

About this dossier

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Eradication: Final report for Avian Influenza 2019

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).

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ID: 20200417-FEDE4D7P

Country code: CZ

Reporting period

From: 2019

To: 2019

Year of implementation: 2019

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.

No major migratory flight paths of birds are recognized in the Czech Republic. There are recognized only several minor flight paths of birds from north to south.

Due to this reason and according to the epidemiological and ornithological data the Czech Republic has not

identified any high risk area for the introduction of AI.

The Czech Republic has identified „areas at risk“ with high density of poultry farming and landscape with more water bodies (ponds, rivers, dams, lakes), i.e. regions:

- Southern Moravian region
- Southern Bohemian region
- Pardubice region

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 are 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 2019:

- typing with H5N1 subtype of antigen - 0,
- typing with H5N3 subtype of antigen - 24,
- typing with H5N5 subtype of antigen - 29
- typing with H5N8 subtype of antigen - 102,
- typing with H7N1 subtype of antigen - 0,
- typing with H7N7 subtype of antigen - 148.

ELISA test confirmed antibodies against avian influenza in 22 cases in 2019. HI tests against H5 or H7 confirmed in all 22 cases with negative results.

Epidemiological situation:

In 2019 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 104 wild birds found dead with negative result.

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 poultry 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. 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.

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.

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 | 15 | 6 | 10 | 60 | ELISA test | 60 |
| Laying hens | CZ 031 | 7 | 5 | 10 | 50 | ELISA test | 50 |

| | | | | | | | |
|------------------------|--------|----|----|----|-----|------------|-----|
| Laying hens | CZ 032 | 4 | 1 | 10 | 10 | ELISA test | 10 |
| Laying hens | CZ 041 | 1 | 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 | 6 | 3 | 10 | 30 | ELISA test | 30 |
| Laying hens | CZ 062 | 19 | 10 | 10 | 100 | ELISA test | 100 |
| Laying hens | CZ 071 | 5 | 2 | 10 | 20 | ELISA test | 20 |
| Laying hens | CZ 072 | 8 | 3 | 10 | 30 | ELISA test | 30 |
| Laying hens | CZ 080 | 20 | 8 | 10 | 80 | ELISA test | 80 |
| Free range laying hens | CZ 020 | 5 | 5 | 10 | 50 | ELISA test | 50 |
| 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 | 3 | 3 | 10 | 30 | ELISA test | 30 |
| 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 | 3 | 3 | 10 | 30 | ELISA test | 30 |
| Free range laying hens | CZ 072 | 3 | 3 | 10 | 30 | ELISA test | 30 |
| Free range laying hens | CZ 080 | 2 | 2 | 10 | 20 | ELISA test | 20 |
| Duck breeders | CZ 020 | 6 | 6 | 20 | 120 | ELISA test | 120 |
| Duck breeders | CZ 031 | 2 | 2 | 20 | 40 | ELISA test | 40 |
| 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 |
| Fattening turkeys | CZ 020 | 11 | 6 | 10 | 60 | ELISA test | 60 |
| Fattening turkeys | CZ 031 | 4 | 4 | 10 | 40 | ELISA test | 40 |
| Fattening turkeys | CZ 032 | 12 | 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 | 2 | 10 | 20 | ELISA test | 20 |
| Fattening turkeys | CZ 053 | 5 | 5 | 10 | 50 | ELISA test | 50 |
| Fattening turkeys | CZ 061 | 3 | 3 | 10 | 30 | ELISA test | 30 |
| Fattening turkeys | CZ 062 | 6 | 5 | 10 | 50 | ELISA test | 50 |
| Fattening turkeys | CZ 071 | 5 | 4 | 10 | 40 | ELISA test | 40 |
| 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 | 14 | 14 | 20 | 280 | ELISA test | 280 |
| Fattening ducks | CZ 031 | 26 | 26 | 20 | 520 | ELISA test | 520 |
| Fattening ducks | CZ 032 | 1 | 1 | 20 | 20 | ELISA test | 20 |
| Fattening ducks | CZ 042 | 3 | 3 | 20 | 60 | ELISA test | 60 |
| Fattening ducks | CZ 052 | 1 | 1 | 20 | 20 | ELISA test | 20 |
| Fattening ducks | CZ 053 | 5 | 5 | 20 | 100 | ELISA test | 100 |
| Fattening ducks | CZ 061 | 7 | 7 | 20 | 140 | ELISA test | 140 |
| 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 | 2 | 2 | 20 | 40 | ELISA test | 40 |
| Fattening geese | CZ 031 | 1 | 1 | 20 | 20 | ELISA test | 20 |
| 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 | 1 | 1 | 20 | 20 | ELISA test | 20 |
| Fattening geese | CZ 072 | 4 | 4 | 20 | 80 | ELISA test | 80 |
| Fattening geese | CZ 080 | 1 | 1 | 20 | 20 | ELISA test | 20 |
| Farmed game birds (waterfowl) | CZ 031 | 5 | 5 | 20 | 100 | ELISA test | 100 |
| 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 |
| Laying hens | CZ 072 | 8 | 3 | 10 | 30 | HI test for H5 | 5 |
| Laying hens | CZ 072 | 8 | 3 | 10 | 30 | HI test for H7 | 5 |
| Free range laying hens | CZ 031 | 2 | 2 | 10 | 20 | HI test for H5 | 6 |
| Free range laying hens | CZ 032 | 2 | 2 | 10 | 20 | HI test for H5 | 3 |
| Free range laying hens | CZ 072 | 3 | 3 | 10 | 30 | HI test for H5 | 1 |
| Free range laying hens | CZ 031 | 2 | 2 | 10 | 20 | HI test for H7 | 6 |
| Free range laying hens | CZ 032 | 2 | 2 | 10 | 20 | HI test for H7 | 3 |
| Free range laying hens | CZ 072 | 3 | 3 | 10 | 30 | HI test for H7 | 1 |
| Geese breeders | CZ 062 | 2 | 2 | 20 | 40 | HI test for H5 | 5 |
| Geese breeders | CZ 062 | 2 | 2 | 20 | 40 | HI test for H7 | 5 |
| Fattening ducks | CZ 020 | 14 | 14 | 20 | 280 | HI test for H5 | 1 |
| Fattening ducks | CZ 031 | 26 | 26 | 20 | 520 | HI test for H5 | 12 |
| Fattening ducks | CZ 053 | 5 | 5 | 20 | 100 | HI test for H5 | 3 |
| Fattening ducks | CZ 020 | 14 | 14 | 20 | 280 | HI test for H7 | 1 |
| Fattening ducks | CZ 031 | 26 | 26 | 20 | 520 | HI test for H7 | 12 |
| Fattening ducks | CZ 053 | 5 | 5 | 20 | 100 | HI test for H7 | 3 |
| Farmed game birds (waterfowl) | CZ 031 | 5 | 5 | 20 | 100 | HI test for H5 | 59 |
| Farmed game birds (waterfowl) | CZ 032 | 3 | 3 | 20 | 60 | HI test for H5 | 34 |
| Farmed game birds (waterfowl) | CZ 062 | 1 | 1 | 20 | 20 | HI test for H5 | 15 |
| Farmed game birds (waterfowl) | CZ 071 | 1 | 1 | 20 | 20 | HI test for H5 | 2 |
| Farmed game birds (waterfowl) | CZ 031 | 5 | 5 | 20 | 100 | HI test for H7 | 55 |
| Farmed game birds (waterfowl) | CZ 032 | 3 | 3 | 20 | 60 | HI test for H7 | 31 |
| Farmed game birds (waterfowl) | CZ 062 | 1 | 1 | 20 | 20 | HI test for H7 | 15 |

