



## Annex IV : Programme for the surveillance of Avian Influenza in poultry and wild birds submitted for obtaining EU cofinancing

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- 7) For simplification purposes you are invited to submit **multi-annual programmes**.
- 8) As mentioned during the Plenary Task Force of 28/2/2014, you are invited to submit your programmes in **English**.

Submission Date

Friday, May 29, 2015 16:30:13

Submission Number

1432913416834-5257



# ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

## 1. Identification of the programme

Member state: IRELAND

Disease: avian influenza in poultry and wild birds

This program is multi annual:

yes

Type of submission: New multiannual programme

Request of Union co-financing from beginning of:

2016

To end of

2017

# ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

## 1.1 Contact

Name : Stephanie Ronan

Phone : 0035316072205

Your job type within the CA : Superintending Veterinary Officer

Email : [Stephanie.Ronan@agriculture.gov.ie](mailto:Stephanie.Ronan@agriculture.gov.ie)

## 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

(max. 32000 chars) :

The Department of Agriculture, Food and the Marine is responsible for supervising and coordinating the implementation of the programme. Active surveillance is not required under Commission decision 2010/367/EU, therefore details are not included in this plan.

### 2.1.2 System in place for the registration of holdings

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(max. 32000 chars) :

Holdings containing birds of any type and number must be registered with the Department of Agriculture, Food and the Marine under SI. 114 of 2014. Registration is carried out at the local District Veterinary Office. The register is maintained on the Animal Health Computer System (AHCS).

### 2.1.3 *Design (risk based surveillance or surveillance based on representative sampling taking into account criteria in Annex I of Commission Decision 2010/367/EC)*

(max. 32000 chars) :

Surveillance based on representative sampling as defined in Annex I of Commission Decision 2010/367/EU shall be carried out between 1 January 2016 and 31 December 2017. Sampling of poultry holdings and serological testing will be carried out by Department of Agriculture, Fisheries and Food and the Marine (DAFM) staff to detect the presence of antibodies to avian influenza virus. Sampling will be stratified throughout Ireland (NUTS2 regions: IE01 and IE02-see annex 1) so that it is representative of the whole member state. The general requirements are:

- Sampling will coincide with seasonal production where appropriate for certain poultry categories.
- Samples collected for other purposes will be used where possible.
- Testing will be carried out at the National Reference Laboratory (NRL) for avian influenza.
- All results will be sent to Community Reference Laboratory (CRL) for avian influenza for collation.
- The CRL will provide technical support and diagnostic reagents.

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

(max. 32000 chars) :

DAFM introduced registration of all poultry and other captive bird holdings in 2005. In March 2012, 11,607 holdings, including back yard flocks, have been registered.

The approximate numbers of domestic fowl and turkeys on commercial sites, according to DAFM databases, is shown in Annex 1. Commercial poultry holdings are defined as those that supply approved slaughter plants or local abattoirs, approved/registered hatcheries or registered packing centres and dealers. The number varies according to the time of year e.g., commercial turkeys are more numerous in the months leading up to Christmas. The approximate proportions of the different species are as follows: domestic fowl 90%, turkeys 8% and ducks < 1%. The population of poultry in June 2010 was 11.025 million (CSO Farm Census). This is the most recent year for which a complete farm census by region was carried out.

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### 2.1.3.2 Criteria and risk factors for risk based surveillance<sup>(1)</sup>

(max. 32000 chars) :

Not applicable

<sup>(1)</sup> 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.

### 2.2 Target populations <sup>(2)</sup>

(max. 32000 chars) :

Representative sampling scheme of the following poultry species and production categories will be stratified throughout the country (Annex I):

- Laying hens
- Free range laying hens
- Chicken breeders
- Turkey breeders
- Fattening turkeys (including holdings with more than one species on the holding)
- Fattening ducks (including holdings with more than one species on the holding)
- Fattening geese (including holdings with more than one species on the holding)
- Free range broilers (Broilers other than free-range birds will not be included in this survey, as their short life means that they are unlikely to sero-convert before they are slaughtered)

