

Chapter 1

REASON FOR SAMPLING AND PLACE OF SAMPLING

Only some of the incidents of *Salmonella* reported to Defra have been responsible for outbreaks of clinical disease in livestock (55% in 2004). 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 which they originated (Tables 1, 2, 3 and 4). The majority of the incidents reported in chicken flocks are the result of statutory monitoring or surveillance activities; 80% in 2004. From 2000 to 2003 the proportion of incidents in chickens resulting from non-statutory surveillance decreased when compared with earlier years. However in 2004 this increased to 77% of incidents reported, although the number of incidents reported as a result of statutory monitoring continued to decline. *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 result from samples taken on the farm (83%). However, 37% of incidents in chickens result from samples taken at hatcheries which are one of the locations at which samples are taken under the Poultry Breeding Flocks and Hatcheries Order (PBFHO) 1993. There were ten reports of *Salmonella* from samples taken at slaughterhouses in 2004, but no reports of *Salmonella* from human food-stuffs of animal origin sampled at premises other than a slaughterhouse, but isolation of *Salmonella* from food tends to be reported only on an ad-hoc basis.

Table 1: Reason for sampling in 2004 - samples taken from farms and premises other than slaughterhouses

Species	Number of incidents by reason for sampling					TOTAL	% ALL
	PB	ZO	ND	NS	NK		
Cattle	na	37	936	4	1	978	32.8
Sheep	na	4	270	1	-	275	9.2
Goats	na	-	-	-	-	-	-
Pigs	na	9	139	10	-	158	5.3
Rabbits	na	-	-	-	-	-	-
Horses	na	4	38	6	-	48	1.6
Deer	na	-	-	-	-	-	-
Chickens	16	13	118	530	8	685	23.0
Turkeys	-	1	18	217	-	236	7.9
Ducks	-	3	10	434	-	447	15.0
Geese	na	-	1	-	-	1	0.03
Guinea Fowl	na	-	-	-	-	-	-
Partridges	na	-	3	2	-	5	0.2
Pheasants	na	-	8	1	-	9	0.3
Pigeons	na	7	12	3	-	22	0.7
Quail	na	-	-	-	-	-	-
Non-statutory	na	10	82	10	16	118	4.0
Total	16	88	1635	1218	25	2982	
% ALL	0.5	3.0	54.8	40.8	0.8		

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 2004 - samples taken from slaughterhouses or human food premises

Species	Number of isolations by reason for sampling		
	ND	NS	TOTAL
Cattle	3	-	3
Sheep	4	-	4
Goats	-	-	-
Pigs	-	-	-
Rabbits	-	-	-
Horses	1	-	1
Deer	-	-	-
Chickens	1	1	2
Turkeys	-	-	-
Ducks	-	-	-
Geese	-	-	-
Guinea Fowl	-	-	-
Partridges	-	-	-
Pheasants	-	-	-
Pigeons	-	-	-
Quail	-	-	-
Total	9	1	10

Key: ND Diagnosis of clinical disease
NS Surveillance activity

Table 3: Place of sampling in 2004 - samples taken from farms and premises other than slaughterhouses

Species	Number of incidents by place sample taken				TOTAL
	FA	HA	OT	NK	
Cattle	971	na	3	4	978
Sheep	270	na	4	1	275
Goats	-	na	-	-	-
Pigs	153	na	3	2	158
Rabbits	-	na	-	-	-
Horses	16	na	25	7	48
Deer	-	na	-	-	-
Chickens	404	251	8	22	685
Turkeys	221	7	4	4	236
Ducks	416	27	4	-	447
Geese	1	-	-	-	1
Guinea Fowl	-	-	-	-	-
Partridges	4	-	1	-	5
Pheasants	6	-	2	1	9
Pigeons	-	-	19	3	22
Quail	-	-	-	-	-
Non-statutory	13	2	65	38	118
Total	2475	287	138	82	2982

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

Table 4: Place of sampling in 2004 - samples taken at slaughterhouses or human food premises

Species	Number of isolations by place sample taken			
	SA	SP	FP	TOTAL
Cattle	-	3	-	3
Sheep	-	4	-	4
Goats	-	-	-	-
Pigs	-	-	-	-
Rabbits	-	-	-	-
Horses	-	1	-	1
Deer	-	-	-	-
Chickens	1	1	-	2
Turkeys	-	-	-	-
Ducks	-	-	-	-
Geese	-	-	-	-
Guinea Fowl	-	-	-	-
Partridges	-	-	-	-
Pheasants	-	-	-	-
Pigeons	-	-	-	-
Quail	-	-	-	-
Total	1	9	-	10

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