



EUROPEAN COMMISSION
HEALTH AND CONSUMERS DIRECTORATE-GENERAL

Director General

SANCO/10235/2014

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

Survey programme for Avian Influenza

Greece

Approved* for 2014 by Commission Decision 2013/722/EU

* in accordance with Council Decision 2009/470/EC

Standard requirements for the submission of surveillance programmes for avian influenza

version : 2.22



PROGRAMME for ERADICATION : ANNEX IV

Member States seeking a financial contribution from the Community for national programmes for the control and monitoring of avian influenza in poultry and wild birds shall submit applications containing at least the information set out in this form.

The central data base keeps all submissions. However only the information in the last submission is shown when viewing and used when processing the data.

If encountering difficulties, please contact SANCO-BO@ec.europa.eu

Instructions to complete the form:

1) In order to fill in and submit this form you must have at least the

Adobe Reader version 8.1.3

or higher otherwise you will not be able to use the form.

Your version of Acrobat is : **10.104**

2) Please provide as much information as possible, in addition to those required by fields marked with an asterisk (*) which are mandatory. Should you need clarifications on some of the information requested, please contact SANCO-BO@ec.europa.eu.

3) To verify your data entry while filling your form, you can use the "verify form" button at the top of each page.

4) When you have finished filling the form, verify that your internet connection is active and then click on the submit notification button below. If the form is properly filled, the notification will be submitted to the server and a Submission number will appear in the corresponding field.

5) **IMPORTANT:** Once you have received the Submission number, save the form on your computer.

6) If the form is not properly filled, an alert box will appear indicating the number of incorrect fields. Please check your form again and try to re-submit it according to steps 4), 5) and 6). Should you still have any difficulties, please contact SANCO-BO@ec.europa.eu.

IMPORTANT: AFTER SUBMITTING THE FORM DO NOT FORGET TO SAVE IT ON YOUR COMPUTER FOR YOUR RECORDS!

Wednesday, August 07, 2013 12:30:24

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1. Identification of the programme

Member state : ELLADA

Disease : avian influenza in poultry and wild birds

Request of Union co-financing
for the period :

FROM

2014

TO

2014

1.1 Contact

Name : S. PERDIKARIS

Phone : +302102125789

Fax. : +302108252631

Email : ka6u043@minagric.gr

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

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(max. 32000 chars) :

The Central Authority for the Programme is the General Veterinary Directorate of the Ministry of Rural Development and Food / Animal Health Directorate. The Department of Avian, Fish and Bee Pathology of the Animal Health Directorate is responsible for the description of the Programme, the follow up of the necessary procedures and the collection and elaboration of the data.

2.1.2 System in place for the registration of holdings

(max. 32000 chars) :

Holdings are registered by using the NUTS (3) code in conjunction with a unique prefectural number assigned to them by the Competent Veterinary Authority. Thus every holding is easily identified and traceability is secured.

2.1.3 Design (risk based or surveillance based on representative sampling)

(max. 32000 chars) :

For the year 2014, the surveillance programme for avian influenza in Greece's poultry population shall be based on representative sampling and will be implemented by the official Veterinary Services at prefectural and regional level . It will take into account the guidelines set out in Commission decision 2010/367/EU adjusted to the most recent national data regarding the number and location of poultry holdings, production type and poultry population per category.

The objective of this programme is to establish an active serological survey throughout Greece in order to secure early detection of circulating avian influenza virus and appliance of all necessary measures in accordance with Directive 2005/94/EC. It aims at detecting:

- a) low pathogenic avian influenza (LPAI) of subtypes H5 and H7 in gallinaceous birds and ratites thereby complementing other existing early detection systems and subsequently preventing possible mutation of these viruses to highly pathogenic avian influenza (HPAI);
- b) LPAI of subtypes H5 and H7 and HPAI in domestic waterfowl.

The number of holdings to be sampled per poultry category is in accordance to Tables 1 and 2 of point 5 of Annex I to Commission Decision 2010/367/EU and serological sampling shall be stratified throughout the whole territory of Greece.

A more thorough presentation of the sampling plan and sampling procedures per poultry category is laid down in sections 2.2 and 2.3 of this form.

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All positive and negative results obtained under the surveillance programme for poultry will be submitted to the Commission of the EU by the General Veterinary Directorate of the Ministry of Rural Development and Food through the Commission on-line system. Two 6-month period reports will be submitted by forwarding them within a period of four weeks following the end of the months covered by the report.

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

(max. 32000 chars) :

Based on recent data, Gallus gallus species represent the majority of farmed poultry, mainly reared in two types, egg and meat production. The annual laying population varies between 6,3 and 6,400,000 layers while around 100,000,000 broilers are fattened per year. In order to cover this kind of production, a significant number of chicken breeder farms also exist. A less important category in terms of production size, but quite significant for biosecurity reasons, is the farming of chickens meant to be sold for use as backyard poultry.

