Foot and Mouth Disease in the UK (Surrey)

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Agenda

• Chronology
• Disease control measures
• Epidemiology – source
• Epidemiology – spread from infected holdings
• Epidemiology – spread from zones
• Conclusions
Foot and Mouth Disease confirmed in cattle in Surrey.

Following an investigation of suspected vesicular disease by Animal Health on a holding near Guildford in Surrey, laboratory results have this evening indicated that the Foot and Mouth Disease (FMD) virus is present in samples from cattle on the premises.

On the basis of the initial laboratory results Debby Reynolds, UK Chief Veterinary Officer has confirmed Foot and Mouth Disease. In accordance with the legislative and contingency planning arrangements all the cattle on the premises will be culled. A Protection Zone of three kilometres radius and a Surveillance Zone of 10 kilometres has been placed around the premises, and a GB wide national movement ban of all ruminants and pigs has been imposed.

Nationally no animal movements are allowed except under licence, controls are in place on movement of animal carcasses, animal gatherings, shearing and dipping are restricted, and all farms must increase levels of biosecurity. In both the Protection and Surveillance Zones, there will be requirements for increased levels of biosecurity on farms, movement controls, controls on transportation of dung/manure and treatment of animal products to ensure destruction of the FMD virus.

The farm itself has been under restrictions since late on Thursday evening when symptoms were reported to the local Animal Health office. A 1km temporary restriction zone was placed around the premises earlier today whilst investigations and testing were completed, in line with domestic and EU legislation.

The European Commission has been informed.
FMD: Location of the Protection, Surveillance Zones in the UK and the Restricted Zone around mainland Britain.
Day 16, 19 August 2007
Chronology

- 3 August – first IP confirmed.
  - PZ, SZ, RZ applied (GB movement ban)
- 6 August – second IP confirmed
  - Decision 2007/552
- 9 August – all culling and preliminary C&D of infected holdings completed
Infected premises

- IP 1
  - Beef finishing herd
  - 64 cattle
  - 3 locations
  - 1 group with signs
  - 2 groups +ve FMD
  - 2 contact herds culled: 18 cattle, 8 sheep, 2 goats, 9 pigs

- IP 2
  - Beef breeding herd
  - 119 cattle
  - 3 locations
  - 1 group with signs
  - 2 groups +ve FMD
  - 1 contact herd culled on suspicion: 16 cattle, 3 sheep, 2 goats, 342 pigs
Protection zones

- No markets, staging posts or assembly centres
- 87 susceptible livestock holdings
- No dairy herds
- ALL sheep and goats sampled for serology at least once with negative results (57 holdings)
- Multiple clinical inspections according to risk – up to 12 per farm
- Additional clinical inspections of all stock this week – could lift 24/8

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Epidemiology - source

• FMD O1 BFS 1860/67UK
• In use for research, diagnosis and for vaccine manufacture at Pirbright site
• Possibly windborne, effluent or fomite
• Independent reports to be published
Annex 1: Infection Timeline

Note: the age of lesions used to generate the timeline is based on the expert opinion of staff from the Institute of Animal Health, Pirbright

![Infection Timeline Diagram](https://www.defra.gov.uk/animalh/diseases/fmd/pdf/epi-report-third130807.pdf)
Epidemiology – spread from IPs

• All possible routes of spread investigated – movements of animals, people, vehicles
• Modelling
• IP1: cattle direct to slaughter only, last move 10 July
• IP2: no recent movements off
• Intensive surveillance in PZs
• All results negative
Epidemiology: Spread from zones

- 29 moves totalling 119 animals from PZs
- 22 moves totalling 70 animals from SZ
- All have been restricted; some sheep still under test
- 83 report cases investigated in GB
- Intensified ante- and post- mortem inspection of 659,000 slaughtered animals 8 – 19 August
- Pre-movement veterinary inspection of 878,000 pigs and 5,000 cattle
- TRACES shows no at-risk trade to Member States
- All results negative
Surveillance Zone

- 313 susceptible livestock holdings (as at 1600 22 Aug FMD DCS)
- 2 abattoirs
- No markets, staging posts or assembly centres
- Final clinical inspections starting today
- Serology begins 30 August

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Conclusions

• Localised outbreak with only two infected herds
• Point source of infection has been established
• No at-risk live animals or products moved off the infected holdings
• Good evidence from tracings and surveillance that at-risk animals did not leave the PZ or SZ