

**FOOT AND MOUTH DISEASE  
IN THE UNITED KINGDOM  
2001**

**REPORT NO 4**

**18 MARCH 2001**

**Ministry of Agriculture, Fisheries and Food  
18 March 2001**



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## 1. SUMMARY

1.1 An outbreak of Foot and Mouth Disease was confirmed pigs at an abattoir in Essex on 20 February 2001. Laboratory examinations carried at the Institute for Animal Health Pirbright out on tissue samples taken from the affected animals, showed that the virus was FMD type O, Pan Asia strain. This strain has been associated with outbreaks of FMD in Japan, Korea, Russia, Mongolia.

1.2 The total number of confirmed outbreaks of Foot and Mouth Disease in Great Britain currently stands at 325. A single outbreak of FMD was also confirmed in N. Ireland on 1 March 2001.

1.3 The majority of outbreaks have involved sheep destined for slaughter, though disease has been diagnosed in cattle and pigs. In addition to holdings on which disease has been confirmed, animals on 259 holdings considered to be at risk from FMD through contacts with an infected holding, have also been killed. A total of 221,540 animals (48,907 cattle, 169,567 sheep, 28 goats and 3,038 pigs) are affected on the 325 holdings where FMD has been confirmed and 86,902 animals (12,047 cattle, 60,573 sheep, 1,422 goats and 12,860 pigs) on the 259 holdings considered at risk from FMD.

1.4 On the basis of current epidemiological knowledge, a pig holding in the County of Tyne and Wear is thought to have been the source of the subsequent outbreaks, infection having spread to pig holdings in the County of Essex through the movement of pigs and people and local airborne spread, and to sheep and cattle holdings in the Counties of Tyne & Wear. Thereafter disease spread to other counties in Great Britain and to Northern Ireland through the movement of animals, people and vehicles.

1.5 All the measures foreseen in Council Directive 85/511/EEC have been applied. Protection and surveillance zones with radii of at least 3-km and 10-km have been imposed around each infected holding, the surveillance zones having been extend to take account of the prevailing wind conditions at the time between in the introduction of disease and its first detection.

1.6 On 23 February, The Foot and Mouth Disease Declaratory (Controlled) Area Order 2001 was made making England and Wales a controlled area for the purposes of FMD control and prohibiting the movement of all FMD susceptible animals and their carcasses in the whole of England and Wales except under license and banning the holding of fairs, markets, shows or other gatherings of animals. This Order expired on 2 March and was replaced by The Foot and Mouth Disease Declaratory (Controlled Area)(England & Wales)(No 2) Order 2001 which, while, continuing to prohibit the movement of all FMD susceptible animals and their carcasses in the whole of England and Wales, provides for the movement of animals of any species direct to abattoirs for slaughter. The controlled area was further extended without time limit by The Foot and Mouth Disease Declaratory

(Controlled Area)(England & Wales)(No 3) Order 2001 which came into force on 16 March 2001.

1.7 On 21 February, Commission Decision 2001/145 (replaced on 1 March by Decision 2001/172 and on 9 March by Decisions 2001/190) came into force and banned the export from the whole of the UK of live animals, germplasm, fresh meat, meat products, milk and milk products, hides and skins of FMD susceptible species. Derogations to the export ban were given for the above commodities subject to the conditions laid down in Decision 2001/145. The ban does not apply to poultry, horses, cats and dogs. It has been implemented through The Export Restrictions (Foot & Mouth Disease) Regulations 2001.

## **2. POSITION AS AT 18 MARCH 2001**

### **2.1 Current position**

2.1.1 The total number of confirmed outbreaks of Foot and Mouth Disease in Great Britain currently stands at 325. A single outbreak of FMD was also confirmed in N. Ireland on 1 March 2001.

2.1.2 The majority of outbreaks have involved sheep destined for slaughter, though disease has been diagnosed in cattle and pigs. In addition to holdings on which disease has been confirmed, animals on 259 holdings considered to be at risk from FMD through contacts with an infected holding, have also been killed. A total of 221,540 animals (48,907 cattle, 169,567 sheep, 28 goats and 3,038 pigs) are affected on the 325 holdings where FMD has been confirmed and 86,907 animals (12,047 cattle, 60,573 sheep, 1,422 goats and 12,860 pigs) on the 259 holdings considered at risk from FMD.

2.1.3 Confirmed outbreaks have occurred in 31 of the 75 Counties in England, Scotland and Wales. The Counties of Cumbria (89), Dumfries and Galloway (46) and Devon (43) have been particularly affected as have Co. Durham (22), Powys (13) and Tyne and Wear (12). The other affected Counties have each had less than 10 outbreaks.

2.1.4 Of the confirmed cases, suspicion of disease was first reported by the owner in 227 instances, by a private veterinary surgeon in 15 instances while 44 outbreaks were detected as a result of tracing from a confirmed outbreak and 21 were detected by MAFF State Veterinary Service staff in the course of patrols in the 3-km protection zones established around all confirmed outbreaks. Nine (9) outbreaks were identified in flocks/herds destroyed as dangerous contacts, 8 were detected in abattoirs by the Official Veterinary Surgeon.

2.1.5 A total of 1,667 holding have been placed under official movement restrictions because of suspect FMD. Restrictions have been lifted from 961 holding, FMD has been confirmed on 325 holding and the outcome of investigations on 118 holding are awaited. In addition, susceptible species on an additional 263 holding have been killed because they were considered at risk of disease through contact with a holding where FMD had been confirmed.

2.1.6 A map showing the location of confirmed FMD outbreaks in Great Britain is at Annex 1.

## **2.2 Legislative controls**

2.2.1 All the measures foreseen in Council Directive 85/511/EEC have been applied. Protection and surveillance zones with radii of at least 3-km and 10-km have been imposed around each infected holding, the surveillance zones having been extended to take account of the prevailing wind conditions at the time between the introduction of disease and its first detection.

2.2.2 On 23 February, The Foot and Mouth Disease Declaratory (Controlled) Area Order 2001 was made making England and Wales a controlled area for the purposes of FMD control and prohibiting the movement of all FMD susceptible animals and their carcasses in the whole of England and Wales except under license and banning the holding of fairs, markets, shows or other gatherings of animals. Identical legislation was made in Scotland.

