

EUROPEAN COMMISSION HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit 04 - Veterinary Control Programmes

SANCO/3869/2008

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

Survey programme for Avian Influenza in poultry and wild birds

Approved* for 2009 by Commission Decision 2008/897/EC



* in accordance with Commission Decision 90/424/EEC





REPUBLIC OF CYPRUS

CO-FINANCING REQUEST

ACCORDING TO SANCO/10522/2007 REV. 2

AVIAN INFLUENZA SURVEILLANCE PROGRAMME IN POULTRY AND WILD BIRDS

FOR THE YEAR 2009

MINSTRY OF AGRICULTURE, NATURAL RESOURCES AND ENVIRONMENT VETERINARY SERVICES

'ANNEX IV

Standard requirements for the submission of national surveillance programmes for avian influenza in poultry and wild birds as referred to in Article 1(d)

Identification of the programme

Member State:

Cyprus

Disease:

Avian Influenza

Year of implementation:

2009

Reference of this document:

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Date sent to the Commission:

29/04/2008

Description of the surveillance programme in poultry

2.1 Objectives, general requirements and criteria

The surveillance programme for Avian Influenza in poultry aims at the early detection of an Al virus infection in poultry farms. In particular the programme aims at achieving an early detection of subclinical infections with LPAI of subtypes H5 and H7 so as to be able to prevent possible mutation of those viruses to HPAI.

The programme will be implemented from 1st January 2009 until 31 December 2009.

All samples are to be tested in the NRL of Cyprus and in case of positive results, samples will be sent to the CRL for confirmation.

2.2 Design and Implementation

Samples are to be taken from chickens (breeders and layers), turkeys, ducks, quails, ostriches and wild birds according to Commission Decision 2007/268/EC.

Sampling

Blood sampling for serological examination will be collected from 10 birds (except ducks and qualls) per holding or in cases of holdings consisting of more than one shed from 5 birds per shed. Blood samples from chickens (breeders and layers), turkeys, partridges and ducks will be collected on the farm. Blood samples from qualls and ostriches will be collected at the slaughterhouse.

All holdings of each species will be included in the sampling frame for serological examination.

Sampling scheme in breeding flocks

In Cyprus there are only 4 breeding companies which have in total 18 breeding holdings and 4 hatcheries. Out of the 18 breeding holdings, 14 house parent stock for broilers and 4 for

layers. There are in total 49 sheds housing parent stock for broilers and 4 sheds housing parent stock for layers. The number of samples from breeding flocks is (49*5) + (4*10) = 285 samples.

Sampling scheme in broilers

Broiler flocks are not included in the sampling frame for the surveillance on Avian Influenza.

Sampling scheme in layers

There is an average of 4 sheds per holding of laying hens. The total number of blood samples to be collected from conversional layer farms is 4*29*5=580 samples

Surveillance on the three free range laying holdings will consist of 5 blood samples per shed collected every two months, a total number of blood samples to be collected (5*5*6)+(5*3*6)+(5*1*6)=270 samples.

Sampling scheme in turkey holdings

There are no breeding farms for turkeys in Cyprus. There are 10 holdings for fattening turkeys either on a yearly or a seasonal basis, from September to December for slaughter for Christmas. There is an average of 2 sheds per holding of turkeys. The total number of blood samples to be collected from turkeys is 2*10*5=100 samples.

Sampling scheme in partridges

There are 6 holdings for partridges with an average of 2 sheds per holding. Therefore the total number of blood samples to be collected from partridges will be 2*6*5=60 samples.

Sampling scheme in ostrich farms

There is only one slaughterhouse for ostriches situated in Agios Ioannis Maloundas in Cyprus and the Veterinary officer in charge will be responsible to collect 10 blood samples per holding. Blood sampling from reproductive ostrich farms will be conducted on the farms between October and January, when ostriches are not in lay (80 blood samples).

Sampling scheme in duck holdings

There is only one duck holding, 60 blood samples will be taken, equally distributed on quarterly basis, namely 15 samples per quarter.

