



EUROPEAN COMMISSION
HEALTH AND CONSUMERS DIRECTORATE-GENERAL

Director General

SANCO/10254/2013

*Programmes for the eradication, control and monitoring of certain
animal diseases and zoonoses*

Survey programme for Avian Influenza

Czech Republic

Approved* for 2013 by Commission Decision 2012/761/EU

* in accordance with Council Decision 2009/470/EC

Standard requirements for the submission of surveillance programmes for avian influenza

version : 2.2

1. Identification of the programme

Member state : CESKA REPUBLIKA

Disease : avian influenza in poultry and wild birds

Request of Community co-financing from beginning of :

to end of

1.1 Contact

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2. Description and implementation of the surveillance programme in poultry

2.1.1 Designation of the central authority in charge of supervising and coordinating the departments responsible for implementing the programme

(max. 32000 chars) :

The central authority responsible for the programme is the Central Veterinary Administration, Department of Animal Health and Welfare. The plan with the number of sampled holdings in each category of poultry in every region is made by the Central Veterinary Administration. Implementation of the programme is performed by Regional Veterinary Administrations (RVA). The particular tested holdings are chosen by RVA. The samples are taken by veterinary officer or by private veterinarian who provides veterinary care regularly in the tested holding. The private veterinarian have to make a contract with RVA. Only three laboratories are involved into the programme. These laboratories are State Veterinary Institute in Prague (National Reference Laboratory for Avian Influenza), State Veterinary

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Institute in Jihlava and State Veterinary Institute in Olomouc. They are under supervision of the Central Veterinary Administration. In the programme, the external agencies or laboratories are not involved.

2.1.2 System in place for the registration of holdings

(max. 32000 chars) :

Holdings in the Czech Republic are registered in the Database of Farms in accordance to the provisions of the law No. 154/2000, Breeding Act and corresponding Decree No. 136/2004 laying down details for identification of animals and their registration and registration of holdings and person established by Breeding Act.

Each holding where a flock is kept of more than 100 head of poultry produced hatching eggs and laying hens (*Gallus gallus*) produced table eggs which are marketed too and each holding where a flock is kept of more than 500 head of poultry shall be assigned, by the entrusted person, by a registration number of the holding, and all farmers' records shall be kept in accordance with Breeding Act and Decree No 136/2004, as amended.

2.1.3 Design (risk based or surveillance based on representative sampling)

(max. 32000 chars) :

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. There are identified only areas with high density of poultry which is kept in an open air holdings close to water areas in the Czech Republic. For these reasons, the Czech Republic does not carry out risk based surveillance for surveillance for avian influenza. Surveillance based on a representative sampling scheme is implemented in the Czech Republic. Generally, the programme is applied on the whole territory of the Czech Republic, so that samples are considered as representative for the whole of the Czech Republic. The programme is implemented in all 14 regions in the Czech Republic. All regions are divided into the smaller areas which are named as districts. Programme is implemented on the regional level and Regional Veterinary Administrations (RVA) are in charge for performing of the programme.

2.1.3.1 Short description of predominant poultry population and types of poultry production

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(max. 32000 chars) :

Holdings where the fattening broilers flocks of Gallus gallus and laying hens (Gallus gallus) produced table eggs are kept represent the main type of poultry production in the Czech Republic. There is seasonal production of the fattening turkeys before Christmas and Easter and small numbers of holdings with fattening ducks and geese. Table eggs are produced in relatively large amount in backyard flocks, especially in the country.

2.1.3.2 Criteria and risk factors for risk based surveillance(1)

(max. 32000 chars) :

The Czech Republic does not carry out risk based surveillance method for surveillance for avian influenza. Surveillance based on a representative sampling scheme is implemented in the Czech Republic.

(1) Including maps showing target sampling sites identified as being particularly at risk for the introduction of avian influenza virus, taking into account criteria set out in point 4 of Annex I to Commission Decision 2010/367/EC.