The breeding of other species of poultry in Greece continues to be very limited. Turkey farming is mostly seasonal with a rather small number of farms and a small number of turkeys per farm. Ostrich rearing has started showing signs of decline leading to a gradual reduce in the number of ratite holdings. Ducks and geese are mainly kept as backyard poultry and a limited number of holdings rear them, usually along with other poultry species, for the purpose of selling them later for use as backyard flocks. Gallinaceous species other than chickens and turkeys (e.g. partridges, quails, pheasants etc) are mainly reared as game birds, however, they can also be found in some holdings rearing poultry meant to be sold for use as backyard flocks.

According to current data, broiler type holdings are mainly concentrated in the Northwest area of the country and especially in Epirus territory (Prefecture of Ioannina and Prefecture of Arta), while a relatively large number of this type of farms are located in the Prefectures of Evia, Attica, Viotia, Arkadia, Pieria, and Thessaloniki. Holdings rearing laying hens are mainly located in the Prefectures of Attica and Thessaloniki, followed by the Prefectures of Viotia, Evros, Korinthia and Argolida. Reproductive flocks are reared mainly in Epirus and Evia and less in Attica and Viotia Prefectures. More than half of the farms rearing poultry, mainly chicken, that is meant to be sold for use as backyard flocks are located in the Prefecture of Attica. Very small number or no Gallus gallus farms exist in the other Prefectures. Turkey farms are located mainly in Northern and Central Greece, while ostrich farms are more evenly distributed throughout the whole country.

2.1.3.2 Criteria and risk factors for risk based surveillance(1)

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(max. 32000 chars) :

Surveillance will not be risk-based.

- (1) 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 (2)

(max. 32000 chars) :

As already mentioned, surveillance shall be carried out according to a representative sampling scheme. The programme will primarily focus on chicken breeders, laying hens, free range broilers, fattening turkeys and poultry, mainly chickens, reared and sold for use as backyard flocks. The other poultry categories are also targeted, although in a lesser extent, in order to ensure national coverage of the native poultry population.

Poultry populations to be targeted in the framework of this surveillance programme are analytically presented as follows:

l) Gallus gallus farming

The implementation of the programme in Gallus gallus farms will cover the whole country. All production categories shall be included and the number of farms to be sampled will be according to Table 1 of point 5 of Annex I to Commission Decision 2010/367/EU.

a) Chicken breeders

Having in mind that according to most recent data there are 95 farms of chicken breeders in whole Greece, the total minimum number of farms for this species to be sampled is 53.

b) Laying Hens

Taking into account that the estimated number of laying hen farms is 376, 60 farms are scheduled to be sampled.

c) Free range/organic laying hens

Since there are 13 farms of free range/organic laying hens throughout Greece, all of them will be included in the sampling plan of this year's survey programme.

d) Free range/organic broilers

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From a total of 48 free range/organic broiler farms in Greece, 35 shall be sampled given the increased risk for this poultry category and the fact that the vast majority of holdings are located in the same geographical area with reproductive flocks.

e) Poultry reared and sold for use as backyard flocks

Different poultry species (chickens, turkeys, ducks, geese, quails, pheasants etc) can be found in holdings of this production type. However, since chickens predominate in terms of population numbers and number of farms rearing them, this production category has always been associated with Gallus Gallus farming. For details in the event of ducks and geese presence, see the relevant paragraph below.

In Greece there are 118 commercial farms producing poultry (mainly chickens) meant to be sold for use as backyard flocks and 53 of them are planned to be sampled in the framework of the AI survey programme.

II) Turkey farming

a) Fattening turkeys

The implementation of the programme in fattening turkeys will take place throughout the Greek territory. Number of turkey farms to be sampled is calculated based on figures shown in Table 1 of point 5 of Annex I to Commission Decision 2010/367/EU. Taking into account the number of fattening turkey farms (39) in Greece, 35 holdings shall be sampled.

b) Turkey breeders

The implementation of the programme in turkey breeders will take place throughout the Greek territory. Number of turkey farms to be sampled is calculated based on figures shown in Table 1 of point 5 of Annex I to Commission Decision 2010/367/EU. Taking into account the number of turkey breeder farms (3) in Greece, all the holdings of this production category shall be sampled.

III) Ostrich farming

Ostrich sampling will take place throughout Greece, while number of ostrich farms to be sampled is calculated based on figures shown in Table 1 of point 5 of Annex I to Commission Decision 2010/367/EU. Taking into account that the number of ostrich farms in Greece is 49, 35 of them shall be investigated.

