



EUROPEAN COMMISSION
HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit G5 - Veterinary Programmes

SANCO/10776/2012

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

Survey programme for Avian Influenza (AI)

Approved* for 2012 by Commission Decision 2011/807/EU

Finland

* in accordance with Council Decision 2009/470/EC

Standard requirements for the submission of surveillance programmes for avian influenza

version : 2.1

1. Identification of the programme

Member state : SUOMI / FINLAND

Disease : avian influenza in poultry and wild birds

Request of Community co-financing from beginning of:

2012

to end of

2014

1.1 Contact

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2. Description of the surveillance programme in poultry

2.1 Objectives of surveillance programmes

(max. 32000 chars) :

The objectives and general requirements are in accordance with Article 4 (1) of Directive 2005/94/EC and the criteria shall be those described in the Commission Decision on the implementation by Member States of surveillance programmes for avian influenza in poultry and wild birds 2010/367/EU.

2.2 Design, implementation and target population

(max. 32000 chars) :

According to the Commission Decision on the implementation by Member States of surveillance programmes for avian influenza in poultry and wild birds 2010/367/EU.

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2.2.1 Risk based surveillance (RBS)

(max. 32000 chars) :

According to the criteria set in Section 4.1. of the Commission Decision on the implementation by Member States of surveillance programmes for avian influenza in poultry and wild birds 2010/367/EU.

2.2.2 Surveillance based on Representative Sampling

(max. 32000 chars) :

Surveillance in Finland is risk based.

3. Target populations

(max. 32000 chars) :

The poultry business in Finland is concentrated in the province of Western Finland. However, the aim is to include farms also from other part of the country. The latest available numbers of farms from IACS (Integrated Administration and Control System) are used for calculations.

The total number of holdings to be sampled in Finland in 2012-2014 for avian influenza will be 197: 42 holdings with chicken breeders, 60 holdings with laying hen, 28 holdings with free range hen for organic production, 44 holdings with turkey, 8 holding with duck or geese, 3 holdings with ostriches, 12 holdings with farmed feathered game .

4. Risk-based surveillance (RBS) method

4.1 Criteria and Risk factors

4.1.1 Criteria and risk factors for virus introduction into poultry holdings due to direct or indirect exposure to wild birds in particular those of identified 'target species'

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(max. 32000 chars) :

According to the criteria set in Section 4.1. of the Commission Decision on the implementation by Member States of surveillance programmes for avian influenza in poultry and wild birds 2010/367/EU.

4.1.2. Criteria and risk factors for virus spread within poultry holdings and between poultry holdings, as well as the consequences (impact) of the spread of avian influenza from poultry to poultry and between poultry holdings

(max. 32000 chars) :

The type of poultry production and the poultry species on the holding, such as duck holdings and poultry intended for re-stocking supplies of game.

4.2. Targeting of populations at risk

(max. 32000 chars) :

The total number of holdings to be sampled in Finland in 2012-2014 for avian influenza will be 197: 42 holdings with chicken breeders, 60 holdings with laying hen, 28 holdings with free range hen for organic production, 44 holdings with turkey, 8 holding with duck or geese, 3 holdings with ostriches, 12 holdings with farmed feathered game .

4.3. Targeting of poultry holdings to be sampled

(max. 32000 chars) :

The total number of holdings to be sampled in Finland in 2012-2014 for avian influenza will be 197: 42

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holdings with chicken breeders, 60 holdings with laying hen, 28 holdings with free range hen for organic production, 44 holdings with turkey, 8 holding with duck or geese, 3 holdings with ostriches, 12 holdings with farmed feathered game . Sampling is weighed towards production types which have more risk for AI.

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5. Poultry holdings to be sampled

5.1 Poultry holdings (except ducks, geese and mallard) to be sampled according to table 1 of Annex 1 to Decision 2010/367/EU

Category : chicken breeders

delete this category

NUTS (2) (a)	Total number of holdings	Total number of holdings to be sampled	Number of samples per holding	Total number of tests to be performed per method	Method of laboratory analysis
F113	1	1	10	10	Haemagglutination-inhibition-test (HI)
F118	48	24	10	240	Haemagglutination-inhibition-test (HI)
F110	45	28	10	208	Haemagglutination-inhibition-test (HI)
Total	94	53		458	
Add a new row					

(a) Refers to the location of the holding origin. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, coordinates (longitude/latitude) are requested. Please fill-in these values directly in the field.

