

EUROPEAN COMMISSION HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit 04 - Veterinary Control Programmes

SANCO/10333/2009

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 2010 by Commission Decision 2009/883/EC



* in accordance with Council Decision 2009/470/EC



Central Agricultural Office Animal Health and Animal Welfare Directorate

HUNGARY

Application

for Community financing for the national control programme of Hungary for

Avian Influenza

for the year 2010.

30th of April, 2009

1. Identification of the programme

Member State:

Hungary

Disease:

Avian Influenza

Year of implementation:

2010

Reference of this document:

2007/268/EC: Commission Decision of 13 April

2007 on the implementation of surveillance

programmes for avian influenza in poultry and wild birds to be carried out in the Member States and

amending Decision 2004/450/EC

02/1888/2008.

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Animal Health and Animal Welfare Directorate

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Date sent to the Commission:

30th of April, 2009

2. Description of the surveillance programme in poultry

2.1 Objectives, general requirements and criteria

2.1.1 Timeframe and Reporting

Sampling will be started at the beginning of the year 2010 and shall be finished by the end of 2010. (The survey shall be completed by the 31st of December, 2010.) The final report of the survey will be submitted to the Commission and the CRL until 31st of March, 2011 at the latest.

A monthly report containing all positive results found during the survey will be provided to the Commission by the Animal Health and Animal Welfare Directorate of the Central Agricultural Office by the end of each month.

2.1.2 Laboratories involved:

All samples will be tested by the National Reference Laboratory for Avian Influenza (NRL), no other laboratory will be involved.

National Reference Laboratory for Avian Influenza (NRL):

Name:

Veterinary Diagnostic Directorate of the Central Agricultural Office

Állategészségügyi Diagnosztikai Igazgatóság

Address:

1149 Budapest, Tábornok u. 2., Hungary

Mailing Address:

1581 Budapest, 146. Pf. 2., Hungary

Tel.:

+36-1-460-6300

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+36-1-252-5177

E-mail:

titkarsag@oai.hu

2.2 Design and implementation

2.2.1 Selection of the holdings to be sampled

In order to get relevant data, the number of holdings of the different poultry categories were actualised before having calculated the number of holdings to be sampled. Some counties with very low population of a given poultry category (or with absence of it) are excluded from the programme (regarding that category of poultry).

Poultry categories to be sampled

The poultry holdings to be sampled (except ducks and geese) are indicated in Table 2.2.1.1 – Table 2.2.1.8. The duck and goose holdings to be sampled are indicated in Table 2.2.2.2:

Table 2.2.1.1: Holdings of laying hens

Table 2.2.1.2: Holdings of free range laying hens

Table 2.2.1.3: Chicken breeder holdings

Table 2.2.1.4: Fattening turkey holdings

Table 2.2.1.5: Turkey breeder holdings

Table 2.2.1.6: Ratite holdings (emus, ostriches)

Table 2.2.1.7: Holdings of farmed feathered game (pheasants, partridges, mallards)

Table 2.2.1.8: Holdings of "backyard flocks"

Table 2.2.2: Duck and goose holdings

(see tables on the following pages)

Table 2.2.1.1 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of LAYING HENS

	1	1		1				T
Methods of laboratory analysis	E	工	王	王	Ī	=	Ŧ	
Total number of tests to be performed per method	100	100	06	40	06	80	100	009
Number of samples per holding	10	10	10	10	10	10	10	177
Total number of holdings to be sampled	10	10	6	4	o	8	10	09
Total number of holdings	09	54	61	35	55	58	190	513
NUT (2) code	HU10	HU21	HU22	HU23	HU31	HU32	HU33	TOTAL

Table 2.2.1.2 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of FREE RANGE LAYING HENS

	T	Т	Τ
Methods of laboratory analysis		A STATE OF THE STA	
Total number of tests to be performed per method	09	30	06
Number of samples per holding	10	10	THE REAL PROPERTY OF THE PROPE
Total number of holdings to be sampled	9	3	6
Total number of holdings	9	3	6
NUT (2) code	HU31	HU32	TOTAL

Table 2.2.1.3 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of CHICKEN BREEDERS

		1			···r	_		
Methods of laboratory analysis	F		王	王	=	王	五	
Total number of tests to be performed per method	09	180	100	10	40	100	40	530
Number of samples per holding	10	10	10	10	10	10	10	
Total number of holdings to be sampled	9	18	10	-	4	10	4	53
Total number of holdings	11	63	31	-	9	29	7	148
NUT (2) code	HU10	HU21	HU22	HU23	HU31	HU32	HU33	TOTAL