IV) Duck and Goose farming

Ducks and geese in Greece are basically found in backyard flocks in rural areas of the country. The only commercial farms that rear them, along with other poultry species, are those selling them for use as backyard poultry. Although the total number of farms belonging to this production category is known (118), it's difficult to precisely determine in annual basis how many and which of them rear ducks and geese since these species just occasionally complement the primary chicken production of the farm. Given that gallinaceous birds, mainly chickens, are the main poultry species farmed in commercial holdings of this production type, the number of farms (53) to be sampled shall comply to Table 1 of point 5 of Annex I to Commission Decision 2010/367/EU. In case ducks and geese are found during the investigation of the 53 farms scheduled to be sampled, additional samples from these species shall be collected. Moreover, in case there are farms known for keeping ducks and geese they shall be included in

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the sampling plan and additional samples shall be collected as well. We estimate that from a total number of 53 farms scheduled to be sampled from this particular production category, ducks and geese will be present and sampled in eight of them.

VI) Farmed game birds (gallinaceous)

In Greece 20 farms for the production of game birds (gallinaceous) exist, i.e., birds farmed for release and hunting. As in previous year 2013, these farms will be included in the AI surveillance programme for 2014 focusing mainly in adult birds. The number of holdings of this production category to be sampled is calculated based on figures shown in Table 1 of point 5 of Annex I to Commission Decision 2010/367/EU, therefore all 20 farms shall be included in the programme.

Analytical presentation of the number of holdings to be sampled per poultry category and geographical area is laid down in tables in sections 2.2.1 and 2.2.2 of this form.

(2) 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

In case of multiannual programme, please provide targets on annual basis.
If your targets differ between different implementation years please provide separate tables per year in attachment.

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	
GR21	64	37	10	370	ELISA test	X
GR12	6	3	10	30	ELISA test	X
GR30	15	8	10	80	ELISA test	X
GR24	5	2	10	20	ELISA test	X
GR14	1	1	10	10	ELISA test	X
GR43	2	1	10	10	ELISA test	X

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GR25	2	1	10	10	ELISA test	X
Total	95	53	70	530		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

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	
GR30	193	23	10	230	ELISA test	X
GR12	74	15	10	150	ELISA test	X
GR25	35	8	10	80	ELISA test	X
GR24	23	4	10	40	ELISA test	X
GR21	7	1	10	10	ELISA test	X

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GR11	3	1	10	10	ELISA test	X
GR14	12	2	10	20	ELISA test	X
GR23	1	1	10	10	ELISA test	X
GR42	13	2	10	20	ELISA test	X
GR43	7	1	10	10	ELISA test	X
GR13	4	1	10	10	ELISA test	X
GR41	4	1	10	10	ELISA test	X
Total	376	60	120	600		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.
If your targets differ between different implementation years please provide separate tables per year in attachment.

Category : fattening turkeys

delete this category

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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	
GR14	24	22	10	220	ELISA test	X
GR12	9	8	10	80	ELISA test	X
GR21	4	3	10	30	ELISA test	X
GR30	1	1	10	10	ELISA test	X
GR43	1	1	10	10	ELISA test	X
Total	39	35	50	350		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

Category : turkey breeders

delete this category

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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	
GR12	1	1	10	10	ELISA test	X
GR14	2	2	10	20	ELISA test	X
Total	3	3	20	30		
					Add a new row	
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

Category : poultry (gallinaceous) reared and sold for use as backyard flock

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	
GR30	61	29	10	290	ELISA test	X
GR12	18	8	10	80	ELISA test	X

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GR25	15	7	10	70	ELISA test	X
GR23	11	5	10	50	ELISA test	X
GR14	4	1	10	10	ELISA test	X
GR11	4	1	10	10	ELISA test	X
GR43	2	1	10	10	ELISA test	X
GR24	3	1	10	10	ELISA test	X
Total	118	53	80	530		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

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
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GR30	4	4	10	40	ELISA test	X
GR12	3	3	10	30	ELISA test	X
GR24	3	3	10	30	ELISA test	X
GR25	2	2	10	20	ELISA test	X
GR43	1	1	10	10	ELISA test	X
Total	13	13	50	130		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

Category : free range/organic broilers

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	
GR21	43	33	10	330	ELISA test	X

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GR25	5	2	10	20	ELISA test	X
Total	48	35	20	350		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

Category : farmed game birds (gallinaceous)

[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	
GR24	5	5	10	50	ELISA test	X
GR43	2	2	10	20	ELISA test	X
GR12	3	3	10	30	ELISA test	X
GR30	1	1	10	10	ELISA test	X
GR13	3	3	10	30	ELISA test	X

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GR21	1	1	10	10	ELISA test	X
GR22	1	1	10	10	ELISA test	X
GR25	1	1	10	10	ELISA test	X
GR14	1	1	10	10	ELISA test	X
GR23	1	1	10	10	ELISA test	X
GR11	1	1	10	10	ELISA test	X
Total	20	20	110	200		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p> <p>(c) Total number of holdings of one category of poultry in concerned NUTS 2 region.</p>						

In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

Category : ratites

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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GR12	20	14	5	70	ELISA test	X
GR14	11	8	5	40	ELISA test	X
GR21	6	4	5	20	ELISA test	X
GR11	5	3	5	15	ELISA test	X
GR25	3	2	5	10	ELISA test	X
GR24	2	2	5	10	ELISA test	X
GR42	2	2	5	10	ELISA test	X
Total	49	35	35	175		
Add a new row						
<p>(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.</p>						

