



EUROPEAN COMMISSION
HEALTH AND CONSUMERS DIRECTORATE-GENERAL

Director General

SANCO/10214/2014

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

Survey programme for Avian Influenza

Czech Republic

Approved* for 2014 by Commission Decision 2013/722/EU

* in accordance with Council Decision 2009/470/EC

Standard requirements for the submission of surveillance programmes for avian influenza

version : 2.22



PROGRAMME for ERADICATION : ANNEX IV

Member States seeking a financial contribution from the Community for national programmes for the control and monitoring of avian influenza in poultry and wild birds shall submit applications containing at least the information set out in this form.

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Tuesday, July 23, 2013 13:24:16

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1. Identification of the programme

Member state : CESKA REPUBLIKA

Disease : avian influenza in poultry and wild birds

Request of Union co-financing
for the period :

FROM

2014

TO

2016

MULTIANNUAL PROGRAMME

1.1 Contact

Name : Petr Šatrán

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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

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(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 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 witch 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

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divided into the smaller areas - 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

(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;

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- (h) fattening geese;
- (i) farmed game birds (gallinaceous) ;
- (j) farmed game birds (waterfowl);

(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

*In case of multiannual programme, please provide targets on annual basis.
If your targets differ between different implementation years please provide separate tables per year in attachment.*

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	9	6	10	60	ELISA test	X
CZ 031 South Bohemia	3	3	10	30	ELISA test	X
CZ 032 Plzeň	10	9	10	90	ELISA test	X
CZ 041 Karlovy Vary	1	1	10	10	ELISA test	X
CZ 051 Liberec	1	1	10	10	ELISA test	X
CZ 052 Hradec Králové	1	1	10	10	ELISA test	X

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CZ 053 Pardubice	8	6	10	60	ELISA test	X
CZ 061 Vysočina	5	5	10	50	ELISA test	X
CZ 062 South Moravia	8	5	10	50	ELISA test	X
CZ 071 Olomouc	4	2	10	20	ELISA test	X
CZ 072 Zlín	3	1	10	10	ELISA test	X
CZ 081 Moravia-Silesian	4	2	10	20	ELISA test	X
Total	57	42	120	420		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

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
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CZ 021 Central Bohemia	12	4	10	40	ELISA test	X
CZ 031 South Bohemia	7	5	10	50	ELISA test	X
CZ 032 Plzeň	3	1	10	10	ELISA test	X
CZ 041 Karlovy Vary	2	1	10	10	ELISA test	X
CZ 042 Ústí nad Labem	8	3	10	30	ELISA test	X
CZ 051 Liberec	1	1	10	10	ELISA test	X
CZ 052 Hradec Králové	14	4	10	40	ELISA test	X
CZ 053 Pardubice	19	9	10	90	ELISA test	X
CZ 061 Vysočina	7	3	10	30	ELISA test	X
CZ 062 South Moravia	22	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	24	7	10	70	ELISA test	X
Total	139	53	130	530		
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.

In case of multiannual programme, please provide targets on annual basis.
 If your targets differ between different implementation years please provide separate tables per year in attachment.

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

In case of multiannual programme, please provide targets on annual basis.
 If your targets differ between different implementation years please provide separate tables per year in attachment.

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	3	3	10	30	ELISA test	X
CZ 071 Olomouc	3	3	10	30	ELISA test	X
CZ 072 Zlín	4	4	10	40	ELISA test	X
CZ 081 Moravia-Silesian	1	1	10	10	ELISA test	X

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Total	31	31	80	310	
				Add a new row	
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>					

In case of multiannual programme, please provide targets on annual basis.
If your targets differ between different implementation years please provide separate tables per year in attachment.

