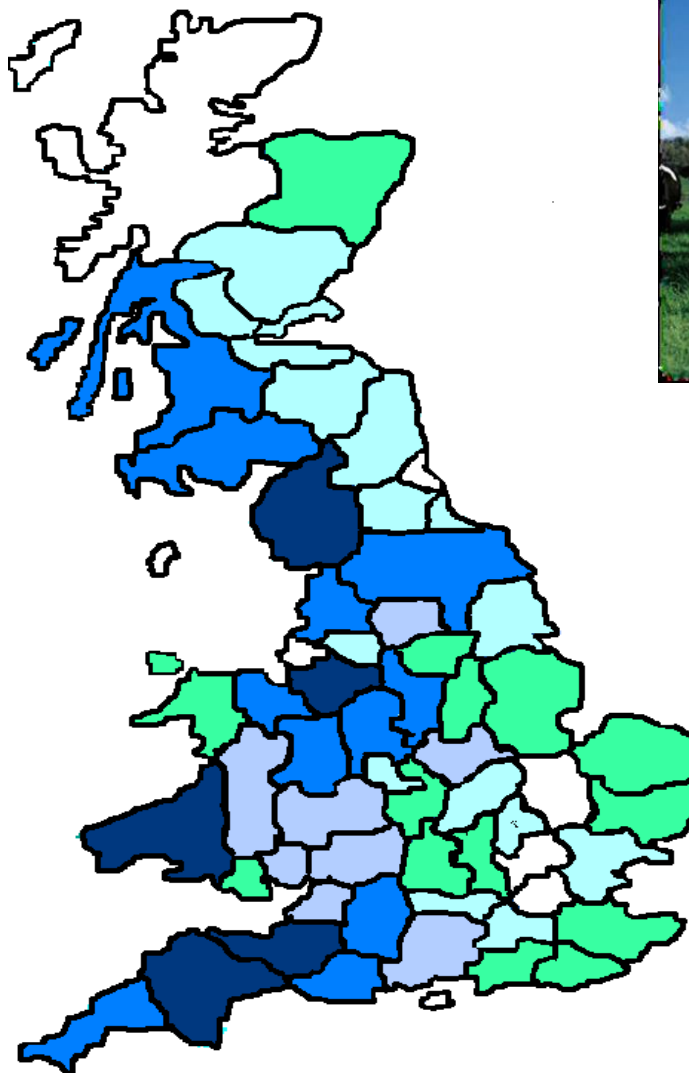
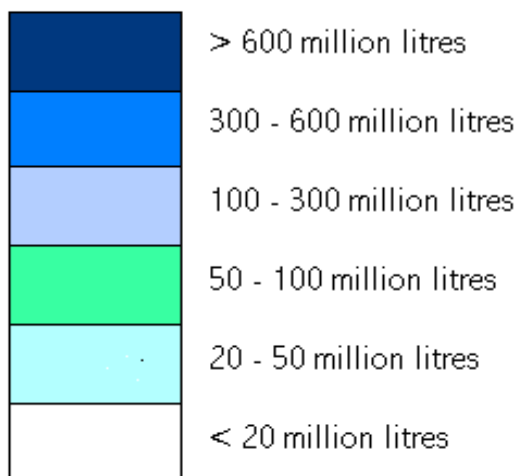
How appropriate are by-product feeding systems for high producing dairy cows?