Add a category

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Total Poultry	761	307	555	2 895		

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

*In case of multiannual programme, please provide targets on annual basis.
If your targets differ between different implementation years please provide separate tables per year in attachment.*

Category : poultry (ducks and geese) reared and sold for use as backyard

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	
GR30	61	5	20	100	ELISA test	X
GR12	18	2	20	40	ELISA test	X

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GR25	15	1	20	20	ELISA test	X
Total	94	8	60	160		
Add a new row						
<p>(a) Holdings or herds or flocks or establishments as appropriate.</p> <p>(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</p>						

Add a category

Total Ducks and geese	94	8	60	160		

Grand Total Poultry + Ducks/Gueese	855	315	615	3 055		

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Grand Total ELISA Poultry + Ducks/Gueese				3 055		
Grand Total agar Poultry + Ducks/Gueese				0		

2.3 Sampling procedures, sampling periods and frequency of testing

(max. 32000 chars) :

Given that investigation of targeted poultry populations shall be based on sampling for serological testing, blood samples are scheduled to be collected from birds in their sheds and/or from abattoirs during slaughtering. Sampling for virological testing shall be only performed within the framework of investigations to follow-up serological positive testing results, however some samples for virological testing may be obtained from certain poultry species (partridges, quails, ducks etc.) in order to facilitate sampling procedure and avoid irritating farmers who afraid having their birds stressed.

Sampling period shall be applied from 1 of January until 31 of December 2014 and every selected poultry holding shall be sampled once during this period. The time period for sampling shall coincide with seasonal production for each poultry production category.

In order to optimise efficiency and avoid additional unnecessary entry of persons into poultry holdings sampling shall whenever possible be combined with sampling for other purposes.

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Depending on poultry species and production categories, details on sampling procedures are as follows:

I) Gallus gallus farming

Competent veterinary authorities will collect at least 10 blood-samples per holding, and from the different sheds, if more than one shed is present on a holding. In case of several sheds the sample size per holding shall increase to 5 blood samples per shed. Besides their sheds, birds from a holding can be sampled in abattoirs during slaughtering.

With regard to farms rearing poultry (mainly chicken) to be sold for use as backyard flocks, in case of mixed-species populations samples shall be taken from all species present. For details in the event of ducks and geese presence, see the relevant paragraph below.

II) Turkey farming

The implementation of the programme in fattening turkeys will take place at the slaughterhouses where they are slaughtered mainly at Christmas period (seasonal production). Competent veterinary services will be responsible for collecting 10 blood samples per flock slaughtered.

The implementation of the programme in turkey breeders will take place at their holdings and/or abattoirs during slaughtering. Competent veterinary authorities will be responsible for collecting 10 blood samples per holding, and from the different sheds, if more than one shed is present on a holding. In case of several sheds the sample size per holding shall increase to 5 blood samples per shed.

III) Ostrich farming

Ostrich sampling will take place during their slaughtering in abattoirs used for bovine/porcine animals. Competent veterinary services will be responsible for collecting 5 blood samples per flock slaughtered.

IV) Duck and Goose farming

As we already mentioned, there are no holdings with fattening ducks/geese or ducks/geese breeders in Greece and these species are only reared in some mixed poultry holdings that sell poultry for use as backyard flocks. Therefore, in case there are ducks and/or geese present in holdings of this production category (poultry reared and sold for use as backyard flocks) scheduled to be sampled, in addition to the samples foreseen to be collected from the other poultry species present, a total of 20 blood samples from ducks and/or geese shall be taken from each holding.

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VI) Farmed game birds (gallinaceous)

Sampling shall focus on adult birds and will take place at their farms. Ten blood samples will be collected from every farm, and from the different sheds, where more than one shed is present. In case of several sheds the sample size per holding shall increase to 5 blood samples per shed.

Every official Veterinary Service at prefectural or regional level, upon dispatching samples to the relevant State Veterinary Laboratory will in written notify both the Laboratory and the General Veterinary Directorate of Ministry of Rural Development and Food about :

- number and kind of samples sent
- species and number of farms/birds sampled-location-owner
- identification number of holding sampled
- date and means of dispatch

Analytical presentation of the number of samples to be collected per poultry category and geographical area is laid down in tables in sections 2.2.1 and 2.2.2 of this form.

2.4. Laboratory testing : description of the laboratory tests used and follow up investigations

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

In the framework of the survey programme for avian influenza in poultry, testing by serological and possibly virological methods shall be performed by the following three State Veterinary Laboratories.

