



EUROPEAN COMMISSION
HEALTH AND CONSUMERS DIRECTORATE-GENERAL

Director General

SANCO/10234/2014

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

Survey programme for Avian Influenza

Estonia

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.

The central data base keeps all submissions. However only the information in the last submission is shown when viewing and used when processing the data.

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Friday, August 23, 2013 13:29:14

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1. Identification of the programme

Member state : EESTI

Disease : avian influenza in poultry and wild birds

Request of Union co-financing
for the period :

FROM

2014

TO

2014

1.1 Contact

Name : Ago Pärtel

Phone : +372 605 1710

Fax. : +372 621 1441

Email : ago.partel@vet.agri.ee

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) :

Veterinary and Food Board of Estonia functions as a supervising body and sees to that the requirements stipulated by the legislation that governs veterinary, food safety, market regulation, animal welfare and farm animal breeding are followed and executes supervision over fulfilment of these requirements and applies enforcement by state pursuant to the procedures and in the amount prescribed by law.

The Animal Health Office of Veterinary and Food Board organizes and carries out infectious animal disease control and applies measures for protecting humans against zoonotic diseases; it also carries out supervision over the registration and identification of animals and the veterinary control of the domestic movement of animals; it protects the environment against hazards concurring with animal husbandry and infectious animal diseases; it controls the use of medicines and medicated feedingstuffs by veterinarians and animal keepers who are involved in the production of products of animal origin; it organizes the work of the national veterinary service and coordinates and carries out supervision over veterinary assistance, treatment and prophylactics of animals; it is involved in the approval and registration of livestock buildings and facilities, advises in the preparation of construction projects; and it participates in the preparation and carrying out of national or international projects for animal health.

Veterinary and Food Board consists of the Central Office and 15 local veterinary centres in the counties. The main objective of the Central Office is to coordinate supervision while the local veterinary centres carry out supervision.

In the event of the requirement for the prevention of an infectious animal disease, or a suspicion that one might be present, or in the event of an actual outbreak, close cooperation is required with Veterinary and Food Laboratory, which carries out the necessary laboratory examinations.

2.1.2 System in place for the registration of holdings

(max. 32000 chars) :

All poultry holdings are covered by the State Programme on Monitoring and Surveillance of Animal Infectious Diseases and therefore also by the programme. All buildings or constructions with broilers are registered in the Estonian Agricultural Register and Information Board.

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

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(max. 32000 chars) :

The monitoring and surveillance is based on State Programme on Monitoring and Surveillance of Animal Infectious Diseases. This is an annual programme adopted with the decree of Director General of Veterinary and Food Board on the basis of Animal Infectious Disease Control Act.

In Estonia representative sampling method is used for avian influenza surveillance.

The number of poultry holdings to be sampled is defined so as to ensure the identification of at least one infected poultry holding where the prevalence of infected poultry holdings is at least 5 %, with a 95 % confidence interval.

The number of birds to be sampled in the poultry holding is defined so as to ensure 95 % probability of identifying at least one bird that tests sero-positive for avian influenza, if the prevalence of sero-positive birds is ≥ 30 %.

The sampling of poultry holdings is carried out annually.

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

(max. 32000 chars) :

In Estonia there are 7 big holdings (10000 or more laying hens present) and 9 holdings with more than 50 laying hens. The sampling is conducted in holdings with at least 50 laying hens. In Estonia there is also quail farm which is under the programme.

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

(max. 32000 chars) :

NA

(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.

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2.2 Target populations (2)

(max. 32000 chars) :

Samples are taken from laying hens and farmed quails from commercial holdings.

(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 : 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	
EE2	17	17	20	340	ELISA test	X
Total	17	17	20	340		

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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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 : Quails

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	
EE2	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. (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.</p>						

Add a category

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Total Poultry	18	18	30	350		

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.*

Category : Farmed quail

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	
EE2	0	0	0	0	ELISA test	X
Total	0	0	0	0		

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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	0	0	0	0		

Grand Total Poultry + Ducks/Gueese	18	18	30	350		
Grand Total ELISA Poultry + Ducks/Gueese				350		
Grand Total agar Poultry + Ducks/Gueese				0		

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2.3 Sampling procedures, sampling periods and frequency of testing

(max. 32000 chars) :

The sampling of poultry holdings is carried out annually. Samples are taken by authorised veterinarian. The sampling is divided throughout the year.

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

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

Laboratory tests are performed in accordance with the diagnostic procedures for the confirmation and differential diagnostic of avian influenza diagnostic manual (Commission Decision 2006/437 EC) and point 9 of Annex I of Decision 2010/367/EU.

An ELISA test is used for the serological analysis. Positive results are confirmed with haemagglutination inhibition tests (for H5 AND H7) using strains supplied by the Community Reference Laboratory in accordance with the guidelines.

Virological samples are tested individually by molecular detection (PCR) to determine the presence of H5/H7 virus and to analyze whether the isolate is

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high or low pathogenic.

All avian influenza virus isolates are submitted to the EURL in accordance with Union legislation. Viruses of the H5/H7 subtype are submitted to the EURL without delay.

