

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.

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Country code: CZ

Reporting period

From: 2017

To: 2019

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.

The Avian influenza surveillance programme in the Czech Republic is in accordance with EU legislation.

The competent authority responsible for the programme is the State Veterinary Administration of the Czech Republic. Implementation of the programme is performed by Regional Veterinary Administrations. The programme is implemented in all 14 regions (NUTS 3) in the Czech Republic. Generally, the programme is applied on the whole territory of the Czech Republic. Programme is implemented on the regional level and Regional Veterinary Administrations are in charge for performing of the programme.

Sampling is done by official veterinarians and private veterinarians in holdings where they regularly take care for poultry.

Samples are tested only in laboratories of the State Veterinary Institutes under the supervision of the State Veterinary Administration. The external agencies or laboratories are not involved in the programme.

The Czech Republic is out of the main migratory flight paths of birds from central and eastern Asia, the Caspian Sea and the Black sea areas. Due to this reason and according to the epidemiological and ornithological data we have not identified any region at higher risk for the introduction of AI. We identified

only areas with high density of poultry which is kept an open air holdings close to water areas.

The programme is applied since 1 October 2005.

We confirm that sampling in programme is in accordance with sampling requirements laid down in Commission Decision 2005/726/EC as amended.

The official veterinary supervision of farms and official sampling is carried out only by official veterinary inspectors at the level of Regional Veterinary Administration. Regarding biosecurity standards on poultry farms, the competent authority carries out official checks in accordance with the multi-annual national control plan based on risk analysis.

Laboratory testing:

The laboratory testing is in accordance with requirements laid down in Commission Decision 2010/367/EC and Commission Decision 2006/437/EC.

ELISA test for initial screening and HI test for confirmation have been used in sampled poultry holdings - ELISA test (group antigen), HI test (typing with H5 and H7 subtypes of antigen).

For ELISA test has been used INFLUENZA A Virus Antibody TEST Kit (fy. Idexx).

In the case of positive reaction, typing by HI test is performed (typing with H subtypes of antigen). For HI test are used antigens provided by CRL in Weybridge.

Confirmation of all positive serological result by HI test with antigens:

H5 a) initial test using teal/England/7894/06 (H5N3)

b) test all positives with chicken/Scotland/59 (H5N1) to eliminate N3 cross reactive antibodies,

H7 a) initial test using Turkey/England/647/77 (H7N7)

b) test all positives with African Starling/983/79 (H7N1) to eliminate N7 cross reactive antibodies.

Since June 2015 has been included the H5N8 antigen in the routine panel of strains tested for ducks and geese. The H5N5 antigen has been included in the routine panel of strains tested for ducks and geese.

The strains are supplied at request by the CRL.

The HI test number in 2018:

- typing with H5N3 subtype of antigen - 1,
- typing with H5N1 subtype of antigen - 0,
- typing with H7N7 subtype of antigen - 189,
- typing with H5N8 subtype of antigen - 150,
- typing with H5N5 subtype of antigen - 57.

ELISA test confirmed antibodies against avian influenza in 19 cases. HI tests against H5 or H7 confirmed in 16 cases with negative results and in 3 cases with positive results. Positive results was connected with antibodies against H5 in all 3 cases. After this founding followed sampling and virological testing. The result was evaluated negative in all 3 cases.

Epidemiological situation:

In 2018 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry and wild birds. The antibodies against avian influenza subtype H5 were confirmed on two holdings (two poultry categories). In all cases the antibodies were detected in samples taken in the framework of the national avian influenza surveillance programme. An epidemiological investigation and sampling for testing by virological methods was performed on all poultry holdings. Virological examination excluded the presence of the virus. In the framework of wild bird passive surveillance has been tested in total 94 wild birds found dead with negative result.

On 4 January 2017, a sample tested from back-yard poultry holding in Southern Moravian Region with a positive result for avian influenza H5. On 5 January 2017 the Czech Republic's National Reference Laboratory for avian influenza confirmed the first HPAI H5N8 outbreak in the Czech Republic after 10 years without detection of virus circulation (the last HPAI outbreak was detected in poultry in 2007). From 5th January to 22nd March 2017 in total 39 HPAI outbreaks were detected on the territory of the Czech Republic in 11 out of 14 regions, please find map and table in the attachment. In total 33 HPAI H5N8 outbreaks were detected in back-yard flocks, 5 HPAI H5N8 outbreaks were detected in commercial farms and 1 HPAI H5N5 outbreak was detected in captive birds in Zoological garden. The virus of highly

pathogenic avian influenza was also found in 51 wild birds (40 swans, 7 ducks, 2 herons and 2 geese). All measures taken by the State Veterinary Administration were in accordance with the EU legislation. Protection and surveillance zone were established for all outbreaks in poultry flocks. Currently on the territory of the Czech Republic are no active outbreaks and no established restricted zones.