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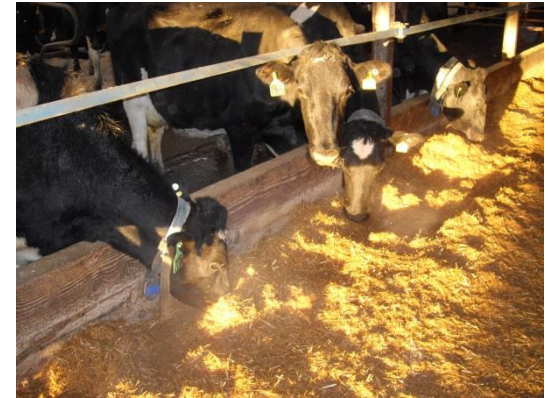
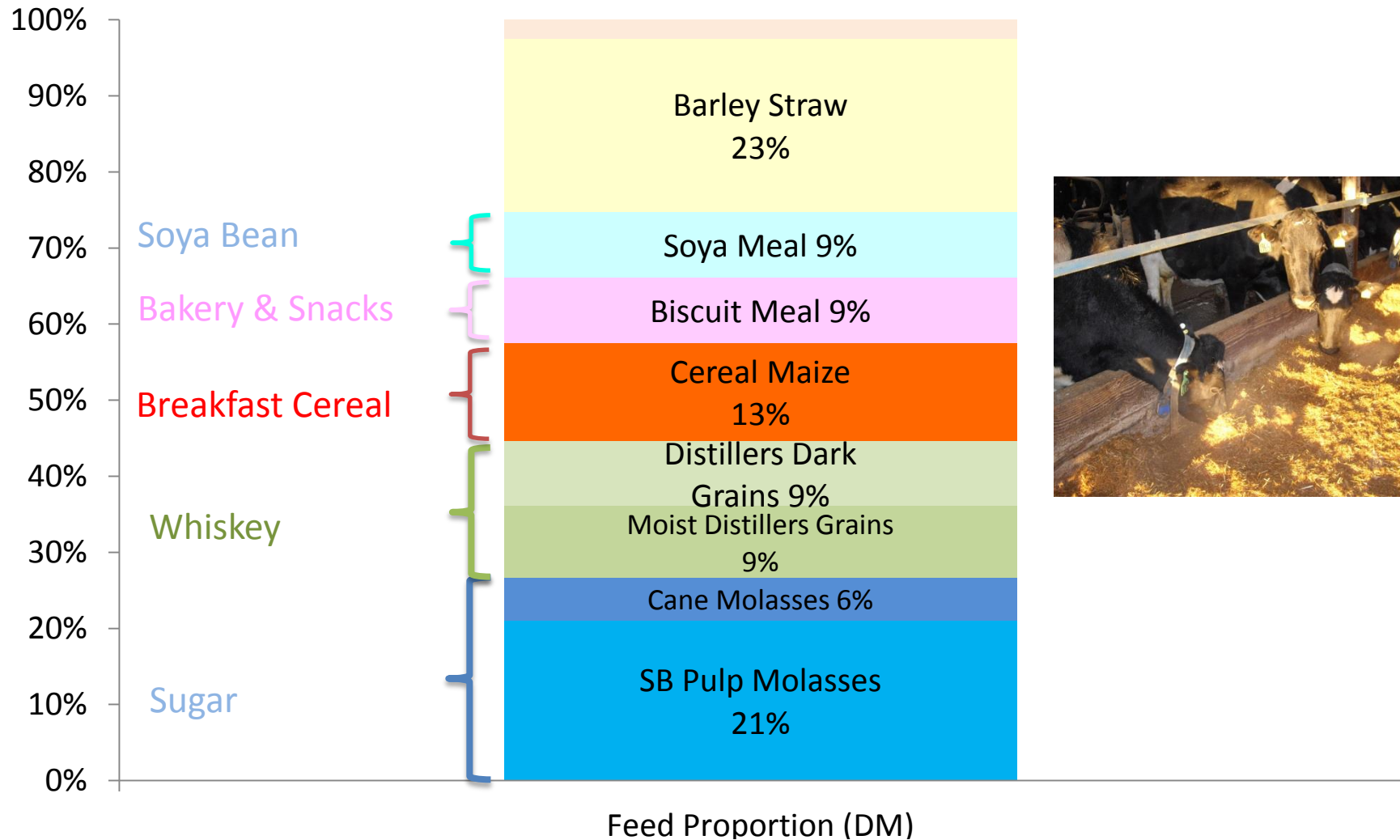
GB Dairy Systems