- i) The Avian Pathology Dept. of the Center of Institutions of Thessaloniki (80, 26th October Street, 54627 Thessaloniki) which is designated as the Greek National Reference Laboratory for Avian Influenza and has the responsibilities that are foreseen in Council Directive 2005/94/EE will be acting as coordinator for the laboratory tests to be performed and will accept samples from the areas of Thrace, Epirus, Macedonia and the islands of Ionian Sea.
- ii) The Avian Pathology Dept. of the Center of Institutions of Athens (26, Neapoleos Street, 15310 Agia Paraskevi, Athens) which is designated as the Greek National Laboratory for Newcastle Disease, which will accept samples from Peloponnesus and the islands of Aegean Sea.
- iii) The State Veterinary Laboratory of Chalkis, which will accept samples from the areas of Thessaly and Sterea Ellada in central Greece.

The laboratories upon obtaining the results from the tests they will perform, will in written inform the NRL for Avian Influenza and the General Veterinary

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Directorate of the Ministry of Agriculture, mentioning:

- protocol number of dispatch-relevant veterinary authority
- number and kind of samples examined
- species and number of farms/birds sampled-location-owner
- laboratory tests used and results
- identification number of holding tested positive

Laboratory tests shall be carried out in accordance with the avian influenza diagnostic manual (Commission Decision 2006/437/EC) laying down the procedures for the confirmation and differential diagnosis of avian influenza.

All positive serological findings shall be confirmed by the NRL by a haemagglutination-inhibition test, using designated strains supplied by the EURL:

(a) for H5 subtype:

- (i) Initial testing using teal/England/7894/06 (H5N3);
- (ii) Testing of all positives with chicken/Scotland/59(H5N1) to eliminate N3 cross reactive antibodies

(b) for H7 subtype:

- (i) Initial testing using turkey/England/647/77 (H7N7);
- (ii) Testing of all positive with African starling/983/79 (H7N1) to eliminate N7 cross reactive antibodies.

Positive serological findings shall be followed up by epidemiological investigation at the holding and further sampling for testing by virological methods in order to determine, if active infection of avian influenza virus is present.

All avian influenza virus isolates shall be submitted to the EURL in accordance with Community legislation. Viruses of H5/H7 subtype shall be submitted without delay in order to be subjected to the standard characterisation tests (nucleotide sequencing/IVPI) according to the Diagnostic Manual.

The specific protocols provided by the EURL to accompany samples and diagnostic material to be sent to the EURL shall be used.

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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 Central Authority for the Programme is the General Veterinary Directorate of the Ministry of Rural Development and Food / Animal Health Directorate. The Department of Avian, Fish and Bee Pathology of the Animal Health Directorate is responsible for the description of the Programme, the follow up of the necessary procedures and the collection and elaboration of the data.

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

max. 32000 chars) :

Primary objective of the sampling plan drawn for the purposes of this programme is to focus on certain regions by taking in account risk assessment results on the basis of epidemiological data. Special emphasis shall be laid on the deltas of Evros, Evrotas, Sperchios and Axios rivers, on the lakes of Vistonis, Paralimni, Kerkini, and Pamvotis, on the Gulfs of Amvrakikos and Kaloni, on the Mesologi lagoon, on the Schinias wetland and finally on the dam of Anapodaris river. These areas are located in the regions of Thrace, Macedonia, Epirus, Aegean Islands, Sterea Ellada, Crete, and Peloponisos, covering 10

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out of 13 administrative districts. However, the majority of samples are scheduled to be collected from the northern part of the country (Thrace, Macedonia, Epirus), where a larger wildlife population and a higher concentration of poultry farms are observed.

3.1.3 Estimation of the local and/or migratory wildlife population

(max. 32000 chars) :

No relevant data exist. According to ornithological bodies, numbers vary, depending on severity of winter conditions in Asia and Europe

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

(max. 32000 chars) :

The survey in wild birds is first of all based on information regarding distribution, main habitats, behavior, movements and population sizes of targeted wild bird species (TS), listed in part 2 of Annex II to Commission Decision 2010/367/EU, in Greece. Moreover, it takes into account all available data on Greek wetlands in conjunction with the location and density of poultry farms around the country. Finally, it considers and utilizes all results obtained during the implementation of previous AI surveillance programmes.

Apart from the Veterinary Authorities and in the framework of a long established cooperation, all bodies actively interacting with wild birds shall be informed of the purpose, the guidelines and the goals of this programme in order to secure their necessary contribution in both preparing and implementing it. In particular, the Hunters Confederation of Greece, the Greek Ornithologists Society, the National Agriculture Research Foundation, the

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Forestry Services General Directorate of the Ministry of Environment and Climate change and two private Institutions dealing with collection, medical treatment and release of injured or diseased wild birds, shall assist in species identification, sampling, optimising sampling procedure and adjusting Community's guidelines to national situation.

Passive surveillance, focused on laboratory investigation of moribund wild birds or birds found dead, is the main type of surveillance to be implemented. If the epidemiological situation for the HPAI H5N1 virus so requires, surveillance activities shall be enhanced by awareness raising and active searching and monitoring for dead or moribund wild birds, in particular for those belonging to TS. This could be triggered by the detection of the HPAI H5N1 virus in poultry and/or wild birds in neighbouring Member States and third countries or in countries which are linked via the movement of migratory wild birds, in particular those of TS, to Greece. In that case the specific migration patterns and wild bird species shall be taken into account.