Sampling scheme for quails:

There is one quail holding. 60 blood samples will be taken, equally distributed on quarterly basis, namely 15 samples per quarter.

Sampling scheme in backyard poultry

Blood samples from backyard poultry will be collected from high risk areas in Cyprus (about 210 blood samples to be tested).

turkovs/chicken breeders/turkey-breeders/leying hens/free range laung hons/fettes/fermed feathered game (pheasants, partridges, qualis,...)/"backvard Serological investigation according to point B of Annex L to Commission Decision 2007/268/EC on holdings of breliers/only-when at riskl/fattening flocks"/others (delete as appropriate)

PLEASE USE ONE FORM PER POULTRY CATEGORY

| NUT (2) code ⁽⁵⁾ | 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 | Methods of laboratory analysis. |
|-----------------------------|--|--|----------------------------------|--|------------------------------------|
| | 18 | 18 | (5 per shed) | 285 | HI test |
| Total | 18 | 18 | - | 285 | |

turkeys/chicken breeders/turkey breeders/laying hens/free range laying hens/ratites/farmed feathered game (pheasants, partridges, qualis...)/"backyard Serological Investigation according to point B of Annex L to Commission Decision 2007/268/EC* on holdings of brellers/enly when at riskly/fattering Recks://others [defete as appropriate]

| NUT (2) code ^(b) | Total number of holdingst⊕ ho | Total number of holdings to be sampled | Number of samples per holding | Total number of tests to be performed per method | Methods of laboratory analysis. |
|-----------------------------|-------------------------------|--|----------------------------------|--|------------------------------------|
| | 29 | 29 | (5 per shed) | 580 | HI test |
| Total | 29 | 29 | | 280 | |

Hecks-/others [delete-as-appropriate]

PLEASE USE ONE FORM PER POULTRY CATEGORY

| NUT (2) code ^(b) | Total number of holdings ^{c)} | Total number of holdings to be sampled | Number of samples per holding | Total number of tests to be performed per method | Methods of laboratory analysis. |
|-----------------------------|--|---|----------------------------------|--|---------------------------------|
| | က | m | (5 per shed every two months) | 270 | H test |
| | | | | | |
| Total | 3 | e | | 270 | |
| | | | | | |

turkeys/chicken breeders/turkey breeders/laying bens/free range taying heris/ratites/farmed feathered game (pheasants, garindges, qualis...)/"backyarg Serological investigation according to point B of Annex 1 to Commission Decision 2007/268/EC² on holdings of broilers(only when at risk)/fattening flocks"/others (delete as aggregarlate)

| NUT (2) code ^(b) | Total number of holdings ^(c) | Total number of holdings to be sampled | Number of samples per holding | Total number of tests to be performed per method | Methods of laboratory analysis. |
|-----------------------------|--|--|----------------------------------|--|------------------------------------|
| | 10 | 10 | 10 | 100 | H test |
| | | | | | |
| Total | 10 | 92 | | 100 | |
| | | | | | |

¹ OJ L 115, 3.5.2007, p. 3.

turkeys/chicken breadens/turkey breaders/lawing hers/tree range laying hens/tatites/farmed feathered game (pheesants, pertridges, qualls...)/"backyard Serological investigation according to point B of Annex I, to Commission Decision 2007/268/EC* on holdings of brelievs/enly when at *iskly/fattening flocks"/others [delete as appropriate]

