

EUROPEAN COMMISSION HEALTH & CONSUMERS DIRECTORATE-GENERAL

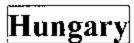
Unit 04 - Veterinary Control Programmes

SANCO/12914/2010

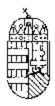
Programmes for the eradication, control and monitoring of certain enimal diseases and zoonoses

Control programme of Salmonella

Approved* for 2011 by Commission Decision 2010/712/EU



^{*} in accordance with Council Decision 2009/470/EC



Central Agricultural Office Animal Health and Animal Welfare Directorate

HUNGARY

Application

for Community financing for the national control programme of Hungary for

Salmonella spp. in broiler flocks of Gallus gallus

for the year 2011.

Part A

General requirements for the national salmonella control programmes

- (a) The main objective of the programme is to comply with existing Community legislation, to achieve Community prevalence targets within the defined time period available as regards broiler flocks of Gallus gallus in the territory of Hungary. The target is a reduction of the maximum percentage of flocks of broilers remaining positive of Salmonella enteritidis and Salmonella typhimurium to 1 % or less by 31 December
- (b) The programme covers the two zoonotic Salmonella scrotypes most relevant in relation to public health (S. Enteritidis, S. Typhimurium).
- (c) Protection against salmonellosis is mandatory pursuant to the relevant EU provision as of 1 January 2009. A Decree was created and came into force on the 7th of January, 2008, Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis. This Decree was repealed and a new Decree came in force on the 6th on January 2010 (Decree 180/2009. (XII. 29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis (hereinafter: "Decree"). The aim of creating the first Decree was to ensure compliance with the changes in the Community legislation. The Decree sets the conditions of the obligatory control measures in breeding, laying flocks and in broiler flocks of Gallus gallus against specified Salmonella scrotypes. The Decree complies with the minimum sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council indicating the relevant animal population and phases of production which sampling cover
 - day-old chicks (national legislation)
 - birds leaving for slaughter

The new Decree was issued, because sampling of turkey flock became mandatory. Also, the structure of the Decree is new and experiences regarding the implementations of the Programmes were built in.

More information about testing scheme: please see Part B Chapter 7.2

(d) The Decree compiles with the specific requirements laid down in Parts C, D and E of Annex II to Regulation (EC) No 2160/2003

1 General

- 1.1. The short summary referring to the occurrence of the salmonellosis [zoonotic salmonella] in Hungary with specific reference to the results obtained in the framework of monitoring in accordance with Article 4 of Directive 2003/99/EC of the European Parliament and of the Council², particularly highlighting the prevalence values of the salmonella serovars targeted in the salmonella control programmes: Please see Part B Chapter 3.
- 1.2. The structure and organization of the relevant competent authorities: Please see Annex I.
- 1.3. Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate (formerly named: National Food

OJ L 325, 12.12.2003, p. 1.

² QJ 1, 325, 12.12.2003, p. 31.

- Investigation Institute), Central Agricultural Office). The NRL is in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for co-operation with the Community Reference Laboratory in Bilthoven (NL).
- 1.4. Methods used in the examination of the samples in the framework of the programme: Please see Part B Chapter 7.3
- 1.5. Official controls (including sampling schemes) at feed, flock and/or herd level: Please see Part B Chapter 7.2.1.
- 1.6. Measures taken by the competent authorities with regard to animals or products in which the presence of *Salmonetla spp.* have been detected, in particular to protect public health: Please see Part B Chapter 4.4.3, and Chapter 4.4.4.
- 1.7. National legislation relevant to the implementation of the programme, including national provisions concerning the activities set out in the programme: Please see Part B Chapter 4.4.7
- 1.8. Financial assistance provided to food and feed businesses in the context of the programme:

 Costs and benefits are calculated based on the previous year's data of the Poultry Product
 Board of Hungary. In the case of broiler flocks costs will occur from the intensive sampling
 of the flocks as well as the tests performed on the samples (including both testing on the
 initiative of the operator and the veterinary authority), the measures to be applied in the case
 of infection (slaughter or killing of the flock, condemnation, transportation, cleansing and
 desinfection) as well as financial losses due to decreased income for the poultry industry.
 In case of a positive flock, when compensation occurs, valuation of the birds is performed
 by the district chief veterinary officer according to a scale provided by the Poultry Product
 Board. It is based on a calculating system, where the day-old chicks' price is considered as
 100%, and the value of a bird depends on its production cycle and age (given in percentage)

Valuation/valorisation of birds is calculated based on the previous year's data of the Poultry Product Board of Hungary. Table containing these data is sent to the central veterinary office.

2. Act No. XLVI, of 2008, on the food chain and its official control and Decree No. 45/2010. (IV23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses and Decree No. 148/2007. (XII.7.) on the prevention of certain animal diseases and the order of claiming financial support and payment regarding their overcome in 2010 give the financial guarantee of the national programme. Concerning food and feed businesses covered by the programme

2.1. The structure of the production

Broiler flocks are kept usually until the age of 38-42 days (depending on the technology). As cleansing take place after every flock, each year 6 flocks can be reared in a certain airspace in average. The Regulation requires all relevant broiler flocks to be tested 3 weeks before leaving for the slaughterhouse. The National legislation requires all relevant broiler flocks to be tested as day old chicks too.

2.2. The structure of the production of feed.

Feeding of poultry, including broiler flocks of Gallus gallus is based on cereal products, mainly on corn, barley and wheat. Soybean and fishmeal is used as a source of protein.

Commercial feed producers are operating according to GMP standards. Broiler flocks mainly use commercial pelleted feed, the technology of production of which includes heat treatment.

In Hungary, control of feedingstuffs is performed according to two main piece of legislation:

Act No. XLVI. of 2008 on the food chain and its official control, Governmental Decree 274/2006 (XII. 23) on the establishment and operation of the Central Agricultural Office and Decree of the Ministry of Agriculture and Rural Development No. 43/2003. (IV. 26.) on the implementation of the above Act.

In the Act general principles of the control of feed are laid down general principles of the control of feed, sets the competent authorities and allocates the tasks to these services.

Feed production plant may be authorised by the competent regional organization (County Directorate of Food Chain Safety and Animal Health) of the Central Agricultural Office. The authorisation must be renewed at periods of a maximum of 5 years. Other authorities are also involved in the authorisation process.

The registration of the feed production units is done by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

The Act states that the feedingstuffs produced may neither pose a direct health risk to liveflock, nor an indirect risk to public health.

Therefore, the competent Directorate of Food Chain Safety and Animal Health of County Agricultural Office perform regular controls of the feed production plants, including the production, keeping, marketing, transport and use of feed produced. Controls also include compliance with feed hygiene rules, safety, composition, microbiological safety of feedingstuffs, as well as many other parameters such as the presence of prohibited substances, packaging, labelling etc.

In case of non-compliance with any of the parameters listed in the Act and the Decree, the competent County Directorate may prohibit the production, keeping, marketing, transport, export, import or transport of the relevant feed. If such feed was already used, the Directorate of Food Chain Safety and Animal Health of County Agricultural Office has a duty to notify the county level public health authority.

The Decree gives detailed instruction to authorities and stakeholders on how to implement the Act. Annex 20 to the Decree sets out the maximum tolerable amount of Salmonella spp. in food and the related ISO standards. According to ISO 6579:2002, feedingstuffs must show zero Salmonella spp. / 25 grams.

In addition, the same Annex states that feedingstuffs must be free of any pathogens which may pose a direct risk to animal health and/or an indirect risk to public health.

2.3. Relevant guidelines

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. The guideline for the new decree is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

2.4. Routine veterinary supervision of farms:

Controls are planned annually by the Food Chain Safety Deputy President of Central Agricultural Office. Number of controls depends on risk assessment.

An official veterinarian can also perform on-spot checks when taking samples, but it is not necessarily connected. Inspections are performed based on a national program.

2.5. Registration of farms:

All poultry farms have to registered according to Decree no. 119/2007. (X.18) of MARD on keeping places, breeding farms and national registration system of their data if they meet the relevant criteria. For more information please see Part B Chapter 4.4.1.

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- which sends poultry directly to the slaughterhouse
- which have a slaughtering permit for small producers.
- 2.6. Record-keeping at farms: All documents concerning to the programme must be kept for 3 years. The documentation has to contain all data about animals, tests, transports, samples and medication
- Documents to accompany animals when dispatched.

Commercial poultry consignments are accompanied with animal health certificates according to Directive 90/539/EC. Consignments with national destinations are accompanied with animal health certificates according to Decree 41/1997. (V. 28.) FM appendices 8/a and 8/b.

In accordance with Paragraph 85, of Decree No 41/1997, of the Minister of Agriculture on the publication of the Animal Health Code, the official veterinarian carries out a flock examination within 12 hours before transportation, and on the basis of the financing/allowance plan, fills out the animal health certification in the appendices 8/a, and 8/b, certifies the place of origin of the day-old animals, their circumstances free from epidemic, the name of the vaccine used, the time and method of the immunization. Because of the changes occurred since the publication of the legislation, this ordinance cannot be fulfilled in these days.

"Animals can only be transported when accompanied by a valid certification attested by the veterinarian responsible for treatment" in accordance with point 4.2.1. point (Starting of poultry consignments) of the guide which was prepared for poultry hatcheries that are obliged to TIR registration, in accordance with point d) of Paragraph 6. of Decree No 120/2007. (X. 18.) of the Minister of Agriculture and Rural Development on establishing and operating of the Poultry Information System (hereinafter: BIR regulation). In pursuance with point 4.2.1., "The hatchery starting the consignment has to fill in the Poultry movement form 2740, on the upper part of which the data of starting has to be given".

The poultry animal health certificate laid down in the BIR regulation is not to replace the certificate 8/b., as the authority responsible for animal health takes part in issuing the latter only.

At the same time, even the certification 8/a, can not be replaced by the introduction of the BIR regulation, as certain data that have to be certified by the veterinarian in the certificate 8/a are not placed on the latter, for example immunizations carried out in the flock, diagnostic examinations and the results thereof.

In pursuance of the abovementioned regulations, all three certifications are required for the transport of the day-old poultry. The BIR certification is drawn up by the veterinarian responsible for treatment, while certifications 8/a, and 8/b, are filled in by the approved veterinarian, in accordance with the Governmental Decree No 113/2006. (V. 12.) on the competence and detailed rules of the activity of the approved veterinarian, with the exception of the case when the approved veterinarian is not the treating veterinarian, because in those cases the certification 8/a, has to be filled in by the veterinarian of the hatchery.

As it can be seen from above, the current legislation of movement documentations doesn't seem to be unambiguous as regards several points.

For solving the problem, a working group was established. The working group is predestined for revising the form and content of certificates for inland live animal transportation and as far as possible, for the harmonisation thereof.

2.8. Other relevant measures to ensure the traceability of animals. Please see Part A 2.7, and Part B Chapter 4.2, and Chapter 4.4.1.

At central level three persons are responsible for the TRACES, of which one is responsible for the technical part (for example: giving access to the system). The two other colleagues (one at

MRD and one at CAO) are the trade contact points of Hungary and are keeping the contact wit the counterparts of the member states.

Part B

1. Identification of the programme

Member State: Hungary

Disease: Infection of animals with zoonotic Salmonella spp.

Animal population covered by the programme: Broiler flocks of Gallus gallus

Year of implementation: 2011

Reference of this document: 02.3/897/5/2010.

Contact (name, phone, fax, e-mail): Dr. Imre Nemes

Director

Animal Health and Animal Welfare Directorate

Central Agricultural Office Tel: +36-1-460-6300 ext. 112

Fax: +36-1-222-6064 c-mail: nemesi@oai.hu

Date sent to the Commission: 30th of April, 2010

2. Historical data on the epidemiological evolution of zoonotic salmonellosis specified in point 1

Monitoring and control programmes for Salmonella spp. (S. Enteritidis and S. Typhimurium) started in Hungary in 1997 by issuing official guidelines for the poultry sector. The goal of the project was to achieve similar targets as which were set by Council Directive 92/117/EEC. The collection of guidelines were ordered by the Ministry of Agriculture and were prepared by an expert group consisting of both Hungarian experts of various backgrounds (Hungarian Academy of Science, National Food Investigation Institute, Central Veterinary Institute and numerous practicing veterinarians) and experts of the Agri-Livestock Consultant Ltd (W. Edel and C. Wray). The work was financed by the PHARE programme of the European Union under project No. HU 9304-05-02. The programme covered the whole poultry sector in relation of Gallus gallus, breeding flocks, hatcheries, broiler flocks, table egg producing layer flocks, egg packaging and distribution establishments, poultry slaughterhouses, cutting plants as well as feed mills. The guidelines stated clearly that there is an urgent need for centralised official administrative measures in the form of a ministerial decree by the Minister of Agriculture.

The first decree was created in the year 2002: Decree 49/2002. (V. 24.) of the Minister of Agriculture and Rural Development on protection against salmonellosis and poultry typhus and on retaining officially free status, and was modified by the Decree 97/2003. (VIII. 19) Minister of Agriculture and Rural Development, A new Decree was created and came into force on the

7th of January, 2008, and can be referred to as Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis. The aim of creating the new Decree was to ensure compliance with the changes in the Community legislation.

Decree 2/2008 of MARD set the conditions of the obligatory control measures in breeding, laying flocks and voluntary (mandatory from 2009) measures in broiler flocks of Gallus gallus against specified Salmonella scrotypes. As a prerequisite, there is an obligation of the holdings keeping broiler flocks of Gallus gallus to be registered by the State Veterinary Service. Results of testing required by the Decree are also to be notified to the Directorates of Food Chain Safety and Animal Health of County Agricultural Office (formerly named: County Animal Health and Food Control Station). Decree 2/2008 of MARD had been amended 5 times till it was repealed and replaced by Decree 180/2009 of MARD (hereinafter referred as 'Decree') as of 6th of January, 2010. The new Decree covers the same area, but the structure of it was modified and enhanced based on experience.

The baseline study of the prevalence of Salmonella spp. in broiler flocks of Gallus gallus carried out according to Commission Decision 2005/636/EC shows that infection of broiler flocks for Salmonella Enteritidis and Salmonella Typhimurium is 8,1%. According to monitoring tests carried out infection with Salmonella Infantis is 58,3% (87% of the Salmonella infection is Salmonella Infantis). The Community target which is set by Commission Regulation No 646/2007 (EC) Art. (1) of flocks of broilers remaining positive of Salmonella Enteritidis and Salmonella Typhimurium is 1% or less by 31 December 2011. This goal can only be achieved by a rigorous control programme using extensive professional and financial resources.

3. Description of the submitted programme

The main objective of the programme is to comply with existing Community legislation to achieve Community prevalence targets within the defined time period available as regards broiler flocks of Gallus gallus in the territory of Hungary. The European legislation set targets of Salmonella Enteritidis and Salmonella Typhimurium (according to Commission Regulation No 646/2007 (EC), No 584/2008 (EC)), with effect from 84 months after entry into force of Regulation (EC) No 2160/2003 of the European Parliament and of the Council, fresh poultry meat from broiler flocks of Gallus gallus may not be placed on the market for human consumption unless absence of Salmonella in 25 grams. As Salmonella Infantis is the most common Salmonella in broilers in Hungary, as a national target, national control programme shall cover Salmonella Infantis in broilers as well.