On this basis, a number of 200 birds is expected to be sampled in the framework of passive surveillance, whereas additional 100 birds can be estimated in case of active searching and monitoring for dead or moribund wild birds, if the epidemiological situation so requires. Numbers can be substantially higher in case of massive deaths.

Passive surveillance will be based on the notification for moribund or dead birds from citizens throughout the whole territory of Greece. Veterinary Authorities shall assess and filter incoming reports by focusing on TS which are found in areas close to the sea, lakes and waterways where poultry farms are in high densities. Bird cases meeting the requirements of the surveillance plan and therefore considered eligible for sampling shall be forwarded to the designated laboratories.

Moreover and given their background, all those actively involved with wild birds (hunters, ornithologists, volunteers etc) not only will they assist sampling in the context of a passive surveillance system, but they will also secure optimal sample collection in terms of species identification and sampling in "high-risk" areas. Whenever active surveillance is considered necessary, they shall carry it out as well.

According to previous experience a sampling scheme will be prepared and included in the Ministerial Decision for the implementation of the surveillance programme. This sampling scheme will describe the areas and bird species to be sampled and the responsibilities of the above mentioned organizations in the sampling collection in such a manner so all target areas and target species will be thoroughly covered. In the sampling scheme a full characterization of the bird species to be sampled shall be included. The sampling scheme will be prepared by the Department of Avian Pathology of the GVD in co-operation with the Hunters Confederation of Greece, the Forestry Services General Directorate of the Ministry of Rural Development and Food and the Greek Ornithologists Society.

In case of confirmed positive cases of HPAI H5 (N1) [Disease control measures are to be implemented based on confirmation of HPAI H5 and suspicion of N1], the control measures laid down in Commission Decision 2006/563/EC of 11 August 2006 concerning certain protection measures in relation to highly

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pathogenic avian influenza of subtype H5N1 in wild birds in the Community and repealing Decision 2006/115/EC shall apply. As part of epidemiological investigations, areas linked to those cases shall be identified to possibly forecast further virus incursions of avian influenza, in particular in areas of relevance to poultry production, such as areas with a high density of poultry holdings.

All positive and negative results obtained under the surveillance of wild birds will be submitted to the Commission of the EU by the General Veterinary Directorate of the Ministry of Rural Development and Food through the Commission on-line system. Two 6-month period reports will be submitted by forwarding them within a period of four weeks following the end of the months covered by the report.

- (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.*

3.2.1 WILD BIRDS focussed on target species

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












In case of multiannual programme, please provide targets on annual basis.

If your targets differ between different implementation years please provide separate tables per year in attachment.

NUTS (2) code/region (a)	Wild birds to be sampled (b)	Total number of birds to be sampled	Estimated total number of samples to be taken for active surveillance (c)	Estimated total number of samples to be taken for passive surveillance	
GR11	ANATIDAE	35	0	35	X

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GR11	LARIDAE	12	0	12	X
GR11	RALLIDAE, PODICIPEDIDAE & 	9	0	9	X
GR11	CHARADRIIDAE, ACCIPITRIDAE 	9	0	9	X
GR12	PHALACROCORACIDAE	12	0	12	X
GR12	ANATIDAE	50	0	50	X
GR12	RALLIDAE, PODICIPEDIDAE & 	8	0	8	X
GR12	CHARADRIIDAE, ACCIPITRIDAE 	8	0	8	X
GR21	ANATIDAE	30	0	30	X
GR21	RALLIDAE, PODICIPEDIDAE & 	5	0	5	X
GR21	CHARADRIIDAE, ACCIPITRIDAE 	5	0	5	X
GR23	ANATIDAE	9	0	9	X
GR23	RALLIDAE, PODICIPEDIDAE & 	5	0	5	X
GR23	CHARADRIIDAE, ACCIPITRIDAE 	5	0	5	X
GR24	ANATIDAE	9	0	9	X
GR24	RALLIDAE, PODICIPEDIDAE & 	5	0	5	X
GR24	CHARADRIIDAE, ACCIPITRIDAE 	5	0	5	X
GR25	ANATIDAE	9	0	9	X
GR25	RALLIDAE, PODICIPEDIDAE & 	5	0	5	X

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GR25	CHARADRIIDAE, ACCIPITRIDAE	5	0	5	X
GR30	ANATIDAE	9	0	9	X
GR30	RALLIDAE, PODICIPEDIDAE &	9	0	9	X
GR30	CHARADRIIDAE, ACCIPITRIDAE	9	0	9	X
GR30	LARIDAE	9	0	9	X
GR42	FALCONIDAE	5	0	5	X
GR41	ANATIDAE	5	0	5	X
GR41	LARIDAE	5	0	5	X
GR43	ANATIDAE	5	0	5	X
GR43	RALLIDAE, PODICIPEDIDAE &	2	0	2	X
GR43	CHARADRIIDAE, ACCIPITRIDAE	2	0	2	X
Total		0	300	300	

Add a new row

(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.

