

EUROPEAN COMMISSION HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit 04 - Veterinary Control Programmes

SANCO/3878/2008

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



SURVEILLANCE PROGRAMME FOR AVIAN INFLUENZA IN POULTRY AND WILD BIRDS

Commission Decision 90/424/EC Annex IV

Country:

Malta

Disease:

Avian influenza

Year:

2009

Identification of the programme

Member state	Malta
Disease	Avian Influenza
Year of implementation	2009
Reference of this document	
Contact details	Dr. Anthony Gruppetta
ı	Phone: :356 25905168
	Fax: →356 25905182
!	e-mail: cvo.mtac@gov.mt
	susan.chircop@gov.mt
Date sent to the Commission	28 th April 2008

2. Description of the surveillance programme in poultry

2.1 Objectives, general requirements and criteria

The objective of the programme includes:

- Achieving harmonization with other EU countries in veterinary control and surveillance programmes;
- The strengthening of veterinary epidemiological surveillance measures in accordance with EU legislation;
- Ensuring the early recognition of sub-clinical infections of Low PathogenicAvian Influenza within the local animal population;
- The rapid implementation of investigation protocols with all relevant restrictions on the movement of animals and animal products coming into force until confirmatory results are received.

- Contribute to achieving a disease free status for Malta from notifiable Avian Influenza
- To conform to community legislation with regards the surveillance of avian influenza in poultry and wild birds EC/94/2005.
- To enhance the surveillance of Avian influenza in wild bird species through increased collaboration with hunting organisations and conservation groups.

2.2 Design and implementation

Sampling strategy

- Sampling shall take place between January and December 2009. For poultry flocks sampling shall be carried out during the relevant production periods.
- Samples shall be tested at the National Veterinary Laboratory in Malta using ELISA and any positive samples sent to the CRI, for confirmatory testing.
- Any Confirmed positive holdings will be retrospectively investigated by the Veterinary Regulation, Fisheries Conservation and Control Division.

Poultry flocks

(i) EGG LAYER HOLDINGS

REGION	NO.OF HOLDINGS TO BE SAMPLED	NUMBER OF SAMPLES (15 birds/holding)
MALTA	33	495
GOZO	8	120
TOTAL	41	615

(II) MIXED POULTRY FARMS

REGION	NO.OF HOLDINGS TO BE SAMPLED	NUMBER OF SAMPLES (15 birds/holding)
MALTA	38	570
GOZO	0	0
TOTAL	38	570

(III) TURKEY HOLDINGS (two sheds per holding)

REGION	TOTAL NUMBER OF HOLDINGS	NUMBER OF SAMPLES (20/holding)
MACTA	<u> </u>	20
GOZO	0	0
TOTAL	1	20

Migratory/ wild birds

	SPECIES	NUMBER OF SAMPLES TAKEN
:	Waterfowl	100
İ	Shorebirds	40
	Others	10
	Total	150

Table 2.2.1 POULTRY HOLDINGS (8) LAYING HENS TO BE SAMPLED

Serological investigation according to point B of Annex I to Commission Decision 2007/268/EC on laying hens

:		1
Methods of laboratory analysis.	ELISA	
Total number of tests to be performed per method		
	015	613
Number of samples per holding	15	15
Total number of holdings to be sampled		41
Total number of holdings ^(c)	14	41
NUTS (2) code ⁽⁰⁾	Mr.	Total

Holdings or herds or flocks or establishments as appropriate.
Refers to the location of the holding of origin. In case NUTS (Nomenclature of Territorial Units for Statistics) 2 can not be used, coordinates (long/lat- to Œ

write out) are requested. Total number of holdings of one category of poultry in concerned NUTS 2 region. છ

Table 2.2.1.2 POLITRY HOLDINGS (a) LAYING HENS/BROILER (MIXED FARMS) TO BE SAMPLED

Serological investigation according to point B of Annex I to Commission Decision 2007/268/EC2 on laying hens/broilers mixed farms

ELISA	!		
570			570
15			15
388			38
38			38
MILI			Total
	38 15 570 ELISA	(T1) 38 15 570 ELISA	(TT) 38 15 570 ELLISA

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Serological investigation according to point B of Annex I to Commission Decision 2007/268/FC3 on unrivies Table 2.2.1.3 POULTRY HOLDINGS (a) TURKIES TO BE SAMPLED