<sup>(2)</sup> 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

Targets for year **2016**

Category : chicken breeders

**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
IE01	36	35	20	700	HI-test (H5)
IE01	36	35	20	700	HI-test (H7)
IE02	31	31	20	620	HI-test (H5)
IE02	31	31	20	620	HI-test (H7)
<b>Total</b>				2 640	
<b>Add a new row</b>					

(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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Category : fattening turkeys

**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
IE01	98	53	20	1 060	HI-test (H5)
IE02	36	35	20	700	HI-test (H5)
IE01	98	53	20	1 060	HI-test (H7)
IE02	36	35	20	700	HI-test (H7)
<b>Total</b>				3 520	

**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.

Category : broilers (only when at risk)

**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
IE01	11	11	20	220	HI-test (H5)
IE02	50	35	20	700	HI-test (H5)

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IE01	11	11	20	220	HI-test (H7)	<b>X</b>
IE02	50	35	20	700	HI-test (H7)	<b>X</b>
<b>Total</b>				1 840		
<b>Add a new row</b>						

(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.*

Category : turkey breeders

**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	
IE01	4	4	20	80	HI-test (H5)	<b>X</b>
IE02	1	1	20	20	HI-test (H5)	<b>X</b>
IE01	4	4	20	80	HI-test (H7)	<b>X</b>
IE02	1	1	20	20	HI-test (H7)	<b>X</b>
<b>Total</b>				200		
<b>Add a new row</b>						

(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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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	
IE01	32	32	20	640	HI-test (H5)	X
IE02	13	13	20	260	HI-test (H5)	X
IE01	32	32	20	640	HI-test (H7)	X
IE02	13	13	20	260	HI-test (H7)	X
<b>Total</b>				1 800		
<b>Add a new row</b>						

(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.

Category : free range 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	
IE01	118	53	20	1 060	HI-test (H5)	X
IE02	62	42	20	840	HI-test (H5)	X
IE01	118	53	20	1 060	HI-test (H7)	X

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

IE02	62	42	20	840	HI-test (H7)	<b>X</b>
<b>Total</b>				3 800		
<b>Add a new row</b>						

(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.

**Add a category**

Totals	Total number of tests
<b>Total poultry 2016</b>	13 800

**Targets for year 2017**

Category : chicken breeders

**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
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## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

IE01	36	35	20	700	HI-test (H5)	<b>X</b>
IE01	36	35	20	700	HI-test (H7)	<b>X</b>
IE02	31	31	20	620	HI-test (H5)	<b>X</b>
IE02	31	31	20	620	HI-test (H7)	<b>X</b>
<b>Total</b>				2 640		

**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.*

Category : fattening turkeys

**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	
IE01	98	53	20	1 060	HI-test (H5)	<b>X</b>
IE02	38	35	20	700	HI-test (H5)	<b>X</b>
IE01	98	53	20	1 060	HI-test (H7)	<b>X</b>
IE02	38	35	20	700	HI-test (H7)	<b>X</b>
<b>Total</b>				3 520		

**Add a new row**

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

(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.

Category : broilers (only when at risk)

**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
IE01	11	11	20	220	HI-test (H5)
IE02	50	35	20	700	HI-test (H5)
IE01	11	11	20	220	HI-test (H7)
IE02	50	35	20	700	HI-test (H7)
<b>Total</b>				1 840	
<b>Add a new row</b>					

(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.

Category : turkey breeders

**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
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## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

IE01	4	4	20	80	HI-test (H5)	<b>X</b>
IE02	1	1	20	20	HI-test (H5)	<b>X</b>
IE01	4	4	20	80	HI-test (H7)	<b>X</b>
IE02	1	1	20	20	HI-test (H7)	<b>X</b>
<b>Total</b>				200		
<b>Add a new row</b>						

(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.*

**delete this category**

Category : laying hens

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	
IE01	32	32	20	640	HI-test (H5)	<b>X</b>
IE02	13	13	20	260	HI-test (H5)	<b>X</b>
IE01	32	32	20	640	HI-test (H7)	<b>X</b>
IE02	13	13	20	260	HI-test (H7)	<b>X</b>
<b>Total</b>				1 800		
<b>Add a new row</b>						