(b) General description of the wild birds are intended to be sampled in the framework of the active and passive surveillance.

(c) Voluntary, to be included for information purposes, not eligible for cofinancing.

3.3 Sampling procedures and sampling periods

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max 32000 chars :

Sampling procedures shall be carried out in accordance with the Diagnostic Manual and sampling period shall extend without interruptions from 1 of January up to 31 of December 2014.

Cloacal and tracheal/oropharyngeal swabs and/or tissues (namely the brain, heart, lung, kidney and intestines) from wild birds found dead or moribund shall be sampled for molecular detection (PCR) and/or virus isolation.

Specific care shall be taken for the storage and transport of samples to the laboratory for testing. The swabs shall be chilled immediately on ice or with frozen gel packs and submitted to the laboratory as quickly as possible. The samples shall not be frozen unless absolutely necessary. If rapid transport within 24 hours to the laboratory is not guaranteed, the samples shall be immediately frozen, stored and then transported on dry ice.

In addition and not as an alternative to chilling, the swabs shall be placed in an antibiotic or specific virus transport medium at 4 oC so that they are fully immersed. In the absence of such medium, swabs shall be returned to their casing and submitted dry to the laboratory for testing.

Every official Veterinary Service at prefectural or regional level, upon dispatching samples to the relevant State Veterinary Laboratory will in written notify both the Laboratory and the General Veterinary Directorate of Ministry of Rural Development and Food about:

- number and types of samples sent
- species and number of wild birds sampled
- date of sampling in the field/place of bird origin
- geo of sample
- status of birds

3.4 Laboratory testing : description of the laboratory tests used

max 32000 chars :

In the framework of the survey programme for avian influenza in wild birds, testing by virological methods shall be performed by the following three State Veterinary Laboratories (same as in poultry surveillance).

- i) The Avian Pathology Dept. of the Center of Institutions of Thessaloniki (80, 26th October Street, 54627 Thessaloniki) which is designated as the Greek

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National Reference Laboratory for Avian Influenza and has the responsibilities that are foreseen in Council Directive 2005/94/EE will be acting as coordinator for the laboratory tests to be performed and will accept samples from the areas of Thrace, Epirus, Macedonia and the islands of Ionian Sea.

ii) The Avian Pathology Dept. of the Center of Institutions of Athens (26, Neapoleos Street, 15310 Agia Paraskevi, Athens) which is designated as the Greek National Laboratory for Newcastle Disease, which will accept samples from Peloponnesus and the islands of Aegean Sea.

iii) The State Veterinary Laboratory of Chalkis, which will accept samples from the areas of Thessaly and Sterea Ellada in central Greece.

The laboratories upon obtaining the results from the tests they will perform, will in written inform the NRL for Avian Influenza and the General Veterinary Directorate of the Ministry of Agriculture, mentioning:

- protocol number of dispatch-relevant-veterinary authority
- date of receipt of sample in laboratory
- species and number of wild birds examined
- number and types of samples examined
- geo of sample
- status of birds
- laboratory tests used and results

Laboratory tests shall be carried out in accordance with the avian influenza diagnostic manual (Commission Decision 2006/437/EC) laying down the procedures for the confirmation and differential diagnosis of avian influenza.

Samples taken from wild birds shall be tested as soon as possible by molecular techniques. All three designated laboratories will perform rRT-PCR by using methods which are recognized by the CRL for avian influenza. Initial screening using M gene rRT-PCR shall be conducted, with rapid testing of positives for H5, H7 and N1 within a period of not more than 2 weeks. In addition, all M gene positive samples shall be appropriately processed and inoculated in embryonated fowl's eggs.

In case of a positive finding for H5, an analysis of the cleavage site shall be undertaken as soon as possible to determine whether or not it has a highly pathogenic avian influenza (HPAI) or a low pathogenic avian influenza (LPAI) motif.

Viruses of the H5/H7 subtype shall be submitted to the EURL without delay in order to be subjected to the standard characterisation tests (nucleotide sequencing/IVPI).

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

(max 32000 chars :

In compliance with Community legislation, surveillance programmes of avian influenza have been implemented since 2003. Until now, numerous flocks from every poultry category have been sampled and tested negative for both HPAI and LPAI.

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

(max. 32000 chars) :

In compliance with Community legislation, surveillance programmes of avian influenza have been implemented since 2003. The first occurrence of the disease was reported during the implementation of the 2006 programme, where virological tests were carried out in more than 2500 wild birds and 33 of them, all found dead in the framework of passive surveillance, were tested positive for HPAI H5N1 between 30/1/2006 and 4/3/2006. In particular, 30 of these cases were detected in mute swans, 1 case in whooper swan, 1 case in a wild goose and 1 case in a cormorant, while these birds were discovered mainly in the northern part of Greece. Since then no HPAI or LPAI subtypes of H5 or H7 have been detected in wild birds.