2.2 Target populations (2)

(max. 32000 chars) :

The surveillance programme for avian influenza in poultry will be included these categories:

- (a) laying hens;
- (b) free range laying hens;
- (c) turkey breeders;
- (d) duck breeders;
- (e) geese breeders;
- (f) fattening turkeys;
- (g) fattening ducks;
- (h) fattening geese;
- (i) farmed game birds (gallinaceous) ;
- (j) farmed game birds (waterfowl);

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(2) including MS specific exceptional circumstances as described in Annex I point 3 of Commission Decision 2010/367/EU)

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2.2.1 POULTRY HOLDINGS (a) (except ducks, geese and farmed game birds (waterfowl e.g. mallards) to be sampled

Serological investigation according to Annex I to Commission Decision 2010/367/EU

Category : laying hens

delete this category

NUTS (2) (b)	Total number of holdings(c)	Total number of holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis	
CZ 021 Central Bohemia	14	4	10	40	ELISA test	X
CZ 031 South Bohemia	6	5	10	50	ELISA test	X
CZ 032 Plzeň	2	1	10	10	ELISA test	X
CZ 041 Karlovy Vary	1	1	10	10	ELISA test	X
CZ 042 Ústí nad Labem	9	3	10	30	ELISA test	X
CZ 051 Liberec	1	1	10	10	ELISA test	X
CZ 052 Hradec Králové	12	4	10	40	ELISA test	X

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CZ 053 Pardubice	21	9	10	90	ELISA test	X
CZ 061 Vysočina	8	3	10	30	ELISA test	X
CZ 062 South Moravia	18	9	10	90	ELISA test	X
CZ 071 Olomouc	11	3	10	30	ELISA test	X
CZ 072 Zlín	9	3	10	30	ELISA test	X
CZ 081 Moravia-Silesian	22	7	10	70	ELISA test	X
Total	134	53	130	530		

Add a new row

(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (Nomenclature of Territorial Units for Statistics) can not be used, region as defined in the programme by the Member States is requested

(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.

Category : free range laying hens

delete this category

NUTS (2) (b)	Total number of holdings(c)	Total number of holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis
CZ 031 South Bohemia	1	1	10	10	ELISA test

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CZ 032 Plzeň	1	1	10	10	10	ELISA test	X
CZ 053 Pardubice	1	1	10	10	10	ELISA test	X
CZ 072 Zlín	1	1	10	10	10	ELISA test	X
CZ 081 Moravia-Silesian	2	2	10	10	20	ELISA test	X
Total	6	6	50	60			
Add a new row							

(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (Nomenclature of Territorial Units for Statistics) can not be used, region as defined in the programme by the Member States is requested

(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.

Category : turkey breeders

delete this category

NUTS (2) (b)	Total number of holdings(c)	Total number of holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis
CZ 032 Plzeň	1	1	10	10	ELISA test
Total	1	1	10	10	
Add a new row					

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(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (Nomenclature of Territorial Units for Statistics) can not be used, region as defined in the programme by the Member States is requested

(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.

Category : fattening turkeys

delete this category

NUTS (2) (b)	Total number of holdings(c)	Total number of holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis	
CZ 021 Central Bohemia	7	5	10	50	ELISA test	X
CZ 031 South Bohemia	2	2	10	20	ELISA test	X
CZ 032 Píseň	6	6	10	60	ELISA test	X
CZ 041 Karlovy Vary	4	3	10	30	ELISA test	X
CZ 051 Liberec	1	1	10	10	ELISA test	X
CZ 052 Hradec Králové	1	1	10	10	ELISA test	X
CZ 053 Pardubice	6	4	10	40	ELISA test	X
CZ 061 Vysočina	5	4	10	40	ELISA test	X
CZ 062 South Moravia	11	6	10	60	ELISA test	X
CZ 072 Zlín	1	1	10	10	ELISA test	X

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CZ 081 Moravia-Silesia	3	2	10	20	ELISA test	X
Total	47	35	110	350		
Add a new row						

(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (Nomenclature of Territorial Units for Statistics) can not be used, region as defined in the programme by the Member States is requested

(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.

Category : farmed game birds (gallinaceous)

delete this category

NUTS (2) (b)	Total number of holdings(c)	Total number of holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis	
CZ 021 Central Bohemia	2	2	10	20	ELISA test	X
CZ 031 South Bohemia	6	6	10	60	ELISA test	X
CZ 032 Plzeň	3	3	10	30	ELISA test	X
CZ 052 Hradec Králové	9	9	10	90	ELISA test	X
CZ 053 Pardubice	2	2	10	20	ELISA test	X
CZ 071 Olomouc	3	3	10	30	ELISA test	X

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CZ 072 Zlín	4	4	10	40	ELISA test	X
CZ 081 Moravia-Silesian	1	1	10	10	ELISA test	X
Total	30	30	80	300		
Add a new row						

(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (Nomenclature of Territorial Units for Statistics) can not be used, region as defined in the programme by the Member States is requested

(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.