All broiler flocks of Gallus gallus included in the programme are registered in the territory of Hungary.

Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate, Central Agricultural Office) The NRL will be in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for co-operation with the Community Reference Laboratory in Bilthoven (NL).

4. Measures of the submitted programme

4.1. Summary of measures under the programme of the broiler flocks

Duration of the programme:

First year: 2009 Last year: 2011

☑ Testing : Testing

☑ Slaughter of positive animals
 ☑ Killing of positive animals
 ☑ Vaccination
 ☑ Slaughter of positive animals
 ☑ Extended slaughter or killing

□ Vaccination
 □ Extended slaughter or killing
 □ Disposal of products

☑ Disposal of products

... Other measures (specify): Because many times we can not find any slaughterhouse for slaughter the positive flocks, in that cases we need to use the "killing of positive animals".

After emptying the relevant holding (infected with SE/ST) operators are required
to implement proper cleansing and desinfection. Effectiveness of the procedure is
controlled by the competent regional animal health authority. Restocking is only
authorised, when cleansing and desinfection is deemed to be satisfactory.

4.2. Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme:

All holdings must be registered at the district veterinary office. The official senior veterinary officer keeps and updates the record of holdings participating the programme. The official senior veterinary officer also declares the status of the holdings according to their actual serological status.

The 19 Directorates of Food Chain Safety and Animal Health of County Agricultural Offices coordinate and supervise the programme in their territory. They are required to annually report the actual status of the programme to the Animal Health and Animal Welfare Directorate of the Central Agricultural Office.

Name: Central Agricultural Office

Animal Health and Animal Welfare Directorate

Name in Hungarian: Mezőgazdasági Szakigazgatási Hivatal Központ

Állategészségügyi és Állatvédelmi Igazgatóság

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

Tel.: +36-1-460-6300 Fax: +36-1-222-6065

4.3. Description and delimitation of the geographical and administrative areas in which the programme is to be implemented:

The programme will be implemented on the whole territory of Hungary. The programme is compulsory as from the 1st January, 2009

4.4. Measures implemented under the programme

4.4.1. Measures and terms of legislation as regards the registration of holdings:

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- which sends poultry directly to the slaughterhouse
- which have a slaughtering permit for small producers.

According to Paragraph 5, of the Decree the operator is obliged to register for the national control programmes, pursuant to Article 8 (3). Article 8 (3) states that:

A business operator obliged to or voluntarily undergoing control pursuant to paragraph (1) shall apply for participation in the national control programme by submitting an epidemiological action plan approved by the private veterinarian responsible for the supervision of the poultry flock or hatchery at the competent district office by virtue of the location of the holding site, which shall register the business operator in accordance with Article 3(4) (a).

4.4.2. Measures and terms of legislation as regards the identification of animals: -

4.4.3. Measures and terms of legislation as regards the notification of the disease:

According to point 7 of paragraph 9 of the Decree:

The laboratory shall immediately notify the district office and the veterinarian taking the sample of the test results and - in the event of positive results - the business operator and the regional organization of the CAO as well. In the event of positive results the laboratory shall send the isolated strain for confirmatory testing and serotyping together with one original copy of the sampling form to the NRL. The testing laboratory must retain the copy of the sampling form for three years.

4.4.4. Measures and terms of legislation as regards the measures in case of a positive result:

In the frame of the *Salmonella* control programme in **broilers** the provisions of CR No 1168/2006/EC paragraph 1/2/4 are implemented.

According to the Decree:

Procedure in the event of positive test results

Article 11

- (1) If the sample taken from a flock of breeding hens, a flock of laying hens or a flock of breeding turkeys results positive the operator shall revise the epidemiological action plan within 22 working days and shall resubmit it to the District Office for approval. The revised plan shall contain the review of the hygiene conditions, especially the efficiency of the desinfection and pest control procedures, the results of the test to find possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 22 working days and may ask the operator to amend it if they find it unsatisfactory.
- (2) If a sample taken at a flock of broilers and fattening turkeys results positive the business operator shall revise the epidemiological action plan within 11 working days of receiving the result and shall resubmit it to the District Office for approval. The action plan shall contain the review of the hygiene conditions; especially the efficiency of the desinfection procedures and of pest control (insect and rodent extermination), the results of the test to identify possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 11 working days and may ask a business operator to amend it if they find it unsatisfactory.
- (3) If the results of salmonella testing of broiler and fattening turkey flocks results positive, there is a rapid method available on the business operator's request of excluding infection by Salmonella Enteritidis and Salmonella Typhimurium serotypes at a certified laboratory designated by the CAO using group-specific 'O' antibody. In this case the laboratory which performs the 'O' group typing will send the isolated strain to the NRL for serotyping.
- (4) If, using the group specific 'O' antibody, infection by Salmonella Enteritidis and Salmonella Typhimurium scrotypes can be excluded, then the given flock of broilers or fattening turkeys may be slaughtered by decision of the District Office. Measures pursuant to paragraph (2) and (5) shall be applied at the same time.
- (5) When, during scrotyping, the NRI. detects infection with a scrotype other than Salmonella Enteritidis or Salmonella Typhimurium, the District Office shall immediately withdraw the official certificate of infection-free status of the flock, if the operator has one, in respect of the given serotype. The operator shall clean the site after the production cycle (building, equipment and machinery, connecting rooms and paths) and in accordance with specific piece of legislation on issuing the Animal Health Code for stringent desinfection, rodent extermination and desinsectisation.
- (6) Operators may restock the airspace concerned only if they verify the efficiency of desinfection when an environmental swab sample tests negative in a laboratory. The business operator shall bear the costs of taking and testing environmental swabs.
- (7) If in the case of a flock of breeding hens the NRL detects infection by a salmonella scrotype that is considered a Community target under Regulation (EC) No 1003/2005, Article 12 (9) shall apply in respect of feed and Article 12(8) in respect of restocking of the air space.

Procedure in the event of Salmonella enteritidis or Salmonella typhimurium infection

Article 12

(1) If during serotyping the NRL detects infection with Salmonella Enteritidis or Salmonella typhimurium the District Office shall order restriction of movement of the flock concerned and

the products originating therefrom and shall withdraw the official certificate of infection-free status without delay. The official certificate of infection-free status in respect of other flock from the holding shall also be withdrawn at the same time unless the infected flock have been appropriately isolated.

- (2) Testing may only be repeated by official sampling ordered by the regional organization of the CAO pursuant to Article 9(1). Sampling for the official test may only be carried out by official or approved veterinarians within the shortest time possible. The NRL shall test the samples and at the same time conduct an examination to detect antimicrobial inhibitory effects. If the result from the repeated sampling is negative or it results in an infection with salmonella scrotypes not covered by the national control programmes and no antimicrobial inhibitory effect can be detected, the District Office shall lift the restriction of movement in respect of the flock and the products thereof. If antimicrobial inhibitory effects can be detected the District Office shall investigate the circumstances of the use of antibiotics and maintain the restriction on movement until it is proven that antibiotics were used for purposes other than to treat the infection of salmonella.
- (3) If repeated testing reveals infection by Salmonella Enteritidis or Salmonella Typhimurium or the regional organization of the CAO not orders a repeated test, the flock concerned may be slaughtered after preliminary consultation with the slaughterhouse and the official veterinarian supervising the slaughterhouse and in accordance with the specific veterinary health rules on separate slaughter.
- (4) In the event of infection by Salmonella Enteritidis or Salmonella Typhimurium in a flock of breeding hens and turkeys Annex II/C to Regulation (EC) No 2160/2003 shall apply and Annex II/D to Regulation (EC) No 2160/2003 shall apply to flocks of laying hens.
- (5) Meat from an infected flock may be placed on the domestic market without eliminating salmonella if the production processes following the slaughter of the infected flock are separated from the processing and treatment of other raw materials of animal origin and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from slaughtering and processing infected flock shall carry the text "for consumption only after heat treatment (thorough frying or cooking)" clearly and indelibly marked on every smallest packaging unit close to the identification label, close to the traceability marking; and on the accompanying commercial document.
- (6) If meat from infected flock is processed after salmonella elimination (heat treatment, heat treatment as part of product manufacturing) the processes following slaughter of the infected flock shall be separated from the processing of other raw materials of animal origin until salmonella has been efficiently eliminated, this has been certified and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from infected flock shall carry the text "Originates from salmonella-infected flock" on every smallest packaging unit close to the identification label and the premises traceability marking and may only be used to produce food when the technological manufacturing processes guarantee that the product will be salmonella-free. Every such food item shall be verified by microbiology testing carried out in a laboratory before the are cleared for retail trade and the official veterinarian supervising the slaughterhouse shall be informed thereof. The production plant may place heat treated products certified as salmonella-free on the market on the basis of the results of own checks.
- (7) After the keeping place of the infected flock has been emptied the operator shall provide for cleaning the building, equipment and machinery, connecting rooms and paths and in accordance with specific piece of legislation on the issuing of Animal Health Code for reinforced desinfection, rodent extermination and disinsectisation. The remaining litter shall be disposed of in accordance with special legislation on the treatment of waste of animal origin.

After these tasks have been accomplished the business operator shall inform the District Office, which will verify the efficiency of the measures implemented.

- (8) The District Office shall authorise the restocking of the airspace concerned only if the effectiveness of desinfection was verified by environmental swab samples test negative in the laboratory.
- (9) The feed fed to infected flock shall be tested without delay in accordance with the special legislation on the manufacturing, placing on the market and use of feed, except when day-old birds test positive. Until testing yields negative results such feed may only be fed to infected flock. If feed tests positive it has to be disposed of in accordance with the special legislation on the manufacturing, placing on the market and use of feed, and the equipment used for its storage and transportation shall be disinfected. If infection has been detected, specific testing shall be carried out to detect salmonella at the feed operator from which the feed originates.
- (10) Hatcheries to which infected hatching eggs have been transported shall act in accordance with Annex II/C(3) and (5) of Regulation (EC) No 2160/2003 and shall apply the provisions of paragraph (7) and (8). If a hatchery has a certificate of infection-free status the district office shall immediately withdraw this. The hatchery must cooperate in tracing the origins of infection on the basis of its records and shall bear the costs.
- 4.4.5. Measures and terms of legislation as regards the different qualifications of animals and herds:

See point 4.4.4.!

4.4.6. Control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned:

See point 4.4.4.!

- 4.4.7. Measures and terms of legislation as regards the control (testing, vaccination, etc.) of the disease:
 - Regulation (EC) No. 2160/2003, of the European Parliament and of the Council on the control of Salmonella and other food-borne zoonotic agents
 - Commission Regulation (EC) No 646/2007 of 12 June 2007 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards a Community target for the reduction of the prevalence of Salmonella Enteritidis and Salmonella Typhimurium in broilers and repealing Regulation (EC) No 1091/2005
 - Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry
 - Act No. XLVI, of 2008, on the food chain and its official control
 - Decree No. 180/2009. (XII. 29.) of Minister of Agriculture and Rural Development Decree No. 41/1997. (V. 28.) of Minister of Agriculture (Code of veterinary rules)
- 4.4.8. Measures and terms of legislation as regards the compensation for owners of slaughtered and killed animals:

- Act No. XLVI, of 2008, on the food chain and its official control.
- Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses
- 4.4.9. Information and assessment on bio-security measures management and infrastructure in place in the flocks/holdings involved:

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. The guideline for the new decree is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

General description of the costs and benefits:

Costs are calculated based on estimation and information of the Poultry Product Board of Hungary. In case of broiler flocks, costs will occur from the intensive sampling of the flocks as well as the tests performed on the samples (including testing on initiative of both the operator and the veterinary authority), the measures to be applied in the case of infection with S. Enteritidis and S. Typhimurium (slaughter or killing of the flock, condemnation, transportation, cleaning and desinfection) as well as financial losses due to decreased income for the poultry industry.

A detailed description of the costs is listed under point 8.

Benefits in case of the successful programme include improved food safety which contributes largely to the achievement of public health goals of the Community.

6. Data on the epidemiological evolution during the last five years

First year of the programme Vear; 2009.01.01,-05.31, Animal species; Gallus gallus, broilers Disease: (a); 200110tic salmonella

Régió (al)	Type of flock ^{b)}	Total number of flocks ^{ke}	Total number of animals	Total number of Bocks under the	Total pumber of animals under the programme	Number of Rocks checked ^(d)	Number	Number of pasitive ⁽⁶⁾ flocks ⁽²⁾	el flouks ^(a)	oli Oli Oranga	Number of flocks depupulated ⁽⁶⁾	Total ii of an shught destro	Total number of animals shughtered or destroyed to
		: :		n ogtallille			(al)	(42)	(43)	(a3)	€	(£	(43)
Bács-Kiskun	broiler	136	2002500	136	2002500		0	10	25	٥		\$000	0
Bironya	broiler	181	1565750	181	1565750				32	Q.	0	0	ا ت
Borsad-Abaúj- Zemplén	brailur	45	641850	45	641850		3	0	23	Ω	0	0	0
Bekés	hroiter	81	1093399	18	1093399		∍		10	0	0	0	÷
Csongrád	hroiler	57	1061560	57	1061560		Đ	ı	[+]	0	=	٠	=
Pejér	broder	61	\$80000	اب	580000		٥	0	e	0	0	0	÷
Gyór-Moson-Sopron	broiler	١.	847500	71	847500		_0	0	29	0		9	\$
- Hajdú-Bilbar	broiler	260	3347294	260	3347294		7	٣	82	0	=	•	٥
Heves	broiler	22	261200	2	261200		0	0	15	⇒	\$	<u> </u>	
Jász-Nagykun- Szolnok	: broiler	30	409500	×	409500		0	61	<u></u>	0	=	0	0
Komkrom- Esztergona	bruiler	66	857860	\$\$	857860		و	a.	ŝ	٥	0	0	
Negrad	broiler	12	89600	12	89600		-	0	: -=	_=!	c .	_ ≂ :	÷.
Fováros-Pest	hreiter	22	172000	22	172000			0	-	0	0	æ	=
Somogy	i broiler		267811	=	118297		٥	اِد		0	=	÷	\$
Szaboles-Szatmár- Bereg	hrsiler İ	235	2680988	: 23\$	2680988		·	0	<u>-</u>	0	. -	:	0
Tolna	broiler	34	185098	. 34	185098		-	•	10	.≎	¢		0:
Vas	broiler	- S	866780	ī.	N66780		0		£1		≎.	0	0
Veszprém	broiler	: 13	393000	13	393000		- -		ů.	ç	٥	٥	

Zala	broiler	20	1328113	30	1328112	_	7	-7	0	2	4300	٠
Summ.:		1431	1865180	1431	18651802	2	=	361	- -	. ~	008	
	7		2				 			_ 		

For zoonatic Salmonellosis indicate the serotypes covered by the control programmes: (a1) for Salmonella Enteritidis, (a2) for Salmonella Typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for Salmonella Enteritidis or Salmonella Typhimurium.

- For example, breeding flocks (reating, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate. æ
 - Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programmo.
 - Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more than once. তভি
 - If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once. Ē

Year; 2809.61.41.-12.31..