2.2.3 This Order expired on 2 March and was replaced by The Foot and Mouth Disease Declaratory (Controlled Area)(England & Wales)(No 2) Order 2001 which, while, continuing to prohibit the movement of all FMD susceptible animals and their carcasses in the whole of England and Wales, provides for the movement of animals of any species direct to abattoirs for slaughter. Local movements (upto 5-km), under license, have also been permitted for welfare or reasons of essential farm operation but these latter movements may not exceed 0.5-km and movements must take place within the boundaries of the same holding

2.2.4 The controlled area was further extended without time limit by The Foot and Mouth Disease Declaratory (Controlled Area)(England & Wales)(No 3) Order 2001 which came into force on 16 March 2001.

## **3. EPIDEMIOLOGY**

3.1 A diagram showing the believed epidemiological links between confirmed cases is shown at Annex 2.

3.2 It is believed that disease was first introduced into a pig-fattening unit in Northumberland (FMD 2001/04). From epidemiological investigations, it has been estimated that the earliest date for the introduction of virus to these holding was the 2<sup>nd</sup> February 2001.

3.3 From here, infected pigs were moved to an abattoir in Essex where the disease was first confirmed on 20<sup>th</sup> February (FMD 2001/01). By the time the source farm was identified, windborne spread of virus had infected cattle and sheep on nearby farms and some holding up to 8km distant.

3.4 The first holding in the Northumberland area that showed disease held both cattle and sheep (FMD 2001/06). Disease first became evident in cattle on these holdings on 23<sup>rd</sup> February, with no clinical signs in the sheep. Upon veterinary inquiry, it was found that sheep had been sold through local markets (Hexham, Northumberland and Longtown, Cumbria) during mid-February before FMD had been recognized in the UK. These sheep were either infected or incubating disease while at the market. They infected other animals within the markets and FMD was then distributed around the country by onward movement via markets, dealers and livestock vehicles.

3.5 The evidence from the epidemic to-date suggests that the widespread dissemination of disease in the sheep flock is continuing to cause disease outbreaks. Disease appears to be cycling unseen in flocks that were infected by movements before 23 February when a standstill on animal movements in Great Britain was first imposed.

3.6 A preliminary analysis of the animals held on FMD infected premises shows that the most common animals held are sheep and cattle (59%), sheep only (17%) and cattle only (12%). With time, the proportion of newly infected "sheep only" holdings has decreased and those with both sheep and cattle or cattle only has increased. The frequency of infection on holdings with sheep is greater than would be expected if all parts of the animal population were equally at risk. The majority of holdings infected are farms although dealers account for a small proportion of the total.

3.7 The proportion of holdings becoming infected due to local spread appears to have increased and that due to the movements of animals, people and vehicle movements has decreased.

3.8 Clusters of infection appear to be occurring with a large number of outbreaks occurring in defined geographical areas, notably in the Counties of Essex, Durham, Devon, Dumfries & Galloway and Cumbria. These appear to be due to a combination of movement related and local spread though overall, the movement related spread accounts for a notable proportion of outbreaks in these clusters.

#### *Essex*

3.9 A cluster of diseased holdings occurred around the abattoir in Essex (FMD 2001/01). Cattle and pigs were infected by personnel movements and contiguous spread. Two sheep holdings also showed disease and windborne spread or mechanical transmission by wild birds from the infected pig holding are being investigated as the possible means of introduction.

#### *Durham*

3.10 Disease was introduced into the County by infected sheep bought in markets by dealers. Longtown, Hexham and Darlington markets were implicated in these movements. Some of these sheep had disease diagnosed in an abattoir lairage where they

infected pigs present already present in the abattoir. Windborne spread from the pigs, local spread from contiguous holdings and within the 3km surveillance zones is thought to have been responsible for subsequent local spread to cattle and sheep.

#### *Cumbria, Dumfries and Galloway*

3.11 Longtown market had infected animals passing through it for 6 days before disease was first recognized in the UK. Infection was spread via the movement of infected sheep and sheep incubating disease. In addition, further spread occurred via contaminated livestock vehicles and mechanical transmission by people and equipment visiting the market. Epidemiological investigations indicate that further local spread then occurred by the movement of people, vehicles and other equipment in contact with both the market and the sheep

3.12 More cattle are becoming infected and may be acting as a source of infection, though this is thought to be a consequence of local spread and sheep are still the main source of introduction of infection into an area.

#### *Devon*

3.13 Infected sheep from Longtown market were moved into Devon by a dealer (FMD 2001/07) who then moved them between his other holdings in the area and county markets. His stockmen moved feed, hay and straw between the holding on vehicles. This may have spread contamination over the local roads in the area

4.14 Local farms have sheep and cattle. Many sheep are kept in groups away from the home farm so movements between them are numerous with many local roads in common use. These movements may have been responsible for the local spread following the original introduction of infection into the area. There were further movements of sheep and vehicles between different holdings and markets in the area and it is thought that the methods of local spread are similar to those in Cumbria although the initial weight of infection in the Devon area was much less.

#### *Other areas*

3.15 Other movements of sheep to abattoirs and markets throughout the UK have introduced disease into areas such as Wales, Scotland, Northamptonshire, Staffordshire, Worcestershire, Wiltshire and Gloucestershire. From this introduction local spread has occurred by means which vary according to the local farming methods in those areas.

3.16 In all new cases, sheep were the virus-introducing species and it is likely that disease is still circulating unnoticed in infected groups of sheep. It is thought that these sheep are still likely to cause disease in other more susceptible species, such as cattle, if

either the sheep or contaminated people or equipment used among them, come into contact with them.

#### 4. FUTURE DIRECTION OF CONTROLS

4.1 There are five key disease control aims.

- keep free of disease those areas of the country still free of FMD;
- halt the deteriorating disease situation in Devon;
- stop the spread of disease in the North of England and Southern Scotland;
- minimize the spread of disease from Longtown, Welshpool and Northampton markets;
- eliminate infection in flocks that have passed through dealers known to have handled infected animals.

*Keep free of disease those areas of the country still free of FMD*

4.2 It is anticipated that new types of control areas will be established aimed at avoiding the importation of FMD into these areas by the movement of animals from areas where infection exists. High risk movements of sheep which took place before 23 February into these areas will be identified and removed

*Devon*

4.3 Disease is occurring mainly in cattle and is easier to identify. The topography and farm structure (lots of small farms, dense animal populations, movements of people and vehicles) is not suited to a large scale preventive slaughter campaign, though individual farms or areas could be cleared on a case by case basis. The strategy will be to undertake intensive foot patrols in the 3-km area around infected farms with individual farms being visited by veterinary staff to ensure FMD cases are identified as early as possible to prevent onward spread.

