

Chapter 2.4

REPORTS OF *SALMONELLA* IN DEER, HORSES AND RABBITS

There were two reports of *Salmonella* in deer during 2007 (Table 33); one was as a result of clinical disease and the other the result of an investigation made under the Zoonoses Order 1989 to the same premises; both reports were *Salmonella* Reading. Just under 28,600 deer were registered in Great Britain in 2007 at the June Agricultural Census, a decrease of approximately 16% compared with 2006. Deer, together with rabbits are included in statutory reports of *Salmonella*, as they may be raised for human consumption.

There were 62 reports of *Salmonella* in horses in 2007 (Table 34) compared with 51 in 2006, and increase of 22%. The most commonly reported serotype was *S. Typhimurium* (39 reports), an increase of 56% compared to 2006 (25 reports) when it was also the most frequently reported serotype. The proportion of *S. Typhimurium* also increased to 63% of total reports from horses, compared with 49% in 2006. The most commonly reported definitive types of *S. Typhimurium* in horses during 2007 were DT104 (10 reports, 26% of reported incidents) and DT56 (9 reports, 23% of reported incidents). DT56 is a common phage type of *S. Typhimurium* recovered from wild birds, as are DT40 and DT41 (single reports of each in 2007). There were single reports of *S. Typhimurium* DT1, DT153 and DT195 during 2007. *Salmonella Typhimurium* DT153 has never before been reported in horses in Great Britain and DT1 and DT195 have not been reported since 2001 and 2000 respectively. *Salmonella Typhimurium* DT7 was reported for the first time from horses in Great Britain in 2007.

There were six incidents of *S. Newport* in horses, compared with three in 2006; all were fully sensitive to all antimicrobials tested. *Salmonella Ajiobo* was reported in horses for the first time since 2002 and *S. Kottbus* was reported in horses for the first time since 1998.

There were five reports of *S. Enteritidis* in 2007, one fewer than in 2006. These were two incidents each of PT8 and PT11 (a hedgehog related strain) and a single incident of PT12 (the first time this strain has been reported in horses in Great Britain).

For the fourth year running there were no incidents of *Salmonella* reported in rabbits.

Table 33: *Salmonella* in deer on all premises

Salmonella Incidents (Isolations)	2003	2004	2005	2006	2007
ENTERICA ENTERICA					
Dublin	- (-)	- (-)	2 (2)	2 (2)	- (-)
Reading	- (-)	- (-)	2 (2)	- (-)	2 (2)
TOTAL	- (-)	- (-)	4 (4)	2 (2)	2 (2)

Table 34: *Salmonella* in horses on all premises

<i>Salmonella</i> Incidents (Isolations)	2003	2004	2005	2006	2007
ENTERICA ENTERICA					
Agama	5 (5)	8 (8)	6 (6)	7 (7)	5 (5)
Ajiobo	- (-)	- (-)	- (-)	- (-)	1 (1)
Anatum	1 (1)	1 (1)	- (-)	3 (3)	2 (2)
Bovismorbificans	- (-)	- (-)	- (-)	3 (3)	- (-)
Brandenburg	1 (1)	- (-)	- (-)	- (-)	- (-)
Derby	- (-)	- (-)	1 (1)	- (-)	1 (1)
Dublin	1 (1)	- (-)	1 (1)	- (-)	- (-)
Ealing	- (-)	- (-)	1 (1)	- (-)	- (-)
Enteritidis	2 (2)	3 (3)	3 (3)	4 (4)	5 (5)
Indiana	- (-)	1 (1)	- (-)	- (-)	- (-)
Kedougou	- (-)	2 (2)	- (-)	- (-)	- (-)
Kisarawe	- (-)	1 (1)	- (-)	- (-)	- (-)
Kottbus	- (-)	- (-)	- (-)	- (-)	2 (2)
Kua	- (-)	- (-)	- (-)	1 (1)	- (-)
Montevideo	- (-)	- (-)	1 (1)	3 (3)	1 (1)
Muenchen	- (-)	1 (1)	- (-)	- (-)	- (-)
Newport	- (-)	4 (4)	2 (2)	3 (3)	6 (6)
Oslo	1 (1)	1 (1)	- (-)	1 (1)	- (-)
Rissen	- (-)	- (-)	1 (1)	- (-)	- (-)
Stourbridge	1 (1)	- (-)	1 (1)	1 (1)	- (-)
Thompson	- (-)	1 (1)	- (-)	- (-)	- (-)
Typhimurium	15 (15)	31 (31)	26 (28)	25 (25)	39 (42)
UNSPECIFIED					
structure only	1 (1)	- (-)	1 (1)	- (-)	- (-)
rough	- (-)	- (-)	1 (1)	- (-)	- (-)
TOTAL	28 (28)	54 (54)	45 (47)	51 (51)	62 (65)