First year of the programme

Animal species: Gallus gallus, broilers Disease: (0); zoonotle salmonella

Régió (al)	Type at flock ⁽²⁾	Total number nf flocks ⁽²⁾	Total number of animals	Total number of flocks under the	Total number of animals under the programme	Number of flocks checked ⁽⁶⁾	Number	Number of positive ^{ke)} Bocks ^{to)}	i nocks ^{ta)}	Kum) flee	Number of flucks depopulated ^(a)	Total number of animals slaughtered or destroyed to	nraber mals ered or
				programme			(al)	(32)	(83)	(83)	(ast)	(304)	(43)
Bács-Kískun	hroiler	415	1305593	415	13055934	415		_	92	<u></u>		3300	⇒
Ватанур	hoikr	792	1136959	062	11086593	780	-	0	413	0	:	3200 0	ą.
Borsod-Abatiy- Zenptén	broiler	390	6943879	255	6013879	355	•	D.	92	0	0	φ 0	o O
Békès	broiler	184	5363886	184	5363886	184	-	-	58	0	c·1	7 60 0 0	0
Csongråd	broiler	. IS	3604250	158	360H250	851	0	רו	**	Ą	7	4540	0
Fejtir	hroiler	178	16035110	178	1603500	178	1	0	<u>.</u> .	0		1280	Þ
Gyár-Meson-Sopron	broiler	62	1084513	62	1084513	62	0	 -:	8	0		3000	0
Наудії-Віват	broiler	6901	1741173	1063	17413730	1063			246	0		1000	0
lleves	broiler	83	755500	78	755500	8.	0	٥	61	_	•	0	0051
Jász-Nagykun- Szolnok	broiler	140	3139490	0 1 10	3139490	140	5	0	28	ф.			٥
Konáron)- Extergion	broiler	225	1595505	225	12494610	225	œ.	0	. E		6	÷	0
Nôgrád	broiler	15	115000	15	000511	15	_	- -	11	0	2	3000	٥
Pováros-Pest	broiler	# *	344000	4	344000	1.1	-	0	**	ð	0	٥	٥
Somogy	broiler	36	810846	36	810846	36	c	c	12	<u>۽</u>	0	0	Đ

Szaboles-Szatmár- Bereg	broiler	107	2401437	107	2401437	107	_	_	\$	c	~	4870	
Tehn	broiler	142	1361862	127	1243892	. 138	<u> </u> -	0	6	٥		2100	j \circ
Vas	broiler	408	7526000	408	7526000	408	=	٥	16	0	0	0	٥
Veszprém	broiler	117	391000	11.3	441000	. 117	O.	0	5,2	0	- 73	5200 0	
Zula	broder	68	7599685	68	4145500	88	_		3	. m		. 0051	SM(M)
Summ.:		4553	1008371	4491	93541560	4492	2	-	1436	-	21	38. 1.00	050

For zoonotic Salmonellosis indicate the serotypes covered by the control programmes: (a1) for Salmonella Enteritidis, (a2) for Salmonella Typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for Salmonello Enteritidis or Salmonella Typhimurium.

For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds. or as appropriate. 3

Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice oven if it has been checked Total number of flocks existing in the region including cligible flocks and non-cligible flocks for the programme. more than once. වුම

If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

e

Stratified data on surveillance and laboratory tests

Straitfied data on surveillance and laboratory tests (one table per year and per disease/species) 6.2.1.

Year: 2009,01,01,-13,31,

Animal species (9); Gallus gallus

Category(b); broiler

Description of the used serological tests: following the Kaufmann-White scheme

Description of the used microbiological or virological tests; ISO 6579/2002

Description of the other used tests:

	Serologica	ical tests	Microbiological o	Microbiological or virological tests	Other tests	r tests
Region ^{io}	Number of samples tested ⁽ⁱⁱ⁾	Number of positive samplestal	Number of samples tested ^(d)	ositive o	Number of samples tested ⁽²⁾	Number of positive samples ^(c)
_	1815	1845	10980	5+81		
					:	
foroit.						

Animal species if necessary. <u>ଚ୍ଚ୍ଚ</u>

Category/further specifications such as breeders, laying hens, broilers, breeding turkeys, broiler turkeys, breeding pigs, staughter pigs, etc., when appropriate. Region as defined in the approved control and eradication programme of the Member State.
Number of samples tested.

9

6.3. Data on infection (one table per year and per species)

2009 Animal species (6); Gallus gallus

Year:

Category⁽⁶⁾; broiler

Number of animals infected					52966028	
Number of herds in ected ^(c)			4		1453	gramme of the Member State.
Region ^(b)					Total	Animal species if necessary. Region as defined in the control and cradication programme of the Member State. Herds or flocks or holdings as appropriate.
]			: _:		® ≙3

Animal species if necessary.
Region as defined in the control and cradication programme of the Member State.
Herds or flocks or holdings as appropriate.

7. Targets

7.1. Targets related to testing

2.1.1. Targets on diagnostic tests

Number and specification of tests

prevalence of Salmonella enteritidis and Salmonella typhimurium in turkeys, Commission Regulation No 646/2007 of 12 June 2007 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards Community target for the reduction of the prevalence of implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards a Community target for the reduction of the Mandatory testing will be performed in all registered broiler flocks of Gallus gallus. A preliminary calculation was made on the approximate number of tests to be performed in the flocks. The number of tests calculated is based on the total of flocks containing more than 2000 hens (4500 flocks at the moment according to the national register) and the testing scheme as provided for in Commission Regulation No 584/2008 of 20 June 2008 Salmonella Enteritidis and Salmonella Typhimurium in broilers and repealing Regulation (EC) No 1091/2005.

Broiler flocks are kept usually until the age of 38-42 days (depending on the technology). As cleansing take place after every flock, each year 3-6 flocks can be reared in a certain airspace in average. The Regulation requires all relevant broiler flocks to be tested 3 weeks before leaving for the slaughterhouse. Given that in Hungary are 4500 broiler flocks (~120000000 unimals) the total number of samples to be taken is 4500x 3 x2 = 27000 samples. (As according to Commission Regulation (EC) No 646/2007 at least two pairs of boot/sock swabs shall be taken and all boot/sock swabs must be pooled into one sample.) Official samples number will be ~ 450 . Based on the baseline study data, 8.1% of the flocks are infected with Salmonella Enteritidis or Salmonella Typhimurium, 66% of the flocks are infected with any Salmonella serotypes.

The latest data showed remarkable reduction: 0,45% of the flocks are infected with Salmonella Enteritidis or Salmonella Typhimurium, 32,9% of the flocks are infected with any Salmonella scrotypes.

Summarily, nearly 9000 (8883) samples are expected to be tested for the detection of Salmonella spp.

Serotyping will be performed from each positive isolate. Positivity is expected to be detected in 32,9% of flocks summary 1000 positive isolate will need serotyping per year.

Approximately 120,000,000 broilers are slaughtered in Hungary a year. Meat originated from Salmonella infected flocks will not be purchased by meat processing plants, therefore compensation is required (120,000,000 x 0.0045 x 1.6 €; about 1.6 € is the price of a broiler to be slaughtered). However, an exact number of tests, which will be performed, is not possible, because not every operator rears the same amount of flocks every year

Targets on testing of flocks3 2.1.2.

2011 Situation on date: Year: Disgase; (a): zoonotic salmonella Animal species: Gallus gallus, broiler

							i				7		i	ļ	:	إ	,
Kegion (al)	Type of Nock ⁽³⁾	Total number of flocks ^(c)	Total number of attimals	Total number of flocks under the programm	Total flocks of animals under the programme	Number of flecks checked ^(d)	Number	Number of positive ^{tel} Bocks ^{tax}	Bocks ^(a)	Number of flocks depopulated	ور و ر	Number of Total number of flocks animals lepopulated slaughtered or destroyed (9)		Quantity of eggs destroyed (number)		Quantity of eggs chamelled to egg products (number)	្ភ ខភ្
				υ			(41)	(82)	(83)	(a3) (a3) (a4)		(24) (a3)	(a3) (a4) (x3)	:	(44)	.હે જે
Total	Broiler flocks						2	7	1436	4	21 4	21 451100 105	105		0		0
		4553	120000000 1 4491	4491	93541560	4491							3	,			

(a) For zoonotic salmonellosis indicate the scrotypes covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimurium, (a3) for other serviypes specify as appropriate, (a4) for salmonella enteritidis or salmonella typhinurium.

(a1) Region as defined in the approved control and cradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying ben flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.

(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks (or the programme.

(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more

(c) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

Testing scheme 7.7

1. Frequency and status of sampling

(a) The sampling frame shall cover all flocks of broilers covered by the scope of Regulation (EC) No 2160/2003

(b) Flocks of broilers shall be sampled on the initiative of the food business operator and by the competent authority.

Specify types of flocks if appropriate(breeders, layers, broilers)

Sampling on the initiative of the food business operator shall take place in accordance with National legislation at day old chicks, and Sampling by the competent authority shall include each year at least one flock of broilers on 10 % of the holdings with more than 5 000 birds. accordance with Article 5(3) of Regulation (EC). No 2160/2003 within three weeks before the birds are moved to the slaughterhouse. It shall be done on a risk basis each time the competent authority considers it necessary.

A sampling carried out by the competent authority may replace the sampling on the initiative of the food business operator.

- However, by way of derogation from point (a), the competent authority may decide to sample at least one flock of broilers per round on holdings with several flocks if:
-) an all in/all out system is used;
- the same management applies to all flocks;
- feed and water supply is common to all flocks;
- during one year and at least six rounds, Salmonella spp. were tested according to the monitoring scheme set out in point (b) in all flocks on the holding and samples of all flocks of at least one round were taken by the competent authority; and
- all results from the testing for Salmonella Enteritidis or Salmonella Typhimmium were negative. E

Sampling protocol

At least two pairs of boot/sock swabs shall be taken. For free range flocks of broilers, samples shall only be collected in the area inside the house, All boot/sock swabs must be pooled into one sample. In day old chicks the sampling method is the same in breeders and layers.

by hand drag swabs, where the boot swabs or socks are worn over gloved hands and rubbed over surfaces contaminated with fresh facees, or if In flocks with less than 100 broilers, where it is not possible to use boot/sock swabs as access to the houses is not possible, they may be replaced not feasible, by other sampling techniques for facees fit for the intended purpose. Before putting on the boot/sock swabs, their surface shall be moistened with maximum recovery diluents (MRD: 0,8 % sodium chloride, 0,1 % peptone in sterile defonised water), or sterile water or any other diluent approved by the NRL referred to in Article 11 of Regulation (EC) No 2160/2003. The use of farm water containing antimicrobials or additional disinfectants shall be prohibited. The recommended way to moisten boot swabs shall be to pour the liquid inside before putting them on. Alternatively, boot swabs or socks may be autoclaved with diluents within autoclave bags or jars before use. Dilucnts may also be applied after boots are put on using a spray or wash bottle. It shall be ensured that all sections in a house are represented in the sampling in a proportionate way. Each pair should cover about 50 % of the area of the house, On completion of sampling the boot/sock swabs shall be carefully removed so as not to dislodge adherent material. Boot swabs may be inverted to retain material. They shall be placed in a bag or pot and labelled The competent authority shall supervise education of the food business operators to guarantee the correct application of the sampling protocol.

In the case of sampling by the competent authority because of suspicion of Salmanella infection and in any other case considered appropriate, the competent authority shall satisfy itself by conducting further tests as appropriate so that the results of examinations for Salmonella in flocks of broilers are not affected by the use of antimicrobials in those flocks.

Where the presence of Salmonella Enteritidis and Salmonella Typhimurium is not detected but antimicrobials or bacterial growth inhibitory effect are detected, it shall be considered as an infected flock of broilers for the purpose of the Community target.

Examination of the samples

3.1. Transport and preparation of the samples

Samples shall be sent by express mail or courier to the laboratories referred to in Articles 11 and 12 of Regulation (EC) No 2160/2003, within 24 hours after collection. At the laboratory samples shall be kept refrigerated until examination, which shall be carried out within 48 hours following receipt.

The pair of boot/sock swabs shall be carefully unpacked to avoid dislodging adherent faecal material, pooled and placed in 225 ml buffered peptone water (BPW) which has been pre-warmed to room temperature.

The sample shall be swirled to fully saturate it and culture shall be continued by using the detection method in point 3.2.

If ISO standards on the preparation of facces for the detection of salmonella are agreed on, they shall be applied and replace the provisions on he preparation of samples set out in this point.

3.2. Detection method

The detection method recommended by the Community reference laboratory (CRL) for salmonella in Bilthoven, the Netherlands, shall be

That method is described in the current version of draft Annex D of ISO 6579 (2002): "Detection of Salmonella spp. in animal facces and in samples of the primary production stage". In that detection method, a semi-solid medium (modified semi-solid Rappaport-Vassiladis medium, MSRV) is used as the single selective enrichment medium.

3.3. Serotyping

At least one isolate from each positive sample shall be serotyped, following the Kaufmann-White scheme.

3.4. Alternative methods

With regard to samples taken on the initiative of the food business operator, the methods of analysis provided for in Article 11 of Regulation (EC) No 882/2004 of the European Parliament and of the Council (1), may be used instead of the methods for the preparation of samples, detection methods and serotyping provided for in points 3.1, 3.2 and 3.3 of this Annex, if validated in accordance with EN/ISO 16140/2003.

3.5. Storage of strains

microbial susceptibility testing, using the normal methods for culture collection, which must ensure integrity of the strains for a minimum of At least one isolated strain per house and per year shall be collected by the competent authority and stored for future phagetyping or antitwo years.

Results and reporting

4.1. Calculation of prevalence for the verification of the Community target

A flock of broilers shall be considered positive for the purpose of verifying the achievement of the Community target, where the presence of Salmonella Enteritidis and/or Salmonella Typhimurium (other than vaccine strains) was detected in the flock at any occasion. Positive flocks of broilers shall be counted only once per round, irrespective of the number of sampling and testing operations and only be reported in the year of the first positive sampling.

4.2. Reporting

Reporting shall include:

- (a) the total number of flocks of broilers sampled by the competent authority or by the food business operator;
 - (b) the total number of infected flocks of broilers;
- (c) all serotypes of Salmonella isolated (including other than Salmonella Enteritidis and Salmonella Typhimurium);
 - (d) explanations of the results, in particular concerning exceptional cases.

.

The results and any additional relevant information shall be reported as part of the report on trends and sources provided for in Article 9(1) of Directive 2003/99/EC of the European Parliament and of the Council.

4.3. Additional information

At least the following information shall be made available from each flock of broilers tested for analysis at national level or by the European Food Safety Authority at its request:

- (a) sample taken by the competent authority or by the food business operator;
- (b) holding reference, remaining unique in time;
- (c) house reference, remaining unique in time;
 - (d) month of sampling.

7.3. Targets on vaccination or treatment

Vaccination is not compulsory in broiler flocks of Gallus gallus. The rules of using vaccination and treatment are laid down in Commission Regulation (EC) No 1177/2006 of I August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry.

