

FMD in the UK 2007

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26 September 2007

Devolution of Animal Health in Scotland

- Transfer of Functions Order 1955
- May 1999 – Scottish Parliament
 - full legislative powers
 - Scotland Act requires full implementation of all EU legislation
- Cooperation at UK level
 - GB wide Animal Health agency
 - UK reference labs
 - access to UK experts
 - UK CVOs' meetings

Infected premises in Surrey

- IP1 – 3 August 2007
- IP2 – 7 August
- IP3 – 12 September
- IP4 – 14 September
- IP5 – 17 September
- IP6 – 21 September
- IP7 – 24 September

GB wide movement bans

- 3 August
 - movement ban in England & Wales and Scotland
- 24 August - England
 - PZ merged with SZ
 - farm to farm movements of animals outside SZ with 20 day standstill
- 3 September - England
 - movements via markets outside SZ with 20 day standstill
- 8 September
 - SZ restrictions lifted, reversion to 6/13 day standstills
- 12 September
 - movement ban in England & Wales and Scotland

Veterinary risk assessments - Scotland

- Movement direct to slaughter – 7 August
- Fallen stock collection – 9 August
- Movement of weaned piglets, sows or cows close to parturition – 9 August
- Scottish Islands - removing the Restricted Zone measures – 10 August
- Scottish Islands to a single premises on the Scottish mainland – 10 August
- Farm to farm in same business within 8 km – 16 August
- Welfare movements – 16 August
- Collection centres – 20 August
- Sheep shearers and dippers – 20 August
- Lifting national movement ban with safeguards – 22 August
- Animal gatherings – 22 August
- Male breeding animals – 28 August

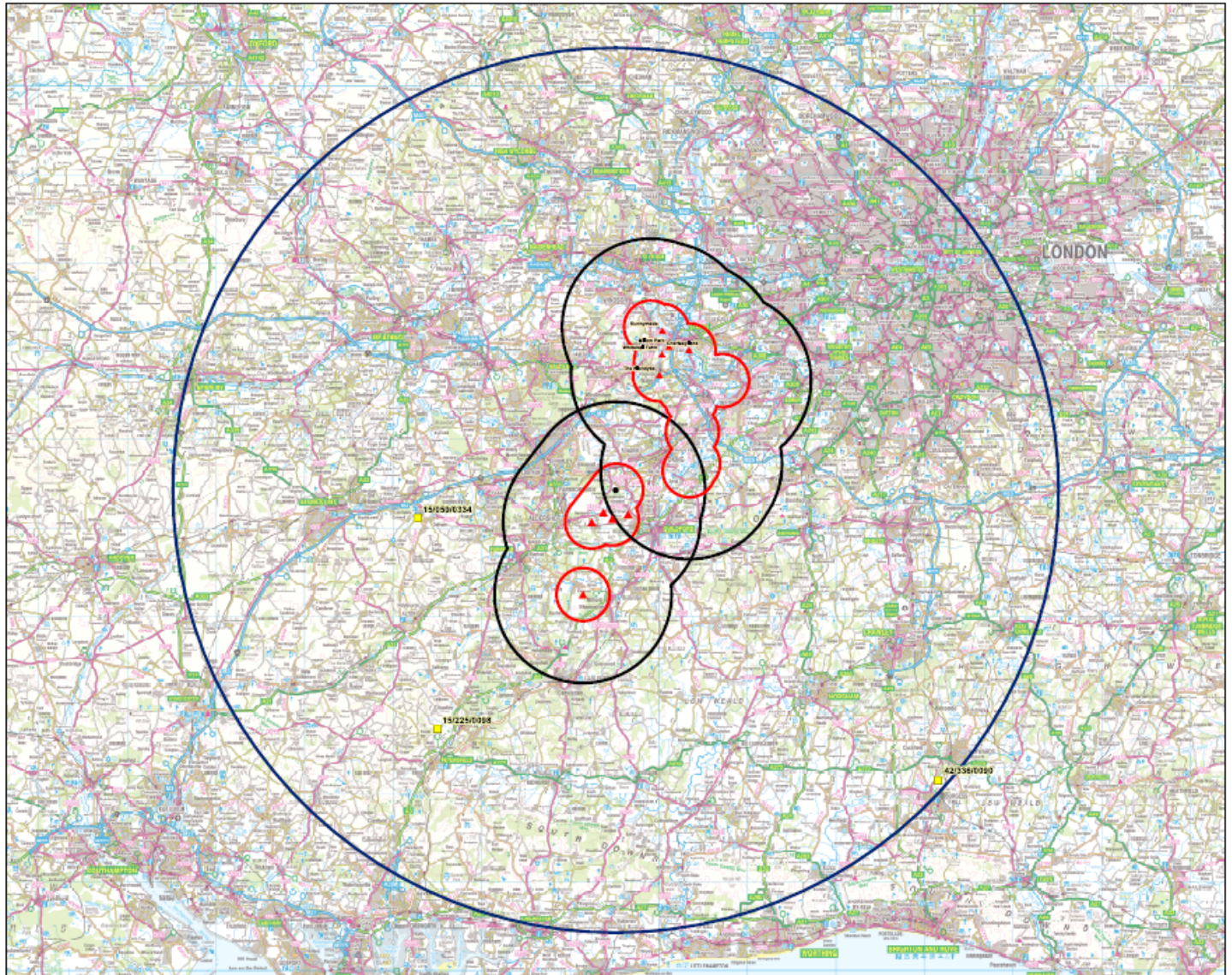
- Emergency movement from markets – 12 September
- Artificial breeding – 14 September
- Farm to farm over 8km – 23 September (being reviewed)
 - including livestock services