Add a category

Total Poultry	218	125	380	1 250		

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2.2.2 DUCKS, GEESE AND FARMED GAME BIRDS (WATERFOWL e.g. MALLARD) HOLDINGS (a) to be sampled.

Serological investigation according to Annex I to Commission Decision 2010/367/EU

Category : duck breeders

delete this category

NUJS (2) (b)	Total number of duck and geese holdings	Total number of duck and geese holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis	
CZ 021 Central Bohemia	2	2	20	40	ELISA test	X
CZ 031 South Bohemia	4	4	20	80	ELISA test	X
CZ 052 Hradec Králové	9	9	20	180	ELISA test	X
CZ 053 Pardubice	1	1	20	20	ELISA test	X
CZ 061 Vysočina	1	1	20	20	ELISA test	X
CZ 062 South Moravia	1	1	20	20	ELISA test	X
Total	18	18	120	360		

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Add a new row

(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (2) code can not be used, region as defined in the programme by the Member State is requested

Category : fattening ducks

delete this category

NUTS (2) (b)	Total number of duck and geese holdings	Total number of duck and geese holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis
CZ 021 Central Bohemia	2	2	20	40	ELISA test
CZ 031 South Bohemia	10	10	20	200	ELISA test
CZ 032 Píseň	3	3	20	60	ELISA test
CZ 052 Hradec Králové	1	1	20	20	ELISA test
CZ 053 Pardubice	5	5	20	100	ELISA test
Total	21	21	100	420	

Add a new row

(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (2) code can not be used, region as defined in the programme by the Member State is requested

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Category : geese breeders

delete this category

NUTS (2) (b)	Total number of duck and geese holdings	Total number of duck and geese holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis
CZ 031 South Bohemia	4	4	20	80	ELISA test
CZ 061 Vysocina	1	1	20	20	ELISA test
CZ 062 South Moravia	1	1	20	20	ELISA test
CZ 071 Olomouc	1	1	20	20	ELISA test
Total	7	7	80	140	

Add a new row

(a) Holdings or herds or flocks or establishments as appropriate.

(b) Refers to the location of the holding of origin. In case NUTS (2) code can not be used, region as defined in the programme by the Member State is requested

Category : fattening geese

delete this category

NUTS (2) (b)	Total number of duck and geese holdings	Total number of duck and geese holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis
CZ 031 South Bohemia	2	2	20	40	ELISA test

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CZ 061 Vysočina	1	1	20	20	ELISA test	X
CZ 081 Moravia-Silesian	1	1	20	20	ELISA test	X
Total	4	4	60	80		
Add a new row						

(a) *Holdings or herds or flocks or establishments as appropriate.*

(b) *Refers to the location of the holding of origin. In case NUTS (2) code can not be used, region as defined in the programme by the Member State is requested*

Category : farmed game (waterfowl e.g. mallards)

delete this category

NUTS (2) (b)	Total number of duck and geese holdings	Total number of duck and geese holdings to be sampled	Number of samples per holding	Total number of tests	Method of laboratory analysis	
CZ 031 South Bohemia	9	9	20	180	ELISA test	X
CZ 032 Plzeň	2	2	20	40	ELISA test	X
CZ 062 South Moravia	1	1	20	20	ELISA test	X
CZ 071 Olomouc	1	1	20	20	ELISA test	X
CZ 081 Moravia-Silesian	1	1	20	20	ELISA test	X
Total	14	14	100	280		

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Add a new row

- (a) Holdings or herds or flocks or establishments as appropriate.
 (b) Refers to the location of the holding of origin. In case NUTS (2) code can not be used, region as defined in the programme by the Member State is requested

Add a category

Total Ducks and geese	64	64	460	1 280			

Grand Total Poultry + Ducks/Geese	282	189	840	2 530			

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2.3 Sampling procedures, sampling periods and frequency of testing

(max. 32000 chars):

Blood samples for serological examination will be collected from laying hens, free range laying hens, turkey breeders, duck breeders, geese breeders, fattening turkeys, fattening ducks, fattening geese, farmed game birds waterfowl and gallinaceous. The blood samples for serological testing will be taken in the holdings. When the poultry will be dispatched for slaughtering abroad, the samples will be taken in the holding before dispatch.