Page 31/32

<u>programme</u>
st of the
of the co
analysis
Detailed
œ

Costs related to	Specification	Number of units	Unitary cost in €	Total amount in €	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Test: modified ISO 8579 (2002) using MSRV planned to be carried out in the framework of official sampling	15650	to.	156500	Sø¢
	official samles of verifying the efficiency of desinfection	100	10	1000	, yes
	Test: serotyping (4440) planned to be carried out in the framework of official sampling	1000	97	40000	yes
1.2. Cost of sampling	costs of sempling of approx. 4500 flocks, 3 times during 2010	13500	80	675000	yes
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine/treatment					
2.2. Distribution costs					
2.4. Control costs 3. Slaughter and destruction					
3.1. Compensation of animals	Cost of the compensation of the positive animals approx. 120,000,000 X 0.0046 = \$40000 animals	540000	1.6	864000	yes
3.2. Transport costs	Staughtering of infected flocks can only be authorised when meat from these flocks is treated according to specific food safety legislation. Therefore, staughter is not likely to be performed at regular contracted slaughterhouses, which makes transport costs much higher than usual, approx. 540000 animals, 1,8 kg/animal	972000	0.04	38880	100
3.3. Destruction costs 3.4. Loss in case of slaughtering	Cost of the destruction approx. 120,000.000 X 0.0045 = 540000, 1.8 kg/animal. This loss is estimated to be of a large extent.	972000	0.2	194400	yes

	000009	011	ОИ	an ON	2569780 1930900 ves
	200				256
	1200				!
However, losses due to the early slaughter of the Hock is very hard to estimate.	When taking into account the number of Bocks (4500) and the infection rate (33%), an approximate number of 1200 Bocks to be cleansed and disinfected can be estimated. Cleansing and desinfection of an average Bock depends on several factors, however an approximate amount of costs is given.				TOTAL Community funding requested
2 Staurbter and destruction	ļ	5. Salaries (staff contracted for the programme only)	6. Consumables and specific equipment	7. Other costs	



Central Agricultural Office Animal Health and Animal Welfare Directorate

HUNGARY

Application

for Community financing for the national control programme of Hungary for

Salmonella spp.
in breeding flocks of Gallus gallus

for the year 2011.

30th of April, 2010

Part A

General requirements for the national salmonella control programmes

- (a) The main objective of the programme is to comply with existing Community legislation, to achieve Union prevalence target within the defined time period available as regards breeding flocks of Gallus gallus in the territory of Hungary. The target is to reduce the prevalence to 1 % or less of Salmonella Enteritidis, Salmonella Infantis, Salmonella Hadar, Salmonella Typhimurium and Salmonella Virchow (the relevant salmonella serotypes).
- (b) Protection against salmonellosis is mandatory pursuant to the relevant EU provision as of 1 January 2007. A Decree was created and came into force on the 7th of January, 2008, (Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis) This Decree was repealed and a new Decree came in force on the 6th on January 2010 (Decree 180/2009. (XII. 29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis (hereinafter: "Decree"). The aim of creating the first Decree was to ensure compliance with the changes in the Community legislation. The Decree sets the conditions of the obligatory control measures in breeding, laying flocks and voluntary (mandatory from 2009) measures in broiler flocks of Gallus gallus against specified Salmonella serotypes. The Decree complies with the minimum sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council indicating the relevant animal population and phases of production which sampling cover

rearing flocks day-old chicks

- four-week-old birds
- -- two weeks before moving to laying phase or laying unit

adult breeding flocks — every second week during the laying period

The new Decree was issued, because sampling of turkey flock became mandatory. Also, the structure of the Decree is new and experiences regarding the implementations of the Programmes were built in.

More information about testing scheme; please see Part B Chapter 7.2

- (e) The Decree compiles with the specific requirements laid down in Parts C, D and E of Annex II to Regulation (EC) No 2160/2003
- (d) 1 General
- 1.1. The short summary referring to the occurrence of the salmonellosis [zoonotic salmonella] in Hungary with specific reference to the results obtained in the framework of monitoring in accordance with Article 4 of Directive 2003/99/EC of the European Parliament and of the Council², particularly highlighting the prevalence values of the salmonella scrovars targeted in the salmonella control programmes: Please see Part B Chapter 6.
- 1.2. The structure and organization of the relevant competent authorities: Please see Annex I.

OJ 1, 325, 12,12,2003, p. 1.

OJ 1, 325, 12,12,2003, p. 31.

- 1.3. Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate (formerly named: National Food Investigation Institute), Central Agricultural Office). The NRL is in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for co-operation with the Community Reference Laboratory in Bilthoven (NL).
- 1.4. Methods used in the examination of the samples in the framework of the programme: Please see Part B Chapter 7.3
- 1.5. Official controls (including sampling schemes) at feed, flock and/or herd level; Please see Part B Chapter 7.2.1.2.
- 1.6. Measures taken by the competent authorities with regard to animals or products in which the presence of *Salmonella spp.* have been detected, in particular to protect public health: Please see Part B Chapter 4.4.3, and Chapter 4.4.4.
- 1.7. National legislation relevant to the implementation of the programme, including national provisions concerning the activities set out in the programme: Please see Part B Chapter 4.4.7
- 1.8. Financial assistance provided to food and feed businesses in the context of the programme:
 Costs and benefits are calculated based on the previous year's data of the Poultry Product
 Board of Hungary. In the case of breeding flocks costs will occur from the intensive
 sampling of the flocks as well as the tests performed on the samples (including both testing
 on the initiative of the operator and the veterinary authority), the measures to be applied in
 the case of infection (slaughter or killing of the flock, condemnation, transportation,
 cleansing and desinfection) as well as financial losses due to decreased income for the
 poultry industry.

Act No. XLVI, of 2008, on the food chain and its official control and Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the cradication, control and monitoring of certain animal diseases and zoonoses and Decree No. 148/2007. (XII.7.) on the prevention of certain animal diseases and the order of claiming financial support and payment regarding their overcome in 2010 give the financial guarantee of the national programme.

In case of a positive flock, when compensation occurs, valuation of the birds is performed by the district chief veterinary officer according to a scale provided by the Poultry Product Board. It is based on a calculating system, where the day-old chicks' price is considered as 100%, and the value of a bird depends on its production cycle and age (given in percentage)

Valuation/valorisation of birds is calculated based on the previous year's data of the Poultry Product Board of Hungary. Table containing these data is sent to the central veterinary office.

Concerning food and feed businesses covered by the programme

2.1. The structure of the production

Breeding flocks of Gallus gallus in Hungary can be structured to elite, grandparent- and parent flocks, their production type (meat or egg production line), size, and the type of holdings.

The structure of the production of feed.

Feeding of poultry, including breeding flocks of Gallus gallus is based on cereal products, mainly on com, barley and wheat. Soybean and fishmeal is used as a source of protein.

Commercial feed producers are operating according to GMP standards. Breeding flocks mainly use commercial pelleted feed, the technology of production of which includes heat treatment.

In Hungary, control of feedingstuffs is performed according to three main pieces of legislation:

Act No. XLVI, of 2008 on the food chain and its official control, Governmental Decree 274/2006 (XII, 23) on the establishment and operation of the Central Agricultural Office and Decree of the Ministry of Agriculture and Rural Development No. 43/2003, (IV, 26.) on the implementation of the above Act.

In the Act general principles of the control of feed are laid down general principles of the control of feed, sets the competent authorities and allocates the tasks to these services.

feed production plant may be authorized by the competent regional organ (County Directorate of Food Chain Safety and Animal Health) of the Central Agricultural Office. The authorization must be renewed at periods of a maximum of 5 years. Other authorities are also involved in the authorization process.

The registration of the feed production units is done by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

The Act states that the feedingstuffs produced may neither pose a direct health risk to live flock, nor an indirect risk to public health.

Therefore, the competent Directorate of Food Chain Safety and Animal Health of County Agricultural Office perform regular controls of the feed production plants, including the production, keeping, marketing, transport and use of feed produced. Controls also include compliance with feed hygiene rules, safety, composition, microbiological safety of feedingstuffs, as well as many other parameters such as the presence of prohibited substances, packaging, labelling etc.

In case of non-compliance with any of the parameters listed in the Act and the Decree, the competent County Directorate may prohibit the production, keeping, marketing, transport, export, import or transport of the relevant feed. If such feed was already used, the Directorate of Food Chain Safety and Animal Health of County Agricultural Office has a duty to notify the county level public health authority.

The Decree gives detailed instruction to authorities and stakeholders on how to implement the Act. Annex 20 to the Decree sets out the maximum tolerable amount of Salmonella spp. in food and the related ISO standards. According to ISO 6579:2002, feedingstuffs must show zero Salmonella spp. / 25 grams.

In addition, the same Annex states that feedingstuffs must be free of any pathogens which may pose a direct risk to animal health and/or an indirect risk to public health.

2.3. Relevant guidelines

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from

farms. The guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. For the new decree the guideline is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

2.4. Routine veterinary supervision of farms:

Controls are planned annually by the Food Chain Safety Deputy President of Central Agricultural Office. Number of controls depends on risk assessment.

An official veterinarian can also perform on-spot checks when taking samples, but it is not necessarily connected. Inspections are performed based on a national program.

2.5. Registration of farms:

All poultry farms have to be registered according to Decree no. 119/2007. (X.18) of MARD on keeping places, breeding farms and national registration system of their data if they meet the relevant criteria. For more information please see Part B Chapter 4.4.1.

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- which sends poultry directly to the slaughterhouse.
- which have a slaughtering permit for small producers.

2.6. Record-keeping at farms:

All documents concerning to the programme must be kept for 3—years. The documentation have to contain all data about animals, tests, transports, samples and medication.

2.7. Documents to accompany animals when dispatched.

Commercial poultry consignments are accompanied with animal health certificates according to Directive 90/539/EC. Consignments with national destinations are accompanied with animal health certificates according to Decree 41/1997. (V. 28.) FM appendices 8/a and 8/b.

In accordance with Paragraph 85, of Decree No 41/1997, of the Minister of Agriculture on the publication of the Animal Health Code, the official veterinarian carries out a flock examination within 12 hours before transportation, and on the basis of the financing/allowance plan, fills out the animal health certification in the appendices 8/a, and 8/b, certifies the place of origin of the day-old animals, their circumstances free from

epidemic, the name of the vaccine used, the time and method of the immunization. Because of the changes occurred since the publication of the legislation, this ordinance cannot be fulfilled in these days.

"Animals can only be transported when accompanied by a valid certification attested by the veterinarian responsible for treatment" in accordance with point 4.2.1. point (Starting of poultry consignments) of the guide which was prepared for poultry hatcheries that are obliged to TIR registration, in accordance with point d) of Paragraph 6, of Decree No 120/2007, (X.18.) of the Minister of Agriculture and Rural Development on establishing and operating of the Poultry Information System (hereinafter: BIR regulation). In pursuance with point 4.2.1., "The hatchery starting the consignment has to fill in the Poultry movement form 2740, on the upper part of which the data of starting has to be given".

The poultry animal health certificate laid down in the BIR regulation is not to replace the certificate 8/b., as the authority responsible for animal health takes part in issuing the latter only.

At the same time, even the certification 8/a, can not be replaced by the introduction of the BIR regulation, as certain data that have to be certified by the veterinatian in the certificate 8/a are not placed on the latter, for example immunizations carried out in the flock, diagnostic examinations and the results thereof.

In pursuance of the abovementioned regulations, all three certifications are required for the transport of the day-old poultry. The BIR certification is drawn up by the veterinarian responsible for treatment, while certifications 8/a. and 8/b. are filled in by the approved veterinarian, in accordance with the Governmental Decree No 113/2006. (V.12.) on the competence and detailed rules of the activity of the approved veterinarian, with the exception of the case when the approved veterinarian is not the treating veterinarian, because in those cases the certification 8/a. has to be filled in by the veterinarian of the hatchery.

As it can be seen from above, the current legislation of movement documentations doesn't seem to be unambiguous as regards several points.

For solving the problem, a working group was established. The working group is predestined for revising the form and content of certificates for inland live animal transportation and as far as possible, for the harmonisation thereof.

Other relevant measures to ensure the traceability of animals.

Please see Part A 2.7, and Part B Chapter 4.2, and Chapter 4.4.1.

At central level three persons are responsible for the TRACES, of which one is responsible for the technical part (for example; giving access to the system). The two other colleagues (one at MRD and one at CAO) are the trade contact points of Hungary and are keeping the contact wit the counterparts of the member states.

Part B

1. Identification of the programme

Member State:

Hungary

Disease:

Infection of animals with zoonotic Salmonella spp.

Animal population covered by the programme: Breeding flocks of Gallus gallus

Year of implementation:

2011

Reference of this document:

02.3/897/5/2010.

Contact (name, phone, fax, e-mail): Dr. Imre Nemes

Director

Animal Health and Animal Welfare Directorate

Central Agricultural Office Tel: +36-1-460-6300 ext. 112

Fax: +36-1-222-6064 e-mail: nemesi@oai.hu

Date sent to the Commission:

30th of April, 2010

2. Historical data on the epidemiological evolution of zoonotic salmonellosis specified jn point 1

Monitoring and control programmes for Salmonella spp. (S. Enteritidis and S. Typhimurium) started in Hungary in 1997 by issuing official guidelines for the poultry sector. The goal of the project was to achieve similar targets as which were set by Council Directive 92/117/EEC. The collection of guidelines were ordered by the Ministry of Agriculture and were prepared by an expert group consisting of both Hungarian experts of various backgrounds (Hungarian Academy of Science, National Food Investigation Institute, Central Veterinary Institute and numerous practicing veterinarians) and experts of the Agri-Livestock Consultant Ltd (W. Edel and C. Wray). The work was financed by the PHARE programme of the European Union under project No. HU 9304-05-02. The programme covered the whole poultry sector in relation of Gallus gallus, breeding flocks, hatcheries, broiler flocks, table egg producing layer flocks, egg packaging and distribution establishments, poultry slaughterhouses, cutting plants as well as feed mills. The guidelines stated clearly that there is an urgent need for centralised official administrative measures in the form of a ministerial decree by the Minister of Agriculture.

The first decree was created in the year 2002: Decree 49/2002. (V. 24.) of the Minister of Agriculture and Rural Development on protection against salmonellosis and poultry typhus and on retaining officially free status, and was modified by the Decree 97/2003. (VIII. 19) Minister of Agriculture and Rural Development. A new Decree was created and came into force on the 7th of January, 2008, and can be referred to as Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis The

aim of creating the new Decree was to ensure compliance with the changes in the Community legislation.

Decree 2/2008 of MARD set the conditions of the obligatory control measures in breeding, laying flocks and voluntary (mandatory from 2009) measures in broiler flocks of Gallus gallus against specified Salmonella serotypes. As a prerequisite, there is an obligation of the holdings keeping breeding flocks of Gallus gallus to be registered by the State Veterinary Service. Results of testing required by the Decree are also to be notified to the Directorate of Food Chain Safety and Animal Health of County Agricultural Office (formerly named: County Animal Health and Food Control Service). Decree 2/2008 of MARD had been amended 5 times till it was repealed and replaced by Decree 180/2009 of MARD (hereinafter referred as 'Decree') as of 6th of January, 2010. The new Decree covers the same area, but the structure of it was modified and enhanced based on experience.

As a result of the above mentioned mandatory control in breeding flocks of Gallus gallus, latest data show that infection amongst these flocks is below 6%. However, the Community target which is set by Commission Regulation (EC) of 30 June 2005 implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain Salmonella serotypes in breeding flocks of Gallus gallus and amending Regulation (EC) No 2160/2003 is a maximum of 1%. This goal can only be achieved by a rigorous control programme using extensive professional and financial resources.