EPIC risk studies - tracings

- 20 km around Pirbright – in August
 - from 15 July onwards
- 50 km around Pirbright – in September
 - from 15 July onwards
- 3 direct cattle movements to Scotland
 - all from outside SZ
 - all destination farms inspected, all negative
- no direct movements of sheep, goats or pigs
- 26 farms had indirect contacts
 - all from outside SZ
 - all destination farms inspected, all negative

50Km Buffer around Pirbright Laboratory

Confidential



- ▲ Premises_20070921_2100
- Reigate_CTS_Premise
- Reading_CTS_Premises
- Pirbright_Laboratory
- ▲ MasterFMDIP_2007_08_03
- ▲ Merge_SOS_Premises
- 50KmBuff_Pirbright_Laboratory
- Merge_PZ_20070921
- Merge_SZ_20070921
- Merged_Surveillance_Zone_20070809
- Merged_Protection_Zones_20070809

Scale - 1:155,000

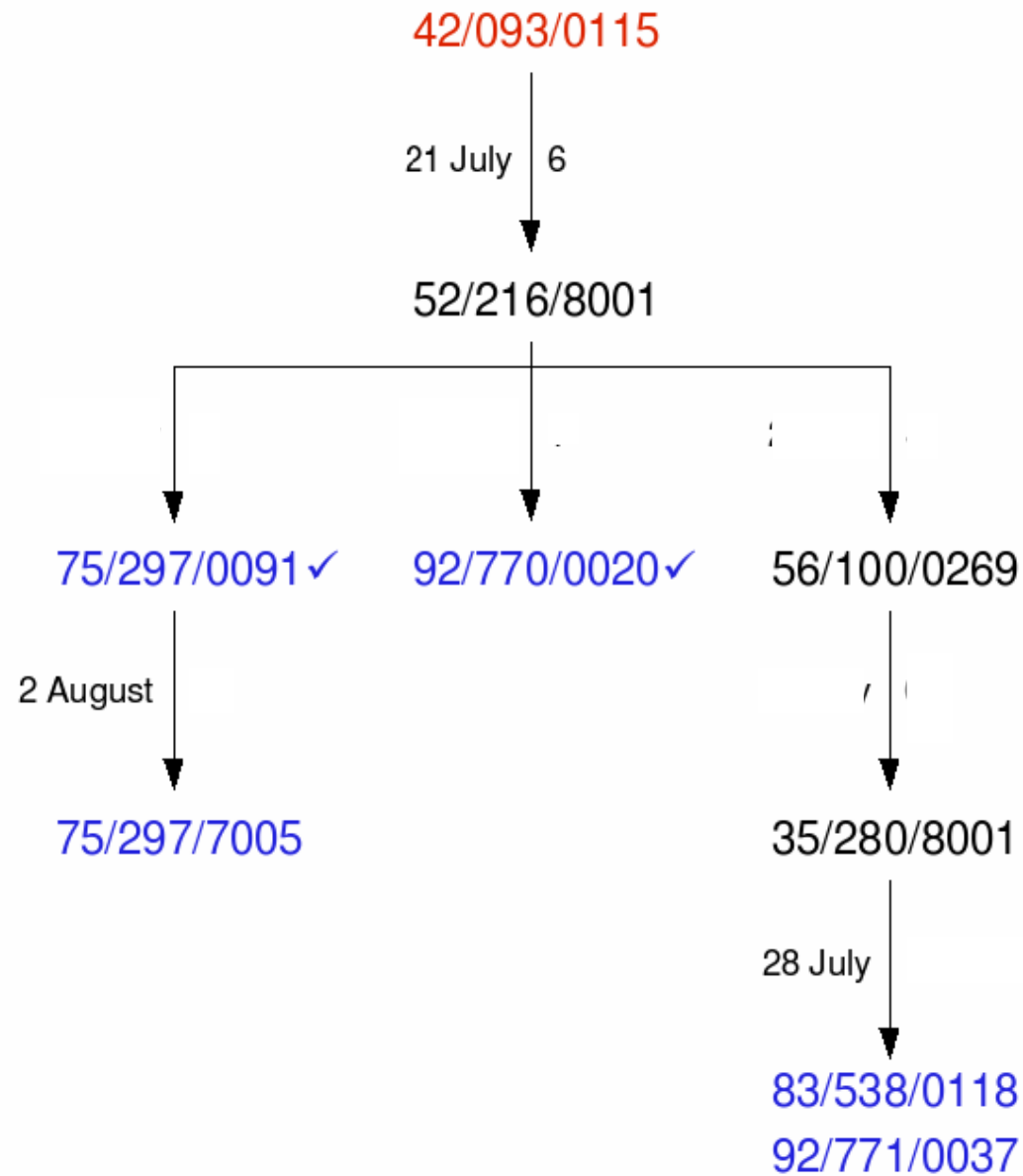


Produced by I.M Team at Worcester AHDO on 24/09/2007

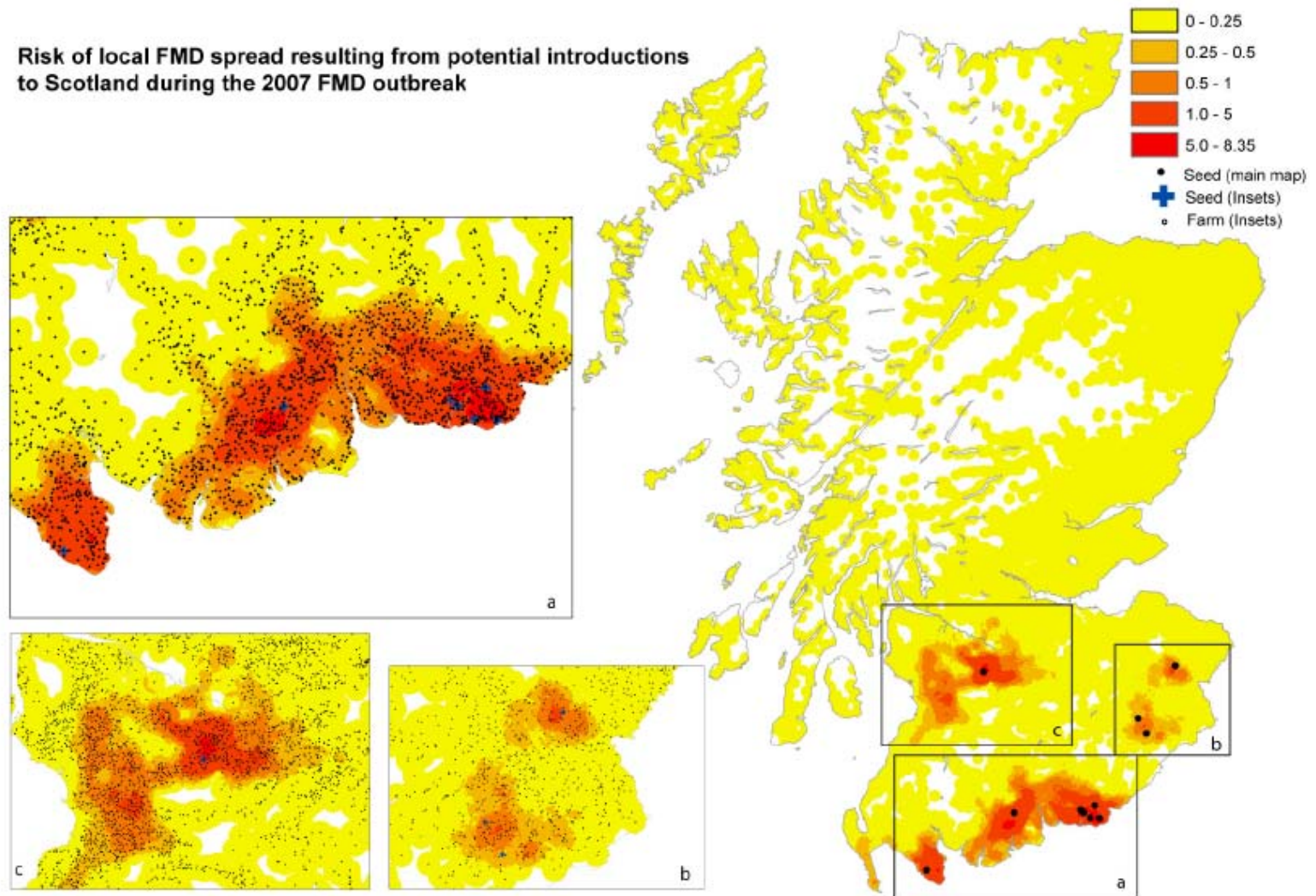


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Contact tracing of sheep from the 20km risk zone to Scotland



Risk of local FMD spread resulting from potential introductions to Scotland during the 2007 FMD outbreak



