

**Programmes for eradication, control and surveillance of animal diseases and zoonoses****Final report**

For each approved annual or multiannual programme Member States shall submit to the Commission by the 30 April each year an annual detailed technical and financial report covering the previous year. That report shall include the results achieved and a detailed account of eligible costs incurred (Art 14 of Regulation (EU) No 652/2014).

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- 7) You are invited to submit your report in English
- 8) Final reports shall be submitted by 30 April at the latest.

Complete all information below

Reporting Period	01/01/2016 - 31/12/2016
Member state	PORTUGAL
Disease	Salmonella
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1. Technical implementation of the programme

1.1 Description and evaluation of the evolution of the epidemiological situation, the technical implementation of the activities foreseen under the programme and the cost-effectiveness of the programme.

The implementation of the programs in 2016 resulted in the accomplishments of the objectives established in the EU Regulations, with the exception of the laying flocks.
No positive results were found in the breeding flocks programme, while in broilers a decreased on the incidence of targeted serotypes was observed (from 0.2 to 0.1%). In fattening turkeys and laying hens flocks there was an increase on the incidence, however the target could be reached in the case of fattening turkeys.

The programme was implemented as foreseen with a coverage of 100% of holdings and flocks, and most FBO own checks and official controls carried out as planned.

The evaluation of cost / benefit must take into account several factors including the cost of disease corresponding to direct losses to production (cost of morbidity and cost of decreased production) and indirect losses (eg barriers to free trade). The benefits resulting from the reduction of salmonellosis in poultry is also associated with a lower likelihood of infection of consumers via their products and with the associated socio-economic benefits.

1.2 Details on the level of achievement of the targets set in the approved programme and technical difficulties.

As referred all programs except in laying hens, Portugal has reached the Community target set. The final national results are the following:

Reproductive flocks – no positive flocks

Laying hens – 12 positive flocks (2.5%)

Broilers – 15 positive flocks (0.1%)

Fattening Turkeys – 4 positive flocks (0.3%)

No major technical difficulties were encountered.

1.3 Epidemiological maps for infection and other relevant data on the disease/activities (information on serotypes involved,...) (Please attach files of data using the PDF attachment feature) Use the textbox below to provide clarifications for the maps you attach, if needed.

Graphics on the evolution of coverage (existing and tested flocks) and positive flocks are presented in Annex for breeding, laying hens and broilers flocks and for fattening turkeys. It can be observed that all flocks are tested and numbers of positive flocks are low with some variation over time.

Data on 375 confirmed human cases resulted in 62% of targeted serotypes, namely:

S. Enteritidis – 109

S. Typhimurium – 74

S. Monophasic Salmonella Typhimurium 1,4,[5],12:i:- – 51

2. Tables for Salmonella monitoring outcome of the year

VERY IMPORTANT: Please fill out the following tables with figures corresponding to measures performed during the implementing period (1/1 to 31/12)

	Number of adult flocks checked (1)	Number of these flocks infected by a target serovar	Incidence
Breeding flocks of Gallus gallus	537	0	0,0
Laying hen flocks	481	12	2,5
Broiler flocks	11 733	15	0,1
Breeding flocks of turkeys	0	0	
Fattening flocks of turkeys	1 155	4	0,3

(1) A flock checked is a flock where samples were taken under a Salmonella control programme. Even if checked several times, such flocks shall only be counted once.

Table A - Breeding flocks of Gallus gallus

No of flocks with more than 250 adult breeders of Gallus gallus			537
No of flocks covered by the programme (1)		Rearing flocks (10)	270
		Adults	537
No of flocks checked (2) by the Competent Authorities (3)		Rearing flocks (10)	0
		Adults	497
No of flocks checked by the FBO		Rearing flocks (10)	270
		Adults	537
No of official visits to take samples (5)		Routine (holding)	635
		Routine (hatchery)	0
		Confirmatory sampling (7)	0
		Efficacy of disinfection (6)	0
Positive flocks (4) (SE,ST,SH,SI,SV)	No of positive flocks	Rearing flocks (10)	0
		Adults	0
	No of positive flocks depopulated	Rearing flocks (10)	0
		Adults	0
	No of birds concerned	Rearing flocks (10)	0
		Adults	0
	No of eggs	Heat treated	0
		Destroyed	0

