

## Eradication: Final report for Avian Influenza 2018

For each approved annual or multi-annual 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).

This form is for information only, no submission possible.

ID: 20190426-EP4NOGJA

**Country code:** IT

### Reporting period

**From:** 2018

**To:** 2018

**Year of implementation:** 2018

## 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.**

Starting from February 2018, two outbreaks of low pathogenic avian influenza (LPAI) and three outbreaks of highly pathogenic avian influenza (HPAI) had been detected in Northern Italy.

Both LPAI cases were identified through active surveillance activities.

The first LPAI outbreak was detected in a free-range farm in Bergamo province which tested positive for H5N7 on 2 February. Samples were collected as part of the monitoring activities provided for by the national surveillance plan for avian influenza.

The second LPAI case was detected during regional monitoring activities in a little mixed-species farm in Milan Province (Lombardy region). The holding tested positive for H5N1 on 28 March.

In both LPAI outbreaks, restriction zones of 1-km radius around the outbreaks were established as provided for in Council Directive 2005/94/EC. All the birds in the affected holdings were culled, and the carcasses were disposed of under official supervision.

As for the HPAI outbreaks, three H5N8 viruses had been isolated in Lombardy region during passive surveillance activities carried out in March 2018.

The first outbreak was confirmed in a laying hen farm in Bergamo province on 2 March. At the time of confirmation, the holding housed 95,000 birds reared in cages. The positivity was detected after increased

mortality and decrease in intake and egg production were reported to the veterinary services. On 8 March, the Veterinary authorities confirmed as positive for HPAI a laying hen farm located in Brescia province. At the time of confirmation, the holding housed about 30,700 birds, reared in cages. The farm belongs to the same production company of the first HPAI infected farm, and tested positive after mandatory virological controls were carried out.

On 12 March, a fattening turkey farm located in Bergamo province tested positive for HPAI H5N8. The positivity was detected after a mortality increase was observed between 10 and 11 March.

Phylogenetic analyses indicates that the viruses isolated in the last three HPAI outbreaks cluster tightly together (99,8–99,9 %). Furthermore, the viruses belong to Italy B genetic group, particularly showing high similarity with the viruses isolated in Brescia province in November 2017.

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

As general consideration, the surveillance activities performed during 2018 were adequate to achieve the targets set in the approved program, especially for the provinces classified at high-risk for avian influenza infection.

## 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.

The map in attachment reports the locations of H5/H7 outbreaks notified during 2018, both HPAI and LPAI. The case detected through the surveillance activities foreseen under the national surveillance program for avian influenza is represented with a square. Detailed information on the productive categories of the affected premises, dates of notification and virus subtypes detected, numbers of birds present and dates of depopulation is summarized in the attached table for each outbreak.

## 2. TECHNICAL IMPLEMENTATION OF THE PROGRAMME ON AVIAN INFLUENZA

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

In the column "Total number of samples taken", please put 0 if the same samples have already been counted for another laboratory analysis (example : for HI-H5 and HI-H7 test, only 1 sample should be counted).

**Table A - POULTRY HOLDINGS SAMPLED : SEROLOGICAL INVESTIGATION ACCORDING TO ANNEX I TO COMMISSION DECISION 2010/367/EU**