| | | | | | | | |
|----------------------------------|--------|-----|-----|-------|-------|---------------------------------------|------------------------------|
| Farmed game birds (waterfowl) | CZ 071 | 1 | 1 | 20 | 20 | HI test for H7 | 2 |
| Farmed game birds (gallinaceous) | CZ 032 | 10 | 10 | 10 | 100 | HI test for H5 | 7 |
| Farmed game birds (gallinaceous) | CZ 053 | 3 | 3 | 10 | 30 | HI test for H5 | 1 |
| Farmed game birds (gallinaceous) | CZ 071 | 3 | 3 | 10 | 30 | HI test for H5 | 1 |
| Farmed game birds (gallinaceous) | CZ 032 | 10 | 10 | 10 | 100 | HI test for H7 | 7 |
| Farmed game birds (gallinaceous) | CZ 053 | 3 | 3 | 10 | 30 | HI test for H7 | 1 |
| Farmed game birds (gallinaceous) | CZ 071 | 3 | 3 | 10 | 30 | HI test for H7 | 1 |
| Total | | 542 | 440 | 1,480 | 6,710 | Methods of laboratory analysis | Total number of tests |
| | | | | | | Total - ELISA test | 3,910 |
| | | | | | | Total - HI test for H5 | 155 |
| | | | | | | Total - HI test for H7 | 148 |

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 | 12 | 4 | 0 |
| CZ 020 | 13 | 7 | 0 |
| CZ 031 | 24 | 7 | 0 |
| CZ 032 | 8 | 3 | 0 |
| CZ 041 | 3 | 3 | 0 |
| CZ 052 | 5 | 5 | 0 |
| CZ 061 | 17 | 3 | 0 |
| CZ 062 | 10 | 7 | 0 |
| CZ 071 | 7 | 4 | 0 |
| CZ 072 | 5 | 2 | 0 |
| Total | 104 | 45 | 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