Contact tracing of cattle from 50km around Pirbright into Scotland

15/225/0098

1 Aug



71/273/0034

03/099/0015

21 Jul



52/216/8001

26 Jul

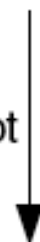
26 Jul

66/031/0206

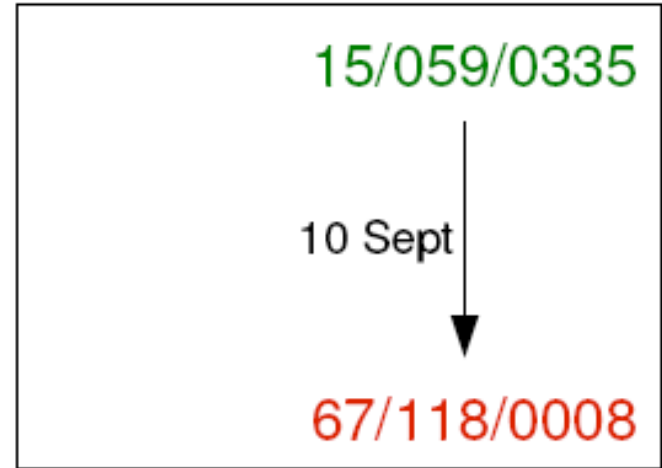
98/859/0017

15/059/0335

10 Sept



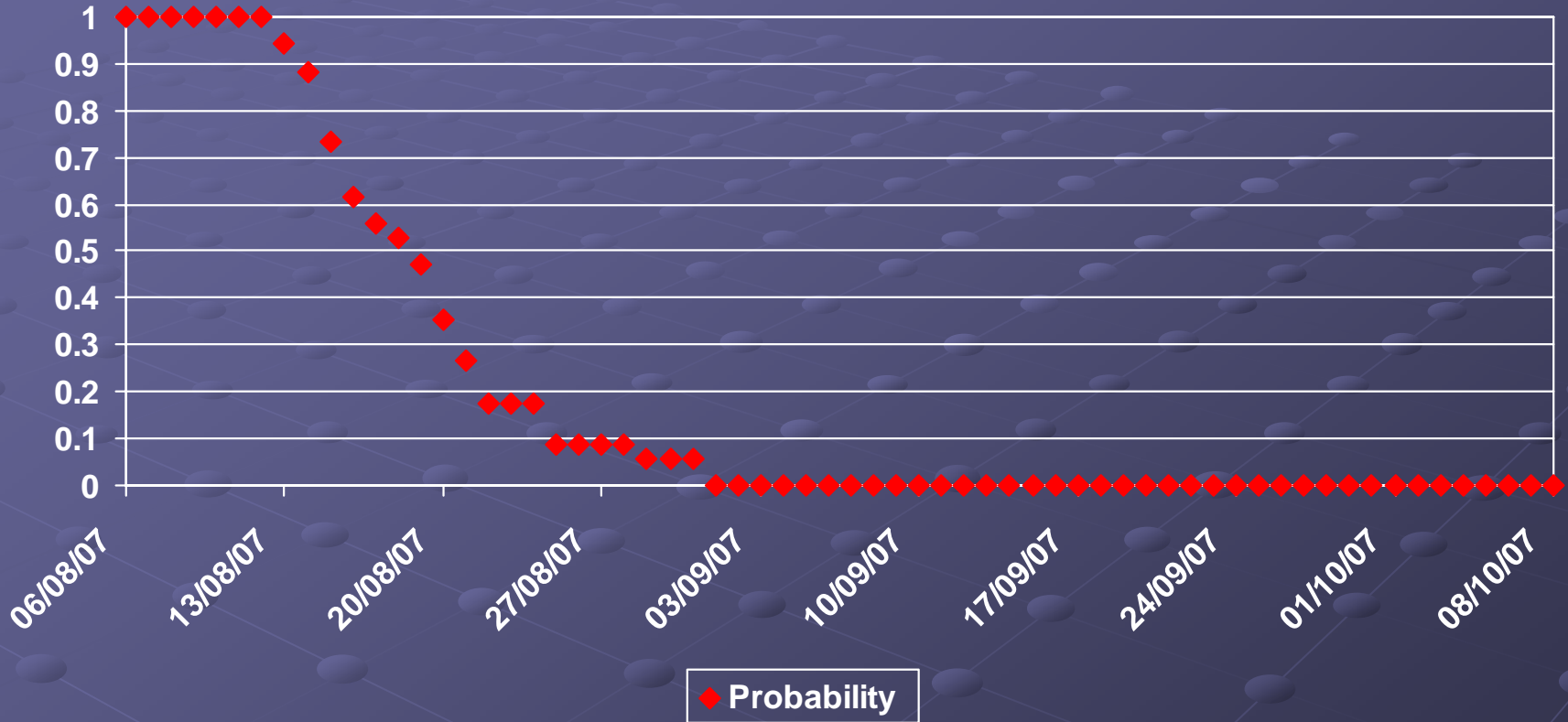
67/118/0008



EPIC risk studies – detection

- Time to detection analysis
 - used SAS © system for Windows
 - Kaplan- Meier method
 - estimated probability of one Scottish holding remaining undetected
 - assumed 100% on 4 August
 - calculated <50% by 20 August
 - calculated <10% by early September
 - calculated down to 'normal' by 17 September

Probability of not detecting FMD given any single livestock farm in Scotland is infected