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

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(max. 32000 chars) :

According to recent Greek legislation which has been into full force since 2005 the immediate notification of any abnormal mortality or sickness of migrating or domestic wild birds has been obligatory.

As regards the notification of the disease, currently in force Presidential Decree 33/2008 secures that the suspected and confirmed presence of avian influenza are compulsorily and immediately notified to the competent veterinary authorities in accordance with Council Directive 2005/94/EE.

7. Costs

7.1 Detailed analysis of the costs

7.1.1 Poultry

(max. 32000 chars) :

Serological pre-screening of Gallus gallus and turkey holdings will be conducted by using indirect ELISA. In particular, 252 holdings will be sampled and 2520 sera will be examined. Estimating a €2 cost per sample, the total cost for serological pre-screening using indirect ELISA will reach €5040,00. Serological pre-screening will also be conducted by using competitive ELISA on farms with ratites, farmed game birds and poultry (other than chickens and turkeys) reared to be sold for use as backyard flocks. More analytically, 63 holdings will be sampled and 535 sera will be examined. Estimating a €2 cost per sample, the total cost for serological pre-screening using competitive ELISA will reach €1070,00.

Taking into account the above, the total number of sera to be tested with the ELISA method is set to 3055, which by estimating a €2 cost per sample results in a total cost of €6110,00.

Haemagglutination Inhibition (HI) tests for H5/H7 will be used for ELISA positive sera which are estimated to reach 1% of the 3055 examined samples. Thus, 30 sera will be tested with HI. Estimating a €12 cost per sample the cost for HI tests will reach €360,00.

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HI positive tests for H5/H7 shall be followed by further sampling and testing according to diagnostic manual's guidelines on type and number of samples where AI outbreaks are suspected. By estimating that a number of three holdings shall be suspected of AI infection, additional 60 HI tests for H5/H7 and 150 Real time PCR (rRT-PCR) tests shall be performed costing €720,00 and €2250,00 respectively.

Expenses due to sampling and dispatching are estimated to €0.5 per sample from poultry flocks and are calculated to a total amount of €1632,50 (cost of the additional sampling in case of AI suspicion in three holdings has been included as well).

7.1.2 Wild birds

(max. 32000 chars) :

Real time PCR (rRT-PCR) will be conducted for all wild bird samples. As already mentioned above, 300 wild birds will be sampled and 600 samples (two per bird) will be collected. Estimating a €15 cost per sample the cost for rRT-PCR tests will be €9000,00.

Virus Isolation (VI) test will be used for rRT-PCR positive samples which are estimated to reach 5% of the 600 examined samples. Thus, 30 samples will be tested using VI with a total cost of € 900,00.

Additional expenses due to sampling and dispatching are estimated to €5 per wild bird sampled and are calculated to a total amount of €1500,00.

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7.2 Summary of the annual costs : 2014

7.2.1 Poultry surveillance

Detailed analysis of the cost of the programme - poultry

*In case of multiannual programme, please provide estimations on annual basis.
If your cost estimations differ between different implementation years please provide separate tables per year in attachment.*

Laboratory testing			
Methods of laboratory analysis	Number of tests	Unitary test cost (per method) in €	Total cost (€)
ELISA test	3 055	2	6 110
agar gel immune diffusion test	0	0	0
Haemagglutination-inhibition-test (HI) for H5 (specify number of tests for H5)	90	6	540
Haemagglutination-inhibition-test (HI) for H7 (specify number of tests for H7)	90	6	540
Virus isolation test	0	0	0
PCR test	150	15	2 250

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Other please specify here	0	0	0	
			Add a new row	
Sampling				
	Number of samples	Unitary cost in €	Total cost (€)	
Samples	3 265	0.5	1632.5	
Other measures				
	Number of samples	Unitary cost in €	Total cost (€)	
Other please specify here	0	0	0	X
			Add a new row	
Total poultry Testing + Sampling + Other measures	6 650		11 072,50 €	

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7.2.2 Wild bird surveillance

Detail analysis of the cost of the programme - wild birds

Laboratory testing			
Methods of laboratory analysis	Number of tests	Unitary test cost (per method) in €	Total cost (€)
Virus isolation test	30	30	900
PCR test	600	15	9000
Other please specify here	0	0	0
			Add a new row
Sampling			
	Number of samples	Unitary cost in €	Total cost (€)
Samples	300	5	1500
Other measures			

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	Number	Unitary cost in €	Total cost (€)	
Other please specify here	0	0	0	X
			Add a new row	
Total wild birds Testing + Sampling + Other measures	930		11 400,00 €	
Grand Total Poultry + Wild birds	7580		22 472,50 €	

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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, doc, bmp, pna, 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.
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