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

(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.*

Category : free range 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	
IE01	118	53	20	1 060	HI-test (H5)	<b>X</b>
IE02	62	42	20	840	HI-test (H5)	<b>X</b>
IE01	118	53	20	1 060	HI-test (H7)	<b>X</b>
IE02	62	42	20	840	HI-test (H7)	<b>X</b>
<b>Total</b>				<b>3 800</b>		
<b>Add a new row</b>						

(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.*

**Add a category**

Totals	Total number of tests
<b>Total poultry 2017</b>	<b>13 800</b>

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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*

**Targets for year 2016**

Category : fattening ducks

**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	
IE01	10	10	20	200	HI-test (H5)	X
IE02	5	5	20	100	HI-test (H5)	X
IE01	10	10	20	200	HI-test (H7)	X
IE02	5	5	20	100	HI-test (H7)	X
<b>Total</b>				600		
<b>Add a new row</b>						

# ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

(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*

**delete this category**

Category : **fattening geese**

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	
IE01	3	3	20	60	HI-test (H5)	X
IE02	4	4	20	80	HI-test (H5)	X
IE01	3	3	20	60	HI-test (H7)	X
IE02	4	4	20	80	HI-test (H7)	X
<b>Total</b>				280		
<b>Add a new row</b>						

(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**

<b>NUTS (2) (b)</b>	<b>Total number of tests</b>	
<b>Total ducks and geese and farmed game birds 2016</b>	<b>880</b>	



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## Targets for year

2017

Category : fattening geese

**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	
IE01	3	3	20	60	HI-test (H5)	X
IE02	4	4	20	80	HI-test (H5)	X
IE01	3	3	20	60	HI-test (H7)	X
IE02	4	4	20	80	HI-test (H7)	X
<b>Total</b>				280		
<b>Add a new row</b>						

(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

Category : fattening ducks

**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	
IE01	10	10	20	200	HI-test (H5)	X
IE02	5	5	20	100	HI-test (H5)	X
IE01	10	10	20	200	HI-test (H7)	X
IE02	5	5	20	100	HI-test (H7)	X

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

<b>Total</b>				600
<b>Add a new row</b>				

(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

NUTS (2) (b)	Total number of tests		
<b>Total ducks and geese and farmed game birds 2017</b>	880		

**TOTALS for Poultry (2.2.1) + Ducks and Geese (2.2.2) and farmed game birds for year :**

2016

<b>Poultry + Ducks/Geese /farmed game birds</b>	<b>Total number of tests</b>
<b>Grand Total</b>	14 680
<b>Grand Total ELISA</b>	0
<b>Grand Total agar</b>	0
<b>Grand Total HI tests (H5)</b>	7 340
<b>Grand Total HI tests (H7)</b>	7 340

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Grand Total Virus Isolation test	0
Grand Total PCR test	0
Grand Total Other test	0
Grand Total Samplings	0

*TOTALS for Poultry (2.2.1) + Ducks and Geese (2.2.2) and farmed game birds for year :*

2017

Poultry + Ducks/Geese /farmed game birds	Total number of tests
Grand Total	14 680
Grand Total ELISA	0
Grand Total agar	0
Grand Total HI tests (H5)	7 340
Grand Total HI tests (H7)	7 340
Grand Total Virus Isolation test	0
Grand Total PCR test	0
Grand Total Other test	0
Grand Total Samplings	0

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

### 2.3 *Sampling procedures, sampling periods and frequency of testing taking into account criteria set out in Annex I of Commission Decision 2010/367/EC*

*(max. 32000 chars):*

Blood samples for serological testing will be taken from poultry (including ducks and geese). Commercial turkeys and ducks will be sampled in the slaughter plant, or if this is not possible fattening turkeys will be sampled on farm. Testing of breeding birds will be carried out on samples submitted under the Poultry Health Programme. Commercial layers will be sampled on-farm. Sampling will take place between 1 January 2016 and 31 December 2017.

- Sampling will coincide with seasonal production where appropriate for certain poultry categories.
- Samples collected for other purposes will be used where possible. In cases where a holding is sampled more than once different flocks will be chosen at each sampling.