*Southern Scotland and Northern England*

4.4 There is a large focus of infection in this area, mostly concentrated in sheep flocks, with the potential for rapid spread to adjacent holdings. It is proposed that all sheep and pigs within 3-km of an FMD infected holding should be killed. Symptoms of FMD are difficult to identify in sheep and the consequences of failure to identify infected sheep are greatest. In the case of pigs, there is a risk of substantial aerosol spread in the late stages of incubation before symptoms become apparent.

*Spread of disease from Longtown, Welshpool and Northampton markets*

4.5 There is clear evidence that sheep from markets in Welshpool, Longtown and Northampton markets were exposed to infection and there is reason to suspect that with the passage of time, numbers of flocks into which these sheep have been imported may be infected. These flocks will be killed as dangerous contacts.

*Sheep that have passed through dealers known to have handled infected animals*

4.6 Flocks associated with the movements of sheep handled during the high-risk period by two major dealers, may similarly be infected and will also be killed as dangerous contacts.

# Summary Report Of Confirmed Cases

Situation at 17/03/2001 17:35

FMD No	Confirmation Date	Prem Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
1	20/02/01	Abattoir	Essex	Little Warley	2	0	308	0	Tracing from 04.
2	21/02/01	Farm	Essex	Uppminster	31	0	37	0	Movements from 01.
3	22/02/01	Farm	Essex	Great Warley	190	0	0	0	Movements from 01.
4	23/02/01	Farm	Lyne & Wear	Heddon-on-the-Wal	0	0	523	0	Likely Source.
5	23/02/01	Farm	Essex	Canewdon	0	0	523	0	Human contact with 01
6	23/02/01	Farm	Lyne & Wear	Ponteland	101	366	0	0	Aerial from 04.
7	24/02/01	Farm	Devon	Highampton	200	730	0		Longtown Mkt
8	26/02/01	Abattoir	Wilts	Bromham	30	1,452	0	1	Tracing from 07
9	26/02/01	Farm	Devon	Hatterleigh	66	33	0	0	Tracing from 07
10	26/02/01	Farm	Lyne & Wear	Woolington	115	0	0	0	FMD4
11	26/02/01	Farm	Herefords	Llangaron	279	591	0	0	Tracing from 07
12	26/02/01	Farm	Devon	Hollacombe	105	146	0	0	Tracing from 07
13	27/02/01	Abattoir	Anglesey	Gaerwen	0	3,250	0	0	Traced from Longtown Market
14	27/02/01	Farm	Co Durham	Wolsingham	0	39	0	0	Darlington Market
15	27/02/01	Farm	Fanes	Withnell	0	988	0	0	FMD6
16	27/02/01	Farm	Northants	Wooton	0	558	0	0	Traced from Northampton Market
17	27/02/01	Abattoir	Co Durham	Witton le Wear	53	150	44		Lorry contacts 07, 14
18	27/02/01	Abattoir	Devon	Hatterleigh	0	4	0	0	Feakins, FMD11
19	28/02/01	Farm	Powys	Beguildy	57	364	0	0	Traced from Welshpool Mart

FMD No.	Confirmation Date	Prem. Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
20	28/02/01	Farm	Herefords	Langarron	264	752	0	0	Traced from 11
21	28/02/01	Abattoir	Lancs	Great Harwood		66	0	0	Traced from 13, 15, 18, 19 and 22
22	28/02/01	Farm	Powys	Clyro Landewi	0	736	0	0	Traced from 11
23	28/02/01	Farm	Leics	Stonesly		179	0	0	FMD7 via Northampton Mkt
24	28/02/01	Farm	Devon	Highampton		164	0	0	FMD7
25	28/02/01	Farm	Warwicks	Drayton	220	80			FMD7
26	28/02/01	Farm	Essex	North Farnbridge		600	2		FMD 5
27	28/02/01	Farm	Cumbria	Longtown	607	5,200			Longtown Market
28	01/03/01	Farm	Dumfries & Galloway	Drytsdale	352	406			Longtown Mkt
29	01/03/01	Farm	Dumfries & Galloway	Cannohrie	217	68			Traced Longtown Market
30	01/03/01	Farm	Cumbria	Firth	371	9,500			Traced Longtown Market
31	01/03/01	Farm	Tyne & Wear	Whorlton	35		53		Contiguous to 04 and 10
32	01/03/01	Farm	Wores	Feckenham	3	153			Ross Mkt
33	01/03/01	Farm	Wlths	Bromham		31			Linked to 08
34	02/03/01	Farm	Dumfries & Galloway	Twyndholm	542	3,773			Longtown Market
35	02/03/01	Farm	Cumbria	Kirkoswald	180	1,900			Lorry ex Longtown Mart
36	02/03/01	Farm	Tyne & Wear	Dunnington		257			Aurborne from FMD4
37	02/03/01	Farm	Cumbria	Longtown	300	670			Common Grazing 27
38	02/03/01	Farm	Staffs	Bramstall	340	12			Northampton Market
39	02/03/01	Farm	Essex	St Warley	198		6		FMD2
40	02/03/01	Market	Cumbria	Longtown	88				Longtown Market

FMD No	Confirmation Date	Farm Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
41	02.03.01	Farm	Cumbria	Longtown		89			Longtown Market
42	02.03.01	Farm	Cornwall	South Petherton	182	1,311			Contact with 11.20 Traceed Ross Market)
43	03.03.01	Farm	Northumberland	Shedley Lowquarter	2	87		0	Longtown MK1, Hexham MK1
44	03.03.01	Farm	Dumfries & Galloway	Camnachie	108	250	0	0	FMD29
45	03.03.01	Farm	Cumbria	Haxton	50	1,000	0	0	Longtown MK1
46	03.03.01	Farm	Lancs	Halton	168	620	0	0	Longtown MK1
47	03.03.01	Farm	Oxon	Chiberton and Weir	0	537	0	0	Northampton Market
48	03.03.01	Farm	Cumbria	Longtown	180	4,000	0	0	FMD 27
49	03.03.01	Farm	Co Durham	Hansley	0	2,000	0	0	FMD4
50	03.03.01	Farm	Lyne & Wean	Heddon on the Wall	0	184	0	0	DC for FMD04
51	03.03.01	Farm	Herefords	St Weonards	0	50	100	0	FMD 11 & 20
52	03.03.01	Farm	Devon	Iydford	149	350	0	0	FMD7
53	03.03.01	Farm	Lyne & Wean	East Heddon	166	211	0	0	FMD04
54	03.03.01	Farm	Devon	Breworthy	120	60	0	0	FMD07
55	03.03.01	Farm	Lyne & Wean	Heddon on the Wall	24	100	0	0	FMD04
56	03.03.01	Farm	Devon	Broadwoodkelly	201	0	0	0	FMD79
57	04.03.01	Farm	Lyne & Wean	Woolington	229	264	0	0	Ayborne from FMD4
58	04.03.01	Farm	Cornwall	Iezant	69	236	70	0	FMD 42
59	04.03.01	Farm	Dumfries & Galloway	Langeholm	165	1,341	0	0	Longtown MK1
60	04.03.01	Farm	Devon	Higlampton	134	110	0	0	FMD 07, 09