3. Description of the submitted programme

The main objective of the programme is to comply with existing Community legislation, to achieve Community prevalence targets within the defined time period available as regards breeding flocks of Gallus gallus in the territory of Hungary. The programme covers the five zoonotic Salmonella serotypes most relevant in relation to public health (S. Enteritidis, S. Typhimurium, S. Infantis, S. Virchow and S. Hadar).

Included in the programme are all breeding flocks of Gallus gallus registered in the territory of Hungary.

Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate (formerly named: National Food Investigation Institute), Central Agricultural Office). The NRL will be in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for cooperation with the Community Reference Laboratory in Bilthoven (NL).

4. Measures of the submitted programme

4.1. Summary of measures under the programme

Duration of the programme:

First year: 2010 Last year: 2012

- ☑ Testing
- ☑ Slaughter of positive animals
- ⊠ Killing of positive animals
- [X] Vaccination
- :: Treatment
- Disposal of products

- 1. Testing
- Slaughter of positive animals
- *Killing of positive animals
- ... Extended slaughter or killing
- Disposal of products

☑ Monitoring or surveillance

Other measures (specify):

- Flocks positive for S. Typhimurium or S. Enteritidis will be subject to movement control. As soon as the NRL confirms the infection, the flock shall be sent to isolated slaughter. Meat originating from such flocks may only be authorised for human consumption after meeting all relevant food safety requirements as regards of the Regulation (EC) No. 2160/2003. Annex II. Point E.
- Hatching eggs originating from such flocks may only be marketed according to the Regulation (EC) No. 2160/2003. Annex II. Point C.5.
- After emptying the relevant holding operators are required to implement proper cleansing and desinfection. Effectiveness of the procedure is controlled by the competent regional animal health authority. Restocking is only authorised, when cleansing and desinfection is deemed to be satisfactory.

4.2. Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme:

All holdings must be registered at the district veterinary office. The official senior veterinary officer keeps and updates the record of holdings participating the programme. The official senior veterinary officer also declares the status of the holdings according to their actual serological status.

The 19 Directorates of Food Chain Safety and Animal Health of County Agricultural Offices coordinate and supervise the programme in their territory. They are required to annually report the actual status of the programme to the Animal Health and Animal Welfare Directorate of the Central Agricultural Office.

Name: Central Agricultural Office

Animal Health and Animal Welfare Directorate

Name in Hungarian: Mczőgazdasági Szakigazgatási Hivatal Központ

Állategészségügyi és Állatvédelmi Igazgatóság

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

Tel.: +36-1-460-6300 Fax: +36-1-222-6065

4.3. Description and delimitation of the geographical and administrative areas in which the programme is to be implemented:

The programme will be implemented on the whole territory of Hungary. The programme is compulsory as from the 1st January, 2007.

4.4. Measures implemented under the programme

4.4.1. Measures and terms of legislation as regards the registration of holdings:

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- · the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- · which sends poultry directly to the slaughterhouse
- · which have a slaughtering permit for small producers.

According to Paragraph 5, of the Decree the operator is obliged to register for the national control programmes, pursuant to Article 8 (3). Article 8 (3) states that:

A business operator obliged to or voluntarily undergoing control pursuant to paragraph (1) shall apply for participation in the national control programme by submitting an epidemiological action plan approved by the private veterinarian responsible for the supervision of the poultry flock or hatchery at the competent district office by virtue of the location of the holding site, which shall register the business operator in accordance with Article 3(4) (a).

4.4.2. Measures and terms of legislation as regards the identification of animals: ...

4.4.3. Measures and terms of legislation as regards the notification of the disease:

According to point 7 of paragraph 9 of the Decree:

The laboratory shall immediately notify the district office and the veterinarian taking the sample of the test results and - in the event of positive results - the business operator and the regional organ of the CAO as well. In the event of positive results the laboratory shall send the isolated strain for confirmatory testing and serotyping together with one original copy of the sampling form to the NRL. The testing laboratory must retain the copy of the sampling form for three years.

4.4.4. Measures and terms of legislation as regards the measures in case of a positive result:

Whenever a positive flock is found by own-check sampling in the frame of the programmes in breeding flocks and laying hens, than this flock should be considered as a suspect flock and movement restrictions are imposed on this flock.

In the frame of the Salmonella control programme in breeding flocks of Gallus gallus the provisions of paragraph 1 and 2 (frequency of sampling) 4 (results and reporting) of Annex of Commission Regulation (EC) No 213/2009 particularly provisions on exceptional cases) are implemented.

Procedure in the event of positive test results

Article 11

- (1) If the sample taken from a flock of breeding hens, a flock of laying hens or a flock of breeding turkeys results positive the operator shall revise the epidemiological action plan within 22 working days and shall resubmit it to the District Office for approval. The revised plan shall contain the review of the hygiene conditions, especially the efficiency of the desinfection and pest control procedures, the results of the test to find possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 22 working days and may ask the operator to amend it if they find it unsatisfactory.
- (2) If a sample taken at a flock of broilers and fattening turkeys results positive the business operator shall revise the epidemiological action plan within 11 working days of receiving the result and shall resubmit it to the District Office for approval. The action plan shall contain the review of the hygiene conditions; especially the efficiency of the desinfection procedures and of pest control (insect and rodent extermination), the results of the test to identify possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 11 working days and may ask a business operator to amend it if they find it unsatisfactory.
- (3) If the results of salmonella testing of broiler and fattening turkey flocks results positive, there is a rapid method available on the business operator's request of excluding infection by Salmonella Enteritidis and Salmonella Typhimurium scrotypes at a certified laboratory designated by the CAO using group-specific 'O' antibody. In this case the laboratory which performs the 'O' group typing will send the isolated strain to the NRL for scrotyping.
- (4) If, using the group specific 'O' antibody, infection by Salmonella Enteritidis and Salmonella Typhimurium scrotypes can be excluded, then the given flock of broilers or fattening turkeys may be slaughtered by decision of the District Office. Measures pursuant to paragraph (2) and (5) shall be applied at the same time.
- (5) When, during scrotyping, the NRL detects infection with a scrotype other than Salmonella Enteritidis or Salmonella Typhimurium, the District Office shall immediately withdraw the official certificate of infection-free status of the flock, if the operator has one, in respect of the given scrotype. The operator shall clean the site after the production cycle (building, equipment and machinery, connecting rooms and paths) and in accordance with specific piece of legislation on issuing the Animal Health Code for stringent desinfection, rodent extermination and desinsectisation.
- (6) Operators may restock the airspace concerned only if they verify the efficiency of desinfection when an environmental swab sample tests negative in a laboratory. The business operator shall bear the costs of taking and testing environmental swabs.
- (7) If in the case of a flock of breeding hens the NRL detects infection by a salmonella serotype that is considered a Community target under Regulation (EC) No 1003/2005, Article 12 (9) shall apply in respect of feed and Article 12(8) in respect of restocking of the air space.

Procedure in the event of Salmonella Enteritidis or Salmonella Typhimurium infection

Article 12

(1) If during scrotyping the NRL detects infection with Salmonella Enteritidis or Salmonella Typhimurium the District Office shall order restriction of movement of the flock concerned and the products originating therefrom and shall withdraw the official certificate of infection-free status without delay. The official certificate of infection-free status in respect of other

flock from the holding shall also be withdrawn at the same time unless the infected flock has been appropriately isolated.

- (2) Testing may only be repeated by official sampling ordered by the regional organ of the CAO pursuant to Article 9(10). Sampling for the official test may only be carried out by official or approved veterinarians within the shortest time possible. The NRL shall test the samples and at the same time conduct an examination to detect antimicrobial inhibitory effects. If the result from the repeated sampling is negative or it results in an infection with salmonella serotypes not covered by the national control programmes and no antimicrobial inhibitory effect can be detected, the District Office shall lift the restriction of movement in respect of the flock and the products thereof. If antimicrobial inhibitory effects can be detected the District Office shall investigate the circumstances of the use of antibiotics and maintain the restriction on movement until it is proven that antibiotics were used for purposes other than to treat the infection of salmonella.
- (3) If repeated testing reveals infection by Salmonella Enteritidis or Salmonella Typhimurium or the regional organ of the CAO not orders a repeated test, the flock concerned may be slaughtered after preliminary consultation with the slaughterhouse and the official veterinarian supervising the slaughterhouse and in accordance with the specific veterinary health rules on separate slaughter.
- (4) In the event of infection by Salmonella Enteritidis or Salmonella Typhimurium in a flock of breeding hens and turkeys Annex II/C to Regulation (EC) No 2160/2003 shall apply and Annex II/D to Regulation (EC) No 2160/2003 shall apply to flocks of laying hens.
- (5) Meat from an infected flock may be placed on the domestic market without eliminating salmonella if the production processes following the slaughter of the infected flock are separated from the processing and treatment of other raw materials of animal origin and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from slaughtering and processing infected flock shall carry the text "for consumption only after heat treatment (thorough frying or cooking)" clearly and indelibly marked on every smallest packaging unit close to the identification label, close to the traceability marking; and on the accompanying commercial document.
- (6) If meat from infected flock is processed after salmonella elimination (beat treatment, heat treatment as part of product manufacturing) the processes following slaughter of the infected flock shall be separated from the processing of other raw materials of animal origin until salmonella has been efficiently climinated, this has been certified and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from infected flock shall carry the text "Originates from salmonella-infected flock" on every smallest packaging unit close to the identification label and the premises traceability marking and may only be used to produce food when the technological manufacturing processes guarantee that the product will be salmonella-free. Every such food item shall be verified by microbiology testing carried out in a laboratory before the are cleared for retail trade and the official veterinarian supervising the slaughterhouse shall be informed thereof. The production plant may place heat treated products certified as salmonella-free on the market on the basis of the results of own checks.
- (7) After the keeping place of the infected flock has been emptied the operator shall provide for cleaning the building, equipment and machinery, connecting rooms and paths and in accordance with specific piece of legislation on the issuing of Animal Health Code for reinforced desinfection, rodent extermination and disinsectisation. The remaining litter shall be disposed of in accordance with special legislation on the treatment of waste of animal origin. After these tasks have been accomplished the business operator shall inform the District Office, which will verify the efficiency of the measures implemented.

- (8) The District Office shall authorise the restocking of the airspace concerned only if the effectiveness of desinfection was verified by environmental swab samples test negative in the laboratory.
- (9) The feed fed to infected flock shall be tested without delay in accordance with the special legislation on the manufacturing, placing on the market and use of feed, except when day-old birds test positive. Until testing yields negative results such feed may only be fed to infected flock. If feed tests positive it has to be disposed of in accordance with the special legislation on the manufacturing, placing on the market and use of feed, and the equipment used for its storage and transportation shall be disinfected. If infection has been detected, specific testing shall be carried out to detect salmonella at the feed operator from which the feed originates.
- (10) Hatcheries to which infected hatching eggs have been transported shall act in accordance with Annex II/C(3) and (5) of Regulation (EC) No 2160/2003 and shall apply the provisions of paragraph (7) and (8). If a hatchery has a certificate of infection-free status the district office shall immediately withdraw this. The hatchery must cooperate in tracing the origins of infection on the basis of its records and shall bear the costs.
- 4.4.5. Measures and terms of legislation as regards the different qualifications of animals and herds:

Sec point 4.4.4.!

4.4.6. Control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned:

See point 4.4.4.1

- 4.4.7. Measures and terms of legislation as regards the control (testing, vaccination, etc.) of the disease:
 - Regulation (EC) No. 2160/2003, of the European Parliament and of the Council on the control of Salmonella and other food-borne zoonotic agents
 - Commission Regulation (EU) No 200/2010 of 10 March 2010 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards a Union target for the reduction of the prevalence of Salmonella serotypes in adult breeding flocks of Gallus gallus
 - Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of Salmonella in poultry
 - Commission Regulation (EC) No 213/2009 of 18 March 2009 amending Regulation (EC) No 2160/2003 of the European Parliament and of the Council and Regulation (EC) No 1003/2005 as regards the control and testing of Salmonella in breeding flocks of Gallus gallus and turkeys
 - Act No. XLVI, of 2008, on the food chain and its official control
 - Decree No. 180/2009. (XII. 29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis
 - Decree No. 41/1997. (V. 28.) of the Minister of Agriculture on Code of Veterinary Rules

The vaccination protocol has to be enclosed in the epidemiological control plan (which the operator submits as an application for participation in the national control programme.)

Furthermore, according to Article 14 (3) of the Decree:

"Documentation and treatment log has to be kept on the use of vaccines, which is checked by the district office based on risk-based assessment. Checking shall cover the proper use of vaccines and that the application was performed as in the instructions of use. The operator shall verify that the appropriate amount of vaccines was used by invoices, and the veterinarian verifies the proper application by his stamp. (The assumption of the vaccine compensation claim is the common declaration made and signed by the animal owner and the veterinary practitioner on the vaccine usage.)

- 4.4.8. Measures and terms of legislation as regards the compensation for owners of slaughtered and killed animals:
 - Veterinary Act No. XLVI, of 2008, on the food chain and its official control
 - Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zooposes
- 4.4.9. Information and assessment on bio-security measures management and infrastructure in place in the flocks/holdings involved:

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (J. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. For the new decree the guideline is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

5. General description of the costs and benefits:

Costs and benefits are calculated based on the previous year's data of the Poultry Product Board of Hungary. In the case of breeding flocks costs will occur from the intensive sampling of the flocks as well as the tests performed on the samples (including both testing on the initiative of the operator and the veterinary authority), the measures to be applied in the case of infection (slaughter or killing of the flock, condemnation, transportation, cleansing and desinfection) as well as financial losses due to decreased income for the poultry industry.

A detailed description of the costs is listed under point 8.

Benefits in case of the successful programme include improved food safety which largely contributes to the achievement of public health goals of the Community.

6. Data on the epidemiological evolution during the last five years

Evolution of zoonotic salmonellosis 6.1.