All positive serological findings will be retrospectively investigated on the holdings, in accordance with Directive 2005/94/EC, and the conclusions reported to the Commission and the CRL. Samples found positive for H5 or H7 in poultry will be reported to the Commission. Samples found positive for highly pathogenic avian influenza will be notified immediately in accordance with Council Directive 82/894/EC via the Animal Disease Notification System. The measures on confirmation of HPAI as laid down in Council Directive 2005/94/EC will be applied in the event that HPAI is confirmed. In the event of confirmation of HPAI H5N1 the additional measures laid down in Commission Decision 2006/415/EC will be applied. Directive 2005/94/EC will be applied if LPAI is confirmed.

### 2.4. *Laboratory testing : description of the laboratory tests used and follow up investigations taking into account criteria set out in the Diagnostic Manual for avian influenza (Common Decision 2006/437/EC)*

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

All testing will be carried out at the National Reference Laboratory at the Central Veterinary Research Laboratory, Backweston Campus, Staccumny Lane,

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Celbridge, Co. Kildare. The Community Reference Laboratory (CRL), Weybridge, UK will provide technical support and antigen reagents. Laboratory testing will be carried out in accordance with the diagnostic procedures for confirmation and differential diagnosis of avian influenza laid down in the avian influenza diagnostic manual (Commission Decision 2006/437/EC). Serological screening will be carried out using the haemagglutination inhibition (HI) test (including in ducks and geese). A double (H5/H7) HI test will be carried out on each sample. The H5 strains used for testing sera from galliformes species in the HI test will be: Initial Teal/England/7894/06 (H5N3), N3 elimination Chicken/Scotland/59 (H5N1). In Addition, for the screening of ducks and Geese the Duck/Eng/036254/14 (H5N8) antigen is included as a screening antigen in order to reliably detect exposure of those species to H5 HPAI viruses. The H7 strains used in the HI test will be: Initial Turkey/England/647777 (H7N7), N7 elimination African Starling/983/79 (H7N1). All serological and virological results will be sent to the Community Reference Laboratory (CRL) for collation. The results will be submitted quarterly by the end of the month following the end of each quarter, in the format laid down by the Commission.

### 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 Department of Agriculture, Food and the Marine is responsible for supervising and coordinating the implementation of the programme.

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

*(max. 32000 chars) :*

Sampling of wild birds will be passive surveillance only, although wild birds found dead or moribund in Monaghan, Cavan, Louth, Limerick, Clare and Wexford will be prioritised because of the density of commercial poultry and the proximity of waterfowl.

### 3.1.3 Estimation of the local and/or migratory wildlife population

*(max. 32000 chars) :*

Ireland has an abundance of wetlands - both coastal and inland supporting nearly 500,000 waterbirds. Water bird counts are taken at some 700 sites annually, as part of the Irish Wetland Bird Survey. Sites of international importance, supporting a mean of more than 20,000 birds. In the 2010/2011 surveys the following were identified as the most important sites: Dundalk Bay, Wexford Harbour & Slobbs, Lough Foyle, Dublin Bay and Lough Swilly.

Waterbirds wintering in Ireland include wild fowl (swans, geese, ducks, divers, grebes and cormorant), waders (includes oystercatcher, plover, lapwing, sandpiper, curlew and woodcock) and gulls. Almost 140 water bird species have been recorded, of which 58 species occur in significant numbers at a variety of sites (33 wildfowl, 20 wader, 5 gull). Overall, 20 waterbird species occur in internationally important numbers at one or more wetland sites. There are 18 waterbird species on the quarry list (three goose species, 12 ducks, and three waders), and the hunting of most of these species is confined to the period 1 September to 31 January.

Most wintering waterbird species in Ireland are migratory and arrive between July and early November. There are two principal flyways: the East Atlantic Flyway and the Eastern or Baltic Flyway. The east Atlantic Flyway includes Iceland and Greenland which are also used as staging areas for species that breed further west in the Canadian Arctic. Species that use this flyway include the Light-bellied brent goose and Greenland white fronted goose. The eastern flyway extends from Scandinavia to Siberia. Birds that breed in Siberia migrate from there in a southwesterly direction along the Arctic Ocean shoreline or across the tundra to the Baltic Sea and then on to the North Sea and countries of north Western Europe. The breeding origin of most species wintering in Ireland, are countries in northerly (Arctic) latitudes. However, Ireland supports small numbers of some species during the breeding season. These are considered as partial migrants (some remain all year in Ireland, whilst others migrate further south in winter).