NUTS (2) cnde ⁽⁰⁾	Total number of	Total number of	Number of samples per	Potal number of tests to	Methods of Jaboratory
	holdings ^{to}	holdings to be sampled	իօկուրց	be performed por method	analysis.
MILI		1	20	30	H)
			<u> </u>		
] 	İ	!
			` 		!
] 		
Total	1		30	20	<u> </u>

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Table 2.2.2 DUCK AND GEESE HOLDINGS TO BE SAMPLED(14) according to point C of Annex I to Decision 2007/268/EC

Serological investigation

<u> </u>] (1
Methods of liduratory analysis.		
Total number of tests to be performed per method		
Number of samples per holding	0	
Total number of duck Total number of duck Number of samples per and geese holdings to be holding sampled	0	
Total number of duck and geese holdings		9
NUTS 2 code ^(b)	MT!	Total

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Holdings or berds or flocks or establishments as appropriate.
Refers to the location of the holding of origin. In case NUTES 2 code can not be used, coordinates (long-lat - to write out) are requested.

2.3 Laboratory testing: description of the laboratory tests used

- The initial screening of the blood samples will be carried out at the National Veterinary Laboratory
 of the Veterinary Regulation Fisheries Conservation and Control Division using the IDEXX ELISA
 kits.
- Any positive samples to the ELISA screening test will be sent to the Community Reference Laboratory for axian influenza in Weybridge, UK;
- Virus isolation and PCR on faceal and tracheal samples from wild birds shall be carried out by the Community Reference Laboratory for avian influenza in Weybridge, UK.

Description of the surveillance programme in wild birds:

3.1 Objectives, general requirements and criteria

The objectives of the programme are to maintain vigilance for the appearance of strains of Avian Influenza in local and migratory wild bird species through active and passive sorveillance.

Around 380 are species have been recorded in the islands. About 50 are winter visitors, 112 more or less regular migrants and the rest rare and irregular migrants or vagrants. The presence of birds in summer months is rather low with the peak of activity attained in spring and autumn. Although there is a consistent migration of birds throughout the islands in both seasons, weather conditions greatly affect the numbers of migrants. On some days during migration the islands may experience a large influx of birds, while at other times there may be very little movement in evidence.

The migrants include both species that winter south of the Sahara and those that go no further than the Mediterranean basin. During late summer, herons, raptors, waders, hirundines, several warblers and chats are present on the island.

These increase dramatically in September and October. In November the migration of trans-Saharan migrants is over and replaced by influxes of the wintering species, some waterfowl and plovers, finches and other passerines.

In spring a similar progression, but in reverse order, can be observed between early

March and late May, Hoopoes, Marsh Harriers, Grey and Night Herons and Swallows and Martins in transit are amongst the first to appear in Spring. They are followed by small passerines such as Subalpine, Great Reed and leterine Warblers and later by Golden Orioles, Bee Eaters, Woodchat Shrikes and the occasional Roller.

3.2 Design and implementation

Wild ducks and other migratory birds shall be sampled by means of cloacal swabs, tracheal swabs and/or faccal samples, which shall be sent to the CRL in Weybridge for testing by means of PCR and viral isolation. The collaboration with hunting associations, bird conservation groups, bird parks and bird sanctuaries will be maintained. This will ensure a continuous supply of samples from migratory wild bird species for active and passive surveillance.

In the Maltese Islands there are two establishments that function as a bird park and as a falconry center. Close contact with these centers is maintained as the presence of the captive birds in these establishments may act as an attraction to migrating bird species.

There are also two main bird sanctuaries one in Mistra, the Simar reserve, and one in Mellicha, the Ghadira reserve, which are run by local conservation groups where wild birds may aggregate. Samples from these parks are also taken through collaboration with the conservation groups involved.

The VRFCCD also has in place a help line through which the public can notify the division with regards to any wild birds found dead in the countryside or the coastline.