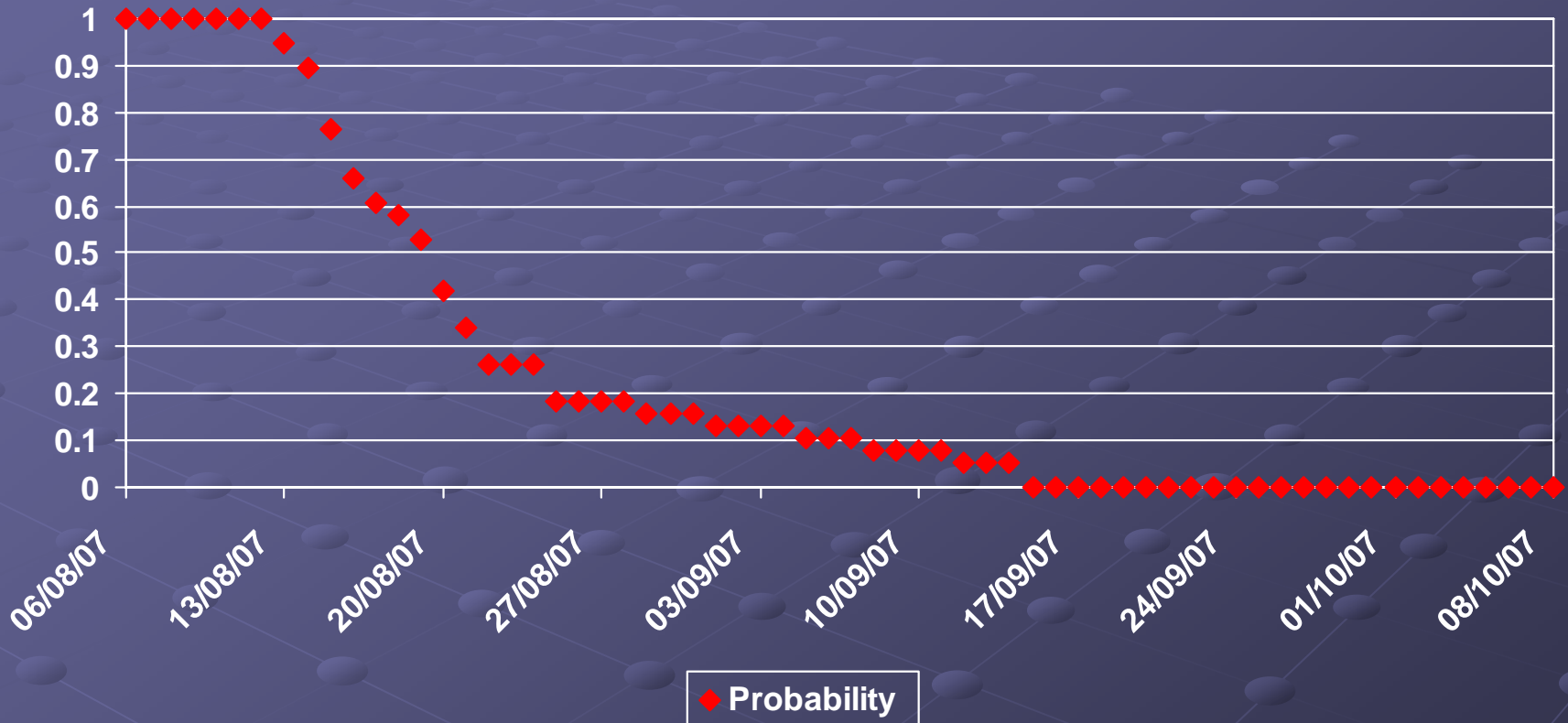


Detected at longest on a sheep farm in 4 (FOUR) weeks

On a cattle, pigs or mixed farm in 3 weeks

Any licenced move off the farm or move within a business equals detection

Probability of not detecting FMD given any single livestock farm in Scotland is infected