Table 2.2.1.4 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of FATTENING TURKEYS

Methods of laboratory analysis	工	-	—	T	士	I	I	
Total number of tests to be performed per method	10	09	380	100	20	80	250	006
Number of samples per holding	10	10	10	10	10	10	10	
Total number of holdings to be sampled	_	9	38	10	2	æ	25	06
Total number of holdings	2	26	161	61	5	24	83	362
NUT (2) code	HU10	HU21	HU22	HU23	HU31	HU32	HU33	TOTAL

Table 2.2.1.5 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of TURKEY BREEDERS

	Т			1	1
Methods of laboratory analysis	Ŧ	豆	王	T	And the second s
Total number of tests to be performed per method	20	40	150	-	320
Number of samples per holding	10	10	10	10	
Total number of holdings to be sampled	2	4	15	11	32
Total number of holdings	2	4	15	11	32
NUT (2) code	HU10	HU31	HU32	HU33	TOTAL

Table 2.2.1.6 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of RATITES

		<u> </u>	_	_
Methods of laboratory analysis	Ŧ	士	T	
Total number of tests to be performed per method	10	20	30	09
Number of samples per holding	10	10	10	
Total number of holdings to be sampled		2	က	9
Total number of holdings		2	8	9
NUT (2) code	HU21	HU31	HU32	TOTAL

Table 2.2.1.7 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of FARMED FEATHERED GAME (pheasants, partridges, mallards)

				,		,	,	
Methods of laboratory analysis	工	豆	王	工	Ī	Ξ	二	
Total number of tests to be performed per method	30	06	40	30	110	40	100	440
Number of samples per holding	10	10	10	10	10	10	10	
Total number of holdings to be sampled	3	ō	4	ဗ		4	10	44
Total number of holdings	3	o	4	3	11	4	10	44
NUT (2) code	HU10	HU21	HU22	HU23	HU31	HU32	HU33	TOTAL

Table 2.2.1.8 POULTRY HOLDINGS (except ducks and geese) TO BE SAMPLED

Serological investigation on holdings of "BACKYARD FLOCKS"

		_	1	_		Ł		r
Methods of laboratory analysis	H	T		—		王	〒	
Total number of tests to be performed per method	009	009	009	009	009	009	900	4200
Number of samples per holding	10	10	10	10	10	10	10	
Total number of holdings to be sampled	09	09	09	09	09	09	09	420
Total number of holdings	14735	21509	50400	62931	41870	50036	41230	282711
NUT (2) code	HU10	HU21	HU22	HU23	HU31	HU32	HU33	TOTAL

Table 2.2.2 DUCK AND GOOSE HOLDINGS TO BE SAMPLED

Serological investigation

						_		
Methods of laboratory analysis	Ŧ	Ī	五	王	軍	王	王	
Total number of tests to be performed per method	800	320	120	80	320	2360	3600	7600
Number of samples per holding	40	40	40	40	40	40	40	
Total number of duck and goose holdings to be sampled	20	8	e	2	8	59	06	190
Total number of duck and goose holdings	20	8	င	2	8	93	583	716
NUT (2) code ^(b)	HU10	HU21	HU22	HU23	HU31	HU32	HU33	TOTAL

2.3 Laboratory testing: description of the laboratory tests used

For the testing of all poultry categories mentioned in section 2.2.1, the haemagglutination inhibition test (HI) will be used. The serological testing with the HI method for avian influenza subtypes H5 and H7 will be carried out. Birds showing positive result for serological tests will be re-tested by virus isolation using 9-11 days old embryonated incubated eggs and by RT-PCR.

All laboratory tests will be carried out in accordance with Chapter 2.7.12. on Highly Pathogenic Avian Influenza of Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Fifth Edition, OIE and Commission Decision 2006/437/EC approving a Diagnostic Manual for avian influenza as provided for in Council Directive 2005/94/EC.

3. Description of the surveillance programme in wild birds

3.1 Objectives, general requirements and criteria

The Animal Health and Animal Welfare Directorate of the Central Agricultural Office, in cooperation with other directorates of the same office and with the Ministry of Agriculture and Rural Development as well as with the Ministry for Environment and Water and the Hungarian Ornithological Society are continuing to monitor wild birds for Avian Influenza.

3.1.1 Timeframe and Reporting

Sampling will be started at the beginning of the year 2010 and shall be finished by the end of 2010. (The survey shall be completed by the 31st of December, 2010.) The final report of the survey will be submitted to the Commission and the CRL until 31st of March, 2011 at the latest.