6.1.1. Data on evolution of zoonotic salmonellosis

Animal species: breeding flocks of Gallus gallus

Year: 2007

Disease/infection(a); Salmonellosis

Situation on date: First year of the programme

egg products (number or kg) (9 cheprelled to Ē Quartity of ¢ ٠ 0 ٦ 0 (g ø c 0 • destroyed (number or kg) (a) Quantity of Z ¢ G o 0 (19 ¢ 0 = ¢ Ð slaughtered or destroyed ^(a) (33) Total number 0 0 0 c **=** ofanimals c ٠ **\$** 3 0 Þ ⇒ 0 Φ 0 0 0 deperpulated^{ia} (34) Number of 0 0 0 0 0 o e. C 433) ٠ ¢ 0 0 0 0 O \$ (SM) (8) 81 (S) (a3) Number of positive^(e) flocks^(e) ٥ 0 0 0 0 (313) c ٥ ٥ 0 0 0 Ф Ē ¢ Þ ٥ 0 c 0 = Number of checked (c) Jincks 223 2 Š ÷ S œ ٠ 0 Total number of programme under the 1423558 378735 190120 arionals 584600 145627 226000 323000 ٥ number of programme under the flocks Total Ξ 257 9 3 8 38 75 0 190120 Total number of animals 145627 1423558 226600 323000 584600 378735 ٠ of flocks⁽²⁾ number Total 113 257 S 8 8 ह \$ ٥ Type of Hockth Breeding flock Breeding flock Breeding Bock Breeding Nock Breeding Rock Breeding Joek Breeding flock Breeding Bock (including Györ-Moson-Region (al) Esztergom Budapest) Komarom-Veszprém Baranya Sopron Pest Rejér Zala **₹**82/

Somogy	Breuding Jock	+	10900	· - 	10900	m	. 0	=	o	¢	٥	-	⇒	٠	 0 !	0	0
kulo],	Breeding flock		909	- -	909	i i	•	⇒	. 5	•	c		•	•		÷	
Borsod-Abaúj- Zemplén	Breeding nock	: <u>±</u>	11500		71500	r-1	e	· ·	•	\$		=		=	0		
Heves	Breeding 1	6	008'61	•	00561	е	 -	٥	-	<u></u>	0	-	- +	÷	<u>-</u>	-	 j ≑
Nograd	Breeding flock	4	8200	¥ .	8200	3	0	<u></u>	. •	•		0	=	•		: =	•
Hajdú-Bihar	Breeding flock	62	292530	62	292530	44	0	۵	¢	- · ·	c	-	•	3 🌣	2	•	Φ
Jász-Nagykun- Szolnok	Breeding Oock	12	38600	12	38600	01	0		Þ		0	6	œ	=	0	٠	¢
Szabolus- Szatmár-Bereg	Breeding flock	51	247100	51	247100	15	-	0	۰		_	9	ф		İ		
Bács-Kiskun	Breeding flock	25	11:0981	25	186041	02	0	 . c	\$	¢	0	! <u></u>	٠	\$. 0		. <u> </u>
Bėkės	fkreeding Bock		16200	₹	00291	+	6	0	۵	¢	. 0	0	٥	0		_ _	
Csongrád	Breeding Nock	6	3-1-600	6	34400	\$		0	0	0	¢	0	c		=	=	
Total		825	4197211	825	4197211	562	90	-	7.4		٥	-	0	9	÷ .		e

(a) For zoonotic salmonellosis indicate the serotypes covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and eradication programme of the Member State.
(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.

(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

(d) Check means to perform a flock level test under the programme for the prosence of salmonella. In this column a flock must not be counted twice even if it has been checked more

(c) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

Situation on date: Second year of the programme

Disease/infection(a); Salmonellogis

Apimal species: breeding flocks of Gallus gallus

Year: 2008, 01.01,-05,30,

Region (a1)	Jo ad VIII.	Jonal	Total number	Total number of flocks	Total number of	Number of flocks	Nam!	Number of positive ⁽⁰⁾	itive ^(c)	Number flocks	Number of flocks	Total number of animals stands or	umber mals	Quantity of eags destroyed	lty of	Quantity of eggs chancellad to	Sy of Salate Haire
	tlock	of Nocks ^{ke)}	of animals	under the programme	under the programme	checked co				depopulated ^{ia}	lated ^{ia)}	destroyed (a)	3 pg	(number on kg) ^(a)	9619T	(mumber or kg) 30	5¢.04
							(11)	(42)	(a3)	(33)	(34)	(4,4)	(83)	(4.4)	(83)	[44]	(23)
								 	18.L.							 	
Pest (including Budapest)	Breeding flock	(*- VT)	166590	57	106590	2	0	0	1 S.M. 1 S.O?		0	0	. 0	S	Ф	٥	Ф
									1 \$.1.				_				
Fejér	Breeding flock	0	Ð	0	D.	0	÷	0	0		-	÷	0	Ģ	0	0	0
Komárom- Esztergom	Breeding flock	283	613363	£8t	613363	184	÷	D	0	0	0	÷	D	<u> </u>	0	5	0
Voszpróm	. Breeding flock	68	316400	68	316400	20	-	5	5 S.L. 4 S.M.	\$	0	÷		÷		¢	Ð
Győr-Moson- Sopron	Breeding Bock	35	123200	35	123200	34	۲۱	c	٥	c	ņ	٥		a	5	: •	¢
Vas	Breeding flock	83	261643	83	261643	53	. 0	0	Ċ	-		. .	•	•	.	\$	¢
Zala	Breeding flock	54	165723	ĸ	165723	24	0	\$	0	Ç.	=	3	ф.	0	÷	 -	
Baranya	Breeding	<u>.</u>	272676	47	272676	33	0	0	\$	a	٠		0	0	¢	<u></u>	φ

Somogy	Breeding flock	1.0	00\$6	~	9500	L.	٥	•	I S.M.	0	0	Þ	Þ	=	0	0	0
Tolna	Breeding flock		460	 -	460	-	<u>a</u>	•	ק	•	5		0	÷	. 0	٥	!
Borsod-Abaúj- Zemplén	Breeding]4	69780	<u> </u>	69780	. 71	٥	9	÷ · · · · · · · · · · · · · · · · · · ·	٥	0	÷ • • • • • • • • • • • • • • • • • • •	⇒	- :		0	0
Heves	Breeding flock	6	20900	څ	20900	3	_	: • 	÷	e	0		⇒	- •	٥	 °	c
Nógrád	Breeding flock	61	550	7	930	61	0	•	•	\$	0	. 0	=	⇒	. 0	\$. 0
Hajdú-Bíhar	Breeding flock	7.1	240869	7.1	240869	ß	_		٥		0	006	=	٥	0	ء	0
Jász-Nagykun- Szolnok	Breeding flock	6	14360	6	14360	13	O	۵	1.S.I.	φ	0		=	G	0	=	0
Szabolcs- Szatmár-Bereg	Breeding Bock	99)65334	99	165334	93	0	2	18.1	a	Đ		Þ	=	0	ء ا	Đ
Bács-Kiskun	Breeding Nock	21	130667	23	130667	-	<u> </u>		1 S.07. 1 S.1.	0	0		0	2	Ð	⇒	. p
Bċkċs	Brooding Nock	13	1:696	. 51	1496	13	÷	a	a	0	0	c	0	٥	•	· .	•
Csongrád	Breeding Flock	≘ .	3105	10	3105	10	0	0	1 S. Thom.	. 0	0	c	0	0	0	۵ .	Φ
Total	- —	832	2524814	832	2524814	514	9	3	07	-	0	900	Ð	0	0	0	0

(a) For zoonotic salmonellosis indicate the serotypes covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimurium, (a3) for other scrotypesspecify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and cradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, broider turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.

(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more

(e) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

Situation on date: Second year of the programme

Year: 2008, 05.30,-12.31.	-12.31.			Situa	Situation on date: Second year of the programme	E. Second	vear of 1	lle prog	ramme								
Animal species: breeding flocks of Gallus gallus	eding flock	ts of Galla	ıs gallus	Dises	Disease/infection ^(u) : Salmonellosis	o ^(u) . Salmor	nellosis										
Region (a1)	Type of flock ^{tb}	Total number of flocks ^(c)	Total number of aminnals	Total number of Pocks under the programme	Total number of animals under the programme	Number of 1100ks checked	X	Number of positive ^{ue)} Backş ^{təl}	lűve ^{tes}	Number of flocks depublished ^{tel}	Number of flocks epopulated ^{rel}	Total number of animals shaughtered or destroyed (2)	umber mals red or	Quantity of cges destroyed (number or kg) (0)	Jo Ai	Quartity of e298 charolled to egg products (number or kg) in	y of s s led to ducts er er
						-	(1e)	(42)	(33)	(43)	(44)	(34)	(43)	(94)	(43)	(34)	(43)
Pest (including Budapest)	Breeding Bock	53	06590t	25	106590	57	÷		S.Senft, S.Yen.	٥	Ð	¢	÷	٠	D	⇒	c
Fejer	Hreeding Hock	•	c	0	0	. 0	۵	. 0	0	•	6	<u> </u>	=	3	0	•	5
Komarom- Esztergom	Breeding Nock	283	613363	283	613363	283	۔ د	e	÷		0	: 0	o.		. •	-	٥
Veszprém	Breeding Nock	68	316400	68	316400	5%	0	0	18.1. 18.M. 5.8.1. 18.0.	٥	ę	=	5	. 0	φ	· 	0
Györ-Moson- Sopron	Breeding flock	35	123200	35	123200	35		0	1.8,1,		٥	Ċ	0	0		0	. 0
:	Breeding flock	83	261643	83	261643	£2	÷	0	I S.C.I.	0	•	. •	0	- · -	0	 	0
Zala	Breeding flock	24	165723	; † ₹	165723	24	0	5	0	٥	¢	. •	÷	æ	 . o	: :	
Baranya	Breeding flock	47	272676	47	272676	47	۲-۱	0	Û	ψ	. 41	\$749	٥	6381		4662	 =

	Breeding Jock	3	9500		9500	~ .	¢	0	0	o	-	0	0	0	3	0	\$
–	Breeding flock	_	460	_	199	_	 		=	-	٠	. 0	0	0	•	 	9
· - -	Breeding fluck	14	69780	. .	69780	. ₫	0			0	i P			c	•		
	Breeding Nock	6	20900	6	20900	•	0	0	~	le:	\$	0	12000	6	: . e- 	٥	, ə
	Breeding Bock	CI.	550	. 7	. 550	. 2	٥	o	6	0	Ð	. 0	0	· ·	\$	 °	c
· - -	Breeding fleek	1,2	240869	ال	2:10869	E	_	0	5		5	0	0	э	¢	0	0
	Breeding Dock	6	14360	6	14360	20	•	0	. =	0		0	۵.	э	•		¢
	Breeding Bock	60	165334	09	165334	(3)	: ÷	0	=	0	٠	0		0	2		0
. –	Breeding Nock	21	130667	72	130667	21		0	S.I.	0		0	6	. ə !	٩	 -	¢
	Breeding Nock	13	9694	- 13	F696	13	÷	9	0	· · · · · ·	e			ə	— °	c	٥
	Breeding Nock	10	3105	01	3105	01	¢	÷	2.		۰			3	 		
		832	2524814	832	2524814	832	F	6	7.	~	~	5749	12000	6381	-	4662	0

(a) For zoonotic salmonellosis indicate the serotypes covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and cradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or nerds or as (d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more (c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme. appropriate.

(e) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

ргодганте	
the	
vear of	
Third	
on date:	
ituation o	
œ	١

Vera: 2009.01.01.-12.31.

Animal species: Gallus gallus, breeders Disease/infection⁽ⁿ⁾; Salmonellosis

(Kėgió (a.)	Type of flock ^(b)	Total number of flocks ^(c)	Total number of animals	Youal number of Hocks under the programme	Total number of animals under the programme	Number of flocks uncched ⁽⁴⁾	Number	Number of positive ^{et} Hocks ^{tol}	1 Bocks ^(c)	Number of hocks depupulated(4)	Number of Pocks epopulated ⁽²⁾	Total cumber of animals shanghtered or destroyed (4)	Total number of animals slaughtered or destroyed (4)	Quantity of uggs destroyed (number or kg) (a)	Quantity of uggs destroyed (number or kg) (s)	Quantity of eggs chamicalled to egg products (mimber or kg) (4)	ily of Sis Iled to Aduets ect or (4)
							((1))	(32)	(413)	(6.3)	(84)	(44)	(83)	(34)	(a. ¹)	(44)	(43)
Bács-Kiskun	Breeding flock	<u>\$</u>	238515	\$	238515	49	٥	0 :	2(S.L.)	0	=	e	\$	n	0	0	e
Витапуз	Breeding (lock	22	464250	22	16-1250	. 27	<u>.</u>	Ü	2/8.1.)	0	Ç	 Э	¢.	0	. 0	. .	. 0
Borsod-Abaij- Zemplén	Breeding flock	30	119100	30	001611		e	Đ		Ş.	÷			0	Ü	÷	0
Békës	Breeding flock	= ;	18200	=	18200	=	<u> </u>	•	0	•		0	0	5		æ	0
Csongrid	Breeding flock	9 .	3536		3536	. 9	٥	ф.,	0	0	9	0	0	c	0	· c	0
Fejér	Breeding	0	0	9	<u>.</u>		6	0	0	Q	0	0	0	5	3		0 ;
Gyár-Mason-Sopron	- Breeding Book	42	368571	7	268571	2	Ģ.	0	0	0	c	C	Û		¢		
. Hajdù-Bihar	Breeding Anck	130	648937	130	589037	130	ū	c	(1.8.1)		0	0	\$00	æ	0	0	ŧ
Haves	Breeding Rock		6403	***	6003		÷	0	1(S.K.)	0	0	9	Đ.	÷	. <u>-</u>		c i
Jász-Nagykun- Szolnok	Breeding flock	<u>ss</u>	65000	∞ ,	00059	<u>«</u>	.	5	<u>-</u> :	• • • • • • • • • • • • • • • • • • •	0	a	۔ ع ا		c	0	٩
Komárum- Esztergom	Breeding flock	236	883517	236		236	<u> </u>	Ð	13(1 8.1,12 S.other)	0	e j	<u> </u>	0	0	; °i	⇒ l	0

Nógrád	Breeding flock	r3	2460	2	2460	2	÷		··	o	0	٥	Ð	¢	φ	0	0
Főváros-Pest	Breeding flock	32	1317151	32	181268	32	Đ	0	3(28.f., 18.	0	:	5	·——	 =	L [©]		
Somagy	: Breeding flock	φ	21778	9	21778	9	0	0	Đ	0	0	.	Ð	۵	! 	٥	0
Szabolcs-Szatotár- Bereg	Breeding Hock	. 94	603076	1 5	603076	÷6	÷	0 :	I(S.I.)	. 0	e	.	⇒	=	<u> </u>	! : •	ا ا
Tolna	Breeding flock	t.l	096	2	096	2	÷	0 :	_	٥	G G		\$		 		=
Vas	Breeding flock	20	435100	84	435100	†8	. a .	Q.	2(S.Sen ft)	0	c	Þ	٥	÷	0	0	
Veszprém	Breeding flock	1	4891.59	[43	758507	<u>=</u>	. **	0	6(3S.L. 3 S.other)	3	77	1508	2190 0	•	! e	•	
Zala	Breeding	25	332270	25	332270	23	0	6	Û	0	0	0	0	æ	 ^ j	0	<u> </u>
Summ.		166	4997583	166	1886019	166	-		30	4	-	1508	22:10	 •	٥	! 	, =

(a) For zoonotic salmonellosis indicate the serotypes covered by the control programmes: (a1) for salmonella enterititis, (a2) for salmonella typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and eradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.

(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more

(a) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

Stratified data on surveillance and laboratory tests -6.2.

Straitfied data on surveillance and laboratory tests (one table per year and per disease/species) 6.2.1.

Year: 2009.01.01,-13.31,

Animal species (a): Gattus gallus

Category (b): brreding

Description of the used serological tests: following the Kaufmann-White scheme

Description of the used microbiological or virological tests; ISO 6579/2002

Description of the other used tests;

	Serole	oeical tests	Microbiological or virological tests	r virological tests	Olberteen	To are
Ragion ⁶³	Number of samples tested ⁽³⁾	lumbe	Number of samples tested ^(d)	les Number of positive	Number of samp	Number of positive samples (e)
Total	88	88	2967	***		
		!				
		<u>.</u>				
] 		
Total						

Animal species if necessary.