FMD No.	Confirmation Date	Prem. Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
61	04.03.01	Farm	Devon	North Lew	94	35	0	0	FMD 07
62	04.03.01	Farm	Dumfries & Galloway	Dalton	2	1,326	0	0	Longtown Mkt
63	04.03.01	Farm	Staffs	Lichfield	51	1,004	0	0	Lorry link to Dumfrieshire
64	04.03.01	Farm	Dumfries & Galloway	Circna	20	491	0	0	Longtown Mkt
65	04.03.01	Farm	Herefords	St. Weonards	305	2,500	0	0	FMD 51, 20
66	04.03.01	Farm	Devon	Highampton	0	26	0	0	FMD07
67	04.03.01	Farm	Worce	Bronsegrove	250	20			FMD77
68	04.03.01	Farm	Cumbria	Hesket	118	900			Longtown Mkt
69	05.03.01	Farm	Co Durham	Bishop Auckland	100	410			FMD17
70	05.03.01	Farm	Devon	Hatherleigh	173	425			FMD18 & 7
71	05.03.01	Farm	Devon	Highampton		450			FMD71
72	05.03.01	Farm	Herefords	St. Weonards	212	432			FMD65
73	05.03.01	Farm	Dumfries & Galloway	Beattock		1,516			Linked to Longtown mkt FMD40/41
74	05.03.01	Farm	Cumbria	Deerham		726			Longtown Market
75	05.03.01	Farm	Cumbria	Culgarth		900			Longtown Market
76	06.03.01	Farm	Cumbria	Longtown	220	150			Longtown Market
77	06.03.01	Farm	Cumbria	Kirkandrew on Esk		110			FMD27 and FMD40
78	06.03.01	Farm	Co Durham	Wilton-le-Wear		22			FMD17
79	06.03.01	Farm	Devon	Highampton		168			FMD71
80	06.03.01	Farm	Devon	Highampton		450			FMD66
81	07.03.01	Farm	Cumbria	Arthurci	251	737			FMD29

FMD No	Confirmation Date	Prem. Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
82	07.03.01	Farm	N Yorks	Hawes	97	160			Under investigation
83	07.03.01	Farm	Derbyshire	Marston on Dove	30	519			Longtown Market
84	07.03.01	Farm	W Yorks	Queensbury	136				Sheep from Scotland
85	07.03.01	Farm	Dumfries & Galloway	Dalton	450	150			FMD28
86	07.03.01	Farm	Wales	Cuddesley Corbet	1,470	1,375			FMD11
87	07.03.01	Farm	Belks	Stape	60	7			FMD11
88	07.03.01	Farm	Cumbria	Arthurcl	80	35			FMD37,77
89	07.03.01	Farm	Co Durham	Muggleswick	104	364			FMD43
90	07.03.01	Farm	Dumfries & Galloway	Dalton		1,600			FMD85
91	07.03.01	Farm	Dumfries & Galloway	Lundergarth	54	427			FMD28
92	07.03.01	Farm	Cumbria	Arthurcl		700			FMD27
93	07.03.01	Farm	Cumbria	Kirkandrewson-Fisk		199			FMD27
94	07.03.01	Farm	Devon	Highampton	99	32			FMD 60, 71, 80
95	07.03.01	Farm	Devon	Winkleigh	160				Under Investigation
96	08.03.01	Farm	Cumbria	Akton	360	150			FMD15
97	08.03.01	Farm	Devon	Beaworthy	141	295			FMD 60
98	08.03.01	Farm	Dumfries & Galloway	Canonbie	60	200			FMD64
99	08.03.01	Farm	Derbyshire	Marston on Dove	47	160			FMD83
100	08.03.01	Farm	Cumbria	Arthurcl	32	130			FMD76, 41, 93, 27, 40, 48
101	08.03.01	Farm	Anglesey	Handaniel	300	640			FMD13
102	08.03.01	Farm	Essex	South Woodham Le	26	480	430	2	Under Investigation

FMD No.	Confirmation Date	Prem. Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
103	08/03/01	Farm	Derbyshire	Marston-on-Dove		25			FMD83 and 99
104	08/03/01	Farm	Cumbria	Bowness on Solway	320	270			FMD96
105	08/03/01	Farm	Worce	Brockhampton		460			FMD11 and 20
106	08/03/01	Farm	Cumbria	Skelton	200	350			Under investigation
107	08/03/01	Farm	Cumbria	Arthuret	600	1,400			Under investigation
108	09/03/01	Farm	Derbysire	Hoon	116	157			FMD 2001/83
109	08/03/01	Farm	Devon	Shebhear	340	300			Under investigation
110	08/03/01	Farm	Powys	Pannscastle		52	7		FMD22
111	08/03/01	Farm	Cumbria	Lazonby	150	950			FMD35
112	08/03/01	Farm	Dumfries & Galloway	Cretna	142	90			FMD/2001/64
113	08/03/01	Farm	Cumbria	Hayton	280	260			Under investigation
114	08/03/01	Farm	Wiltis	Berwick Bassett		207			FMD87
115	09/03/01	Farm	Somerset	Bidisham		73			Under investigation
116	09/03/01	Farm	Staffs	Leigh	118				FMD38
117	09/03/01	Farm	Dumfries & Galloway	Lochnaben	253	73			Under investigation
118	09/03/01	Farm	Dumfries & Galloway	Rigg	320	1,100			Under investigation
119	09/03/01	Farm	Cumbria	Easton	142	199			Under investigation
120	09/03/01	Farm	Wiltis	Preslure		510	1		FMD87
121	09/03/01	Farm	Dumfries & Galloway	Cannohie	168	333			FMD98
122	09/03/01	Farm	Anglesey	Newborough	166	240			FMD13, 101
123	09/03/01	Farm	Leics	Hinkley	62				FMD/2001/25