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

(c)	(b)			
10(8) concat6101	Wild burds to be sampled "	Total number of birds to be sampled	Total number of samples to be taken for active surveillance	Total number of samples to be taken for passive surveillance
Maltn and Gozo	Water Birds	100	30	50
	Shore Birds	40	30	
	Others	01	2	- S
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	<u> </u> 	ļ		
Total		150	75	75
o to the whom of an land on the	The second secon			

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

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General description of the wild birds are intended to be sumpled in the framework of the active and passive surveillance. . **.**

3.3 Laboratory testing: description of the laboratory tests used

- Virus isolation and PCR on faecal, clocal and tracheal samples from wild birds shall be carried out by the Community Reference Laboratory for avian influenza in Weybridge, UK.
- Swabs will be dispatched by fast courier to the CRL under suitable conditions to ensure the survival
 of the virus if this is present in the sample.

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

Surveillance programme 2002

In 2002 an EU funded epidemiological survey was carried out on the poultry population of Malta and Gozo. Sampling was carried out at slaughter houses in most of the cases. All the 139 farms tested were negative. In total 1680 samples were tested in 2002.

Surveillance programme 2003

No Al surveillance was carried out in 2003

Surveillance programme 2004

A total of 38 poultry holdings were sampled and tested in 2004. A total of 341 birds were tested using IDEXX ELISA. Thirty of the sera were sent to the CRL for confirmatory tests. None of the holdings or samples tested were positive.

Surveillance programme 2005

A total of 63 poultry farms in Malta and 9 farms in Gozo were tested during the surveillance programme carried out during 2005. The blood samples were tested locally using the IDEXX kit for avian Influenza. Samples from 33 holdings in Malta and 3 in Gozo gave positive results. These were sent to the CRL for AI in Weybridge, UK for confirmation using the hacmagglutination-inhibition tests for H5/H7. All samples resulted negative to the confirmatory test.

Surveillance programme 2006

The surveillance of poultry flocks was similar to that for the year 2005. An intensification of the number of samples from poultry holdings has been undertaken. The number of holdings sampled in 2006 was 71, while the number of birds sampled was 1239. All samples were negative.

Surveillance programme 2007

In 2007, 74 layer holdings were sampled. A total of 709 samples were collected and tested during this year.

None of the samples tested in 2007 tested positive for Avian Influenza.

Surveillance programme 2008

The surveillance of poultry flocks shall be similar to that of the previous years and is being carried out using IDEXX ELISA kits.

Surveillance programme 2009

It is envisaged that the surveillance of poultry flocks shall be similar to that of the previous years. Layer flocks will be sampled and tested by the National Veterinary Laboratory using IDEXX ELISA kits.

Wild ducks and other migratory birds shall be sampled by means of cloacal swabs, tracheal swabs and/or faecal samples, which shall be sent to the CRL in Weybridge for testing by means of PCR and viral isolation. The collaboration with hunting associations, bird conservation groups, bird parks and bird sanctuaries will be maintained. This will ensure a continuous supply of samples from migratory wild bird species for active and passive surveillance.

4.1 Measures included in the programme for surveillance in poultry.

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

The Veterinary Regulation, Fisheries Conservation and Control Division (VRFCCD), Albertown, Marsa is responsible for the programme. The National Veterinary Laboratory is responsible for testing and dispatch of samples to the CRL.

4.1.2 System in place for the registration of holdings

There is no direct national legislation obliging egg-laying flock holders to register their farm. However other regulations request commercial egg producers to have an approval mark and compensation schemes indirectly enforce the registration of egg-laying farms. There is the Egg Marking Regulation 345/2003 which requires that all eggs sold at retail level, excluding those sold directly to the consumers on farm, have to be marked by a unique identity number. This unique number is issued by the competent authority, which is the VRFCCD. The control at retail level falls under the supervision of the Environmental Health Department which falls under the Directorate of Public Health under the Ministry of Social Policy.

Farms not registered with the competent authority can not be given this unique identity number.

There is also the Special Marketing Policy Programme Maltese Agriculture (SMPPMA) which entitles only registered business operators to a refund of 16 euro cents per dozen eggs sold.

	MALTA	GOZO
BROILER FLOCKS	102	29
LAYER FLOCKS	33	8
MIXED (broiler/layer)	38	0
TURKEY FLOCKS		0

- There are no breeding broiler parent flock on the Island.
- There are no free-range farms or outdoor holdings.
- Ratites, ducks, quails and pheasants are not bred in Malta.
- A registration of backyard flocks of ponitry and waterfowl in the Maltese territory was carried out during October 2005.