PLEASE USE ONE FORM PER POULTRY CATEGORY

| NUT (2) code ^(b) | Total number of holdings ^(c) | Total number of isoldings to be sampled | Number of samples per holding | Total number of tests to Meth be performed per method | Methods of laboratory analysis. |
|-----------------------------|---|---|----------------------------------|---|------------------------------------|
| | æ | 8 | 10 | 80 | HI test |
| | | | | | |
| Total | 8 | 8 | • | 80 | • |

turkeys/chicken brooders/turkey breeders/laying hers/free range laying hens/fretites/formed feathered game (pheasants, partridges, qualis...)/"backyard Serological investigation according to point B of Annex L to Commission Decision 2007/268/EC* on holdings of breiters/only-when at rickly-fattering flocks"/others [defete as appropriate]

| NUT (2) code ^(b) | Total number of holdingsi≎ | Total number of holdings to be sampled | Number of samples per holding | Number of samples per Total number of tests to Melding be performed per method | Methods of laboratory analysis. |
|-----------------------------|-------------------------------|--|----------------------------------|--|------------------------------------|
| | 9 | 9 | (5 per shed) | 90 | HI test |
| | | | | | |
| Total | 9 | 9 | • | 09 | - |

terkeys/chicken-breeders/turkey-breeders/laying-hens/free-range-laying-hens/farmed feathered game (pheasants-partridges, qualls...)/=backyard Bocks://others (delete-as-appropriate) Serological Investigation according to point B of Annex L to Commission Decision 2007/268/EC* on holdings of brollers only when at risk)/fattening

PLEASE USE ONE FORM PER POULTRY CATEGORY

| NUT (2) code ^(b) | Total number of holdings ^(c) | Total number of holdings to be sampled | Number of samples per holding | Total number of tests to be performed per method | Methods of laboratory analysis. |
|-----------------------------|---|--|----------------------------------|--|------------------------------------|
| | T | н | 09 | 99 | H test |
| Total | | T | | 09 | |

turkays/chicken breeders/turkey breeders/leying hens/free range laying hens/ratites/farmed feathered game (phoseants, partridges, qualis...)/"backyard Serological Investigation according to point B of Appex 1 to Commission Decision 2007/268/EC* on holdings of brollers only when at tiskly fattening flocks"/others.[delete as appropriate]

| NIT /2) code(b) | | | | | |
|-----------------|------------------------------|--|----------------------------------|--|---|
| | Total number of holdingsা | Total number of holdings to be sampled | Number of samples per holding | Total number of tests to be performed per method | Methods of laboratory analysis. |
| | 8,530 | • | | 210 | M +ac+ |
| | | | | | |
| | 8 530 | | | | *************************************** |
| - | 2000 | | | 270 | |

turkeys/chicken breeders/turkey breeders/laying hens/free range laying hens/fattles/farmed feathered game (pheasants, partridges, qualls...)/"backyard Serological Investigation according to point B of Annex 1 to Commission Decision 2007/268/EC² on holdings of brellergenty when at risk)/fattening

flecks"/others [delete as appropriate]

Imported companion birds in quarantine and zoo birds

PLEASE USE ONE FORM PER POULTRY CATEGORY

| NUT (2) code ^(b) | Total number of holdings ^(e) | Total number of holdings to be sampled | Number of samples per holding | Total number of tests to be performed per method | Methods of laboratory analysis. |
|-----------------------------|---|--|----------------------------------|--|------------------------------------|
| | • | • | - | 30 | Virus Isolation |
| | | | | | |
| | 1 | _ | 7 | 30 | • |

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Hoddings or herds or establishments as appropriate.

Refers to the location of the holding of origin. In case NUTS (Nomenciature of Territorial Units for Statistics) 2 can not be used, coordinates (long/lat-to write out) are requested.

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

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Table 2.2.2 DUCK AND GEESE HOLDINGS TO BE SAMPLED⁽³⁾ according to point C of Annex I to Decision 2007/268/EC

Serological investigation

| | and goese holdings | lotal rumber of duck and-geese holdings to be sampled | Number of samples per holding | Total number of tests to be performed per method | Methods of laboratory analysis. |
|-------|--------------------|---|----------------------------------|--|------------------------------------|
| | | 4 | 09 | 09 | Hi test |
| Total | | 1 | 99 | | |

Holdings or herds or flocks or establishments as appropriate Refors to the location of the holding of origin. In case NUTS 2 code can not be used, coordinates (long/lat – to write out) are requested

2.3 Laboratory testing: description of the laboratory tests used

According to Part D of Annex 1 of Commission Decision 2007/268/EC.