FMD No	Confirmation Date	Prem. Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
124	09/03/01	Farm	Co Durham	Horwley	100	210			FMD 124
125	09/03/01	Dealer	Essex	Laver-de-la-Haye	24	1,300	2		FMD 2001/07
126	09/03/01	Farm	Cumbria	Pennith	448	767			Under investigation
127	09/03/01	Farm	Anglesey	Llangaflo	31				Contiguous FMD 13, 122
128	09/03/01	Farm	Devon	Creddon Hamlet	292	101	0	0	Under Investigation
129	09/03/01	Farm	Dumfries & Galloway	Carnobie	101	711	0	0	Contiguous 121,98, 44, 29
130	09/03/01	Farm	Co Durham	Bishop Auckland	16	217			FMD14
131	09/03/01	Farm	Cumbria	Kirkandrewson Park	340	750			FMD76
132	09/03/01	Farm	Cumbria	Hackwate	3	450			FMD40, 41
133	09/03/01	Farm	Cumbria	Kirkbampton	82	260			FMD96
134	09/03/01	Farm	Co Durham	Sadley	158	543			FMD14
135	10/03/01	Farm	Dumfries & Galloway	Cricna	230	335			FMD 112, 118
136	09/03/01	Farm	Cumbria	Arthurct	262	205			FMD 40, 41
137	10/03/01	Farm	Dumfries & Galloway	Kirkpatrick Fleming	420	260			FMD40, 41
138	09/03/01	Farm	Devon	Orchard Bishop	199	926			Under Investigation
139	10/03/01	Farm	Cumbria	Edenhall	472	1,630	0	0	FMD 2001/75
140	10/03/01	Farm	Dumfries & Galloway	Cricna	380	177			FMD 2001/64, 112
141	10/03/01	Farm	Kent	Allhallows	72				Under Investigation
142	11/03/01	Farm	Powys	Church Stokke	220	0	0	0	Westspool Market
143	11/03/01	Farm	Devon	Orchampton	0	205			FMD71
144	11/03/01	Farm	Cumbria	Dacre	230	1,130	0	0	FMD126, FMD106

FMD No.	Confirmation Date	Prem. Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
145	11/03/01	Farm	Worce	Bringsly	127	247			FMD 105
146	11/03/01	Farm	Derbyshire	Marston on Dove	107				FMD 201/103 and FMD 99
147	10/03/01	Farm	Cumbria	Arton	54	36			Under investigation
148	10/03/01	Farm	Dumfries & Galloway	Lockerbie	147	900			Under investigation
149	11/03/01	Farm	Cumbria	Asklham	178	800			Under investigation
150	10/03/01	Farm	Glouc	Blakeney	101	1,283	17		Ross Market
151	11/03/01	Farm	Cumbria	Brownfield	500	250			Under investigation
152	09/03/01	Farm	Tyne & Wear	Heddon on the Wall	165				FMD53
153	11/03/01	Farm	Cumbria	Arton	144	235			FMD96
154	10/03/01	Farm	Dumfries & Galloway	Dryesdale	83	757			FMD 28
155	11/03/01	Farm	C o Durham	Hampsterley	450	2,500			FMD 17
156	11/03/01	Farm	Devon	MonkOkehampton	254	125	700		Link to FMO 56.
157	11/03/01	Farm	Devon	Hatherleigh	100	18			FMD18
158	11/03/01	Farm	Cumbria	Hunsonby	250				Under investigation
159	11/03/01	Farm	Herefords	St Weonards	130	460			FMD 65, 72, 51
160	11/03/01	Farm	Cumbria	Kirkoswald	340	1,200			FMD35
161	10/03/01	Farm	Devon	Iddesleigh	200	1,500			FMD 95 ( 3 kms)
162	11/03/01	Farm	Northumberland	Shotley Low Quarte	180	800			FMD43
163	11/03/01	Farm	Cumbria	Soekbridge and Tim	39	50			FMD 30
164	11/03/01	Farm	Devon	Hatherleigh	80	74			FMD9
165	11/03/01	Farm	Worce	Brockhampton		62			FMD 105, 145

FMD No.	Confirmation Date	Prem Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
166	11.03.01	Farm	Dumfries & Galloway	Cannobie	387	850			FMD 121, 98
167	11.03.01	Farm	Cumbria	Kirkbrampton	650	400			FMD 2001 153
168	11.03.01	Farm	Wales	Ramsbury	61				FMD 2001 87
169	12.03.01	Farm	Leics	Barton in Kerdal	200	1,400			FMD2001-46
170	11.03.01	Farm	Cumbria	Huddon	197	576	0	0	FMD 2001/132
171	12.03.01	Farm	Staffs	Pelsall	90				Under investigation
172	12.03.01	Farm	Cumbria	Hohne Law	270	0	0	0	Under investigation
173	12.03.01	Farm	Staffs	Rollestone-on-Dove		1		7	FMD 83
174	12.03.01	Farm	Leics	Halton	140	500			FMD 169
175	12.03.01	Farm	Derbyshire	Loston		9			FMD 83
176	12.03.01	Farm	Co Durham	Crook	100	507			Under investigation
177	12.03.01	Farm	Glos	Franthton-on-Severn	202				FMD150
178	12.03.01	Farm	Powys	Betws	200	1,400			Under investigation
179	12.03.01	Farm	Cumbria	Skelton	373	4	0	0	FMD126
180	12.03.01	Farm	Devon	Northlew	225	0	0	0	FMD 61
181	12.03.01	Farm	Lyme & Wear	Heddon on the Wall	297	16			FMD 53, 152
182	12.03.01	Farm	Cumbria	Dacre		40			Link to FMD 144
183	12.03.01	Farm	Cumbria	Kirkandrews on Est	170	865	0	0	FMD 68, 136
184	12.03.01	Farm	Devon	Jacobstone	51	220	7		Under investigation
185	12.03.01	Farm	Devon	Okhampton	228	390			FMD 143
186	12.03.01	Farm	Co Durham	Evenwood and Barr	97	910			FMD 155