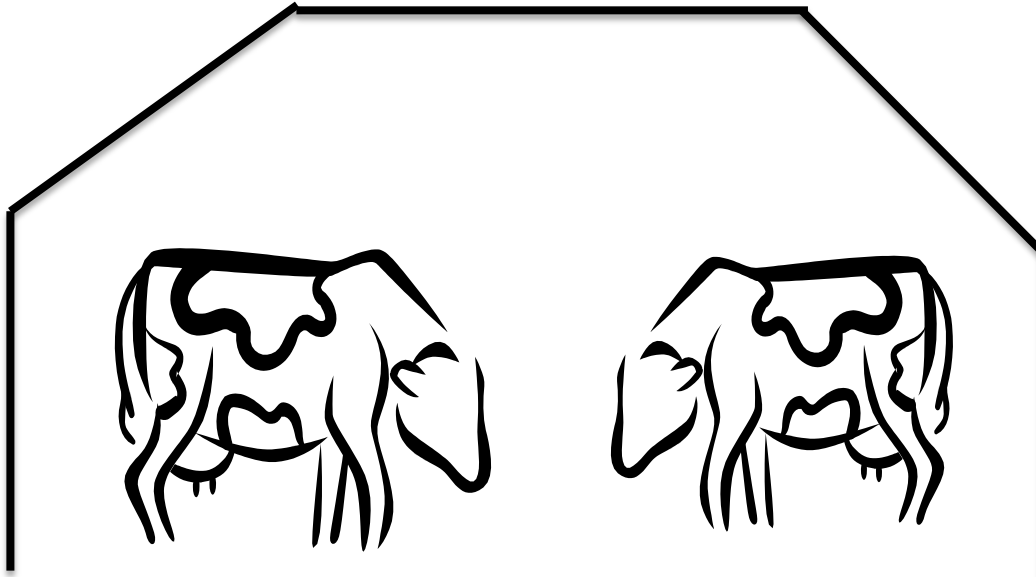
- Holstein Friesian
- Composite Systems
- Some Dairy Specific Areas

*Source: Rural Payments Agency

By-product Diet



By-product System



Select Genetics
UK Top 5%

Control Genetics
UK Average

- 50 HF Cows / herd
- 3 x daily Milking
- Housed System

Composition	Value
DM (g/kg)	72%
ME (MJ/kg DM)	11.4
CP (g/kg DM)	171
NDF (g/kg DM)	364
Starch (g/kg DM)	134
P (% DM Intake)	0.42

Production Indicators

	Control Herd	Select Herd	p – value	UK Avg.*
Yield/Cow (litres)	8,214	10,423	< 0.001	7,717
Daily Yield (kg)	30.3	35.4	< 0.001	27.4
Fat (%)	3.35	3.68	< 0.001	4.02
Protein (%)	3.03	3.17	< 0.001	3.28
DM Intake (kg / day)	20.3	22.7	< 0.001	