Description of the <u>surveillance programme</u> in wild birds:

3.1 Objectives, general requirements and criteria

The surveillance programme for Avian Influenza in wild birds aims at the early detection of LPAH and HPAI viruses in wild birds in order to prevent the introduction of the infection in poultry.

3.2 <u>Design and implementation</u>

Samples for virus isolation will be collected from wild birds in high risk areas.

Sampling scheme in Wild Birds in Cyprus

Game fund is a governmental service that cooperates with veterinary services and provides dead or injured wild birds that can be sampled for the A.I. program. The samples will be either a) oropharyngeal and/or cloacal swabs from injured birds, or b) faeces, cloacal swabs, tracheal/oropharyngeal swabs or tissues (brain, heart, lung, kidney and intestines) from dead birds. For sampling purposes, hunters' organizations have also been informed. It must be noted that the presence in Cyprus of birds listed in part D of Annex II of Commission Decision 2007/268/EC depends mainly on the weather conditions in the island during the winter. It can not be ensured that samples from all the species of these wild birds will be collected. It must also be noted that according to the Game Fund's data the Bean Goose (Anser fabalis) does not pass from Cyprus.

Active surveillance

In Cyprus there are no stations for capturing and ringing of wild birds and therefore the number of live birds submitted for testing is expected to be limited. Active surveillance will consist of faecal samples collected between October and February from high risk areas such as Achna dam and salt lakes in Larnaca and Acrottri. During the rest of the year the temperatures in Cyprus are high and faecal samples get dry fast and are not appropriate for testing. Two pooled faecal samples will be collected per high risk area every week between October and February. Therefore, during the five month period we expect to collect and test 2*5*4*3=120 samples. However, based on the experience of the previous year, in case the draught continues migration of birds might be low and it might not be possible to collect all those samples.

Passive surveillance

Birds found dead in high risk areas will be collected and examined for Al virus. Based on the experience of previous years, it is expected to examine around 150 birds of the species that are considered of high risk for transmitting the virus.

Samples from imported companion birds in quarantine and zoo birds (αbout 30 samples will be tested for virus isolation).

Table 3.2.1 WILD BIRDS - investigation according to the surveillance programme for avian influenza in wild birds set out in Annex II to Decision 2007/268/EC

| NUT (2) code/regionia | Wild birds to be sampled (9) | 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 |
|-----------------------|---|-------------------------------------|---|--|
| | Various species included those listed in Part D of Annex II of Commission Decision 2007/268/EC, depending on migration. | 150 | 120 | 150 |
| | | | | |
| Total | | 150 | 120 | 150 |

Refers to the place of collection of birds/samples. In case NUTS 2 code can not be used, region as defined in the programme by the Member State is requested

Contend description of the wild birds are intended to be sampled in the framework of the active and passive surveillance.

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3.3 Laboratory testing: description of the laboratory tests used

According to Chapter V of Commission Decision 2006/437/EC

4. <u>Description of the epidemiological situation of the disease in poultry during the last five years</u>

No avian influenza virus was detected in samples collected from poultry farms in the framework of the surveillance programmes carried out by the Veterinary Services during the last years.

4.1 Measures included in the programme for poultry surveillance

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

The Veterinary Services (VS) are subordinated to the Ministry of Agriculture Environment and Natural Recourses. The VS are responsible for the application of the control program of Avian Influenza programme in poultry and wild birds.

The five District Veterinary Offices and the five Regional Veterinary Stations are responsible for the collection and transport of samples to the Laboratories of the Veterinary Services.

4.1.2 System in place for the registration of holdings

The central authority has registered officially all holdings with breeding flocks according to N. 88 (i)/1999 as amended by 281(l)/2004, and Directive 90/539/EEC and all holdings with laying flocks according to N. 118 (l)/2000 as amended by 276(l)/2004.

The rest of holdings have been identified by the Veterinary Services VS, however, no official registration of has been carried out yet.