Poultry category	NUTS2 Code	Total number of holdings	Total number of holdings sampled	Number of samples per holding	Total number of samples taken	Methods of laboratory analysis	Total number of tests performed per method
Fattening Turkeys	ITC1	7	7	19	303	HI test for H5	303
Fattening Turkeys	ITC1	0	0	0	0	HI test for H7	303
Fattening Turkeys	ITC4	145	125	20	3,255	ELISA test	3,254
Fattening Turkeys	ITC4	0	0	0	0	HI test for H5	389
Fattening Turkeys	ITC4	0	0	0	0	HI test for H7	389
Fattening Turkeys	ITD3	490	393	15	10,715	ELISA test	2,720
Fattening Turkeys	ITD3	0	0	0	0	HI test for H5	8,193
Fattening Turkeys	ITD3	0	0	0	0	HI test for H7	8,193
Fattening Turkeys	ITD5	47	42	19	2,100	ELISA test	2,100
Fattening Turkeys	ITD5	0	0	0	0	HI test for H5	30
Fattening Turkeys	ITD5	0	0	0	0	HI test for H7	30
Fattening Turkeys	ITE2	23	21	14	337	ELISA test	337
Fattening Turkeys	ITE2	0	0	0	0	HI test for H5	4
Fattening Turkeys	ITE2	0	0	0	0	HI test for H7	4
Fattening Turkeys	ITE4	6	3	10	40	HI test for H5	40
Fattening Turkeys	ITE4	0	0	0	0	HI test for H7	40
Chicken Breeders	ITC1	22	18	10	704	ELISA test	25
Chicken Breeders	ITC1	0	0	0	0	HI test for H5	699
Chicken Breeders	ITC1	0	0	0	0	HI test for H7	699

Chicken Breeders	ITC4	54	52	17	1,625	ELISA test	1,625
Chicken Breeders	ITC4	0	0	0	0	HI test for H5	48
Chicken Breeders	ITC4	0	0	0	0	HI test for H7	48
Chicken Breeders	ITD3	60	30	15	681	ELISA test	546
Chicken Breeders	ITD3	0	0	0	0	HI test for H5	136
Chicken Breeders	ITD3	0	0	0	0	HI test for H7	136
Chicken Breeders	ITD5	44	33	19	1,345	ELISA test	1,345
Chicken Breeders	ITE2	15	14	15	230	ELISA test	230
Chicken Breeders	ITE2	0	0	0	0	HI test for H5	5
Chicken Breeders	ITE2	0	0	0	0	HI test for H7	5
Turkey Breeders	ITD3	36	31	17	1,048	ELISA test	618
Turkey Breeders	ITD3	0	0	0	0	HI test for H5	432
Turkey Breeders	ITD3	0	0	0	0	HI test for H7	432
Turkey Breeders	ITD5	3	3	18	105	ELISA test	105
Laying Hens	ITC1	71	58	12	1,747	HI test for H5	1,737
Laying Hens	ITC1	0	0	0	0	HI test for H7	1,724
Laying Hens	ITC4	183	160	13	3,822	ELISA test	3,821
Laying Hens	ITC4	0	0	0	0	HI test for H5	6
Laying Hens	ITC4	0	0	0	0	HI test for H7	6
Laying Hens	ITD3	201	103	14	2,427	ELISA test	2,032
Laying Hens	ITD3	0	0	0	0	HI test for H5	411
Laying Hens	ITD3	0	0	0	0	HI test for H7	411
Laying Hens	ITD5	140	110	15	3,876	ELISA test	3,866
Laying Hens	ITE2	26	23	12	356	ELISA test	280
Laying Hens	ITE2	0	0	0	0	HI test for H5	76
Laying Hens	ITE2	0	0	0	0	HI test for H7	76
Laying Hens	ITE4	53	41	12	536	ELISA test	264
Laying Hens	ITE4	0	0	0	0	HI test for H5	370
Laying Hens	ITE4	0	0	0	0	HI test for H7	370
Free Range Laying Hens	ITC1	8	7	10	108	HI test for H5	108
Free Range Laying Hens	ITC1	0	0	0	0	HI test for H7	103
Free Range Laying Hens	ITC4	8	5	13	100	ELISA test	100
Free Range Laying Hens	ITD3	9	9	11	222	ELISA test	180
Free Range Laying Hens	ITD3	0	0	0	0	HI test for H5	19
Free Range Laying Hens	ITD3	0	0	0	0	HI test for H7	19
Free Range Laying Hens	ITD5	30	17	12	360	ELISA test	360
Free Range Laying Hens	ITE2	4	4	11	45	ELISA test	45
Free Range Laying Hens	ITE4	19	17	11	190	ELISA test	50
Free Range Laying Hens	ITE4	0	0	0	0	HI test for H5	140
Free Range Laying Hens	ITE4	0	0	0	0	HI test for H7	140
Ratites	ITC1	4	1	6	6	HI test for H5	6
Ratites	ITC1	0	0	0	0	HI test for H7	6
Ratites	ITC4	9	6	5	59	ELISA test	59
Ratites	ITD3	1	0	0	0	ELISA test	0
Farmed game birds (gallinaceous)	ITD3	8	3	23	225	ELISA test	145
Farmed game birds (gallinaceous)	ITD3	0	0	0	0	HI test for H5	82
Farmed game birds (gallinaceous)	ITD3	0	0	0	0	HI test for H7	82
Farmed game birds (gallinaceous)	ITE2	1	1	20	20	ELISA test	20

