



EUROPEAN COMMISSION
HEALTH AND CONSUMERS DIRECTORATE-GENERAL

Director General

SANCO/10270/2013

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

Survey programme for Avian Influenza

Finland

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 : 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

Name : Katri Levonen

Phone : +358407233887

Fax : +358916053338

Email : Katri.levonen@mmm.fi

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 objective 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.

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2.1.2 System in place for the registration of holdings

(max. 32000 chars) :

Poultry holdings must be registered in accordance with the Decree of Ministry of Agriculture and Forestry 867/2010.

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

(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.

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

(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 parts of the country. The latest available number of farms from IACS 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 hens, 28 holdings with free range hens for organic production, 44 holdings with turkey, 8 holdings with duck or geese, 12 holdings with farmed feathered game.

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

(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.

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- (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 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 hens, 28 holdings with free range hens for organic production, 44 holdings with turkey, 8 holdings with duck or geese, 12 holdings with farmed feathered game.

- (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 : chicken 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	
FI13	1	1	10	10	Haemagglutination-inhibition-test (HI)	X
FI18	48	24	10	240	Haemagglutination-inhibition-test (HI)	X
FI10	45	28	10	280	Haemagglutination-inhibition-test (HI)	X
Total	94	53	30	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.

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Category : laying hens

delete this category

NUJTS (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	
FI13	37	6	10	60	Haemagglutination-inhibition-test (HI)	X
FI18	281	35	10	350	Haemagglutination-inhibition-test (HI)	X
FI10	179	15	10	150	Haemagglutination-inhibition-test (HI)	X
FI1A	14	4	10	40	Haemagglutination-inhibition-test (HI)	X
Total	511	60	40	600		

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

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NUJS (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
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)
FI1A	2	2	10	20	Haemagglutination-inhibition-test (HI)
Total	39	35	40	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 : turkey breeders

delete this category

NUJS (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
FI13	1	1	10	10	Haemagglutination-inhibition-test (HI)
FI18	12	10	10	100	Haemagglutination-inhibition-test (HI)

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FI10	27	24	10	240	Haemagglutination-inhibition-test (HI)	X
Total	40	35	30	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 : ratites

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	
FI13	1	1	10	10	Haemagglutination-inhibition-test (HI)	X
FI10	1	1	10	10	Haemagglutination-inhibition-test (HI)	X
Total	2	2	20	20		
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.

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Category : farmed game birds (gallinaceous)

delete this category

NUJTS (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	
FI13	5	5	10	50	Haemagglutination-inhibition-test (HI)	X
FI18	5	5	10	50	Haemagglutination-inhibition-test (HI)	X
FI10	1	1	10	10	Haemagglutination-inhibition-test (HI)	X
Total	11	11	30	110		

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 NUJTS (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 NUJTS 2 region.

Add a category

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Total Poultry	697	196	190	1 960					

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 : ducks and geese

delete this category

NUJTS (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
FI13	5	5	10	15	Haemagglutination-inhibition-test (HI)
FI18	2	2	10	20	Haemagglutination-inhibition-test (HI)

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FI10	1	1	10	10	Haemagglutination-inhibition-test (HI)	X
Total	8	8	30	45		
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	8	8	30	45		
Ducks and geese						

Grand Total	705	204	220	2 005		
Poultry + Ducks/Geese						

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2.3 Sampling procedures, sampling periods and frequency of testing

(max. 32000 chars) :

Samples are collected at slaughterhouses

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

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

Laboratory testing is carried out in the national reference laboratory Finnish Food Safety Authority (Evira)

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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) :

Finnish Food Safety Authority Evira

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

max. 32000 chars) :

In principle the sampling covers the whole country. It is difficult to anticipate where the dead birds are found but based on previous experience most samples come from coastal areas in particular uusimaa (FI18) and Oulu (FI 1A2).

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3.1.3 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 is 20 million birds.

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

(max. 32000 chars) :

The sampling covers birds found dead of susceptible species (gulls, water fowl and predators).

- (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.*

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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	
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	100	0	100	

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 :

The sampling procedure is in accordance with the Diagnostic Manual. In passive surveillance the fish and wildlife health unit of Evira in the city of Oulu takes samples from individual autopsied birds when needed. The samples are sent to the Evira central laboratory in Helsinki for testing.

3.4 Laboratory testing : description of the laboratory tests used

max 32000 chars :

Laboratory testing is carried out by the national reference laboratory Evira in accordance with the Diagnostic Manual

4. 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.

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5. 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. Only low pathogenic strains of the virus have been detected in some wild birds.

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

(max. 32000 chars) :

Avian influenza is a compulsorily notifiable disease in Finland according to the Act of Animal Diseases (55/1980).

7. Costs

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7.1 Detailed analysis of the costs

7.1.1 Poultry

(max. 32000 chars):

As the number of samples to be taken will depend on the number of sheds per farm, the maximum number of samples are described. Costs of sampling are not included. The unit cost of analysis for the HI test is 4.97 euros and for PCR it is 14.59 euros. The cost of virus isolation in eggs is 71.42 euros. The costs of analysis include costs of reagents and laboratory personnel costs. The estimated number of PCR and virus isolation for confirmation is 40.

7.1.2 Wild birds

(max. 32000 chars):

A total of 100 birds (200 samples) will be analysed. The unit cost of analysis for PCR is 14.59 euros. The cost of virus isolation in eggs is 71.42 euros. The costs of analysis include costs of reagents and laboratory personnel costs. The estimated number of confirmatory testing is 30.

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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	Number of tests	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)	2 005	4.97	9964.85
Haemagglutination-inhibition-test (HI) for H7 (specify number of tests for H7)	2 005	4.97	9964.85
Virus isolation test	40	71.42	2856.8
PCR test	40	14.59	583.6
Other please specify here	0	0	0
Add a new row			

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Sampling					
	Number of samples	Unitary cost in €	Total cost (€)		
Samples	0	0	0		
Other measures					
	Number of samples	Unitary cost in €	Total cost (€)		
Other please specify here	0	0	0		X
Total poultry Testing + Sampling + Other measures	4 090		23 370,10 €		

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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	40	71.42	2856.8	
PCR test	240	14.59	3501.6	
Other please specify here	0	0	0	
				Add a new row
Sampling				
Samples	Number of samples	Unitary cost in €	Total cost (€)	
	0	0	0	
Other measures				

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Other please specify here	Number	Unitary cost in €	Total cost (€)
	0	0	0
			Add a new row
Total wild birds Testing + Sampling + Other measures	280		6 358,40 €
Grand Total Poultry + Wild birds	4370		29 728,50 €

Attachments

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- 1) The more files you attach, the longer it takes to upload them .
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