Samples from 10 birds (except ducks, geese and farmed game birds waterfowl) will be taken in each tested holding and from the different sheds, if more than one shed will present on a holding.

In ducks, geese and farmed game birds waterfowl holdings will be sampled 20 birds from the different sheds, if more than one shed will be present on a holding.

Birds in the poultry holdings will be sampled continuously during all year 2013. The time period for sampling in the poultry holding coincide with seasonal production for each poultry production category. Seasonal production is the most distinctive by fattening turkeys, ducks and geese, usually before Christmas and Easter. However, where appropriate, sampling will be adapted to other identified periods. The sampling of all poultry categories will be carried out once during 2013.

2.4. Laboratory testing : description of the laboratory tests used and follow up investigations

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Description of the used serological tests : (max 32000 chars)

Laboratory tests will be carried out in accordance with the avian influenza diagnostic manual (Commission Decision 2006/437/EC) laying down the procedures for the confirmation and differential diagnosis of avian influenza.

ELISA test for initial screening and HIT for confirmation will be used in sampled poultry holdings.

Tests

Laying hens, free range laying hens and turkeys (both breeders and fattening)

ELISA test (group antigen), HI test (typing with H5 and H7 subtypes of antigen).

For ELISA test will be used AVIAN INFLUENZA ANTIBODY TEST Kit produced by IDEXX laboratories (US).

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

Ducks and geese (both breeders and fattening), farmed game birds waterfowl

ELISA test (group antigen), HI test (typing with H5 and H7 subtypes of antigen).

For ELISA test has been used AVIAN INFLUENZA VIRUS ANTIBODY TEST Kit, ELISA (Multi-Screen) produced by IDEXX laboratories (US).

In the case of positive reaction, typing by HI test would be performed (typing with H subtypes of antigen).

All positive serological findings shall be confirmed by the NRL at SVI Prague for avian influenza by a haemagglutination-inhibition test, using designated strains supplied by the Community Reference Laboratory for Avian Influenza:

H5

(a) Initial test using teal/England/7894/06 (H5N3)

(b) Test all positives with chicken/Scotland/59 (H5N1) to eliminate N3 cross reactive antibody.

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 antibody.

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Testing of samples will be carried out in the National Reference Laboratory (NRL) in the State Veterinary Institute (SVI) in Prague and in SVI in Olomouc and SVI in Jihlava. The laboratories in SVI Olomouc and SVI Jihlava are under control of the NRL. The NRL cooperates with Community Reference Laboratory for Avian Influenza (CRL) in Weybridge.

All results will be sent to the Community Reference Laboratory for Avian Influenza (CRL) for collation.

3. Description and implementation of the surveillance programme in wild birds

3.1.1 *Designation of the central authority in charge of supervising and coordinating the departments responsible for implementing the programme and relevant collaborating partners (e.g. epidemiologists, ornithologists, nature bird observation and hunter organisations).*

(max. 32000 chars):

The central authority responsible for the programme is the Central Veterinary Administration, Department of Animal Health and Welfare. Implementation of the programme is performed by Regional Veterinary Administrations (RVA). Passive surveillance on sick and dead wild birds is performed in the Czech Republic. RVA cooperate with ornithologists, nature bird observation and hunter organisations in accordance with Article 1, Commission Decision No 367/2010. Training course for these organisations are organized by RVA in each region every year.

3.1.2 *Description and delimitation of the geographical and administrative areas in which the programme is to be applied*

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(max. 32000 chars) :

The programme will be applied in all territory of the Czech Republic according to rules setting by the Central Veterinary Administration.

Regions in the Czech Republic where the programme is to be applied:

CZ 011 CAPITAL CITY PRAGUE
CZ 021 CENTRAL BOHEMIAN REGION
CZ 031 SOUTHERN BOHEMIAN REGION
CZ 032 REGION OF PLZEN
CZ 041 REGION OF KARLOVY VARY
CZ 042 REGION OF USTI N. LABEM
CZ 051 REGION OF LIBEREC
CZ 052 REGION OF HRADEC KRALOVE
CZ 053 REGION OF PARDUBICE
CZ 061 REGION OF VYSOCINA
CZ 062 SOUTHERN MORAVIAN REGION
CZ 071 REGION OF OLOMOUC
CZ 072 REGION OF ZLIN
CZ 081 MORAVIA-SILESIA REGION

3.1.3 Estimation of the local and/or migratory wildlife population

(max. 32000 chars) :

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 reason according the epidemiological and ornithological data we have not identified any region at higher risk for the introduction of AI. There are identified only regions with the large waters areas where the majority of waterfowl nest.

