

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 causes TSE in Czechoslovakia)*  
CJD to cats to disease. Czech. *(Comment - PPF = PFMA)*
  - P.P.F. - no horse material now.
- 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.

89/05.16/2.1

- 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.

89/05.16/2.2