- (1) All flocks covered by the national *Salmonella* programme (including those with less than 250 adult breeders which may also be subject to the programme);
- (2) A flock checked is a flock where samples were taken under the *Salmonella* national control programme;
- (3) A flock shall no be counted more than once even if it was checked more than once;
- (4) Flocks where at least one target serovar was found. Even if more than one positive sample was found on a flock, it shall be counted only once.
- (5) Each time an official visit is made to take official samples on one flock; if X flocks are sampled on the same holding, X official visits can be counted.
For hatcheries, for each flock officially sampled at the hatchery, one visit can be counted.
Confirmatory sampling visits shall not be systematically performed (except for positive samples at the hatchery).
- (6) After depopulation of a flock infected by a target Salmonella serovar.
- (7) In accordance with provisions of Reg (EU) No 200/2010 points 2.2.22(b) and (c) of the annex : confirmatory sampling after positive samplings at the hatchery, or in case of suspicion of false positive.
- (10) See definition in Annex II.B of Regulation (EC) No 2160/2003

Table B - Flocks of laying hens

No of holdings with more than 1,000 adult laying hens			146
No of flocks in these holdings	Rearing flocks (10)		43
	Adults		476
No of holdings covered by the programme (1)			191
No of flocks in these holdings	Rearing flocks (10)		147
	Adults		481
Official checks	No of holdings with adult flocks checked (2) (3)		139
	No of adult flocks checked in these holdings		162
	No of pullet flocks checked in these holdings		2
FBO checks	No of holdings checked (2bis) (3)		191
	No of adult flocks checked in these holdings		481
	No of pullet flocks checked in these holdings		147
No of official visits to take samples (4)	Routine (4bis)		141
	Confirmatory sampling (5)		10
	Specific samples (6)		23
	Competent authority samples (7)		0
	Efficacy of disinfection (9)		0
Positive flocks (8) (SE,ST)	No of positive flocks		
	Rearing flocks (10)		1
	Adults		12
	No of positive flocks depopulated		
	Rearing flocks (10)		0
	Adults		4
	No of birds concerned		
	Rearing flocks (10)		99800
	Adults		438 301
	No of eggs		
		Destroyed	22 770 490

- (1) All holdings covered by the national *Salmonella* programme (including those with less than 1,000 laying hens which were also subject to the programme);
- (2) A holding/flock checked is a holding/flock where official samples were taken under the *Salmonella* national control programme;
- (2bis) A holding/flock checked is a holding/flock where FBO samples were taken under the *Salmonella* national control programme;
- (3) A holding/flock shall not be counted more than once even if it was checked more than once;
- (4) Each time an official visit is made to take official samples on one flock; if X flocks are sampled on the same holding, X official visits can be counted.
- (4bis) Point 2.1.(a) of Annex to Regulation (EU) No 517/2011
- (5) Annex D.4.b of Regulation (EC) No 2160/2003
- (6) Point 2.1.(b)(c) and (d) of Annex to Regulation (EU) No 517/2011;
- (7) Point 2.1.(e) of Annex to Regulation (EU) No 517/2011;
- (8) Flocks where at least one target serovar was found. Even if more than one positive sample was found on a flock, it shall be counted only once.
- (9) After depopulation of a flock infected by a target *Salmonella* serovar.
- (10) See definition in Annex II.B of Regulation (EC) No 2160/2003

Table C - Broiler flocks

No of holdings with more than 5,000 broilers		1 261
No of flocks produced in these holdings		11 287
No of holdings covered by the programme (1)		1 465
No of flocks produced in these holdings		11 733
No of flocks checked (official checks) (2)(3)		128
No of flocks checked (FBO checks)		11 733
No of official visits to take samples (5)	Routine	128
	Efficacy of disinfection (6)	0
No of positive flocks (4) (SE,ST)		15

- (1) All holdings covered by the national *Salmonella* programme (including those with less than 5,000 broilers which may also be subject to the programme);
- (2) A flock checked is a flock where samples were taken under the *Salmonella* national control programme;
- (3) A flock shall not be counted more than once even if it was checked more than once;
- (4) Flocks where at least one target serovar was found. Even if more than one positive sample was found on a flock, it shall be counted only once.
- (5) Each time an official visit is made to take official samples on one flock; if X flocks are sampled on the same holding, X official visits can be counted.
- (6) After depopulation of a flock infected by a target *Salmonella* serovar.