Farmed game birds (gallinaceous)	ITE4	1	1	10	10	HI test for H5	10
Farmed game birds (gallinaceous)	ITE4	0	0	0	0	HI test for H7	10
Fattening ducks	ITC1	3	2	15	77	PCR test	77
Fattening ducks	ITC4	21	15	57	2,164	PCR test	215
Fattening ducks	ITD3	21	6	64	701	PCR test	75
Fattening ducks	ITD5	8	8	23	1,054	PCR test	110
Fattening geese	ITD3	7	3	39	156	PCR test	19
Fattening geese	ITD5	3	2	20	60	PCR test	6
Duck breeders	ITD5	6	4	20	80	PCR test	7
Duck breeders	ITE2	2	2	10	30	PCR test	30
Geese breeders	ITD3	1	0	0	0	PCR test	0
Geese breeders	ITD5	3	1	10	10	PCR test	1
Geese breeders	ITE2	2	2	13	50	PCR test	50
Fattening geese	ITE2	1	1	10	20	PCR test	20
Fattening geese	ITC4	2	0	0	0	PCR test	0
Duck breeders	ITD3	1	0	0	0	PCR test	0
Backyard Flocks	ITC1	20	20	9	369	PCR test	369
Backyard Flocks	ITC4	16	16	2	57	PCR test	30
Backyard Flocks	ITD3	44	44	16	1,034	PCR test	184
Backyard Flocks	ITD5	14	14	12	328	PCR test	44
Backyard Flocks	ITE4	10	10	4	120	PCR test	120
Guinea Fowls	ITC4	2	2	10	30	ELISA test	30
Guinea Fowls	ITD3	5	3	15	76	ELISA test	76
Quail Breeders	ITD3	8	2	40	360	PCR test	36
Quail Breeders	ITD5	1	1	15	30	PCR test	3
Growers	ITC1	60	42	8	2,039	ELISA test	15
Growers	ITC1	0	0	0	0	HI test for H5	1,860
Growers	ITC1	0	0	0	0	HI test for H7	1,852
Growers	ITC1	0	0	0	0	PCR test	173
Growers	ITC3	2	1	20	220	HI test for H5	219
Growers	ITC3	0	0	0	0	HI test for H7	219
Growers	ITC4	96	73	19	11,930	ELISA test	6,660
Growers	ITC4	0	0	0	0	HI test for H5	7
Growers	ITC4	0	0	0	0	HI test for H7	7
Growers	ITC4	0	0	0	0	PCR test	637
Growers	ITD1	4	4	10	130	ELISA test	90
Growers	ITD1	0	0	0	0	HI test for H5	1
Growers	ITD1	0	0	0	0	HI test for H7	1
Growers	ITD1	0	0	0	0	PCR test	8
Growers	ITD3	117	73	21	5,512	ELISA test	2,270
Growers	ITD3	0	0	0	0	HI test for H5	434
Growers	ITD3	0	0	0	0	HI test for H7	434
Growers	ITD3	0	0	0	0	PCR test	518
Growers	ITD4	15	14	13	650	ELISA test	561
Growers	ITD4	0	0	0	0	HI test for H5	9
Growers	ITD4	0	0	0	0	HI test for H7	9
Growers	ITD4	0	0	0	0	PCR test	39
Growers	ITD5	133	110	24	26,981	ELISA test	12,923
Growers	ITD5	0	0	0	0	HI test for H5	68