Category/further specifications such as breeders, laying liens, broilers , breeding turkeys, breeding pigs, slaughter pigs, etc., when appropriate. Region as defined in the approved control and eradication programme of the Member State,

Number of samples tested. <u>ଞ୍ଚିତ୍ରି</u>

Number of positive samples.

6.3. Data on infection (one table per year and per species)

	ated			:) - 	<u>.</u> .	: :					
	Number of animals infected				Í						221009			
	. _ព ្រ					i :								
	Number of herds infected ¹³												rannne of the Member State.	
Animal species (3)			. =										d cradication prog	opriate.
Anima	Region ^{tու}	1:77									Total	Animal species if necessary.	Region as defined in the control and cradication programme of the Member State.	Herds or flocks or holdings as appropriate.
Year:										1		(9)	€	છ

Data on vaccination programmes -6.4

7. Targets

7.1. Targets related to testing

7.1.1. Targets on diagnostic tests

Number and specification of tests

approximate number of tests to be performed in the flocks. The number of tests calculated is based on breeding flocks containing more than 250 hens Mandatory testing will be performed in all breeding flocks of Gallus gallus during their whole life span. A preliminary calculation was made on the (what is 991at the moment) and the testing scheme as provided for in the Annex to Commission Regulation No. 200/2010/EC of 9 March 2010 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards a Union target for the reduction of the prevalence of Salmonella serotypes in adult breeding flocks of Gallus gallus The Annex of the above mentioned Regulation requires all relevant breeding flocks to be tested three times during the rearing period and further testing every second week during the whole production period.

Breeding flocks are kept usually until the age of one year (52 weeks). The production period begins when the flock is 26 weeks of age.

In Hungary, breeding flocks are typically kept in barns which makes the taking of boot swabs the most effective way of detecting possible infection.

Using the above numbers and the testing scheme specified in the Regulation, each breeding flock will be sampled and tested approximately 17 times during a year. During each sampling five pairs of boot swabs will be taken and sent into the laboratory. This means that during a one-year period, 85 pairs of boot swabs will be taken in one flock. Given that in Hungary there are 991 breeding flocks (719 production flocks and 272 rearing flocks) (~500000nimals), the total number of samples to be taken in the frame of routine (business) and official sampling is $(272 \times 5 \times 2) + (719*5*15) = 56645$ pairs of boot swabs. In addition, when a flock is tested positive, confirmatory sampling will take place using 5 pairs of boot swabs and additional birds selected from the flock. Based on latest data from 2009, approximately 0,4% of the flocks infected Salmonella Enteritidis or Salmonella Typhimurium, 1.6% of the This means that in 3,41% of the 991 flock (in 34flocks) positive isolates will need to serotype. In the year 2009 there were nearly 60 positive flocks are infected with one or more of the 5 most relevant Salmonella serotypes, and 3,41% of the flocks are infected any serotype of Salmonella. samples which needed to serotype. Confirmatory tests number will be nearly 20% of the infected flocks and will be required with the testing of \$ pairs of boot swabs, faeces material, birds, etc. each. That gives another 10sampling, with nearly 10 isolates to scrotype. Summary nearly 70-80 isolates will be needed to serotype. As a summary, 56645 pairs of boot swabs will take into 28348 isolate (laboratory sample, from them there will be 719X3X5=107850ffetal boot swabs) expected to be tested for the detection of Salmonella spp. Official's samples number will be ~ 10785/2-10-5402.

Scrotyping will be performed from each positive isolate. Positivity is expected to be detected in 1% of flocks, about 7 flocks.

However, an exact number of tests which will be performed is not possible, because the time when the flock becomes infected can not predicted.

7.1.2. Targets on testing of flocks³

Year; 201f Situation on date:

Animal species: Gallus gallus, breeding Disease: (4): xoonotic salmonella

	Number of Sumber of positive (9) flocks Mumber of depopulated (9) flocks Slaughtered or destroyed (9) (number) (1) eggs products Chamelted to destroyed (9) (number) (number)	(81) (82) (83) (84) (83) (84) (23) (84) (19	4 3 0 4 1 25000 25000 0 0 0
	Total number Number Num of animals of flocks uniter the programme	(8)	6149881 991 4
	Total Total Total Total Total Total Total Total Total Total	•	166 0000005
7-4- (1-4-)	Type of number of flock ⁽⁶⁾		Breeding 991
	Region (a1)		Total

(a) For zoonotic salmonellosis indicate the senttypes covered by the control programmes: (a1) for salmonella enterliidis, (a2) for salmonella typhimmium, (a3) for other senttypes specify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and tradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, broiler turkeys, breeding pigs, slaughter pigs, etc. Flocks or berds or as

(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more than once.

(e) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

7.2. Testing scheme

Testing scheme as provided for in the Annex to Commission Regulation No. 200/2010/EC of 9 March 2010 and Regulation (EC) No 2160/2003.

Details of the testing scheme are the following:

Sampling frame

The sampling frame shall cover all adult breeding flocks of Gallus gallus comprising at least 250 birds.

Specify types of flocks if appropriate(breeders, layers, broilers).

- Monitoring in breeding flocks
- 2.1. Location, frequency and status of sampling

Breeding flocks shall be sampled at the initiative of the operator and as part of official controls.

2.1.1. Sampling at the initiative of the operator

Sampling shall take place every two weeks at the holding. The detection of relevant salmonella serotypes during the sampling at the initiative of the operator has to be notified without delay to the County Agricultural Office, Directorate of Food Chain Safety and Animal Health by the operator, the sampler or the laboratory performing the analyses.

2.1.2. Official control sampling

Official sampling shall be carried out on three occasions during the production cycle:

- (a) within four weeks following moving to laying phase or laying unit;
- (b) towards the end of the laying phase, not earlier than eight weeks before the end of the production cycle;
- (c) during the production, at any time sufficiently distant from the samples referred to in points (a) and (b).

2.2. Sampling protocol

2.2.1. Routine sampling at the initiative of the operator

Sampling shall primarily consist of faecal samples and shall aim to detect a 1 % within flock prevalence, with 95 % confidence limit. To that effect, the samples shall comprise one of the following: (a) Pooled facces made up of separate samples of fresh facces each weighing not less than 1 g taken at random from a number of sites in the building in which the birds are kept, or where the birds have free access to more than one building on a particular holding, from each group The number of sites from which separate facces samples are to be taken in order to make a pooled sample shall be as follows: of buildings on the holding in which the birds are kept. Facces may be pooled for analysis up to a minimum of two pools.

Number of faeces samples to be taken in the building or group of buildings on the holding	200	220	250	260	300
	250-349	350-449	450-799	666-008	1 000 or more

(b) Five pairs of boot swabs:

Boot swabs used shall be sufficiently absorptive to soak up moisture. Tubegauze 'socks' are also acceptable.

The surface of the boot swab shall be moistened using appropriate dilucnt (such as 0,8 % sodium chloride, 0,1 % peptone in sterile deionised water, or sterile water). Walking around shall be done in a manner which will sample representatively all parts of the sector, including littered and slatted areas when slats are safe to walk on. All separate pens within a house shall be included in the sampling. On completion of sampling in the chosen sector, boot swabs must be removed carefully so as not to dishodge adherent material.

The boot swabs may be pooled for analysis into a minimum of two pools.

- (c) In cage breeding flocks, sampling may consist of naturally mixed faeces from dropping belts, scrapers or deep pits, deponding on the type of house. Two samples of at least 150 g shalf be collected to be tested individually:
 - droppings belts beneath each tier of cages which are run regularly and discharged into an auger or conveyor system;
- droppings pit system in which deflectors beneath the cages are scraped into a deep pit beneath the house;
- droppings pit system in a step cage house when cages are offset and facces fall directly into the pit.

There are normally several stacks of cages within a house. Pooled faeces from each stack shall be represented in the overall pooled sample. Two pooled samples shall be taken from each flock as described below.

In systems where there are deflectors beneath cages and scrapers, pooled facces which has lodged on the scraper after it has been run, shall be In systems where there are belts or scrapers, these shall be run on the day of the sampling before sampling is carried out.

In step-cage systems where there is no belt or scraper system it is necessary to collect pooled faeces from the deep pit. Droppings belt systems; pooled faccal material from the discharge ends of the belts shall be collected.

Page 30/19

2.2.2. Official sampling

- (a) Routine sampling shall be as described in point 2.2.1.
- In addition to the sampling as described in point 2.2.1, the sampling may include a sample of birds taken at random from within each house of birds on the farm, normally up to five birds per house, unless the County Agricultural Office, Directorate of Food Chain Safety and Animal Health deems necessary to sample a higher number of birds. The examination shall consist in a test for research of anti-microbial or (b) Confirmatory sampling following detection of relevant salmonella from sampling at the hatchery shall be carried out as follows. of bacterial growth inhibitory effect in samples. A test is considered failed if a positive is found in any of the birds.
- for relevant salmonella and bacterial growth inhibitory effect shall be repeated until no bacterial growth inhibitory effect is detected, or the breeding flock is destroyed. In the latter case, the breeding flock shall be accounted for as an infected breeding flock for the purpose of the In case the presence of relevant salmonella is not detected but anti-microbial or bacterial growth inhibitory effect are, sampling of the flock
- (c) Suspect cases
- In exceptional cases where the Central Agricultural Office, Food and Feed Safety Directorate has reasons to suspect false negative results at the first official sampling at the holding, a secondary official confirmatory sampling may be performed, composed of faeces or birds (for the detection of salmonella in organs).
- In exceptional cases where the National Food Investigation Institute has reasons to suspect false positive sampling performed at the initiative of the operator at the holding, follow-up official sampling may be performed.
- 3. Examination of the samples
- 3.1. Preparation of the samples
- 3.1.1. Boot swabs samples
- (a) carefully unpack the pair of boot swabs (or 'socks') to avoid disludging adherent faccal material and place in 225 ml BPW which has been prewarmed to room temperature;
- (b) where five pairs of boot swabs are pooled into two samples, place five individual samples into a minimum of 225 ml BPW and ensure that all the samples are totally immersed in the BPW;
- (c) swirl to fully saturate the sample and continue culture by using the detection method in 3.2.

3.1.2. Other faecal material samples

- (a) at the laboratory place each sample (or pooled sample as appropriate) into an equal weight of Buffered Peptone Water and mix gently;
- (b) allow the sample to soften for 10-15 minutes then mix gently,
- (c) immediately after mixing remove 50 g of the mixture and add to 200 ml of Buffered Peptone Water which has been pre-warmed to room (emperature;
- (d) continue culture of the sample by using the detection method in 3.2.

3,2, Detection method

The method recommended by the Community Reference Laboratory for Salmonella in Bilthoven, Netherlands, shall be used: the method is a modification of ISO 6579 (2002), where a semi solid medium (MSRV) is used as the single selective enrichment medium. The semi-solid medium should be incubated at 41,5 +/- 1 $^{\circ}$ C for 2 × (24 +/- 3) hours.

As regards the boot swabs samples and other faecal material samples referred to in paragraph 3.1., it is possible to pool incubated BPW enrichment broth for future culture. To do that, incubate both samples in BPW as normal. Take 1 ml of incubated broth from each sample and mix thoroughly then take 0,1 ml of the mixture and inoculate the MSRV plates in the usual way.

3.3. Serotyping

At least one isolate from each positive sample shall be typed, following the Kaufmann-White scheme.

4. Results and reporting

A breeding flock shall be considered positive for the purpose of verifying the achievement of the Community target, when presence of relevant faecal samples or birds organ samples), taken at the holding. This shall not apply in exceptional cases of suspect breeding flocks where salmonella salmonella (other than vaccine strains) was detected in one or more faecal samples (or if there is a secondary official confirmation, in the relevant detection at the holding at the initiative of the operator was not confirmed by official sampling. The cumulative results from sampling and testing in breeding flocks at holding level shall be accounted for, i.e. each breeding flock shall be counted only once irrespective of the number of sampling and testing operations. Positive breeding flocks shall be counted only once, irrespective of the number of sampling and testing operations.

Reporting shall include:

- (a) detailed description of the options implemented for the sampling scheme and the type of samples taken, as appropriate;
- (b) number of existing breeding flocks and those tested;
- (c) results of the testing;
- (d) explanations on the results, in particular concerning exceptional cases.

7.3. Targets on vaccination or treatment

Vaccination is not compulsory in breeding flocks of Gallus gallus. The rules of using vaccination and treatment are laid down in Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry.

rogramme
핅
Ξ
ᅙ
cost
흎
÷
YSİS
guaj
묫
Detaile
∞i

Costs related to	Specification	Number of units	Unitary cost in EUR	Total amount in EUR	Commanity funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Test: modified ISO 6579 (2002) using MSRV planned to be carried out in the framework of official sampling	5640	10	26400	Nes
	official sampling of verifying the efficiency of disinfection	100	16	1000	yes
	Test: serotyping planned to be carried out in the framework of official sampling(991*3*2*0,0341)	204	40	8160	yes
1.2. Cost of sampling	costs of sampting of approx, 719flocks 15 times and 272°2 times during 2011 + confirmatory testing 10 sampling sessions	11300	80	565000	Soy.
	(one session consists the taking of 5 pairs of swabs)				
1.3. Other costs			 	!	
2. Vaccination or treatment of animal products					
2.1. Purchase of vaccine/treatment of animal products	Cost of vaccine of approx, 5000000 animals two times	10000000	0.1	1000000	yes
	Cost of treatment of approx. 60,000 animals according to Art 2 Of Reg 1177/2006	00009	0.2	12000	
2.2. Distribution costs	Cost of the distribution (approx. 5000000 animals)	2000000	0.05	250000	ou
2.3. Administering costs	Cost of the administration (approx. 5000000	2000000	4.0	200000	ou

	animals)				_
2.4. Control costs				:	
3. Slaughter and destruction					
3.1. Compensation of animals	Cost of compensation of the positive animals approx. 5000000x0.0,01=50000 animals (SE/ST/SI/SV/SH infected animals)	50000	65	400000	sak
3.2. Transport cosís	Slaughtering of Infected flocks can only be authorised when meet from these flocks is treated. according to specific food safety legislation. Therefore, slaughter is not likely to be performed at regular contracted slaughterhouses, which makes transport costs much higher than usual, approx. 50000enimals, 2 kg/animal	10000	0.0≮	400	90
3.3. Destruction costs	Cost of destruction of approx. 50000 animals, 2 kg/animal	2000	6.2	10000	no
3.4, Loss in case of slaughtering	This loss is estimated to be of a large extent. However, losses due to the early slaughter of the flock and the decreased income due to hatching eggs which could not be produced is very hard to estimate.				
3.5 Costs from treatment of products (milk, eggs, hatching eggs, etc)		840000	0,2	168000	yes
4. Cleansing and disinfection	When taking into account the number of flocks (991) and the infection rafe (with the five relevant serotype) (1%), an approximate number of 10 flocks to be cleansed and disinfected can be estimated.		009	9009	90
	Cleansing and desinfaction of an average flock depends on several factors, however an approximate amount of costs is given.		_ _ -		:
5. Salaries (staff contracted for the programme only)					

		2979960	2198560 yes
6. Consumables and specific equipment	7. Other costs	TOTAL	Community funding requested



Central Agricultural Office Animal Health and Animal Welfare Directorate

HUNGARY

Application

for Community financing for the national control programme of Hungary for

Salmonella spp. in laying flocks of Gallus gallus

for the year 2011.