A monthly report containing all positive results found during the survey will be provided to the Commission by the Animal Health and Animal Welfare Directorate of the Central Agricultural Office by the end of each month.

3.1.2 Laboratories involved:

All samples will be tested by the National Reference Laboratory for Avian Influenza (NRL), no other laboratory will be involved:

Name: Veterinary Diagnostic Directorate of the Central Agricultural Office

Állategészségügyi Diagnosztikai Igazgatóság

Address: 1149 Budapest, Tábornok u. 2., Hungary

Mailing Address: 1581 Budapest, 146. Pf. 2., Hungary

Tel.: +36-1-460-6300

Fax: +36-1-252-5177 E-mail: titkarsag@oai.hu

3.2 Design and implementation

The monitoring programme includes the testing of 3500 wild birds in total.

The samples to be taken will be stratified as follows:

- 40% passive surveillance
- 60% active surveillance

3.2.1 Passive surveillance

The passive surveillance involves those sick and dead wild birds, which will be found in:

- areas where increased incidence of morbidity and mortality in wild birds occurs;
- areas close to the lakes and waterways in particular when these areas are in proximity to domestic poultry farms;
- areas where cases of HPAI H5N1 have been identified in wild birds or poultry to possibly identify asymptomatic carriers;
- areas epidemiologically linked to these cases.

The passive surveillance will be targeted on birds belonging to identified "higher risk" species listed in part D of Annex II of the Commission Decision 2007/268/EC on the implementation of surveillance programmes for avian influenza in poultry and wild birds to be carried out in the Member States and amending Decision 2004/450/EC and other wild birds living in close proximity with them and also on birds coming possibly in close contact to domestic poultry holdings, which might function as "bridge species", in particular those that are listed in part E of Annex II of the Commission Decision mentioned above.

3.2.2 Active surveillance

The active surveillance involves living and clinically healthy and/or clinically diseased, injured or hunted birds. The samples to be taken will be stratified as follows:

- 70% water fowl (Anseriformes) which will be sampled during the hunting season from shot birds
- 30% other wild birds such as Charidriiformes (shore birds and gulls), swans, pigeons, etc. including zoo birds and birds kept in sanctuaries.

The location of sampling will be selected in co-operation with the above named institutions in order to concentrate on high risk resting areas of migratory water fowl crossing the territory of Hungary.

Table 3.2.1 indicates the planned amount of wild birds to be sampled.

Table 3.2.1 WILD BIRDS TO BE SAMPLED

NUT (2) code	Wild birds to be sampled	Total number of samples to be taken for active surveillance	Total number of samples to be taken for passive surveillance	
HU10	Anseriformes	130	400	
11010	Charidriiformes and others	50	120	
HU21	Anseriformes	220	0.40	
H021	Charidriiformes and others	100	210	
HU22	Anseriformes	220	040	
HU22	Charidriiformes and others	100	210	
HU23	Anseriformes	220	0.40	
HU23	Charidriiformes and others	100	210	
HU31	Anseriformes	210		
поэт	Charidriiformes and others	90	190	
HU32	Anseriformes	220	000	
HUSZ	Charidriiformes and others	100	230	
HU33	Anseriformes	240	000	
nuss	Charidriiformes and others	100	230	
TOTAL		2100	1400	

3.3 Laboratory testing: description of the laboratory tests used

The swab samples for wild bird monitoring will be tested by molecular biological methods. Molecular biological testing (RT-PCR) will be performed with the general influenza A primer M-gene (M +25, M-124 and M +64 probe) and using H5, H7 and N1 primers (VLA protocol, 2006). Positive samples will be re-tested by virus isolation test (VI). Dead birds collected and sent into the laboratory will undergo routine post-mortem inspection including pathohistology.

All laboratory tests will be carried out in accordance with Commission Decision 2006/437/EC approving a Diagnostic Manual for avian influenza as provided for in Council Directive 2005/94/EC.

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

In Hungary the first outbreak of avian influenza in poultry caused by the highly pathogen H5N1 virus was in June-July of 2006. There were 29 outbreaks at this time. All outbreaks were immediately localised and eradicated. No reoccurrence was present. In January of 2007 there were 2 outbreaks. These outbreaks were immediately localised and eradicated, too. There was no connection in between the outbreaks of 2006 and 2007.

4.1 Measures included in the programme for poultry surveillance

4.1.1 Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme

Animal Health and Animal Welfare Directorate of the Central Agricultural Office

Address: H-1149 Budapest, Tábornok u. 2.