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

During winter, there is regular movement of waterbirds between roosting and feeding sites. Many swans and geese fly up to 20 km to wetland roosts at night. Large-scale movements also occur, which are directly related to weather conditions. In particular, during cold snaps, species move from inland wetlands to larger riverine or coastal locations, which are less likely to freeze. In cold weather periods in Europe, a number of species from northern Europe and Britain move west to Ireland. In extreme situations, wigeon and teal move south to France and Iberia, where they may mix with populations breeding on the Black Sea/Mediterranean.

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

(max. 32000 chars):

The survey will comprise of passive surveillance of moribund wild birds or wild birds found dead. This will be primarily directed towards “target species”(Annex 1). This list was updated in April 2011 in accordance with Annex II Part 2 of Commission decision 2010/367/EU. Dead birds found in areas close to the sea, lakes and waterways, especially in areas with a high density of poultry holdings will be targeted. In the event of an outbreak of HPAI H5N1, other species that may act as “bridge species” between higher risk species such as migratory water fowl and poultry will also be sampled. The list of species in Annex IV will be amended in line with up-to-date information received from the Commission. They may include species that act as scavengers (corvidae, some raptors) and some passerine species. This will be carried out in cooperation with the National Parks and Wildlife Service and BirdWatchIreland. Samples notified by the public, National Parks and Wildlife Service or Birdwatch Ireland will be collected by Department of Agriculture staff. • A total of up to 500 samples will be taken. (NB. The number of birds that are found dead and reported is subject to many variables that cannot be predicted e.g. weather, media coverage, public interest and perception).

(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.*

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

### 3.2.1 WILD BIRDS focussed on target species

*Investigations according to the surveillance programme set out in conformity with Part 2 of Annex II to Decision 2010/367/EC*

*Targets for year*

**2016**

NUTS (2) code/region (a)	Total number of birds to be sampled	Estimated total number of samples to be taken for passive surveillance	Type of test	Number of tests
IE1 AND IE2	500	500	PCR test	1 000
IE1 and IE2	50	50	Virus isolation test	50
<b>Total</b>				
<b>Add a new row</b>				

(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.



## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

	Total number of tests
<b>Total number of tests</b>	1 050
<b>Total Virus isolation tests</b>	50
<b>Total PCR tests</b>	1 000
<b>Total Other tests</b>	0

### Targets for year **2017**

NUTS (2) code/region (a)	Total number of birds to be sampled	Estimated total number of samples to be taken for passive surveillance	Type of test	Number of tests
IE1 AND IE2	500	500	PCR test	1 000
IE1 AND IE2	50	50	Virus isolation test	50
<b>Total</b>				
<b>Add a new row</b>				

(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.

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

	Total number of tests
<b>Total number of tests</b>	1 050
<b>Total Virus isolation tests</b>	50
<b>Total PCR tests</b>	1 000
<b>Total Other tests</b>	0

### 3.3 Sampling procedures and sampling periods

*max 32000 chars :*

Oropharyngeal swabs and cloacal swabs, containing faeces or fresh faeces will be taken from birds found dead. Pooling of up to 5 samples from birds of the same species collected at the same site at the same time will be permitted in the laboratory. Where pooled samples are taken, it will be ensured that individual samples can be retested, in the event of a positive finding in order to verify the species, location and date of sampling. Samples will be transported to the CVRL in transport medium at 4oC within 48 hours. All negative and positive results will be reported quarterly to the Commission. In the event that HPAI H5N1 is suspected or confirmed, the measures laid down in Commission Decision 2006/563/EC amended by Commission Decision 2007/119/EC will be applied.