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3.2 Design, criteria, risk factors and target population(3)

(max. 32000 chars) :

Passive surveillance on sick and dead wild birds will be targeted on:

- birds belonging to identified “higher risk” species (Mallard, Mute Swan, Greylag Goose, Cormorant, Heron, Common Gull)
- areas where increased mortalities occur
- areas close to the ponds, lakes and waterways where birds were found dead; and in particular when these areas are in proximity to domestic poultry farms
- in areas where cases of HPAI H5N1 have been identified in wild birds or poultry to possibly identify asymptomatic carriers
- in areas epidemiologically linked to these cases

Virological surveys for avian influenza in wild birds will be aimed at identifying the risk for introduction of AI viruses (LPAI and HPAI) to domestic poultry by:

- ensuring of an early detection of HPAI H5N1 by investigating sick and dead wild birds and increased mortalities, in particular in selected “higher risk” species
- Anseriformes (wild fowl) to be the main sampling targets to assess if they carry LPAI viruses of H5 and H7 subtypes (which will in any case also detect HPAI H5N1 and other HPAI, if present)
- in case of HPAI H5N1 is detected in wild birds in an area, assessing specifically the risk for the introduction of HPAI H5N1 to poultry – by investigating dead and living wild birds of other bird species to possibly identify asymptomatic carriers and the risk that species coming in close contact with domestic poultry holdings might function as “bridge species”

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- intensification of surveillance of HPAI H5N1 firstly in those areas where its presence has been confirmed.

Map of HPAI H5N1 occurrences in wild birds is attached.

- (3) *Areas at risk (wetlands in particular where links with high density poultry populations), previous positive findings as referred to in point 2 of Part 1 of Annex II to Commission Decision 2010/367/EC should be taken into account and if possible complemented by a map.*

3.2.1 WILD BIRDS focussed on target species

Investigations according to the surveillance programme set out in Part 2 of Annex II to Decision 2010/367/EC

NUTS (2) code/region (a)	Wild birds to be sampled (b)	Total number of birds to be sampled	Estimated total number of samples to be taken for active surveillance (c)	Estimated total number of samples to be taken for passive surveillance
the Czech Republic	sick and dead wild birds, mainly A+	300	0	300
Total	0	300	0	300
Add a new row				

(a) *Refers to the place of collection of birds/samples. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, region as defined in the programme by the Member State is requested. Please fill-in these values directly in the field.*

(b) *General description of the wild birds are intended to be sampled in the framework of the active and passive surveillance.*

(c) *Voluntary, to be included for information purposes, not eligible for cofinancing.*

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3.3 Sampling procedures and sampling periods

max 32000 chars :

Taking samples, wrapping and packaging of samples and their transport to the NRL will be arranged by an official veterinarian from the relevant Regional Veterinary Administration.

- In the case of mortality increase (more than 5 birds) at least 5 carcasses to be taken. In the case of higher amounts of dead birds, cloacal and tracheal/oropharyngeal swabs from other birds can be taken as well.
- Swabs must be chilled immediately on ice or with frozen gel packs and submitted to the laboratory as quickly as possible.
- Cloacal swabs and tracheal/oropharyngeal swabs and/or tissues (namely the brain, heart, lung, kidney and intestines) from wild birds will be sampled for virus isolation and molecular detection (RT-PCR).

3.4 Laboratory testing : description of the laboratory tests used

max 32000 chars :

Laboratory tests will be carried out in accordance with the avian influenza diagnostic manual. All samples collected in the survey for avian influenza in wild birds will be tested as soon as possible by molecular techniques according to the diagnostic manual. Initial screening using M gene PCR will be used, with rapid testing of positives for H5 (but within 2 weeks) and in case of a positive finding analysis of the cleavage site should be undertaken as soon as possible to determine whether or not it has a highly pathogenic avian influenza (HPAI) or a low pathogenic avian influenza (LPAI). All samples positive for M gene to be tested by virus isolation test on eggs. At the laboratory pooling of up to five samples taken from the same species collected at the same site and same time is permitted when it can be ensured that, in case of a positive finding, the individual samples can be identified and retested. Results, as well as all isolates will be sent to the CRL.