Category : laying hens

delete this category

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NUTS (2) (a)	Total number of holdings	Total number of holdings to be sampled	Number of samples per holding	Total number of tests to be performed per method	Method of laboratory analysis
FI13	37	6	10	60	Haemagglutination-inhibition-test (HI)
FI18	281	35	10	350	Haemagglutination-inhibition-test (HI)
FI10	179	15	10	150	Haemagglutination-inhibition-test (HI)
FI1A	14	4	10	40	Haemagglutination-inhibition-test (HI)
Total	511	60		600	
Add a new row					

(a) Refers to the location of the holding origin. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, coordinates (longitude/latitude) are requested. Please fill-in these values directly in the field.

Category : free range laying hens

delete this category

NUTS (2) (a)	Total number of holdings	Total number of holdings to be sampled	Number of samples per holding	Total number of tests to be performed per method	Method of laboratory analysis
FI13	7	5	10	50	Haemagglutination-inhibition-test (HI)
FI18	11	9	10	90	Haemagglutination-inhibition-test (HI)
FI10	19	19	10	190	Haemagglutination-inhibition-test (HI)

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FI1A	2	2	10	20	Haemagglutination-inhibition-test (HI)	X
Total	39	35		350		
Add a new row						
<i>(a)Refers to the location of the holding origin. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, coordinates (longitude/latitude) are requested. Please fill-in these values directly in the field.</i>						

Category : turkey breeders

delete this category

NUTS (2) (a)	Total number of holdings	Total number of holdings to be sampled	Number of samples per holding	Total number of tests to be performed per method	Method of laboratory analysis	
FI13	1	1	10	10	Haemagglutination-inhibition-test (HI)	X
FI18	12	10	10	100	Haemagglutination-inhibition-test (HI)	X
FI10	27	24	10	240	Haemagglutination-inhibition-test (HI)	X
Total	40	35		350		
Add a new row						
<i>(a)Refers to the location of the holding origin. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, coordinates (longitude/latitude) are requested. Please fill-in these values directly in the field.</i>						

Category : ratites

delete this category

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NUTS (2) (a)	Total number of holdings	Total number of holdings to be sampled	Number of samples per holding	Total number of tests to be performed per method	Method of laboratory analysis
FI13	1	1	10	10	Haemagglutination-inhibition-test (HI)
FI10	1	1	10	10	Haemagglutination-inhibition-test (HI)
Total	2	2		20	
Add a new row					

(a) Refers to the location of the holding origin. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, coordinates (longitude/latitude) are requested. Please fill-in these values directly in the field.

Category : farmed feathered game

delete this category

NUTS (2) (a)	Total number of holdings	Total number of holdings to be sampled	Number of samples per holding	Total number of tests to be performed per method	Method of laboratory analysis
FI13	5	5	10	50	Haemagglutination-inhibition-test (HI)
FI18	5	5	10	50	Haemagglutination-inhibition-test (HI)
FI10	1	1	10	10	Haemagglutination-inhibition-test (HI)
Total	11	11		110	
Add a new row					

(a) Refers to the location of the holding origin. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, coordinates (longitude/latitude) are requested. Please fill-in these values directly in the field.

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Add a category

5.2 Ducks, geese and mallard holdings to be sampled according to table 2 of Annex I to Decision 2010/367/EU

NUTS (2) (a)	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 to be performed per method	Method of laboratory analysis
F113	5	5	10	50	Haemagglutination-inhibition-test (HI)
F118	2	2	10	20	Haemagglutination-inhibition-test (HI)
F110	1	1	10	10	Haemagglutination-inhibition-test (HI)
Total	8	8		80	
Add a new row					

(a) Refers to the location of the holding origin. In case NUTS 2 (Nomenclature of Territorial Units for Statistics) can not be used, coordinates (longitude/latitude) are requested. Please fill-in these values directly in the field.

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6. Frequency and period for testing

(max. 32000 chars) :

Samples are collected at slaughterhouses.

7. Laboratory testing

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

Laboratory testing is carried out in the National reference Laboratory Finnish Food Safety Authority Evira.

8. Description of the surveillance programme in wild birds

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8.1 Objectives of surveillance

(max 32000 chars)

The objective of the surveillance programme for avian influenza in wild birds is the timely detection of HPAI of the subtype H5N1 in wild birds in order to protect poultry holdings and safeguard veterinary public health.

8.2 Surveillance design

(max. 32000 chars) :

The surveillance is implemented as a passive surveillance system by laboratory investigation of water bird species which are found dead.

8.3 Sampling procedures

max 32000 chars :

Sampling procedure is carried out according to the Diagnostic Manual.

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8.4 Laboratory testing

max 32000 chars :

Laboratory testing is carried out according to the Diagnostic Manual.