In 2016 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry and wild birds. The antibodies against avian influenza subtype H5 were confirmed on five holdings (four poultry categories). In all cases the antibodies were detected in samples taken in the framework of the national avian influenza surveillance programme. An epidemiological investigation and sampling for testing by virological methods was performed on all poultry holdings. Virological examination excluded the presence of the virus. In the framework of wild bird passive surveillance has been tested in total 89 wild birds found dead with negative result.

In 2015 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry and wild birds. In the framework of wild bird passive surveillance has been tested in total 60 wild birds found dead with negative result.

In 2014 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry and wild birds. In the framework of wild bird passive surveillance has been tested in total 71 wild birds found dead with negative result.

In 2013 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry and wild birds. In the framework of wild bird passive surveillance has been tested in total 76 wild birds found dead with negative result.

In 2012 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry. One breeder geese holding was serology positive for subtype H5. PCR test was negative. In the framework of wild bird passive surveillance has been tested in total 102 wild birds found dead. There was 1 wild bird (mallard) found dead positive tested for virus AI. There was detected LPAI H4N6.

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

The objectives of the surveillance programmes for avian influenza in poultry and wild birds are in compliance with Commission decision 2010/367/EU.

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.

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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
Laying Hens	CZ 020	14	4	10	40	ELISA test	40
Laying Hens	CZ 031	7	5	10	50	ELISA test	50
Laying Hens	CZ 032	3	1	10	10	ELISA test	10
Laying Hens	CZ 041	2	1	10	10	ELISA test	10
Laying Hens	CZ 042	10	3	10	30	ELISA test	30
Laying Hens	CZ 051	1	1	10	10	ELISA test	10
Laying Hens	CZ 052	16	4	10	40	ELISA test	40
Laying Hens	CZ 053	20	9	10	90	ELISA test	90

Laying Hens	CZ 061	4	4	10	40	ELISA test	40
Laying Hens	CZ 062	19	9	10	90	ELISA test	90
Laying Hens	CZ 071	5	3	10	30	ELISA test	30
Laying Hens	CZ 072	8	3	10	30	ELISA test	30
Laying Hens	CZ 080	22	7	10	70	ELISA test	70
Free Range Laying Hens	CZ 020	3	3	10	30	ELISA test	30
Free Range Laying Hens	CZ 031	2	2	10	20	ELISA test	20
Free Range Laying Hens	CZ 032	2	2	10	20	ELISA test	20
Free Range Laying Hens	CZ 052	2	2	10	20	ELISA test	20
Free Range Laying Hens	CZ 053	1	1	10	10	ELISA test	10
Free Range Laying Hens	CZ 061	1	1	10	10	ELISA test	10
Free Range Laying Hens	CZ 062	4	4	10	40	ELISA test	40
Free Range Laying Hens	CZ 072	3	3	10	30	ELISA test	30
Free Range Laying Hens	CZ 080	1	1	10	10	ELISA test	10
Duck breeders	CZ 020	7	7	20	140	ELISA test	140
Duck breeders	CZ 031	1	1	20	20	ELISA test	20
Duck breeders	CZ 052	13	13	20	260	ELISA test	260
Duck breeders	CZ 053	3	3	20	60	ELISA test	60
Duck breeders	CZ 062	1	1	20	20	ELISA test	20
Geese breeders	CZ 031	4	4	20	80	ELISA test	80
Geese breeders	CZ 032	1	1	20	20	ELISA test	20
Geese breeders	CZ 061	1	1	20	20	ELISA test	20
Geese breeders	CZ 062	2	2	20	40	ELISA test	40
Geese breeders	CZ 071	1	1	20	20	ELISA test	20
Farmed game birds (waterfowl)	CZ 031	7	7	20	140	ELISA test	140
Farmed game birds (waterfowl)	CZ 032	3	3	20	60	ELISA test	60
Farmed game birds (waterfowl)	CZ 062	1	1	20	20	ELISA test	20
Farmed game birds (waterfowl)	CZ 071	1	1	20	20	ELISA test	20
Farmed game birds (gallinaceous)	CZ 031	6	6	10	60	ELISA test	60
Farmed game birds (gallinaceous)	CZ 032	10	10	10	100	ELISA test	100
Farmed game birds (gallinaceous)	CZ 052	9	9	10	90	ELISA test	90
Farmed game birds (gallinaceous)	CZ 053	3	3	10	30	ELISA test	30
Farmed game birds (gallinaceous)	CZ 071	3	3	10	30	ELISA test	30
Farmed game birds (gallinaceous)	CZ 072	5	5	10	50	ELISA test	50
Fattening Turkeys	CZ 020	10	8	10	80	ELISA test	80
Fattening Turkeys	CZ 031	4	4	10	40	ELISA test	40
Fattening Turkeys	CZ 032	11	8	10	80	ELISA test	80
Fattening Turkeys	CZ 041	2	2	10	20	ELISA test	20
Fattening Turkeys	CZ 051	1	1	10	10	ELISA test	10
Fattening Turkeys	CZ 052	3	1	10	10	ELISA test	10
Fattening Turkeys	CZ 053	7	6	10	60	ELISA test	60
Fattening Turkeys	CZ 061	3	3	10	30	ELISA test	30
Fattening Turkeys	CZ 062	5	5	10	50	ELISA test	50
Fattening Turkeys	CZ 071	5	3	10	30	ELISA test	30
Fattening Turkeys	CZ 072	3	1	10	10	ELISA test	10
Fattening Turkeys	CZ 080	4	2	10	20	ELISA test	20