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4. Description of the epidemiological situation of the disease in poultry during the last five years

max 32000 chars :

In 2011 only one holding with breeder ducks and one holding with breeder geese were serology positive for subtype H5. PCR tests were in both cases negative.

Over year 2010 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry in the Czech Republic. There was only one positive holding of farmed game birds (mallards) for LPAI subtype H6N9 in poultry.

In 2009 there were detected 2 outbreaks of low pathogenic influenza in poultry holdings.

First outbreak: Hodonín

Low pathogenic avian influenza (LPAI) of subtype H7N9 was detected in poultry holding keeping goose and duck flocks in February 2009.

The holding owned by commercial fisheries Hodonín s. r. o. is situated on the ponds close to the city Hodonín, in Southern Moravian region, district Hodonín.

On pond Písečenský were found infected geese. Samples were taken in the framework of routine AI surveillance in a poultry holding. There were 2 sheds of 679 heads of geese were killed using CO2 in gas-tight containers on the 25th February 2009.

Second outbreak: Třebín

LPAI of subtype H5N3 was detected in holding producing captive mallards for restocking in November 2009.

The holding owned by Lesy a rybníky města Českých Budějovic s.r.o. is situated on pond Ryšávek near municipality Třebín. There were kept 280 mallards for restocking. Samples were taken in the framework of routine AI surveillance in farmed game birds holding.

All 280 mallards have been culled by private veterinarian used "T 61" on 6th November and safety disposed to the rendering plant.

In 2008 either highly pathogenic avian influenza (HPAI) or low pathogenic avian influenza (LPAI) were not detected in the Czech Republic in poultry.

In 2007 there was historically first outbreak of HPAI in poultry holding. Totally 4 holdings owned by two different farmers were affected in 2007; all holdings were situated in Pardubice Region, district Ústí nad Orlicí. Due to animal health reasons, 103 378 head of poultry (4 586 turkeys and a 98 792 head

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of species Gallus gallus) of total weight of 358 262 kg were killed in commercial flocks and another two contact holdings with the total number of poultry 67 879 head (54 125 broilers and 13 754 turkeys) were depopulated preventively. Furthermore, it was decided to kill preventively poultry kept in non-commercial flocks in municipalities situated in catastral territories of HPAI outbreaks (2 026 head of poultry). The first outbreak was confirmed in a turkey flock on 21 June 2007, the second outbreak was confirmed in a broiler flock on 27 June 2007, the third and fourth outbreaks were confirmed in reproduction poultry flocks of species Gallus gallus, both outbreaks on the same day, i.e. on 11 July 2007. Measures ordered in zones were repealed on 14 August 2007, in accordance with the legislation in force.

5. Description of the epidemiological situation of the disease in wild birds during the last five years

(max. 32000 chars) :

In 2011, within the surveillance of wild birds there were tested 624 wild birds. In the frame of active surveillance, there were tested 564 hunted mallards and other 60 birds were examined in the frame of passive surveillance. There were 22 wild birds positive tested for virus AI from what 21 positive mallards were tested in active surveillance and 1 positive mute swan was found dead. In one mallard, there were 2 positive samples, both cloacal and tracheal swab (it means 22 positive swabs in 21 mallards).

Within the surveillance of wild birds, there were tested in total 653 birds in 2010. In the frame of active surveillance, there were tested 500 hunted wild birds (mallards) whereas 76 mallards of them were virological positive for LPAI (one positive finding of LPAI H5N3). Other 153 wild birds were examined for avian influenza in the frame of passive surveillance (found dead). Only one bird (mallard) was positive for LPAI subtype H11N9. In total there were 77 positive wild birds for LPAI.

Within the surveillance of wild birds there were tested 751 birds in 2009. Out of this number were tested 532 birds (mallards – 4 clinically health and 528 hunted) in the frame of active surveillance and 219 birds (found death) within passive surveillance. In total 25 birds were positive.

In 2008, there were only positive serological findings within the surveillance in wild birds. In total 814 wild birds were examined from what passive surveillance presents 259 wild birds (found dead) and active surveillance 555 wild birds - mallard (4 clinically healthy, 551 hunted). In total there were 57

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serological positive from what five birds were positive for LPAI H5N3. H5 and H7 subtypes were ruled out in other cases. Samples were examined to confirm or rule out the presence of virus A1. All results have been negative.