Table 35: S. Typhimurium in horses on all premises

Definitive Types Incidents (Isolations)	2003		2004		2005		2006		2007	
1	-	(-)	-	(-)	-	(-)	-	(-)	1	(1)
7	-	(-)	-	(-)	-	(-)	-	(-)	1	(2)
12	-	(-)	1	(1)	-	(-)	-	(-)	-	(-)
40	1	(1)	5	(5)	1	(1)	3	(3)	1	(1)
41	1	(1)	1	(1)	2	(2)	4	(4)	1	(1)
49	1	(1)	1	(1)	-	(-)	-	(-)	-	(-)
56	4	(4)	5	(5)	11	(11)	6	(6)	9	(9)
104	2	(2)	8	(8)	7	(7)	3	(3)	10	(10)
104b	1	(1)	-	(-)	-	(-)	1	(1)	3	(3)
120	-	(-)	1	(1)	-	(-)	-	(-)	-	(-)
125	-	(-)	3	(3)	-	(-)	-	(-)	-	(-)
135	-	(-)	-	(-)	-	(-)	2	(2)	3	(3)
153	-	(-)	-	(-)	-	(-)	-	(-)	1	(1)
193	2	(2)	2	(2)	4	(4)	3	(3)	2	(2)
195	-	(-)	-	(-)	-	(-)	-	(-)	1	(1)
U288	1	(1)	-	(-)	-	(-)	2	(2)	1	(1)
U302	-	(-)	1	(1)	-	(-)	-	(-)	2	(3)
U310	1	(1)	2	(2)	-	(-)	-	(-)	2	(2)
RDNC	-	(-)	-	(-)	-	(2)	-	(-)	-	(-)
UNTY	1	(1)	1	(1)	1	(1)	1	(1)	1	(1)
NOPT	-	(-)	-	(-)	-	(-)	-	(-)	-	(1)
TOTAL	15	(15)	31	(31)	26	(28)	25	(25)	39	(42)

Table 36: S. Enteritidis in horses on all premises

Definitive Types Incidents (Isolations)	2003	2004	2005	2006	2007
1	- (-)	- (-)	1 (1)	3 (3)	- (-)
4	- (-)	1 (1)	- (-)	- (-)	- (-)
8	1 (1)	1 (1)	1 (1)	1 (1)	2 (2)
11	1 (1)	1 (1)	- (-)	- (-)	2 (2)
12	- (-)	- (-)	- (-)	- (-)	1 (1)
23	- (-)	- (-)	1 (1)	- (-)	- (-)
TOTAL	2 (2)	3 (3)	3 (3)	4 (4)	5 (5)

Table 37: *Salmonella* in rabbits on all premises

Salmonella Incidents (Isolations)	2003	2004	2005	2006	2007
ENTERICA ENTERICA					
Kedougou	1 (1)	- (-)	- (-)	- (-)	- (-)
TOTAL	1 (1)	- (-)	- (-)	- (-)	- (-)