Growers	ITD5	0	0	0	0	HI test for H7	68
Growers	ITD5	0	0	0	0	PCR test	1,820
Growers	ITE1	31	21	13	1,280	ELISA test	485
Growers	ITE1	0	0	0	0	HI test for H5	928
Growers	ITE1	0	0	0	0	HI test for H7	928
Growers	ITE1	0	0	0	0	PCR test	38
Growers	ITE2	47	39	12	2,910	ELISA test	2,594
Growers	ITE2	0	0	0	0	HI test for H5	264
Growers	ITE2	0	0	0	0	HI test for H7	264
Growers	ITE2	0	0	0	0	PCR test	80
Growers	ITE3	41	26	9	1,002	ELISA test	844
Growers	ITE3	0	0	0	0	HI test for H5	76
Growers	ITE3	0	0	0	0	HI test for H7	76
Growers	ITE3	0	0	0	0	PCR test	82
Growers	ITE4	27	8	10	497	ELISA test	180
Growers	ITE4	0	0	0	0	HI test for H5	354
Growers	ITE4	0	0	0	0	HI test for H7	354
Growers	ITE4	0	0	0	0	PCR test	15
Growers	ITF1	22	13	12	484	HI test for H5	483
Growers	ITF1	0	0	0	0	HI test for H7	469
Growers	ITF2	3	3	25	280	HI test for H5	280
Growers	ITF2	0	0	0	0	HI test for H7	273
Growers	ITF3	34	23	12	461	HI test for H5	376
Growers	ITF3	0	0	0	0	HI test for H7	376
Growers	ITF3	0	0	0	0	PCR test	85
Growers	ITF4	5	5	20	100	ELISA test	100
Growers	ITF5	1	0	0	0	ELISA test	0
Growers	ITF6	5	1	10	10	HI test for H5	10
Growers	ITF6	0	0	0	0	HI test for H7	10
Growers	ITG1	16	1	13	25	ELISA test	25
Growers	ITG2	4	4	10	91	HI test for H5	91
Growers	ITG2	0	0	0	0	HI test for H7	91
Growers	ITD2	2	2	11	33	ELISA test	28
Growers	ITD2	0	0	0	0	HI test for H5	1
Growers	ITD2	0	0	0	0	HI test for H7	1
Growers	ITD2	0	0	0	0	PCR test	1
<b>Total</b>		2,594	1,959	1,094	98,038	<b>Methods of laboratory analysis</b>	<b>Total number of tests</b>
						<b>Total - ELISA test</b>	51,008
						<b>Total - HI test for H5</b>	18,705
						<b>Total - HI test for H7</b>	18,658
						<b>Total - PCR test</b>	4,892

**Table B - WILD BIRDS : INVESTIGATION ACCORDING TO THE SURVEILLANCE PROGRAMME FOR AVIAN INFLUENZA IN WILD BIRDS SET OUT IN ANNEX II TO DECISION 2010/367/EU**

NUTS 2 Code	Total number of wild birds sampled for passive surveillance	Number of PCR tests done for passive surveillance	Number of virus isolation tests for passive surveillance
ITC1	177	177	0
ITC2	11	11	0
ITC3	7	7	0
ITC4	122	122	0
ITD1	1	1	0

ITD2	26	49	0
ITD3	218	576	0
ITD4	128	146	0
ITD5	627	630	1
ITE1	13	18	0
ITE2	1	1	0
ITE3	1	1	0
ITE4	3	5	0
ITF1	11	28	0
ITF3	249	664	1
ITF4	2	8	0
ITF5	3	9	0
ITG1	72	212	0
ITG2	26	63	0
<b>Total</b>	<b>1,698</b>	<b>2,728</b>	<b>2</b>

**Table C - POULTRY AND WILD BIRDS : NUMBER OF OUTBREAKS OF AVIAN INFLUENZA DETECTED DURING THE YEAR**

	Domestic birds	Wild birds
Nr of HPAI outbreaks	0	0
Nr of LPAI outbreaks	1	0

#### COMMENT / ADDITIONAL CLARIFICATION

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