### 3.4 Laboratory testing : description of the laboratory tests used taking into account criteria set out in the *Diagnostic Manual for avian influenza (Commission Decision 2006/437/EC)*

*max 32000 chars :*

For wild birds, the polymerase chain reaction (PCR) test will be used. Samples will be screened with the RRT PCR (M gene) test, with rapid testing of positives for H5 and H7 (within 2 weeks). Virus isolation test will be carried out on all positive samples. All viruses isolated will be sent to the CRL. H5 and H7 subtypes will be subjected to characterisation (nucleotide sequencing) to determine whether they are highly pathogenic or low pathogenic at the NRL. Characterisation of neuraminidase will be carried out at the CRL. The results will be submitted quarterly by the end of the month following the end of each

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

quarter, in the format laid down by the Commission.

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

*max 32000 chars :*

Outbreaks of both highly pathogenic and low pathogenic avian influenza have historically occurred in Ireland. The last outbreak of highly pathogenic avian influenza occurred in 1983. There have been 7 introductions of low pathogenic avian influenza into poultry flocks since that time. Low pathogenic strains of avian influenza have also been isolated from wild birds in each year of the EU survey. A list of all isolates of avian influenza that have been detected in Ireland is given in Table 1.

There have been no outbreaks of HPAI Ireland in poultry in the last 5 years.

A single flock (representing 0.3% of flocks tested) was positive on serological testing in 2009. This was a free range layer flock of 5,400 birds in Co. Waterford in the Southeast of the country (NUTS IE02), which was sampled in October. On epidemiological investigation, the flock had no history of clinical signs in the birds and no evidence of increased mortalities or drop in egg production. Further testing confirmed low seropositive results for H5, and the results of PCR tests carried out on cloacal and oro-pharyngeal swabs were negative.

A single duck egg laying flock in Co. Sligo was positive on serological testing for H5 in 2013. On epidemiological investigation, this flock had no history of clinical signs or drop in egg production. Further testing confirmed low seropositive results while the results of all PCR tests on cloacal and oro-pharyngeal swabs were negative.

A single egg laying hen in Co. Cork was positive on serological testing for H7 in 2014. On epidemiological investigation, this flock had no history of clinical signs or drop in egg production. Further PCR tests on cloacal and oro-pharyngeal swabs were negative.

Within the last five years there was one outbreak of LPAI. This was identified as H5N2 and occurred in a flock of 153 adult male pheasants (game birds for release) in Co Cork NUTS 2 on 29th March 2012.

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

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

*(max. 32000 chars) :*

Surveillance of wild birds for avian influenza has been carried out since 2003. The results of the surveys for the last 5 years are shown in Tables B and C (Annex 1). The birds that were positive were all ducks (teal, wigeon or mallards) and positive for LPAI.

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

*(max. 32000 chars) :*

Arrangements to notify the Department of Agriculture, Fisheries and Food and the Marine of any unusual mortalities in wild birds have been made with the following organisations:

- National Parks and Wildlife Service (NPWS which is part of the Department of Environment, Heritage and Local Government)
- National Association of Regional Game Councils
- BirdWatch Ireland

The list of target species has been circulated to staff/members of these organisations.

A protocol for cooperation has been agreed between the NPWS and the Department of Agriculture, Fisheries and Food. This was updated in April 2007 and circulated to NPWS and DAFF staff.

The list of target species and a poster showing pictures of the most common of these species is available on the Department of Agriculture, Food and the Marine website. The list has been circulated to Department of Agriculture, Fisheries and Food District Offices, Local Authorities and local libraries. An avian influenza help-line to deal with reports of dead wild birds is operated by the Department of Agriculture, Food and the Marine. Department of Agriculture, Food and the Marine veterinary and technical staff at local level are available to recover dead wild birds.

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

### 7. Costs

#### 7.1 Detailed analysis of the costs

##### 7.1.1 Poultry including ducks, geese and farmed game birds

*(max. 32000 chars) :*

The estimated costs are based on the indicative sampling fee per individual bird and the cost of each test undertaken is based on the indicative unitary test cost. Indicative charges are based on the annexes to Commission Implementing Decision (EU)3024/2015 concerning the adoption of the multiannual work programme for 2016-2017 and the financing for the implementation of veterinary programmes for animal diseases and zoonoses. The detailed values are set out in the Annex to Decision C(2014) 1035.