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	X
Total	1	1	10	10		
				Add a new row		
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

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Add a category

Total Poultry	234	133	390	1 330		

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

*In case of multiannual programme, please provide targets on annual basis.
If your targets differ between different implementation years please provide separate tables per year in attachment.*

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Category : duck 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 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		
				Add a new row		
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p>						

Category : fattening ducks

delete this category

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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	5	5	20	100	ELISA test	X
CZ 031 South Bohemia	10	10	20	200	ELISA test	X
CZ 032 Plzeň	2	2	20	40	ELISA test	X
CZ 052 Hradec Králové	1	1	20	20	ELISA test	X
CZ 053 Pardubice	5	5	20	100	ELISA test	X
Total	23	23	100	460		
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 : 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	X
CZ 061 Vysočina	1	1	20	20	ELISA test	X

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CZ 062 South Moravia	1	1	20	20	ELISA test	X
CZ 071 Olomouc	1	1	20	20	ELISA test	X
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	X
CZ 061 Vysočina	1	1	20	20	ELISA test	X
CZ 081 Moravia-Salesian	1	1	20	20	ELISA test	X
Total	4	4	60	80		
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 (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	6	6	20	120	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	11	11	100	220		

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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Add a category

Total Ducks and geese	63	63	460	1 260		

Grand Total Poultry + Ducks/Geese	297	196	850	2 590		
Grand Total ELISA Poultry + Ducks/Geese				2 590		
Grand Total agar Poultry + Ducks/Geese				0		

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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 2014, 2015, 2016. 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 2014, 2015, 2016.

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 INFLUENZA A Ab 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 games birds waterfowl

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

For ELISA test has been used INFLUENZA A Ab TEST Kit, ELISA 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)

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

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*

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:

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

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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

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

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	
whole territory of the Czech Republic	sick and dead wild birds, mainly A	300	0	300	X
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 2012 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry. In 2012 only one holding with breeder geese was serology positive for subtype H5. PCR tests were negative.

In 2011 either highly pathogenic avian influenza or low pathogenic avian influenza subtype H5/H7 were not detected within the surveillance in poultry. 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 Pisečenský 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.

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

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

(max. 32000 chars) :

In the year 2012 in the framework of pasive surveillance has been tested in total 102 wild birds found sick or found dead. There was 1 wild bird - mallard found dead positive tested for virus AI. There was detected LPAI H4N6.

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 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 AI. All results have been negative.

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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

(max. 32000 chars) :

The overall estimated cost of the AI surveillance in poultry during year 2014 is 20 487,50 €. In the following years 2015 and 2016 we assume, that overall estimated cost will be in the same extent. The estimated number of 196 poultry holdings is to be tested in the frame of AI surveillance programme during 2014. 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

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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 50 % 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 2014 is 12 422,0 €. For the following years 2015 and 2016 may be some changes with regard to the epidemiological situation. The estimated number of 300 wild birds is to be tested in the frame of AI surveillance programme during 2014 (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 50% 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 annual costs : 2014 - 2016

7.2.1 Poultry surveillance

Detailed analysis of the cost of the programme - poultry

*In case of multiannual programme, please provide estimations on annual basis.
If your cost estimations differ between different implementation years please provide separate tables per year in attachment.*

Laboratory testing			
Methods of laboratory analysis	Number of tests	Unitary test cost (per method) in €	Total cost (€)
ELISA test	2 590	3.31	8572.9
agar gel immune diffusion test	0	0	0
Haemagglutination-inhibition-test (HI) for H5 (specify number of tests for H5)	350	3.21	1123.5
Haemagglutination-inhibition-test (HI) for H7 (specify number of tests for H7)	350	3.21	1123.5
Virus isolation test	20	45.08	901.6
PCR test	200	31.18	6236

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Sequencing H cleavage site	20	60.8	1216	
Sequencing N cleavage site	20	60.8	1216	
			Add a new row	
Sampling				
	Number of samples	Unitary cost in €	Total cost (€)	
Samples	2 590	0.5	1295	
Other measures				
	Number of samples	Unitary cost in €	Total cost (€)	
Other please specify here	0	0	0	X
			Add a new row	
Total poultry Testing + Sampling + Other measures	6 140		21 684,50 €	

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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	45.08	2254
PCR test	200	31.18	6236
Sequencing H cleavage site	40	60.8	2432
Sequencing N cleavage site	40	60.8	2432
			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	590		12 422,00 €	
Grand Total Poultry + Wild birds	6730		34 106,50 €	

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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 : jpg, jpeg, tiff, tif, xls, doc, bmp, pna, pdf.
- 3) The total file size of the attached files should not exceed 2 500Kb (+- 2.5 Mb). You will receive a message while attaching when you try to load too much.
- 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!