

Richard Kimberlin  
Donald

BSE 1

460 hours of rest mid/yr.

MMA runs 95% intensity below

512 gene in sheep controls  
protein circulation part of

Two alleles - SA & A

3 genotype

Sheep with low circulation  
pen (3rd genotype) lay eggs.

9 clear and increased nerve  
are a potent source  
paleo idempneu with 10%  
phases evident

do not go on as much like  
deposit my mutants

100% → 10% → 30% → 50% → 100% - 100%

100% - 10% to 100% in 10 days

10% to 100% 30% to 100%

100% to 100% same 100%

100% to 100% same 100%

100% to 100% same 100%

100% to 100% same 100%

100% to 100% same 100%

are best best by type with

of all live if more trimmer

100% to 100% same 100%

100% to 100% same 100%

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Connection factor -

best growing

parts of 100%

100% to 100% same 100%

100% to 100% same 100%

100% to 100% same 100%

KEITH MELDRUM'S HAND-WRITTEN NOTE DATED 16TH MAY, 1989

BSE & Pedigree Petfoods

- 460K tonnes of meat used/year.
  - PFMA covers 95% industry volume.
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- Sip gene in sheep controls scrapie incubation period.
  - Two alleles – sA & pA.
  - 3 genotypes.
  - Sheep with long incubation period (3rd genotype) carry agent.
  - Spleen and visceral nerves are a potent source. Therefore spleen "dangerous" well before disease evident.
  - 20 or so [sp] are susceptible. *(Comment – sp = species)*  
Dogs and cats may succumb. *(Comment – CJD to cats*  
CID to cats to disease. Czech. *causes TSE in*  
*Czechoslovakia)*
  - P.P.F. – no horse material now. *(Comment – PPF = PFMA)*
- 70% UK – 30% elsewhere.  
Import mostly prime offals.  
Use whole organs.
- Ground meats and mixes. Only use poultry meat now.
  - Meats/greaves - used two years ex tallow – mostly for dry products. Seconds.
  - Specify grade 2.
  - (also edible imports).
  - Use beef heart, lung, tripe, udders.
  - Check liver, b/marrow, trimmings, kidney, spleen and tallow.
  - Sheep lung, liver, paunch, kidney, heart and lung trimmings.
  - 3 types product – canned 65% mkt (= market).  
Dry packeted – extruded 10% moisture.  
Semi-moist – 10-15% moisture.
  - Canning – centre temp (128°C).
  - f.o. 10 is normal.
  - f.o. 14 – PP (= Pedigree Petfoods).
  - 121°C max.
  - f.o. 3 (*this should read 13 – it is a mistake*) necessary to kill cl.bot (= *clostridium botulinum*).
  - > 100°C for 20 mins.
  - Would get 2 log reduction of agent.

89/05.16/1.2

- No lethality for dry or semi-moist for scrapie/BSE – only meant to destroy salmonella.
- Cases II (*this should read I – it is a mistake*) – brain, spinal cord.
- II – Ileum, LNs, colon, spleen, tonsils.
- III – Adrenal, distal colon, nasal mucosa, pituitary, sciatic nerve.
- IV – Remainder.  
10 fold difference between cats.
- Correction factors

Heat processing.

Route of exposure.

Species barrier.

Incidence of scrapie & BSE.

89/05.16/1.3

CT:337135.1