Table D - Breeding flocks of turkey

No of flocks with more than 250 adult breeding turkeys			0
No of flocks with elite, great grand parent, grand parents			0
No of flocks covered by the programme (1)	Rearing flocks (10)		0
	Adults		0
No of flocks checked (2) by the Competent Authorities (3)	Rearing flocks (10)		0
	Adults		0
No of flocks checked by the FBO	Rearing flocks (10)		0
	Adults		0
No of official visits to take samples (5)	Routine (holding)		0
	Routine (hatchery)		0
	Confirmatory sampling (7)		0
	Efficacy of disinfection (6)		0
Positive flocks (4) (SE,ST)	No of positive flocks	Rearing flocks (10)	0
		Adults	0
	No of positive flocks depopulated	Rearing flocks (10)	0
		Adults	0
	No of birds concerned	Rearing flocks (10)	0
		Adults	0
		No of eggs	0
		Heat treated	0
		Destroyed	0

- (1) All flocks covered by the national *Salmonella* programme (including those with less than 250 adult breeding turkeys which may also be subject to the programme);
- (2) A flock checked is a flock where samples were taken under the *Salmonella* national control programme;
- (3) A flock shall no be counted more than once even if it was checked more than once;
- (4) Flocks where at least one target serovar was found. Even if more than one positive sample was found on a flock, it shall be counted only once.
- (5) Each time an official visit is made to take official samples on one flock; if X flocks are sampled on the same holding, X official visits can be counted. For hatcheries, for each flock officially sampled at the hatchery, one visit can be counted. Confirmatory sampling visits shall not be systematically performed (except for positive samples at the hatchery).
- (6) After depopulation of a flock infected by a target Salmonella serovar.
- (7) In accordance with provisions of Reg (EU) No 200/2010 points 2.2.22(b) and (c) of the annex : confirmatory sampling after positive samplings at the hatchery, or in case of suspicion of false positive.
- (10) See definition in Annex II.B of Regulation (EC) No 2160/2003

Table E - Flocks of fattening turkeys

No of holdings with more than 500 fattening turkeys		131
No of flocks produced in these holdings (1)		1 154
No of holdings covered by the programme (2)		132
No of flocks produced in these holdings (3)		1 155
No of flocks checked (official checks) (4)(5)		13
No of flocks checked (FBO checks)		1 150
No of official visits to take samples (7)	Routine	13
	Efficacy of disinfection (8)	0
No of positive flocks (6) (SE,ST)		4

- (1) Number of flocks produced in the holdings with more than 500 fattening turkeys
- (2) All holdings covered by the national *Salmonella* programme (including those with less than 500 fattening turkeys which may also be subject to the programme);
- (3) Number of flocks produced in the holdings covered by the programme
- (4) A flock checked is a flock where samples were taken under the *Salmonella* national control programme;
- (5) A flock shall not be counted more than once even if it was checked more than once;
- (6) Flocks where at least one target serovar was found. Even if more than one positive sample was found on a flock, it shall be counted only once.
- (7) Each time an official visit is made to take official samples on one flock; if X flocks are sampled on the same holding, X official visits can be counted.
- (8) After depopulation of a flock infected by a target *Salmonella* serovar.

Table F - Laboratory tests

Laboratory tests on official samples	No of tests					
	Breeding flocks	Laying flocks	Broiler flocks	Breeding turkey flocks	Fattening turkey flocks	TOTAL
Microbiological tests	1300	492	128	0	13	1 933
Serotyping tests	97	110	50	0	8	265
Disinfection efficacy tests	0	0	0	0	0	0
Antimicrobial detection tests	0	0	0	0	0	0

Table G - Vaccination

	No of flocks in the vaccination programme	No of flocks vaccinated	No of birds vaccinated	No of doses administered
Breeders	0	0	0	0
Layers	0	0	0	0
Breeding turkeys	0	0	0	0
TOTAL	0	0	0	0