4.1.3 Data on vaccination carried out

No vaccination for AI is carried out in the Maltese Islands

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

Surveillance programme 2005

32 samples were taken from wild birds. Apart from organ samples from two dead birds found on a cargo ship originating from Taiwan, which were tested by viral isolation, all other samples were sera from wild ducks. All samples were sent to the CRL in Weybridge, UK and resulted negative.

Surveillance programme 2006

In 2006 the number of wild ducks and other migratory birds sampled by means of cloacal swabs and/or faccal samples, and sent to the CRL in Weybridge for testing by means of PCR and viral isolation was 90. A number of other wild and semi-captive ducks, 36, were tested by scrology. All samples tested negative to Avian Influenza.

Surveillance programme 2007

A number Wild ducks, 57, and 31 other migratory miscellaneous birds were also sampled by means of cloacal swabs, tracheal swabs and/or faecal samples, which were then sent to the CRL in Weybridge for testing by means of PCR and viral isolation. All samples tested negative to Avian Influenza.

Surveillance programme 2008

Wild ducks and other migratory birds shall be sampled by means of cloacal swabs, tracheal swabs and/or faecal samples, which shall be sent to the CRL in Weybridge for testing by means of PCR and viral isolation. The National Veterinary Laboratory is collaborating closely with Hunting Associations, Bird Watcher groups and several bird parks and sanctuaries to strengthen Malta's active and passive surveillance programmes in wild birds.

Surveillance programme 2009

Wild ducks and other migratory birds shall be sampled by means of cloacal swabs, tracheal swabs and/or faccal samples, which shall be sent to the CRL in Weybridge for testing by means of PCR and viral isolation. The collaboration with hunting associations, bird conservation groups, bird parks and bird sanctuaries will be maintained. This will ensure a continuous supply of samples from migratory wild bird species for active and passive surveillance.

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

Veterinary Regulation, Fisheries Conservation and Control Division (VRFCCD), Albertown, Marsa.

- 5.1.2 Description and delimitation of the geographical and administrative areas in which the programme is to be applied
- The surveillance programme will apply to the Islands of Malta and Gozo;
- The two islands are going to be considered as one region.

5.1.3 Estimation of the local and/or migratory wildlife population

The following table indicates the species bunted or trapped in the Maltese Islands during the year. The data is taken from the "Carnet de Chasse" compiled by the "Malta Environment and Planning Authority" (MEPA) in 2004.

Number kunted or trapped
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Lymonocryptes minimus
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6. Measures in place as regards the notification of the disease

Chapter 437 Articles 5, 6,7,8,9 16, 18, 19, 35 and 37 and the second, third and fifth schedule of the Veterinary Services lay down Local legislation that deals with the notification of Avian Influenza.

Costs

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7.1. Detailed analysis of the costs:

7.1.1 Poultry

7.1.2 Wild birds

7.2 Summary of the costs

7.2.1 Poultry surveillance

	Measures eligible for co-financ	res eligible for co-financing surveillance in poultry	
Methods of laboratory analysis	Number of tests to perform per- method	Unitary test cost (per method)	Total cost
Serological pre-screening	1185	2 Furn	2390Euro
Hacmagglutination-inhibition- test (HI) for FIS/H7 ⁵	216	6.50 Euro	1404 Euro
Virus isolation test			
PCR test			
AGID test	108	9 Euro	972 Euro
Other measures to be covered	Specify activities		
Sampling			
Others			
Total	1509		4466

Specify the laboratory test to be used. Specify number of tests for 145 and for 117.

200

7.2.2 Wild bird surveillance

	Measures eligible for co-financing surveillance wild birds	ing surveillance wild birds	ļ
Methods of laboratory analysis	Number tests to perform per method	Unitary test cost (per method)	Total cost
Scrological pre-screening			<u> </u>
Haemagglutínatíon-inhibition- test (HI) for H5/H7			
Virus isolation test	150	30 Euro	4500 Euro
PCR test	150	15 Euro	2250 Euro
Other measures to be covered	Specify activities		
Sampling			
Others			
Total	300		6750