FMD No.	Confirmation Date	Farm Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
187	12.03.01	Farm	Dumfries & Galloway	Wamphray	483	1,612	0	0	F:MD 73
188	13/03/01	Farm	Cumbria	Kirkandrews on Esk	28	320			F:MD 40, 41
189	13.03.01	Farm	Gilos	Westbury-on-Severn		111			F:MD 150
190	13.03.01	Farm	Cumbria	St Cuthbert Withou	352				Under investigation
191	13.03.01	Farm	Cumbria	Bowness on Solway	320	170			Under investigation
192	13.03.01	Farm	Cumbria	Raughton Head	401	8	0	0	Under investigation
193	13.03.01	Farm	Staffs	High Offley	199				Under investigation
194	13.03.01	Farm	Cumbria		285	1,700	0	0	F:MD 40 and F:MD 41
195	13.03.01	Farm	Staffs	Marston	41	0	0	0	Under investigation
196	13.03.01	Farm	Cumbria	Holme East Waver	220	100	0	0	F:MD147
197	13.03.01	Farm	Gilos	St Bravel		163			F:MD 150
198	13.03.01	Farm	Dumfries & Galloway	Cirena	0	2,984	0	0	F:MD 40, F:MD41, F:MD64
199	13.03.01	Farm	Cumbria	Holme Culdrum	180	0	0	0	Under investigation
200	13.03.01	Farm	Cumbria	Southwaite	219	370			Under investigation
201	13.03.01	Farm	Cumbria	Beaumont	110	400			Under investigation
202	13.03.01	Farm	Gilos	Newham	130				F:MD150
203	13.03.01	Farm	Cumbria	Rockcliffe	100	1,700	120		Under investigation
204	13.03.01	Farm	Cumbria	Plumpton	278				Under investigation
205	14.03.01	Farm	Dumfries & Galloway	Cirena	32	95			F:MD198
206	14.03.01	Farm	Co Durham	Tow Law	150	240			F:MD130
207	14.03.01	Farm	Co Durham	Wilton le Wear	15	88			F:MD17, 69, 155, 186

FMD No.	Confirmation Date	Prem Type	County	Parrish	Cattle	Shee	Pigs	Goats	Link
208	14.03.01	Farm	Dumfries & Galloway	Ortna	200	0	0	0	FMD118, 64
209	14.03.01	Farm	Dumfries & Galloway	Dalton	440	1,900	0	0	FMD62
210	14.03.01	Farm	Cumbria	Lazonby	167	1,000			FMD68
211	14.03.01	Farm	Ceshire	Buddley	61	1,257	0	0	FMD40, 41
212	14.03.01	Farm	Cumbria	Stapleton	239	410			FMD40, 41, 77
213	14.03.01	Farm	Wiltis	Ransbury	0	154	0	0	FMD 87, 120, 168, 213
214	14.03.01	Farm	Wiltis	Chilton Foliat	5	235			FMD 11, 86, 87
215	14.03.01	Abattoir	Powys	Llandloes	81	1,000	0	0	Under investigation
216	14.03.01	Farm	Cumbria	Arlton	300	258	0	0	Under investigation
217	14.03.01	Farm	Devon	Shebbear	188	6	0	0	FMD 109
218	14.03.01	Farm	Cumbria	Silloth	350	200	0	0	FMD172
219	14.03.01	Farm	Devon	Monkleigh	480	280			Under investigation
220	14.03.01	Farm	Powys	Llansair Caeremnon	200	100	0	0	Under investigation
221	14.03.01	Farm	Cumbria	Skelton	170	220			Under investigation
222	14.03.01	Farm	Essex	Weathersfield	5	493	0	9	Possible link to FMD1
223	14.03.01	Farm	Cumbria	Doneson Solway	154	122	0	0	FMD104
224	14.03.01	Farm	Derbysire	Marston on Dove	350				FMD83,99,103,146
225	14.03.01	Farm	Cumbria	Calthwaite	350				FMD68
226	14.03.01	Farm	Cumbria	Newton Arlosh	160	140	0	0	FMD196
227	14.03.01	Farm	Cumbria	Rockcliffe	143	430			FMD203
228	14.03.01	Farm	Cumbria	Skelton	370	1,520			Under investigation

FMD No	Confirmation Date	Prem. Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
229	14/03/01	Farm	Dumfries & Galloway	St Mungo	296	145			FMD148
230	14/03/01	Farm	Dumfries & Galloway	Lorthoward	200	250			FMD 90
231	14/03/01	Farm	Dumfries & Galloway	Lochnaben	350	590			FMD 90
232	14/03/01	Farm	Dumfries & Galloway	Canonbie	440	442			FMD166
233	15/03/01	Farm	Co Durham	Wolsingham	242	650			FMD 206
234	15/03/01	Farm	Devon	Halbertleigh	62	42			FMD70
235	15/03/01	Farm	Cumbria	Kirkandrews on Esk	125	350	54		Under investigation
236	15/03/01	Farm	Dumfries & Galloway	Gretna	165	240			Under investigation
237	15/03/01	Farm	Devon	Northlew	430	1,000			FMD61 and 180
238	15/03/01	Farm	Cumbria	Hutton in the Forest	93	50			FMD194
239	15/03/01	Farm	Powys	Hansar Coedron	20	115			FMD220
240	15/03/01	Field	Devon	Monkokehampton	100	110			FMD 156
241	15/03/01	Farm	Cumbria	Great Salkeld	1	400	0	0	FMD 111
242	15/03/01	Farm	Anglesey	Malltraeth	42	766	0	0	Under investigation
243	15/03/01	Farm	Dumfries & Galloway	East Riggs	0	12	0	0	FMD 135
244	15/03/01	Farm	Cumbria	Kirkhampton	156	104			FMD167 153
245	15/03/01	Farm	Cumbria	Longtown	57	0	0	0	FMD41, 92
246	15/03/01	Farm	Kent	Adisham	0	2,400	0	0	FMD40, 41
247	15/03/01	Farm	Devon	Iddesleigh	171	650			Under investigation
248	15/03/01	Dealer	Worce	Bishampton	17	4,000			Under investigation
249	15/03/01	Farm	Oxon	Bicester		266			Under investigation