##### 7.1.2 Wild birds

*(max. 32000 chars) :*

The estimated costs used are based on a delivery charge of €10 per bird, indicative sampling charge and the cost of each test undertaken which is based on the indicative unitary test cost. Indicative charges are based on the annexes to Commission Implementing Decision (EU)3024/2015 concerning the adoption of the multiannual work programme for 2016-2017 and the financing for the implementation of veterinary programmes for animal diseases and zoonoses. The detailed values are set out in the Annex to Decision C(2014) 1035.

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

### 7.2 Summary of the annual costs :

#### 7.2.1 Poultry surveillance including ducks, geese and farmed game birds

##### Detailed analysis of the cost of the programme - poultry

### Targets for year 2016

Laboratory testing				
Methods of laboratory analysis	Number of tests	Indicative unitary test cost (per method) in € (*)		Total cost (€)
ELISA test	0	3.26		0
agar gel immune diffusion test	0	1.8		0
HI-Test for H5 (specify number of tests for H5)	7340	9.64		70757.6
HI-Test for H7 (specify number of tests for H7)	7340	9.64		70757.6
Virus isolation test	0	37.88		0
PCR test	0	19.74		0
Other test	0	0		0
<b>Sampling</b>				
	Number of samples	Unitary cost in € (*)		Total cost (€)

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

Samples	0	4.65	0
<b>Other measures</b>			
none	0	0	0
<b>Total poultry, duck, geese, farmed game birds Testing + Sampling + Other measures</b>			
			141 515,20 €
			<b>Add a new row</b>
			<b>X</b>

(\*) as per cofinancing decision for 2014 programmes

### Targets for year 2017

<b>Laboratory testing</b>			
Methods of laboratory analysis			
ELISA test	0	3.26	0
agar gel immune diffusion test	0	1.8	0
HI-Test for H5 (specify number of tests for H5)	7340	9.64	70757.6
HI-Test for H7 (specify number of tests for H7)	7340	9.64	70757.6
Virus isolation test	0	37.88	0
PCR test	0	19.74	0

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

Other test	0	0	0
<b>Sampling</b>			
Samples	Number of samples	Unitary cost in € (*)	Total cost (€)
	0	4.65	0
<b>Other measures</b>			
none	Number of samples	Unitary cost in €	Total cost (€)
	0	0	0
			<b>Add a new row</b>
<b>Total poultry, duck, geese, farmed game birds Testing + Sampling + Other measures</b>			141 515,20 €

(\*) as per cofinancing decision for 2014 programmes



## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

### 7.2.2 Wild bird surveillance

#### Detail analysis of the cost of the programme - wild birds

#### Targets for year **2016**

Laboratory testing				
Methods of laboratory analysis	Number of tests	Unitary test cost (per method) in € (*)	Total cost (€)	
Virus isolation test	50	37.88	1894	
PCR test	1000	19.74	19740	
Other cost	0	0	0	
Delivery of wild animals				
Delivery of wild animals	No of wild birds	Eligible cost in € (*)	Total cost (€)	
	500	10	5000	
Other measures				
Other measures	Number	Unitary cost in €	Total cost (€)	

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

				0	X
				Add a new row	
				26 634,00 €	
<b>Total wild birds Testing + Delivery + Other measures</b>					

(\*) *as per cofinancing decision for 2014 programmes*

### Targets for year **2017**

Laboratory testing					
Methods of laboratory analysis					Total cost (€)
		Number of tests	Unitary test cost (per method) in €(*)		
Virus isolation test		50	37.88		1894
PCR test		1000	19.74		19740
Other cost		0	0		0
Delivery of wild animals					
		No of wild birds	Eligible cost in €(*)		Total cost (€)
Delivery of wild animals		500	10		5000

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

Other measures	Number	Unitary cost in €	Total cost (€)
none	0	0	0
			<b>Add a new row</b>
<b>Total wild birds Testing + Delivery + Other measures</b>			26 634,00 €

(\*) *as per cofinancing decision for 2014 programmes*

**TOTALS for Poultry, duck, geese, farmed game birds (7.2.1) + WILD BIRDS (7.2.2) for year:**

2016

	Total Cost
<b>Grand Total Poultry, Ducks/Geese/Farmed game birds + WILD BIRDS</b>	168 149,2

**TOTALS for Poultry, duck, geese, farmed game birds (7.2.1) + WILD BIRDS (7.2.2) for year:**

2017

	Total Cost
<b>Grand Total Poultry, Ducks/Geese/Farmed game birds + WILD BIRDS</b>	168 149,2

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

### C. Financial information

#### 1. Identification of the implementing entities - financial circuits/flows

Identify and describe the entities which will be in charge of implementing the eligible measures planned in this programme which costs will constitute the reimbursement/payment claim to the EU. Describe the financial flows/circuits followed.

