

Chapter 1

REASON FOR SAMPLING AND PLACE OF SAMPLING

Of the incidents of *Salmonella* reported to Defra only some have been responsible for outbreaks of clinical disease in livestock (57% in 2006). This is in contrast to data reported for *Salmonella* in humans, reports of which usually correlate with incidents of clinical disease. This chapter gives the reason why samples were taken, and the place from where they originated (Tables 1, 2, 3 and 4). The majority of the incidents reported in chicken flocks are the result of voluntary surveillance activities; 86% in 2006. *Salmonella* surveillance of healthy flocks is also a common practice in the turkey and duck industries. By contrast, the majority of *Salmonella* incidents reported from other species are the result of examinations carried out to diagnose clinical disease.

Tables 3 and 4 report incidents and isolations of *Salmonella* in relation to the place where the samples were taken. The majority of incidents reported during 2006 resulted from samples taken on farms (82%). During 2006, 18% of incidents in chickens were reported from samples taken at hatcheries which are one of the locations at which samples were collected under the Poultry Breeding Flocks and Hatcheries Order (PBFHO) 1993; this is a decrease from 2005 when 31% of chicken incidents were from hatchery samples. However, this decrease may probably be related to the changes in the reporting of hatchery isolations with no supply flock details as from 2006. There were two reports of *Salmonella* from samples taken at slaughterhouses in 2006 (*S. Montevideo* from a chicken post-mortem and *S. Typhimurium* DT195 from a pheasant post-mortem), and one report of *Salmonella* from human food-stuffs of animal origin sampled at premises other than a slaughterhouse (*S. Thompson* PT1a from a chicken); however isolation of *Salmonella* from food tends to be reported only on an ad-hoc basis.

Table 1: Reason for sampling in 2006 - samples taken from farms and premises other than slaughterhouses

Species	Number of incidents by reason for sampling						% ALL
	PB	ZO	ND	NS	NK	TOTAL	
Cattle	na	33	713	4	-	750	30.5
Sheep	na	6	206	1	-	213	8.7
Goats	na	-	3	-	-	3	0.1
Pigs	na	12	187	2	-	201	8.2
Rabbits	na	-	-	-	-	-	-
Horses	na	1	38	5	-	44	1.8
Deer	na	-	-	1	-	1	0.04
Chickens	29	3	10	260	-	302	12.3
Turkeys	5	19	31	116	-	171	7.0
Ducks	6	-	36	443	2	487	19.8
Geese	na	-	8	10	-	18	0.7
Guinea Fowl	na	-	1	-	-	1	0.04
Partridges	na	-	17	4	-	21	0.9
Pheasants	na	-	59	2	-	61	2.5
Pigeons	na	-	5	-	-	5	0.2
Quail	na	-	-	-	-	-	-
Non-statutory	na	16	79	52	27	174	7.1
Total	40	90	1393	900	29	2452	
% ALL	1.6	3.7	56.8	36.7	1.2		

Key:

- PB Poultry Breeding Flocks and Hatcheries Order 1993 (voluntary for breeding flocks of turkeys and ducks)
- ZO Investigation made under the Zoonoses Order 1989
- ND Diagnosis of clinical disease
- NS Surveillance activity
- NK Not known
- na not applicable

Table 2: Reason for sampling in 2006 - samples taken from slaughterhouses or human food premises

Species	Number of isolations by reason for sampling				TOTAL
	ND	NS	ZO	NK	
Cattle	-	-	-	-	-
Sheep	-	-	-	-	-
Goats	-	-	-	-	-
Pigs	-	-	-	-	-
Rabbits	-	-	-	-	-
Horses	-	-	-	-	-
Deer	-	-	-	-	-
Chickens	-	2	-	-	2
Turkeys	-	-	-	-	-
Ducks	-	-	-	-	-
Geese	-	-	-	-	-
Guinea Fowl	-	-	-	-	-
Partridges	-	-	-	-	-
Pheasants	-	-	1	-	1
Pigeons	-	-	-	-	-
Quail	-	-	-	-	-
Non-statutory	-	-	-	-	-
Total	-	2	1	-	3

Key: ND Diagnosis of clinical disease
 NS Surveillance activity
 ZO Investigation made under the Zoonoses Order 1989
 NK Not known

Table 3: Place of sampling in 2006 - samples taken from farms and premises other than slaughterhouses

Species	Number of incidents by place sample taken				TOTAL
	FA	HA	OT	NK	
Cattle	744	na	1	5	750
Sheep	206	na	6	1	213
Goats	1	na	2	-	3
Pigs	193	na	7	1	201
Rabbits	-	na	-	-	-
Horses	10	na	24	10	44
Deer	-	na	1	-	1
Chickens	240	55	6	1	302
Turkeys	153	10	8	-	171
Ducks	418	63	3	3	487
Geese	9	7	1	1	18
Guinea Fowl	1	-	-	-	1
Partridges	9	2	10	-	21
Pheasants	23	6	29	3	61
Pigeons	1	-	4	-	5
Quail	-	-	-	-	-
Non-statutory	12	-	95	67	174
Total	2020	143	197	92	2452

Key: FA Farm
 HA Hatchery
 OT Other
 NK Not known
 na not applicable

Table 4: Place of sampling in 2006 - samples taken at slaughterhouses or human food premises

Species	Number of isolations by place sample taken			
	SA	SP	FP	TOTAL
Cattle	-	-	-	-
Sheep	-	-	-	-
Goats	-	-	-	-
Pigs	-	-	-	-
Rabbits	-	-	-	-
Horses	-	-	-	-
Deer	-	-	-	-
Chickens	-	1	1	2
Turkeys	-	-	-	-
Ducks	-	-	-	-
Geese	-	-	-	-
Guinea Fowl	-	-	-	-
Partridges	-	-	-	-
Pheasants	-	1	-	1
Pigeons	-	-	-	-
Quail	-	-	-	-
Non-statutory	-	-	-	-
Total	-	2	1	3

Key: SA Live animals sampled at a slaughterhouse
 SP Carcases sampled at a slaughterhouse
 FP Human food stuffs of animal origin sampled at a premises other than a slaughterhouse