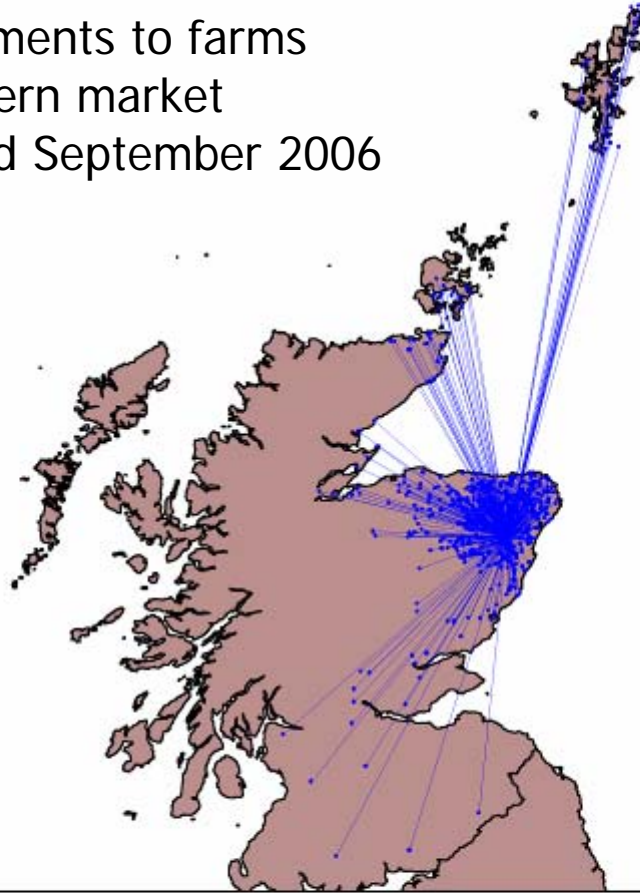


Detected at longest on a sheep farm in 6 (SIX) weeks

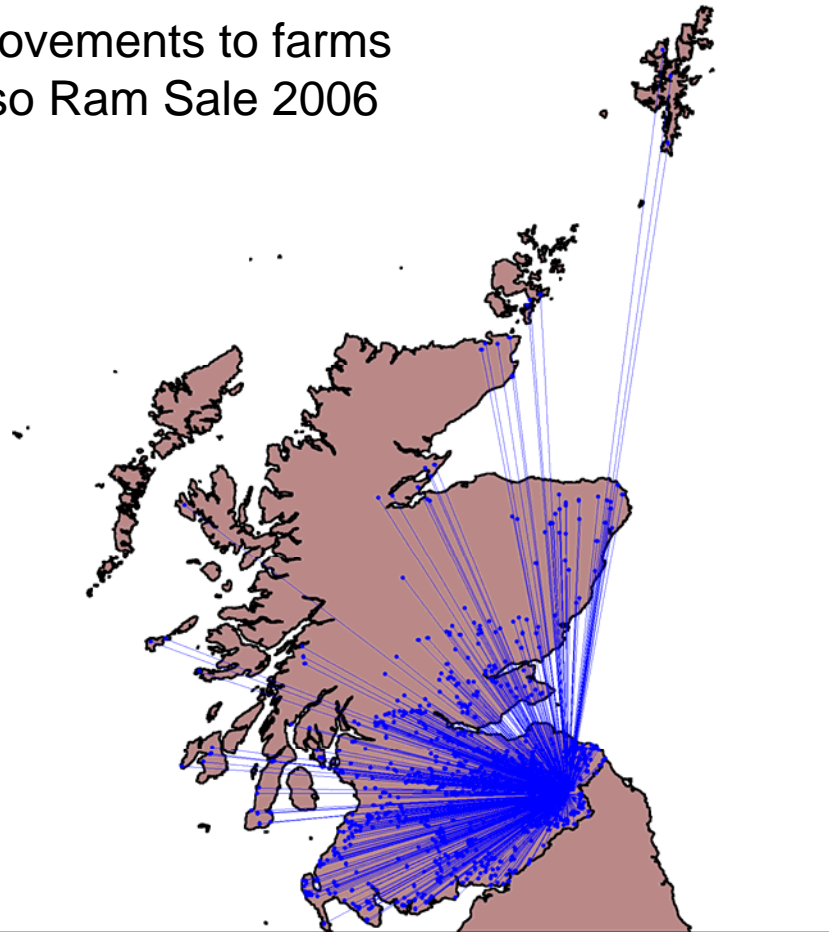
On a cattle, pigs or mixed farm in 3 weeks

Any licenced move off the farm or move within a business equals detection

Sheep movements to farms
from a northern market
in August and September 2006



Sheep movements to farms
from Kelso Ram Sale 2006



Easing controls in Scotland in August

- day 0 – milking cows across road – 3 August
- day 2 – vet treatment
- day 6 – direct to slaughter; welfare
- day 8 – islands de-restricted
- day 12 – pigs < 50km (or 100 km)
- day 13 – farm business < 8km – 16 August
- day 14 – islands to mainland
- day 18 – collection centres; multi pickups for pigs
- day 20 – farm to farm (with 20 day rule) – 24 August
- day 32 – markets (with 20 day rule) – 27 August
- day 37 – pre-FMD movement rules – 8 September