4.1.3 Data on vaccination

No vaccination for avian influenza is applied in Cyprus

5. <u>Description of the epidemiological situation of the disease in wild birds during the</u>
last five years

No HPAI virus was detected in wild birds sampled in the framework of the surveillance programmes. However H1N1 was detected in wild birds in August 2006.

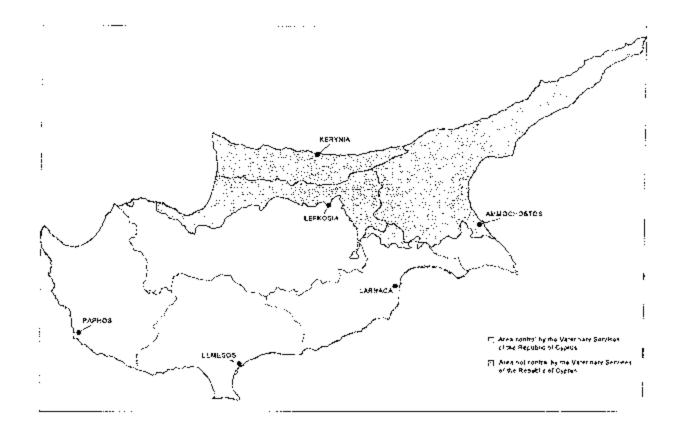
- 5.1. Measures included in the programme for surveillance in wild birds
 - 5.1.1 Designation of the central authority in charge of supervising and coordinating the departments responsible for implementing the programme:

The Veterinary Services (VS) are subordinated to the Ministry of Agriculture Environment and Natural Recourses. The VS are responsible for the application of the control program of Avian Influenza programme in poultry and wild birds.

The five District Veterinary Offices and the five District Veterinary Stations are responsible for the collection and transport of samples to the Central Veterinary Laboratory (CVS).

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

The program is implemented in the area of Cyprus which is under the effective control of the Government of Cyprus.



5.1.3 Estimation of the local and/or migratory wildlife population

Monitoring of local and migratory wildlife population is performed by the Game Fund. According to its reports the number of migratory birds during 2007-2008 is considerably lower compared to previous years, due to the continuous draught in the area.

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

Any case of Avian Influenza should be notified according to Animal Health Laws of 2001 until 2007 (N. 109(1)/2001, N. 82(I)/2003, N. 116(I)/2007). Furthermore, any such case will be notified to the EU through ADNS and OIE according to the relevant legislation provisions.

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7.1.1 Poultry

The cost of the surveillance programme for poultry consists of the cost of the tests performed on samples collected.

7.1.2 Wild blrds

The cost of the surveillance programme for wild birds consists of the cost of the tests performed on samples collected.

Summary of the costs 7.2

7.2.1 Poultry surveillance

| Measu | Measures eligible for co-financing surveillance in poultry | in poultry | |
|---|--|--------------------------------|------------|
| Methods of laboratory analysis | Number of tests to perform per method | Unitary test cost (per method) | Total cost |
| Serological pre-screening ² | | | |
| Haemagglutination-inhibition-test (HI) for H5/H73 | 1,705 | 610 | 617,050 |
| Virus isolation test | | | |
| PCR test | | | |
| Orner measures to be covered | Specify activities | | |
| Sampling | 50/H | 13 | £1,705 |
| Others | | | |
| Total | | | e18,755 |

Specify the laboratory test to be used Specify number of tests for 115 and for H7

| Meas | Measures eligible for co-financing survelllance wild birds | e wild birds | |
|--|--|--------------------------------|--------------|
| Methods of laboratory analysis | Number tests to perform per method | Unitary test cost (per method) | Total cost |
| Serological pre-screening | | | |
| Haemagglutination-inhibition-test (HI) for H5/H7 | | | |
| Virus Isolation test | 300 | 630 | 000'63 |
| PCR test | | | - - |
| Other measures to be covered | Specify activities | | |
| Sampling | 300 | | 6300 |
| Others | | | |
| Total | | | 69,300 |
| | | | |

