

Chapter 3

REPORTS OF *SALMONELLA* IN LIVESTOCK PRODUCTS

This chapter contains, as in previous years, information on reports of *Salmonella* from animal products. Isolations of *Salmonella* have been collated and presented in Tables 67, 68 and 69 when isolated from the following products:

- Live animals sampled at a slaughterhouse.
- Animal carcasses and parts of carcasses sampled at a slaughterhouse.
- Human foodstuffs of animal origin sampled at a premises other than a slaughterhouse (no isolations in 2002).

National abattoir surveys

In a one year survey (1999 – 2000) of a statistically derived sample of prime cattle and sheep at slaughter in Great Britain, *Salmonella* was found in 1g samples of rectal contents from two cattle (0.2%) and one sheep (0.1%) (Davies and others, 2000). All three isolates were *S. Typhimurium*. In a similar survey of slaughter pigs, caecal carriage of *Salmonella* was identified in 23% of pigs but in only 5.3% of carcass swabs. The predominant *Salmonella* serovars were *S. Typhimurium* and *S. Derby* (Davies and others 2001). See Table 70.

Table 67: *Salmonella* from slaughterhouses and human food premises

<i>Salmonella</i> serotype	Isolations 2000				Isolations 2001				Isolations 2002			
	Cattle	Sheep	Pigs	Poultry	Cattle	Sheep	Pigs	Poultry	Cattle	Sheep	Pigs	Poultry
Agama	-	1	-	1	-	-	-	-	-	-	-	-
Agona	-	-	-	-	-	-	-	4	-	-	-	-
Brandenburg	-	-	-	-	-	-	1	-	-	-	-	-
Champaign	-	-	-	1	-	-	-	-	-	-	-	-
Derby	-	1	1	-	-	-	6	-	-	-	1	-
Enteritidis	-	-	-	-	-	-	1	-	-	-	-	-
Gold Coast	-	1	1	-	-	-	2	-	-	-	-	-
Hadar	-	-	-	1	-	-	-	-	-	-	-	-
Heidelberg	-	-	-	1	-	-	-	-	-	-	-	-
Indiana	-	1	-	1	-	-	-	-	-	-	-	-
Kedougou	-	-	2	-	-	-	2	-	-	-	1	-
Mbandaka	-	-	-	-	-	-	-	1	-	-	-	-
Montevideo	-	-	-	-	-	-	-	1	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	1	-	-	-	-
Newport	-	-	-	-	-	-	-	1	-	-	-	-
Ohio	-	-	-	-	-	-	-	2	-	-	-	-
Orion	-	-	-	2	-	-	-	-	-	-	-	-
Panama	-	-	2	-	-	-	-	-	-	-	-	-
Poona	-	-	-	1	-	-	-	-	-	-	-	-
Senftenberg	-	-	-	-	-	-	-	2	-	-	-	-
Taksony	-	-	-	-	-	-	2	-	-	-	-	-
Thomasville	-	-	-	-	-	-	-	1	-	-	-	-
Typhimurium	-	2	31	8	-	-	13	3	-	-	2	-
Structure only	-	2	-	-	-	-	1	2	-	-	-	-
TOTAL	-	8	37	16	-	-	28	18	-	-	4	-

Table 68: *Salmonella* Typhimurium from slaughterhouses and human food premises

Definitive Type	Isolations 2000				Isolations 2001				Isolations 2002			
	Cattle	Sheep	Pigs	Poultry	Cattle	Sheep	Pigs	Poultry	Cattle	Sheep	Pigs	Poultry
12	-	-	3	-	-	-	1	-	-	-	1	-
86	-	-	-	1	-	-	-	-	-	-	-	-
104	-	1	10	4	-	-	1	2	-	-	-	-
104b	-	-	-	1	-	-	-	-	-	-	-	-
170	-	-	3	-	-	-	-	-	-	-	-	-
193	-	-	1	-	-	-	4	1	-	-	-	-
208	-	-	2	-	-	-	2	-	-	-	-	-
U302	-	-	3	-	-	-	-	-	-	-	-	-
U308	-	-	1	-	-	-	2	-	-	-	1	-
U308a	-	-	-	-	-	-	2	-	-	-	-	-
U310	-	-	-	-	-	-	1	-	-	-	-	-
RDNC	-	-	3	-	-	-	-	-	-	-	-	-
UNTY	-	1	5	2	-	-	-	-	-	-	-	-
untyped	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	2	31	8	-	-	13	3	-	-	2	-

Table 69: *Salmonella* Enteritidis from slaughterhouses and human food premises

Phage Type	Isolations 2000				Isolations 2001				Isolations 2002			
	Cattle	Sheep	Pigs	Poultry	Cattle	Sheep	Pigs	Poultry	Cattle	Sheep	Pigs	Poultry
4	-	-	-	-	-	-	1	-	-	-	-	-
TOTAL	-	-	-	-	-	-	1	-	-	-	-	-

Table 70: Prevalence of *Salmonella* in cattle, sheep and pigs at slaughter in GB (1999 - 2000)

	Cattle ^a		Sheep ^a		Pigs ^b			
	N	% positive	N	% positive	Caecum		Carcase swab	
					N	% positive	N	% positive
<i>Salmonella</i> spp.	891	0.2	973	0.1	2509	23.0	2509	5.3
<i>S. Enteritidis</i>	-	0.0	-	0.0	-	0.1	-	0.0
<i>S. Typhimurium</i>	-	0.2	-	0.1	-	11.1	-	2.1
<i>S. Derby</i>	-	0.0	-	0.0	-	6.3	-	1.6
<i>S. Kedougou</i>	-	0.0	-	0.0	-	1.0	-	0.04
Other serotypes	-	0.0	-	0.0	-	4.8	-	1.7

N number of animals examined

a systematic samples proportional to slaughter throughput were collected from 118 participating abattoirs (c. 50% national throughput) from January 1999 to February 2000. Maximum of 5 animals sampled on each occasion. Individual sample collection: ligated rectum.

b systematic samples proportional to slaughter throughput were collected from 32 participating abattoirs (> 80 % national throughput) from March 1999 to February 2000. Maximum of 5 pigs sampled on each occasion. Individual sample collection: ligated caecum, carcass swab.