Tel: +36-1-460-6300

Fax: +36-1-222-6065

4.1.2 System in place for the registration of holdings

All holdings are registered by the competent County Food Chain Safety and Animal Health Directorates. The directorates submit these registration data of holdings to the Animal Health and Animal Welfare Directorate of the Central Agricultural Office.

4.1.3 Data on vaccination

In Hungary the use of any type of vaccines against the virus of avian influenza in poultry is prohibited.

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

There were 64 positive cases for the virus of HPAI in wild birds in 2006.

5.1 Measures included in the programme for wild birds surveillance

5.1.1 Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme

Animal Health and Animal Welfare Directorate of the Central Agricultural Office

Address: H-1149 Budapest, Tábornok u. 2.

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Fax: +36-1-222-6065

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

The surveillance programme is extended to the whole territory of Hungary taking into consideration that large amount of migrating wild birds from different species crosses or have rest in this area. The geographical and administrative areas are bound according to the county system in Hungary. The County Food Chain Safety and Animal Health Directorates are responsible for the local management of the programme.

5.1.3 Estimation of the local and migratory wildlife population

The estimated local wildlife population in Hungary consists of approximately 9731000 – 13206000 pair of nesting birds (ie. 19462000 – 26412000 birds) and 10273000 – 18122000 wintering birds.

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

In case of founding a suspicious case the owner or the veterinarian of the holding or the founder of the wild bird should immediately notify the competent district veterinary officer who decrees about the obligatory measures according to the contingency plan for the control of avian influenza and Newcastle disease in Hungary. This contingency plan is approved by the Commission in the Commission Decision No. 2004/402/EC.

Except the contingency plan the Decree of the Minister of Agriculture and Rural Development No. 143/2007. (XII. 4.) on detailed rules of protection against avian influenza contains measures to be taken in case of a suspicion of the disease of avian influenza.

7.1 Detailed analysis of the costs

7.1.1 Poultry (see Table 7.1.1)

Table 7.1.1 Detailed analysis of the costs (Poultry)

TOTAL (HI+PCR+VI)	16800	:		239710
~7% VI	1030	VI	25	25750
~7% PCR	1030	PCR	36	37080
SUBTOTAL (HI)	14740			176880
Ducks and geese	7600	HI (H5+H7)	12	91200
Backyard flocks	4200	HI (H5+H7)	12	50400
Farmed feathered game	440	HI (H5+H7)	12	5280
Ratites	60	HI (H5+H7)	12	720
Turkey breeder	320	HI (H5+H7)	12	3840
Fattening turkeys	900	HI (H5+H7)	12	10800
Chicken breeder	530	HI (H5+H7)	12	6360
Free range laying hens	90	HI (H5+H7)	12	1080
Laying hens	600	HI (H5+H7)	12	7200
Poultry category	Total number of tests to be performed per method	Methods of laboratory analysis	Unitary test cost per method (EUR)	Total cost (EUR)

7.1.2 Wild birds (see Table 7.1.2)

Table 7.1.2 Detailed analysis of the costs (Wild birds)

Type of surveillance	Total number of tests to be performed per method	Methods of laboratory analysis	Unitary test cost per method (EUR)	Total cost (EUR)
Active	2100	PCR	36	75600
Passive	1400	PCR	36	50400
SUBTOTAL (PCR)	3500			126000
10% VI	350	VI	25	8750
TOTAL (PCR + VI)	3850			134750

7.2.1 Poultry surveillance (see Table 7.2.1)

Table 7.2.1 Measures eligible for co-financing surveillance in poultry

Methods of laboratory analysis	Number of tests to perform per method	Unitary test cost per method (EUR)	Total cost (EUR)
Serological pre-screening		-	-
Haemagglutination-inhibition- test (HI)	14740 (14740 for H5 and 14740 for H7)	12	176880
Virus isolation test (VI)	1030	25	25750
PCR test (RT-PCR)	1030	36	37080
Other measures to be covered	Specify activities		
Sampling	-	-	-
Others	-	-	-
TOTAL			239710

7.2.2 Wild bird surveillance (see Table 7.2.2)

Table 7.2.2 Measures eligible for co-financing surveillance in wild birds

Methods of laboratory analysis	Number of tests to perform per method	Unitary test cost per method (EUR)	Total cost (EUR)
Serological pre-screening	-	-	-
Haemagglutination-inhibition-test (HI)	-	-	-
Virus isolation test (VI)	350	25	8750
PCR test (RT-PCR)	3500	36	126000
Other measures to be covered	Specify activities		
Sampling	3500 swab sampling	20	70000
Others	-	-	**
TOTAL			204750