FMD No	Confirmation Date	Prem. Type	County	Parish	Cattle	Shee	Pigs	Goats	Link
250	15.03.01	Farm	Cumbria	Feden Hall	0	50	0	0	FMD75
251	15.03.01	Farm	Powys	Llanbadarn Fynydd	250	1,000			FMD220
252	15.03.01	Farm	Cumbria	Kirkhampton		44			FMD216
253	15.03.01	Farm	Cumbria	Holm Law	250	150	0	0	FMD199
254	15.03.01	Farm	Dumfries & Galloway	Canonbie	215	321			FMD232
255	15.03.01	Farm	Powys	Berrew	112	1,810			FMD178
256	16.03.01	Farm	Glos	Fydney	270	0	0	0	FMD197
257	15.03.01	Farm	James	Great Horwood	25	686	0	0	FMD21
258	16.03.01	Farm	Devon	Okchampton	0	0	37	0	FMD143
259	15.03.01	Farm	Powys	Llanfawcdd	79	2,648	0	0	Under investigation
260	16.03.01	Farm	Kent	Minster	0	348	0	0	Under investigation
261	16.03.01	Farm	Cumbria	Skelton	550	630	0	0	Under investigation
262	16.03.01	Farm	Powys	Chilbury	0	26	0	0	Under investigation
263	16.03.01	Farm	Anglesey	Gaerwen		260			Under investigation
264	16.03.01	Farm	Co Durham	Hamsterley		35			FMD186
265	16.03.01	Farm	Co Durham	Satley	131	530	0	0	FMD134
266	16.03.01	Farm	Herefords	Peterstow		530			Under investigation
267	16.03.01	Farm	N Yorks	Hawes	84	371			FMD82
268	16.03.01	Farm	Dumfries & Galloway	Canonby	138	610	0	0	FMD166, 232
269	16.03.01	Farm	Devon	Bridestow	1,200	300			Under investigation
270	16.03.01	Farm	Dumfries & Galloway	Corrie	150	820	0	0	under investigation

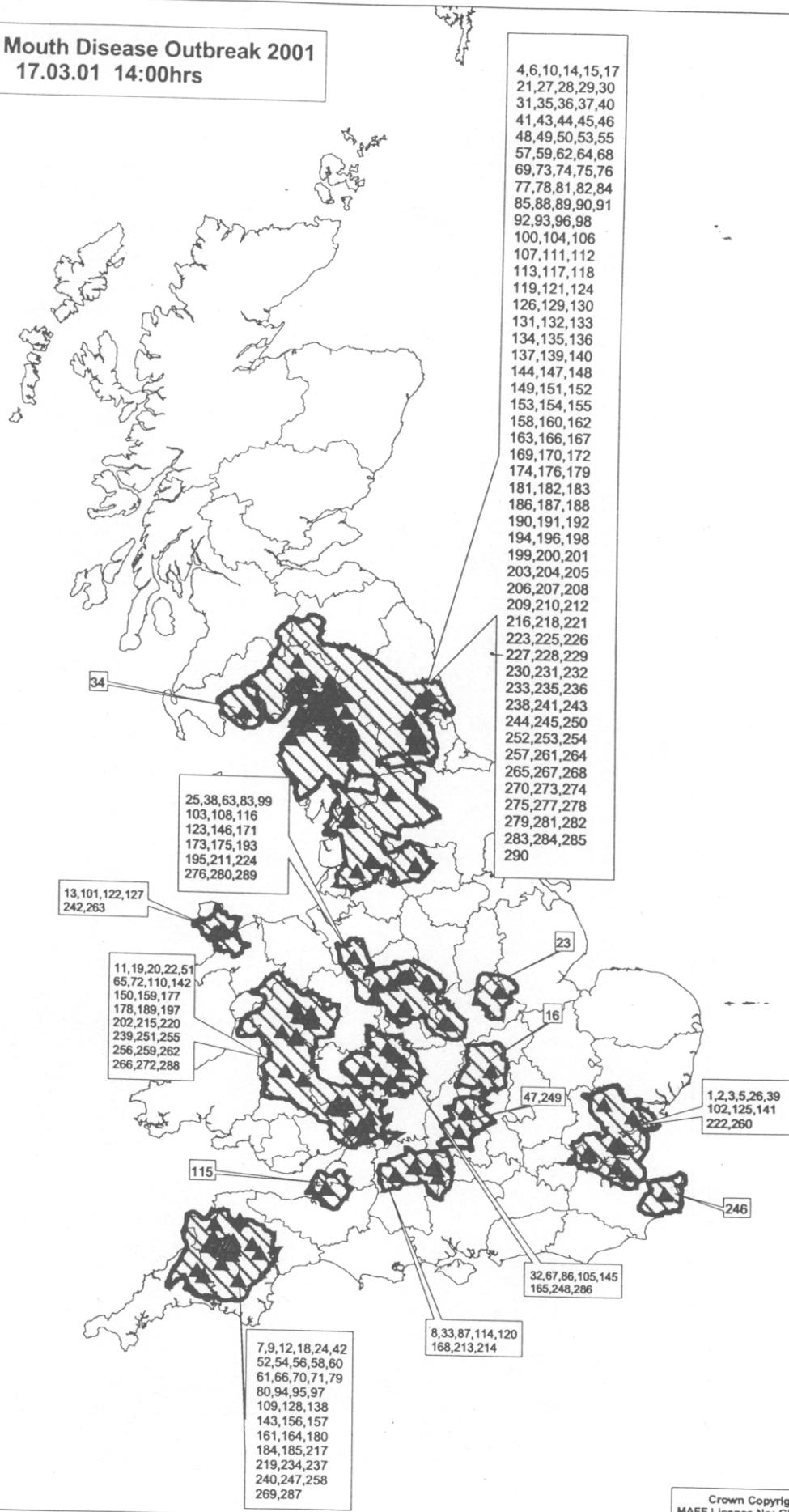
FMD No.	Confirmation Date	Prem Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
271	16/03/01	Farm	Devon	South Molton		8			Under investigation
272	16/03/01	Farm	Monmouth			410			Under investigation
273	17/03/01	Farm	Lancs	Claughton	167	88	0	0	FMD46
274	17/03/01	Farm	Co Durham	Shotley Lower Quad	160	850	0	0	FMD 162
275	17/03/01	Farm	Cumbria	Morland	246	766	0	0	Under investigation
276	17/01/01	Dealer	Salop	Bromstead Morton	0	786	0	0	Welshpool Market, FMD 246
277	16/03/01	Farm	Cumbria	Staffield	380	1,020	0	0	FMD 160
278	17/03/01	Farm	Cumbria	Barton	350				FMD30
279	17/03/01	Farm	Cumbria	Eidenhall	560	1,800			Under investigation
280	17/03/01	Farm	Staffs	Stranshall	170	0	0	0	Under investigation
281	16/03/01	Farm	Cumbria	Silloth	125	55	0	0	Under investigation
282	17/03/01	Farm	W Yorks	Queensbury	19				Under investigation
283	17/03/01	Farm	N Yorks	Hawes	74	345			FMD82
284	17/03/01	Farm	Cumbria	Eidenhall	0	108	0	0	Under investigation
285	17/03/01	Farm	Dumfries & Galloway	Mouswald	290	500	0	0	Under investigation
286	17/03/01	Dealer	Worce	Besford	0	4,000	0	0	Under investigation
287	17/03/01	Farm	Devon	Hatherleigh	0	68	0	0	Under investigation
288	17/03/01	Farm	Cilos	Alkington	130	0	0	0	Under investigation
289	17/03/01	Farm	Staffs	Bramshall	91	123	0	0	FMD 38
290	17/03/01	Farm	Dumfries & Galloway	Creea	347	1,156	0	0	Under investigation
291		Farm	Co Durham	Fow Law	100	460	0	0	FMD206 10 meters