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 Veterinary and Food Board (VFB), a governmental agency carrying out its tasks under the government of the Ministry of Agriculture, functions as a supervising body and sees to that the requirements stipulated by the legislation that governs veterinary, food safety, market regulation, animal welfare and farm animal breeding are followed and executes supervision over fulfilment of these requirements and applies enforcement by state pursuant to the procedures and in the amount prescribed by law. The organization of the Veterinary and Food Board consists of the Central Office and 15 local offices - local veterinary centres in the counties. The main objective of the Central Office is to coordinate supervision while the local offices carry out supervision. The Veterinary and Food Board (VFB), a governmental agency carrying out its tasks under the government of the Ministry of Agriculture, functions as a supervising body and sees to that the requirements stipulated by the legislation that governs veterinary, food safety, market regulation, animal welfare and farm animal breeding are followed and executes supervision over fulfilment of these requirements and applies enforcement by state pursuant to the procedures and in the amount prescribed by law. The organization of the Veterinary and Food Board consists of the Central Office and 15 local offices - local veterinary centres in the counties. The main objective of the Central Office is to coordinate supervision while the local offices carry out supervision. The Veterinary and Food Board (VFB), a governmental agency carrying out its tasks under the government of the Ministry of Agriculture, functions as a

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Samples are tested in Veterinary and Food Laboratory who sends out test results and notifications of positive results.
Hunter organizations take part in sample collections.

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 is active in all 15 counties.
Please look at attached document.

3.1.3 Estimation of the local and/or migratory wildlife population

(max. 32000 chars) :

Estimation of the population of the concerned wildlife population:

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Species: Anserinae - 254 000
Species: Anathinae - 450 000
Species: Charadrii - 410 000
Species: Larii - 430 000

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

(max. 32000 chars) :

Samples are mainly taken during autumn migration. Most of the samples will be taken from wild birds, in case of suspicion the samples will be taken other species also.

- ⁽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

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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	
EE2	80	80	70	10	X
Total	80	80	70	10	

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.

3.3 Sampling procedures and sampling periods

max 32000 chars :

Passive surveillance is carried out throughout the year. Active surveillance is mainly conducted during autumn period, when hunting period lasts. Samples are taken in accordance with Commission decision 2006/437.

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3.4 Laboratory testing : description of the laboratory tests used

max 32000 chars :

Laboratory tests are carried out in Estonian Veterinary and Food Laboratory. Laboratory tests are performed in accordance with the diagnostic procedures for the confirmation and differential diagnostic of avian influenza diagnostic manual (Commission Decision 2006/437 EC) and point 4 of Annex I of Decision 2010/367/EU.

The primary diagnostic procedures are based on PCR methods but also include virus isolation by inoculation in SPF embryonated eggs followed by testing of positive findings for H5. In case of a positive finding for H5, an analysis of the cleavage site shall 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) motif. Where H5 HPAI is confirmed, further analysis is performed to determine the N type.

All avian influenza virus isolates are submitted to the EURL in accordance with Union legislation. Viruses of the H5/H7 subtype are submitted to the EURL without delay.

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

max 32000 chars :

Avian influenza has not been reported in Estonia during the last 5 years.

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

(max. 32000 chars) :

Avian influenza has not been reported in Estonia during the last 5 years.

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

(max. 32000 chars) :

According to Infectious Animal Disease Control Act supervisory officials, authorised veterinarians, veterinarians, veterinary laboratories and other persons are obliged to promptly notify a local veterinary office of the Veterinary and Food Board about suspicion or a diagnosis of an infectious animal disease subject to notification. The list of notifiable animal infectious diseases is laid down in the Regulation of the Minister of Agriculture No 34 from 25. 11.1999. The local veterinary office immediately notifies the Director General of the Veterinary and Food Board (or in his/her absence the Deputy) and the heads of the neighboring veterinary centres of the outbreak. When the disease is officially diagnosed the Director General of Veterinary and Food Board notifies OIE, European Commission (via ADNS)and neighboring countries.

7. Costs

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7.1 Detailed analysis of the costs

7.1.1 Poultry

(max. 32000 chars) :

The price of one serological pre-screening ELISA is 4.62 EUR and serological pre-screening HAI test is 5.01 EUR.

7.1.2 Wild birds

(max. 32000 chars) :

The price of one virus isolation test is 79.71 EUR and RT-PCR test is 69.45 EUR.

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7.2 Summary of the annual costs : 2014

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	350	4.62	1617
agar gel immune diffusion test	0	0	0
Haemagglutination-inhibition-test (HI) for H5 (specify number of tests for H5)	0	0	0
Haemagglutination-inhibition-test (HI) for H7 (specify number of tests for H7)	0	0	0
Virus isolation test	0	0	0
PCR test	0	0	0

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Other please specify here	0	0	0	
			Add a new row	
Sampling				
	Number of samples	Unitary cost in €	Total cost (€)	
Samples	350	0.5	175	
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	700		1 792,00 €	

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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	10	79.71	797.1
PCR test	80	69.45	5556
Other please specify here	0	0	0
			Add a new row
Sampling			
	Number of samples	Unitary cost in €	Total cost (€)
Samples	80	5	400
Other measures			

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	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	170		6 753,10 €	
Grand Total Poultry + Wild birds	870		8 545,10 €	

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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.
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