8.5. WILD BIRDS - Investigation according to the surveillance programme for avian influenza in wild birds set out in Annex II to Decision 2010/367/EU

NUJTS (2) code/region (a)	Wild birds to be sampled	Total number of birds to be sampled	Estimated total number of samples to be taken for active surveillance	Estimated total number of samples to be taken for passive surveillance	
FI13	20	20	0	20	X
FI18	40	40	0	40	X
FI19	20	20	0	20	X
FI1A	15	15	0	15	X
FI20	5	5	0	5	X
Total		100	0	100	

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(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.

Add a new row

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

max 32000 chars :

Highly pathogenic avian influenza has never been detected in Finland.

9.1 Measures included in the programme for surveillance in poultry

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

(max. 32000 chars) :

The Finnish Food Safety Authority evira is responsible for implementing the programme.

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9.1.2 System in place for the registration of holdings

(max. 32000 chars) :

There is a central register for rural business in Finland which is held by the Information Centre of the Ministry of Agriculture and Forestry. In this register system there are separate subregisters such as register for holdings keeping laying hen and producing eggs for commercial purposes and required to label the eggs in accordance with the Directive 1999/74/EC. Only small holdings selling eggs directly to consumers or situate in certain remote areas are exempted from this labeling requirement and are not registered centrally.

Poultry holdings which receive financial support such as all broiler flocks and most turkey flocks are registered for financial support and control purposes.

Information on the number of back-yard flocks, free-range organic farms and holdings keeping other species of poultry, such as farmed feathered game, ducks and geese or ostriches has to be combined from different registers. The reliability of these numbers therefore cannot be ensured.

9.1.3 Data on vaccination carried out

(max. 32000 chars) :

The use of avian influenza vaccine is prohibited in Finland.

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

(max. 32000 chars) :

Highly pathogenic avian influenza in wild birds has never been detected in Finland.

10.1 Measures included in the programme for surveillance in wild birds

(max. 32000 chars) :

The number of wild birds to be sampled in Finland in 2011 for avian influenza will be 100 birds in passive sampling. Wild bird sampling will be focused on waterfowl. In passive surveillance the fish and wildlife health unit of Evira in the city of Oulu takes samples for AI testing from individual autopsied birds when needed. The samples are sent to the Evira central laboratory in Helsinki for testing.

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

32max. 32000 chars) :

The Finnish Food Safety Authority Evira is responsible for implementing the programme.

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

(max. 32000 chars) :

For passive surveillance it is difficult to anticipate where the dead birds are found. However, taking into consideration passive surveillance in recent years, it is likely that most of these samples will come from coastal areas especially Uusimaa (FI181) and Oulu (FI 1A2).

10.1.3 Estimation of the local and/or migratory wildlife population

(max. 32000 chars) :

The estimated size of migratory wild bird population in Finland is 80 million birds and the local population 20 million birds.

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

(max. 32000 chars) :

Avian influenza is a compulsory notifiable disease in Finland according to the Act on animal diseases (55/1980). Avian influenza virus subtypes H5 have never been detected in Finland. Only low pathogenic strains of the virus have been detected in some wild birds.

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12. Costs

12.1 Detailed analysis of the costs

12.1.1 Poultry

(max. 32000 chars) :

As the number of samples to be taken will depend on the number of sheds per farm, the maximum numbers of samples are described. No costs of sampling are included as they have not been reimbursed by the EU in the past. The unit cost for HI test is 4,38€, for PCR 23,23€ and for virus isolation 54,52 €. The prices are according to the report of year 2010.

In addition 40 PCR and Virus isolation tests will be done as confirmatory tests.

12.1.2 Wild birds

(max. 32000 chars) :

A total of 100 birds (200 samples) for passive surveillance will be examined. 30 additional confirmatory tests are calculated.

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12.2 Summary of the costs

12.2.1 Poultry surveillance

Methods of laboratory analysis	Number of tests to perform per method	Unitary test cost (per method) in €	Total cost (€)
ELISA test	0	0	0
agar gel immune diffusion test	0	0	0
Haemagglutination-inhibition-test (HI) for H5 (specify number of tests for H5)	1 968	4.38	8619.84
Haemagglutination-inhibition-test (HI) for H7 (specify number of tests for H7)	1 968	4.38	8619.84
Virus isolation test	40	54.52	2180.8
PCR test	40	23.23	929.2
Total	4 016		20 349,68 €
Other measures to be covered			
NA	0	0	X
			Add a new row
Total	0		0,00 €

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12.2.2 Wild bird surveillance

Methods of laboratory analysis	Number of tests to perform per method	Unitary test cost (per method) in €	Total cost (€)
Haemagglutination-inhibition-test (HI) for H5/H7	0	0	0
Virus isolation test	40	54.52	2180.8
PCR test	240	23.23	5575.2
Other please specify here	0	0	0
Total	280	77,75 €	7 756,00 €
Other measures to be covered			
NA	0	0	X
			Add a new row
Total	0	0,00 €	0,00 €

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