Fattening ducks	CZ 020	10	10	20	200	ELISA test	200
Fattening ducks	CZ 031	31	31	20	620	ELISA test	620
Fattening ducks	CZ 032	1	1	20	20	ELISA test	20
Fattening ducks	CZ 042	5	5	20	100	ELISA test	100
Fattening ducks	CZ 052	3	3	20	60	ELISA test	60
Fattening ducks	CZ 053	5	5	20	100	ELISA test	100
Fattening ducks	CZ 061	8	8	20	160	ELISA test	160
Fattening ducks	CZ 062	1	1	20	20	ELISA test	20
Fattening ducks	CZ 071	1	1	20	20	ELISA test	20
Fattening geese	CZ 020	1	1	20	20	ELISA test	20
Fattening geese	CZ 031	2	2	20	40	ELISA test	40
Fattening geese	CZ 032	1	1	20	20	ELISA test	20
Fattening geese	CZ 053	1	1	20	20	ELISA test	20
Fattening geese	CZ 061	3	3	20	60	ELISA test	60
Fattening geese	CZ 071	4	4	20	80	ELISA test	80
Fattening geese	CZ 072	4	4	20	80	ELISA test	80
Fattening geese	CZ 080	1	1	20	20	ELISA test	20
Duck breeders	CZ 020	7	7	20	140	HI test for H5	4
Duck breeders	CZ 020	7	7	20	140	HI test for H7	2
Geese breeders	CZ 031	4	4	20	80	HI test for H5	22
Geese breeders	CZ 062	2	2	20	40	HI test for H5	30
Geese breeders	CZ 031	4	4	20	80	HI test for H7	20
Geese breeders	CZ 062	2	2	20	40	HI test for H7	30
Farmed game birds (waterfowl)	CZ 031	7	7	20	140	HI test for H5	56
Farmed game birds (waterfowl)	CZ 032	3	3	20	60	HI test for H5	51
Farmed game birds (waterfowl)	CZ 062	1	1	20	20	HI test for H5	19
Farmed game birds (waterfowl)	CZ 071	1	1	20	20	HI test for H5	20
Farmed game birds (waterfowl)	CZ 031	7	7	20	140	HI test for H7	56
Farmed game birds (waterfowl)	CZ 032	3	3	20	60	HI test for H7	36
Farmed game birds (waterfowl)	CZ 062	1	1	20	20	HI test for H7	19
Farmed game birds (waterfowl)	CZ 071	1	1	20	20	HI test for H7	20
Farmed game birds (gallinaceous)	CZ 032	10	10	10	100	HI test for H5	1
Farmed game birds (gallinaceous)	CZ 032	10	10	10	100	HI test for H7	1
Fattening ducks	CZ 020	10	10	20	200	HI test for H5	2
Fattening ducks	CZ 031	31	31	20	620	HI test for H5	3
Fattening ducks	CZ 020	10	10	20	200	HI test for H7	2
Fattening ducks	CZ 031	31	31	20	620	HI test for H7	3
Geese breeders	CZ 062	2	2	20	40	PCR test	80
Farmed game birds (waterfowl)	CZ 062	1	1	20	20	PCR test	40
Total		527	436	1,440	6,990	Methods of laboratory analysis	Total number of tests
						Total - ELISA test	4,090
						Total - HI test for H5	208
						Total - HI test for H7	189
						Total - PCR test	120

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
CZ 010	3	2	0
CZ 020	17	8	0
CZ 031	5	4	0
CZ 032	5	2	0
CZ 041	6	6	0
CZ 042	9	4	0
CZ 051	2	2	0
CZ 052	2	2	0
CZ 053	6	5	0
CZ 061	7	7	0
CZ 062	6	5	0
CZ 071	20	8	0
CZ 080	6	2	0
Total	94	57	0

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	0	0

COMMENT / ADDITIONAL CLARIFICATION

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