FMD No	Confirmation Date	Prem Type	County	Parish	Cattle	Sheep	Pigs	Goats	Link
292	17-03-01	Farm	Devon	Monk Okehampton	47	320	0	0	Form D, FMD 156
293	17-03-01	Farm	Dumfries & Galloway	Rothwell	81	171	0	0	
294	17-03-01	Farm	Co Durham	Winton Le Wear	6	68	0	1	FMD 69, 207, 153, 17
295	17-03-01	Farm	Cumbria	Staffield	60	550	0	0	Yes
296	17-03-01	Farm	Kent	Goodnessstone	180	46	0	0	1.5 km from Addersham

**Total Stock 45,761 160,301 3,033 28 209,123**

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**Foot and Mouth Disease Outbreak 2001**  
17.03.01 14:00hrs



4,6,10,14,15,17  
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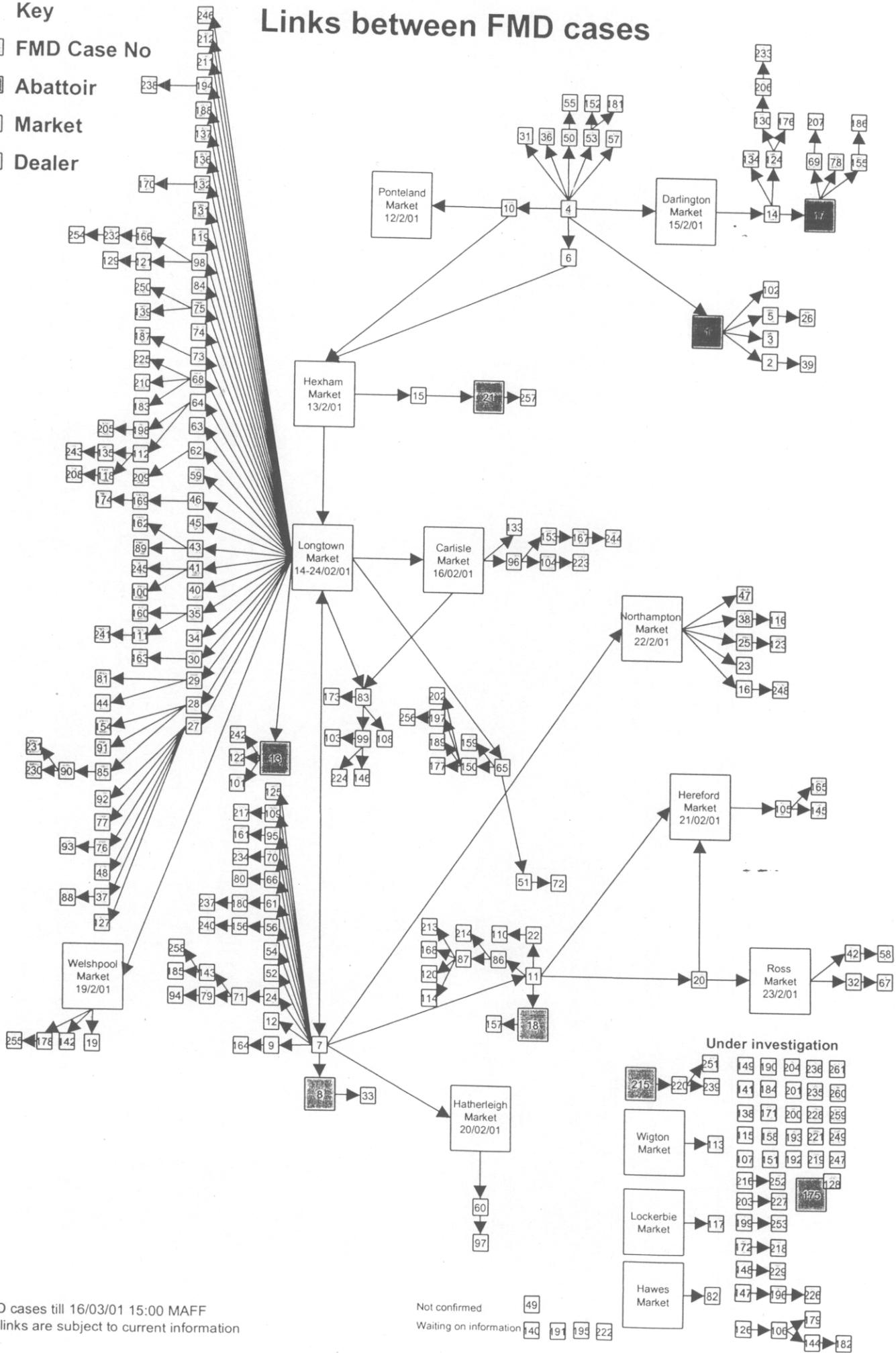
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# Links between FMD cases

- Key**
- FMD Case No
  - Abattoir
  - Market
  - Dealer



FMD cases till 16/03/01 15:00 MAFF  
 NB links are subject to current information

Not confirmed 49  
 Waiting on information 140 191 193 222

**Under investigation**