Within the surveillance in wild birds, 649 wild birds in total were examined during the period from 1 January 2007 to 31 December 2007 and one positive virological finding HPAI H5N1 was detected in mute swan in South-Moravian Region (catastral territory of municipality Lednice) on 25th June 2007.

6. Measures in place as regards the notification of the disease

(max. 32000 chars) :

The measures in place are in accordance with Council Directive 2005/94/EC of 20 December 2005 on Community measures for the control of avian influenza. The Council Directive has already been implemented in Czech legislation through Decree No. 36/2007 coll.

7. Costs

7.1 Detailed analysis of the costs

7.1.1 Poultry

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(max. 32000 chars) :

The overall estimated cost of the AI surveillance in poultry during year 2013 is 28 093.50 €. The estimated number of 189 poultry holdings is to be tested in the frame of AI surveillance programme during 2013. The cost of the programme including the cost of a lump sum of 0,5 € per poultry sampled, laboratory testing by pre-screening serological tests and cost for following tests in case of positive pre-screening test. The financial contribution by the Union shall include a lump sum of 0,5 € per poultry sampled and shall be at the rate of 60 % of the costs to be incurred for the costs of carrying out laboratory test.

7.1.2 Wild birds

(max. 32000 chars) :

The overall estimated cost of the AI surveillance in wild birds during year 2013 is 19 697.30 €. The estimated number of 300 wild birds is to be tested in the frame of AI surveillance programme during 2013 (passive surveillance on sick and dead wild birds). The cost of the programme including the cost of a lump sum of 5 € per wild bird sampled and virological laboratory testing. The competent authority wishes 60% of co-financing of the cost to be incurred for the costs of carrying out laboratory tests and a lump sum of 5 € per wild bird sampled as the financial contribution of the Union.

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7.2 Summary of the costs

7.2.1 Poultry surveillance

Detailed analysis of the cost of the programme - poultry

Laboratory testing				
Methods of laboratory analysis	Number of tests	Unitary test cost (per method) in €	Total cost (€)	
ELISA test	2 530	4.45	11258.5	
agar gel immune diffusion test	0	0	0	
Haemagglutination-inhibition-test (HI) for H5 (specify number of tests for H5)	350	4.45	1557.5	
Haemagglutination-inhibition-test (HI) for H7 (specify number of tests for H7)	350	4.45	1557.5	
Virus isolation test	20	56.61	1132.2	
PCR test	200	40.44	8088	
Sequencing H cleavage site	20	80.87	1617.4	
Sequencing N cleavage site	20	80.87	1617.4	
				Add a new row

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Sampling					
Samples	Number of samples	2 530	Unitary cost in €	0.5	Total cost (€)
					1265
Other measures					
	Number of samples		Unitary cost in €		Total cost (€)
Other please specify here		0		0	0
					Add a new row
Total poultry Testing + Sampling + Other measures		6 020			28 093,50 €

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7.2.2 Wild bird surveillance

Detail analysis of the cost of the programme - wild birds

Laboratory testing				
Methods of laboratory analysis	Number of tests	Unitary test cost (per method) in €	Total cost (€)	
Virus isolation test	50	56.61	2830.5	
PCR test	300	40.44	12132	
Sequencing H cleavage site	40	80.87	3234.8	
Sequencing N cleavage site	40	80.87	3234.8	
Other please specify here	0	0	0	
				Add a new row
Sampling				
	Number of samples	Unitary cost in €	Total cost (€)	
Samples	300	5	1500	

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Other measures					
	Number	Unitary cost in €	Total cost (€)		
Other please specify here	0	0	0		X
				Add a new row	
Total wild birds Testing + Sampling + Other measures	690		19 697,30 €		
Grand Total Poultry + Wild birds	6710		47 790,80 €		

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Attachments

IMPORTANT :

- 1) The more files you attach, the longer it takes to upload them .
- 2) This attachment files should have one of the format listed here : .zip, .jpg, .jpeg, .tiff, .tif, .xls, .doc, .bmp, .pna.
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- 4) IT CAN TAKE **SEVERAL MINUTES TO UPLOAD** ALL THE ATTACHED FILES. Don't interrupt the uploading by closing the pdf and wait until you have received a Submission Number!
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MAP OF HPAI H5N1 OCCURRENCES IN WILD BIRDS

blue – 2006, red – 2007