Each of the following paragraphs (from a to e) shall be filled out if EU cofinancing is requested for the related measure.

a) Implementing entities - **sampling**: who perform the official sampling? Who pays? (e.g. authorised private vets perform the sampling and are paid by the regional veterinary services (state budget); sampling equipment is provided by the private laboratory testing the samples which includes the price in the invoice which is paid by the local state veterinary services (state budget))

(max. 32000 chars):

The National funding for sampling is provided by the Department of Agriculture, Food and the Marine (DAFM). The sampling is carried out by full time DAFM staff and all sampling equipment is provided by the Central Veterinary laboratory in Backweston

b) Implementing entities - **testing**: who performs the testing of the official samples? Who pays? (e.g. regional public laboratories perform the testing of official samples and costs related to this testing are entirely paid by the state budget)

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

*(max. 32000 chars) :*

The National funding for sampling is provided by the Department of Agriculture, Food and the Marine (DAFM). The testing of samples is carried out by full time staff at the Central Veterinary Laboratory in Backweston.

- c) Implementing entities - **compensation**: who performs the compensation? Who pays? (e.g. compensation is paid by the central level of the state veterinary services, or compensation is paid by an insurance fund fed by compulsory farmers contribution)

*(max. 32000 chars) :*

Compensation is paid at the central level by the Department of Agriculture, Food and Marine (DAFM). The amount of compensation payable is determined by DAFM officials.

- d) Implementing entities - **vaccination** : who provides the vaccine and who performs the vaccination? Who pays the vaccine? Who pays the vaccinator? (e.g. farmers buy their vaccine to the private vets, send the paid invoices to the local state veterinary services which reimburse the farmers of the full amount and the vaccinator is paid by the regional state veterinary services)

*(max. 32000 chars) :*

Vaccine would be provided by DAFM and vaccination programs would be authorized and supervised centrally by DAFM veterinary officers from the National Disease Control Centre in DAFM

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

e) Implementing entities - **other essential measures**: who implement this measure? Who provide the equipment/service? Who pays?

*(max. 32000 chars) :*

DAFM is responsible for implementing and paying for all other essential measures. Equipment may be hired from independent contractors as required.

2 Co-financing rate (see provisions of applicable Work Programme)

*The maximum co-financing rate is in general fixed at 50%. However based on provisions of Article 5.2 and 5.3 of the Regulation (EU) No 652/2014, we request that the co-financing rate for the reimbursement of the eligible costs would be increased:*

Up to 75% for the measures detailed below

Up to 100% for the measures detailed below

## ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

### 3. Source of funding of eligible measures

All eligible measures for which cofinancing is requested and reimbursement will be claimed are financed by public funds.

*yes*

*no*

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# ANNEX 4 : Standard requirements for the submission of surveillance programmes for avian influenza in poultry and wild birds

## 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, .xlsx, .doc, .docx, .ppt, .pptx, .bmp, .png, .pdf.
- 3) The total file size of the attached files should not exceed 2.500Kb (+- 2.5 Mb). You will receive a message while attaching when you try to load too much.
- 4) IT CAN TAKE **SEVERAL MINUTES TO UPLOAD ALL THE ATTACHED FILES**. Don't interrupt the uploading by closing the pdf and wait until you have received a Submission Number!
- 5) Only use letters from a-z and numbers from 1-10 in the attachment names, otherwise the submission of the data will not work.

## List of all attachments

	Attachment name	File will be saved as (only a-z and 0-9 and -_)	File size
	5257_3892.docx	5257_3892.doc	117 kb
		Total size of attachments :	117 kb