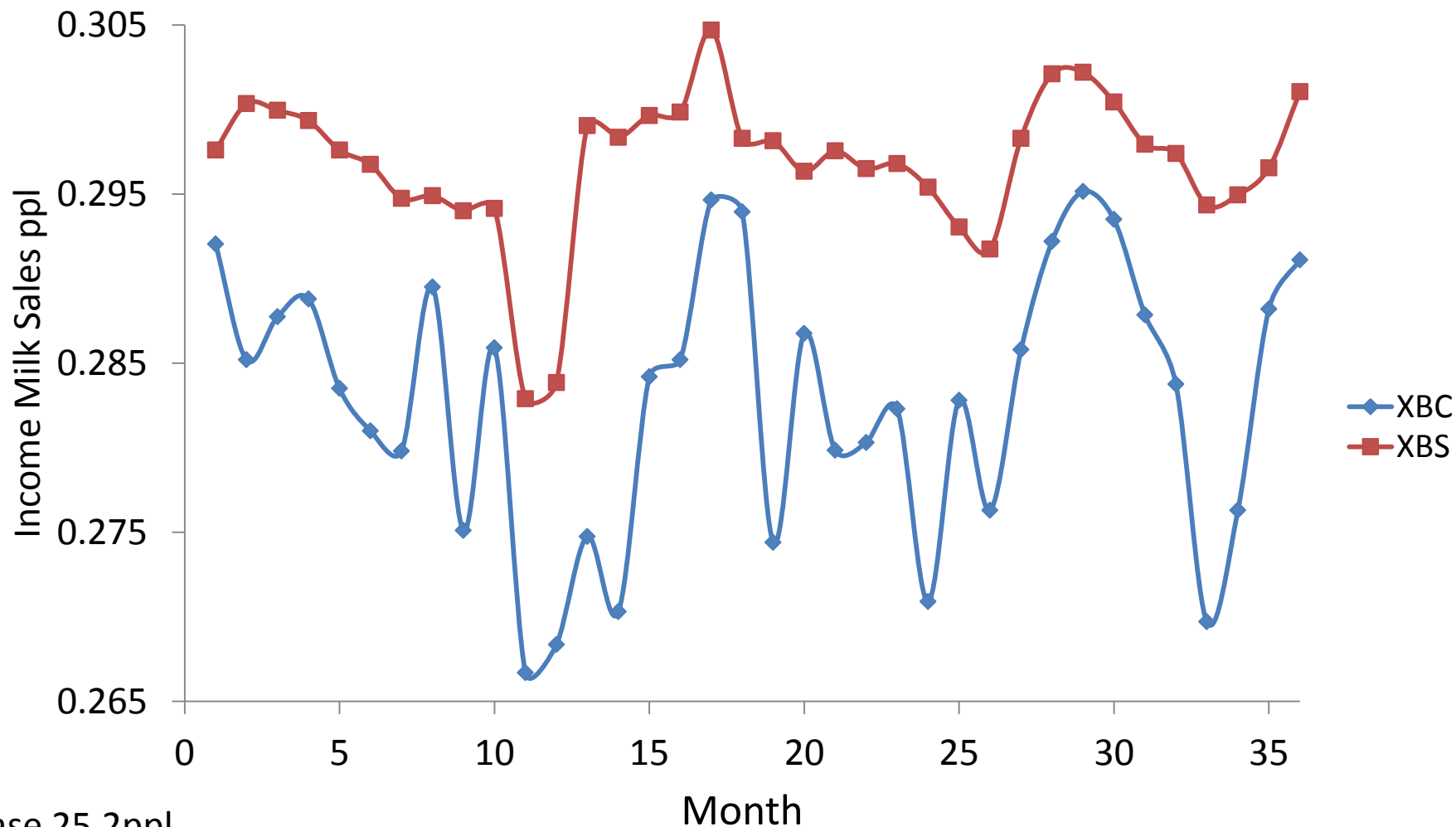
* Source: AHDB Dairy

Herd Health

	Control Herd	Select Herd	p – value
Body Condition Score	2.19	2.02	< 0.001
Locomotion Score	2.55	2.38	<0.001

Calving Interval (days)	368	390
Mastitis Cases	21	20
SCC (cells x 10 ³ /ml)	158	154

Milk Sales



Base 25.2ppl

Min Fat 3.7%

Min Protein 3.01%

XB=By-product Diet

C=Control S=Select

Average Monthly Income

	Control	Select
Monthly Yield (litres)	35,676	44,812
Hygiene & Vol Bonus /Cow	£34	£40
Base Income / Cow	£213	£251
Fat Income /Cow	-£8	£1
Protein Income /Cow	£0.30	£4
Avg. Monthly Income /Cow	£239	£296

Avg. Milk Sales (ppl)	28.3	29.7
Avg. Feed Cost (ppl)	17.0	15.3
Margin over Feed (ppl)	11.3	14.4

Liquid Schedule: Base 25.2ppl, Min Fat 3.7%, Min Protein 3.01%

Is a by-product feeding system appropriate for high producing dairy cows?



Utilising non human edible by-products



Above UK average production volume



No extra land area required



Below UK average milk fat & protein



Reduced income from milk sales

Thank you for your
attention.....

Any comments or
questions?



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