

EUROPEAN COMMISSION

HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit 04 - Veterinary Control Programmes

SANCO/12951/2010

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 2011 by Commission Decision 2010/712/EU



^{*} 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 2011.

30th of April, 2010 Corrected on 14 Septenber, 2010

1. Identification of the programme

Member State:

Hungary

Disease:

Avian Influenza

Year of implementation:

2011

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

Article 27 of Council Decision 2009/470 EC

Comission Decision 2008/425 EC

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Animal Health and Animal Welfare Directorate

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Date sent to the Commission:

30th of April, 2010

Corrected 14th of September 2010

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 2011 and shall be finished by the end of 2011. (The survey shall be completed by the 31st of December, 2011.)

The final report of the survey will be submitted to the Commission and the CRL until 31st of March, 2012 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

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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.:

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

								-
Methods of laboratory analysis	T	T	T	王	T	Ī	T	
Total number of tests to be performed per method	50	30	50	20	100	100	250	009
Number of samples per holding	10	10	10	10	10	10	10	
Total number of holdings to be sampled	5	3	ນ	2	10	10	25	09
Total number of holdings	25	47	58	20	67	76	205	530
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

ts Methods of laboratory an analysis				
Total number of tests to be performed per method	50	10	20	80
Number of samples per holding	10	10	10	
Total number of holdings to be sampled	ص	-	2	
Total number of holdings	5	1	2	8
NUT (2) code	HU21	HU32	HU 33	TOTAL

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

Serological investigation on holdings of CHICKEN BREEDERS

Methods of laboratory analysis	T	Ī	三	T	—	T	工	
Total number of tests to be performed per method	70	180	100	30	10	120	20	630
Number of samples per holding	10	10	10	10	10	10	10	
Total number of holdings to be sampled	2	18	10	3	_	12	2	23
Total number of holdings	13	45	25	8	2	30	5	128
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

NUT (2) code	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
HU10	1	1	10	10	Ξ
HU21	52	9	10	09	T
HU22	411	29	10	290	-
HU23	49	12	10	120	T
HU31	5	2	10	20	T
HU32	28	7	10	70	I
HU33	63	23	10	230	Ī
TOTAL	318	80		800	

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

Serological investigation on holdings of TURKEY BREEDERS

	_	1	1		Acres Comme
Methods of laboratory analysis	H	H	Ξ.	T	
Total number of tests to be performed per method	10	10	40	30	06
Number of samples per holding	10	10	10	10	
Total number of holdings to be sampled	1	1	4	3	0
Total number of holdings	1	7	4	ဧ	6
NUT (2) code	HU10	HU23	HU31	HU32	TOTAL

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

Serological investigation on holdings of RATITES

Methods of laboratory analysis	王	=	王	
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	3	9
Total number of holdings	1	2	3	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, guinea fowl)

					ı		
Methods of laboratory analysis	王	亍	王	T		<u> </u>	
Total number of tests to be performed per method	30	40	20	10	9	260	4200
Number of samples per holding	10	10	10	10	10	10	
Total number of holdings to be sampled	တ	4	2	_	9	56	42
Total number of holdings	4	2	3	1	8	33	294
NUT (2) code	HU10	HU21	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"

Methods of laboratory analysis		—	—	T			<u> </u>	
Total number of tests to be performed per method	009	006	006	009	009	006	900	2100
Number of samples per holding	10	10	10	10	10	10	10	
Total number of holdings to be sampled	9	06	06	09	09	06	90	510
Total number of holdings	11495	82836	97526	47893	43460	163896	38645	485751
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	Ī	T	Ŧ	H	H	Ī	Ξ	
Total number of tests to be performed per method	240	80	0	80	120	2360	3600	6480
Number of samples per holding	40	40	40	40	40	40	40	
Total number of duck and goose holdings to be sampled	9	2	0	2	3	59	06	162
Total number of duck and goose holdings	12	4	0	ស	9	127	831	388
NUT (2) code ^(b)	HU10	HU21,	HU22	HU23	HU31	HU32	HU33	ТОТАГ

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 2011 and shall be finished by the end of 2011. (The survey shall be completed by the 31st of December, 2011.)

The final report of the survey will be submitted to the Commission and the CRL until 31st of March, 2012 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

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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	120	
11010	Charidriiformes and others	50	12U	
HU21	Anseriformes	220	210	
HU21	Charidriiformes and others	100	210	
LILIOO	Anseriformes	220	210	
HU22	Charidriiformes and others	100	210	
111122	Anseriformes	220	210	
HU23	Charidriiformes and others	100	210	
111104	Anseriformes	210	400	
HU31	Charidriiformes and others	90	190	
111100	Anseriformes	220	020	
HU32	Charidriiformes and others	100	230	
111122	Anseriformes	240	220	
HU33	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.

There was 1 LPAI case in March and 7 LPAI cases in December confirmed in wild birds 2009.

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

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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. In 2009 there were 8 LPAI positive cases.

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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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)

Poultry category	Total number of tests to be performed per method	Methods of laboratory analysis	Unitary test cost per method (EUR)	Total cost (EUR)
Laying hens	600	HI (H5+H7)	12	7200
Free range laying hens	80	HI (H5+H7)	12	960
Chicken breeder	530	HI (H5+H7)	12	6360
Fattening turkeys	800	HI (H5+H7)	12	9600
Turkey breeder	90	HI (H5+H7)	12	1080
Ratites	60	HI (H5+H7)	12	720
Farmed feathered game	420	HI (H5+H7)	12	5040
Backyard flocks	5100	HI (H5+H7)	12	61200
Ducks and geese	6480	HI (H5+H7)	12	77760
SUBTOTAL (HI)	14160			169920
~5% PCR	708	PCR	36	25488
~3% VI	425	VI	25	10625
TOTAL (HI+PCR+VI)	15293			206033

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)	14160 (14160 for H5 and 14160 for H7)	12	169920
Virus isolation test (VI)	425	25	10625
PCR test (RT-PCR)	708	36	25488
Other measures to be covered	Specify activities		
Sampling	-	-	-
Others	-	-	-
TOTAL	15293		206033

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)	380	25	9500
PCR test (RT-PCR)	3800	36	136800
Other measures to be covered	Specify activities		÷
Sampling	3800 swab sampling	20	76000
Others .	_	-	. •
TOTAL			222300