Easing controls in Scotland in September

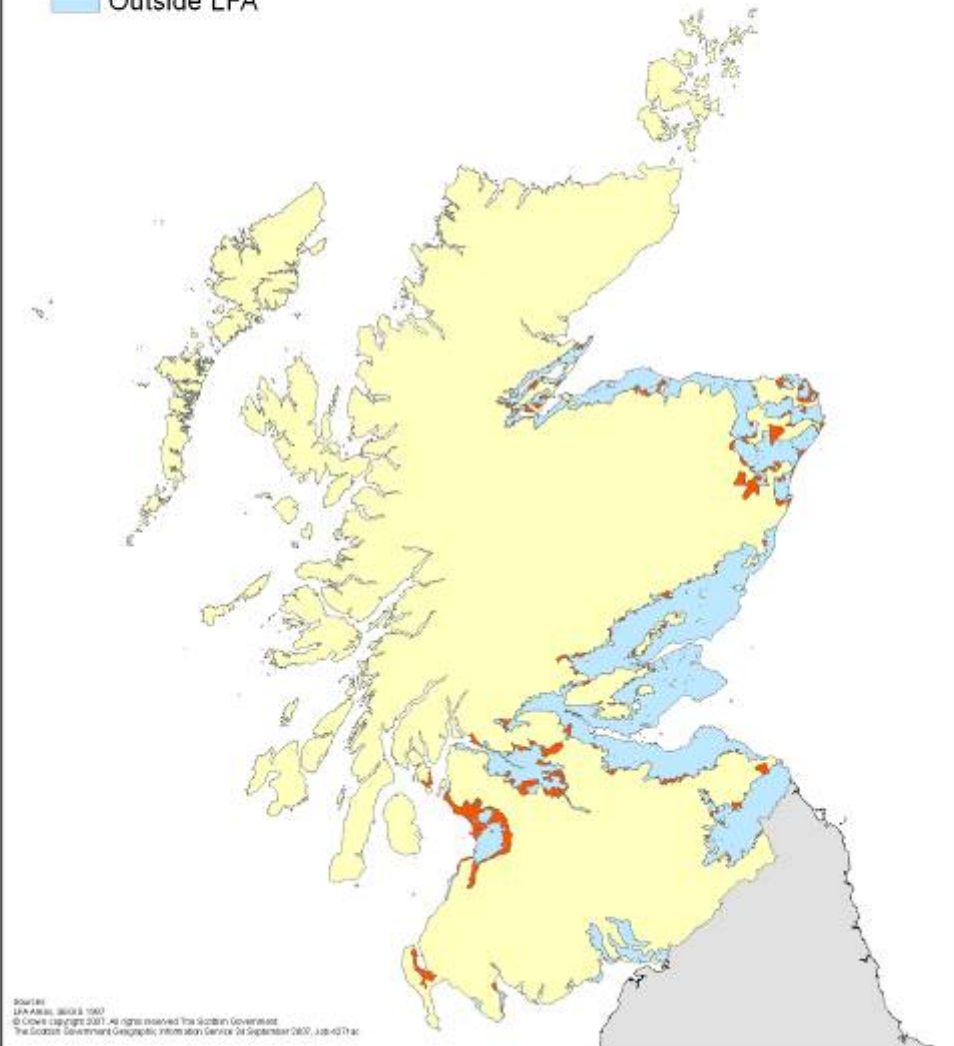
- day 0
 - milking cows;
 - vet treatment;
 - direct to slaughter;
 - welfare;
 - islands de-restricted
- day +3 – islands to mainland
- day +4 – collection centres; multi pickups for pigs
- day +8 – farm business < 8km; pigs < 50km (or 100 km)
- day +12 – farm to farm (with 20 day rule)

LFA Areas in Scotland

Legend

STATUS

- Severely Disadvantaged
- Disadvantaged
- Outside LFA



Welfare issues

- Scottish sheep production is seasonal
- Winter grazing only supports 20-33% of the summer flock
- Lambs and cast ewes must move from September onwards
- 250K light lambs (<25 kg) exported to EU
- Autumn has arrived early, snow on the hills