30th of April, 2010

Part A

General requirements for the national salmonella control programmes

- (a) The main objective of the programme is to comply with existing Community legislation, to achieve Union prevalence target within the defined time period available as regards laying flocks of Gallus gallus in the territory of Hungary. The target is an annual reduction of 10% of the positive flocks regarding the two zoonotic Salmonella serotypes most relevant in relation to public health (S. Enteritidis, S. Typhimurium).
- (b) Protection against salmonellosis is mandatory pursuant to the relevant EU provision as of 1 January 2008. A Decree was created and came into force on the 7th of January, 2008, (Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis) This Decree was repealed and a new Decree came in force on the 6th on January 2010 (Decree 180/2009. (XII. 29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis (hereinafter: "Decree"). The aim of creating the first Decree was to ensure compliance with the changes in the Community legislation. The Decree sets the conditions of the obligatory control measures in breeding, laying flocks and voluntary (mandatory from 2009) measures in broiler flocks of Gallus gallus against specified Salmonella serotypes. The Decree complies with the minimum sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council indicating the relevant animal population and phases of production which sampling cover

rearing flocks - day-old chicks

- four-week-old birds
- two weeks before moving to laying phase or laying unit

adult breeding flocks - every second week during the laying period

The new Decree was issued, because sampling of turkey flock became mandatory. Also, the structure of the Decree is new and experiences regarding the implementations of the Programmes were built in.

More information about testing scheme: please see Part B Chapter 7.2

- (e) The Decree compiles with the specific requirements laid down in Parts C, D and E of Annex II to Regulation (EC) No 2160/2003
- (d) 1 General
- 1.1. The short summary referring to the occurrence of the salmonellosis [zoonotic salmonella] in Hungary with specific reference to the results obtained in the framework of monitoring in accordance with Article 4 of Directive 2003/99/EC of the European Parliament and of the Council², particularly highlighting the prevalence values of the salmonella serovars targeted in the salmonella control programmes: Please see Part B Chapter 6.

OJ L 325, 12.12.2003, p. 1.

² OJ I. 325, 12.12.2003, p. 31.

- 1.2. The structure and organization of the relevant competent authorities: Please see Annex I.
- 1.3. Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate (formerly named: National Food Investigation Institute), Central Agricultural Office). The NRL is in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for co-operation with the Community Reference Laboratory in Bilthoven (NL).
- 1.4. Methods used in the examination of the samples in the framework of the programme: Please see Part B Chapter 7.3
- 1.5. Official controls (including sampling schemes) at feed, flock and/or berd level: Please see Part B Chapter 7.2.1.2.
- 1.6. Measures taken by the competent authorities with regard to animals or products in which the presence of *Salmonella spp.* have been detected, in particular to protect public health: Please see Part B Chapter 4.4.3, and Chapter 4.4.4.
- 1.7. National legislation relevant to the implementation of the programme, including national provisions concerning the activities set out in the programme: Please see Part B Chapter 4.4.7
- 1.8. Financial assistance provided to food and feed businesses in the context of the programme: Costs and benefits are calculated based on the previous year's data of the Poultry Product Board of Hungary. In the case of laying flocks costs will occur from the intensive sampling of the flocks as well as the tests performed on the samples (including both testing on the initiative of the operator and the veterinary authority), the measures to be applied in the case of infection (slaughter or killing of the flock, condemnation, transportation, cleansing and desinfection) as well as linancial losses due to decreased income for the poultry industry. Act No. XI.VI. of 2008, on the food chain and its official control and Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses and Decree No. 148/2007. (XII.7.) on the prevention of certain animal diseases and the order of claiming financial support and payment regarding their overcome in 2010 give the financial guarantee of the national programme.

In case of a positive flock, when compensation occurs, valuation of the birds is performed by the district chief veterinary officer according to a scale provided by the Poultry Product Board. It is based on a calculating system, where the day-old chicks' price is considered as 100%, and the value of a bird depends on its production cycle and age (given in percentage)

Concerning food and feed businesses covered by the programme

2.1. The structure of the production

Laying flocks of Gallus gallus in Hungary can be structured to rearing and production flocks, size, and the type of holdings.

2.2. The structure of the production of feed.

Feeding of poultry, including laying flocks of Gallus gallus is based on cereal products, mainly on corn, barley and wheat. Soybean and fishmeal is used as a source of protein.

Commercial feed producers are operating according to GMP standards. Laying flocks mainly use commercial pelleted feed, the technology of production of which includes heat treatment.

In Hungary, control of feedingstuffs is performed according to three main pieces of legislation:

Act No. XLVI. of 2008 on the food chain and its official control, Governmental Decree 274/2006 (XII. 23) on the establishment and operation of the Central Agricultural Office and Decree of the Ministry of Agriculture and Rural Development No. 43/2003. (IV. 26.) on the implementation of the above Act.

In the Act general principles of the control of feed are laid down general principles of the control of feed, sets the competent authorities and allocates the tasks to these services.

Ffeed production plant may be authorised by the competent regional organization (County Directorate of Food Chain Safety and Animal Health) of the Central Agricultural Office. The authorisation must be renewed at periods of a maximum of 5 years. Other authorities are also involved in the authorisation process.

The registration of the feed production units is done by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

The Act states that the feedingstuffs produced may neither pose a direct health risk to liveflock, nor an indirect risk to public health.

Therefore, the competent Directorate of Food Chain Safety and Animal Health of County Agricultural Office perform regular controls of the feed production plants, including the production, keeping, marketing, transport and use of feed produced. Controls also include compliance with feed hygiene rules, safety, composition, microbiological safety of feedingstuffs, as well as many other parameters such as the presence of prohibited substances, packaging, labelling etc.

In case of non-compliance with any of the parameters listed in the Act and the Decree, the competent County Directorate may prohibit the production, keeping, marketing, transport, export, import or transport of the relevant feed. If such feed was already used, the Directorate of Food Chain Safety and Animal Health of County Agricultural Office has a duty to notify the county level public health authority.

The Decree gives detailed instruction to authorities and stakeholders on how to implement the Act. Annex 20 to the Decree sets out the maximum tolerable amount of Salmonella spp. in food and the related ISO standards. According to ISO 6579:2002, feedingstuffs must show zero Salmonella spp. / 25 grams.

In addition, the same Annex states that feedingstuffs must be free of any pathogens which may pose a direct risk to animal health and/or an indirect risk to public health.

Relevant guidelines

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural

Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. The new guideline of Decree No 180/2009, is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

2.4. Routine veterinary supervision of farms:

Controls are planned annually by the Food Chain Safety Deputy President of Central Agricultural Office. Number of controls depends on risk assessment.

An official veterinarian can also perform on-spot checks when taking samples, but it is not necessarily connected, inspections are performed based on the national program.

2.5. Registration of farms:

All poultry farms have to be registered according to Decree no. 119/2007. (X.18) of MARD on keeping places, breeding farms and national registration system of their data if they meet the relevant criteria. For more information please see Part B Chapter 4.4.1.

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- which sends poultry directly to the slaughterhouse
- which have a slaughtering permit for small producers.

2.6. Record-keeping at larms:

All documents concerning to the programme must be kept for 3—years. The documentation has to contain all data about animals, tests, transports, samples and medication.

2.7. Documents to accompany animals when dispatched.

Commercial poultry consignments are accompanied with animal health certificates according to Directive 90/539/EC. Consignments with national destinations are accompanied with animal health certificates according to Decree 41/1997. (V. 28.) FM appendices 8/a and 8/b.

In accordance with Paragraph 85, of Decree No 41/1997, of the Minister of Agriculture on the publication of the Animal Health Code, the official veterinarian carries out a flock examination within 12 hours before transportation, and on the basis of the financing/allowance plan, fills out the animal health certification in the appendices 8/a, and

8/b., certifies the place of origin of the day-old animals, their circumstances free from epidemic, the name of the vaccine used, the time and method of the immunization. Because of the changes occurred since the publication of the legislation, this ordinance cannot be fulfilled in these days.

"Animals can only be transported when accompanied by a valid certification attested by the veterinarian responsible for treatment" in accordance with point 4.2.1. point (Starting of poultry consignments) of the guide which was prepared for poultry batcheries that are obliged to TIR registration, in accordance with point d) of Paragraph 6. of Decree No 120/2007. (X. 18.) of the Minister of Agriculture and Rural Development on establishing and operating of the Poultry Information System (hereinafter: BIR regulation). In pursuance with point 4.2.1., "The hatchery starting the consignment has to fill in the Poultry movement form 2740, on the upper part of which the data of starting has to be given".

The poultry animal health certificate laid down in the BTR regulation is not to replace the certificate 8/b., as the authority responsible for animal health takes part in issuing the latter only.

At the same time, even the certification 8/a, can not be replaced by the introduction of the BIR regulation, as certain data that have to be certified by the veterinarian in the certificate 8/a are not placed on the latter, for example immunizations carried out in the flock, diagnostic examinations and the results thereof.

In pursuance of the abovementioned regulations, all three certifications are required for the transport of the day-old poultry. The BIR certification is drawn up by the veterinarian responsible for treatment, while certifications 8/a. and 8/b. are filled in by the approved veterinarian, in accordance with the Governmental Decree No 113/2006. (V. 12.) on the competence and detailed rules of the activity of the approved veterinarian, with the exception of the case when the approved veterinarian is not the treating veterinarian, because in those cases the certification 8/a. has to be filled in by the veterinarian of the hatchery.

As it can be seen from above, the current legislation of movement documentations doesn't seem to be unambiguous as regards several points.

For solving the problem, a working group was established. The working group is predestinated for revising the form and content of certificates for inland live animal transportation and as far as possible, for the harmonisation thereof.

Other relevant measures to ensure the traceability of animals.

At central level three persons are responsible for the TRACES, of which one is responsible for the technical part (for example: giving access to the system). The two other colleagues (one at MRD and one at CAO) are the trade contact points of Hungary and are keeping the contact wit the counterparts of the member states.

Please see Part A 2.7, and Part B Chapter 4.2, and Chapter 4.4.1.

1. Identification of the programme

Member State: Hungary

Disease: Infection of animals with zoonotic Salmonella spp.

Animal population covered by the programme: Laying flocks of Gallus gallus

Year of implementation: 2011

Reference of this document: 02.3/897/5/2010.

Contact (name, phone, fax, e-mail): Dr. Imre Nemes

Director.

Animal Health and Animal Welfare Directorate

Central Agricultural Office Tel: +36-1-460-6300 ext, 112

Fax: +36-1-222-6064 e-mail: nemesi@oai.hu

Date sent to the Commission: 30th of April, 2010

2. Historical data on the epidemiological evolution of zoonotic salmonellosis specified in point 1

Monitoring and control programmes for Salmonella spp. (S. Enteritidis and S. Typhimurium) started in Hungary in 1997 by issuing official guidelines for the poultry sector. The goal of the project was to achieve similar targets as which were set by Council Directive 92/117/EEC. The collection of guidelines were ordered by the Ministry of Agriculture and were prepared by an expert group consisting of both Hungarian experts of various backgrounds (Hungarian Academy of Science, National Food Investigation Institute, Central Veterinary Institute and numerous practicing veterinarians) and experts of the Agri-Livestock Consultant Ltd (W. Edel and C. Wray). The work was financed by the PHARE programme of the European Union under project No. HU 9304-05-02. The programme covered the whole poultry sector in relation of Gallius gallus, breeding flocks, hatcheries, broiler flocks, table egg producing layer flocks, egg packaging and distribution establishments, poultry slaughterhouses, cutting plants as well as feed mills. The guidelines stated clearly that there is an urgent need for centralised official administrative measures in the form of a ministerial decree by the Minister of Agriculture.

The first decree was created in the year 2002: Decree 49/2002. (V. 24.) of the Minister of Agriculture and Rural Development on protection against salmonellosis and poultry typhus and on retaining officially free status, and was modified by the Decree 97/2003. (VIII. 19) Minister of Agriculture and Rural Development. A new Decree was created and came into force on the 7th of January, 2008, and can be referred to as Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis. The

aim of creating the new Decree was to ensure compliance with the changes in the Community legislation.

Decree 2/2008 of MARD set the conditions of the obligatory control measures in breeding, laying flocks and voluntary (mandatory from 2009) measures in broiler flocks of Gallus gallus against specified Salmonella scrotypes. As a prerequisite, there is an obligation of the holdings keeping breeding flocks of Gallus gallus to be registered by the State Veterinary Service. Results of testing required by the Decree are also to be notified to the Directorate of Food Chain Safety and Animal Health of County Agricultural Office (formerly named: County Animal Health and Food Control Service). Decree 2/2008 of MARD had been amended 5 times till it was repealed and replaced by Decree 180/2009 of MARD (hereinafter referred as 'Decree') as of 6th of January, 2010. The new Decree covers the same area, but the structure of it was modified and enhanced based on experience.

The baseline study of the prevalence of Salmonella spp. in laying flocks of Gallus gallus carried out according to Commission Decision 2004/665/EC showed that infection of laying flocks for Salmonella Enteritidis and Salmonella Typhimurium was 33,54%, at the beginning of the program. The Community target which is set by Commission Regulation (EC) No 1168/2006 Art. 1 a) iii for this prevalence is 30% reduction per year in the infected flocks. This goal can only be achieved by a rigorous control programme using extensive professional and financial resources. At the beginning of the second year of the program, the infection of laying flocks for Salmonella Enteritidis and Salmonella Typhimurium was 8,65%. At the beginning of the third year of the program, the infection of laying flocks for Salmonella Enteritidis and Salmonella Typhimurium was 2,83 %.

3. Description of the submitted programme

The main objective of the programme is to comply with existing Community legislation, to achieve Community prevalence targets within the defined time period available as regards laying flocks of Gallus gallus in the territory of Hungary. The programme covers the two zoonotic Salmonella serotypes most relevant in relation to public health (S. Enteritidis, S. Typhimurium).

Included in the programme are all laying flocks of Gallus gallus registered in the territory of Hungary.

Laboratorics involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate, Central Agricultural Office). The NRL will be in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for co-operation with the Community Reference Laboratory in Bilthoven (NL).

4. Measures of the submitted programme

4.1. Summary of measures under the programme

Duration of the programme:

First year: 2008 Last year: 2010

⊠ Control

□Eradication

▼ Testing

i≍l Slaughter of positive animals :

⊠Killing of positive animals

▼ Vaccination
 □ Treatment

☑ Disposal of products

(Testing)

Slaughter of positive animals

□ Extended slaughter or killing□ Disposal of products

☑ Other measures (specify):

Flocks positive for S. Typhimurium or S. Enteritidis will be subject to movement control. As soon as the NRL confirms the infection, the flock shall be sent to isolated slaughter, latest at the end of the production period. Meat originating from such flocks may only be authorised for human consumption after meeting all relevant food safety requirements as regards of the Regulation (EC) No. 2160/2003. Annex II. Point E.

- Eggs originating from such flocks do not be marketed according to the Regulation (EC) No. 1237/2008, of 23 October 2007 amending Regulation (EC) No 2160/2003 of the European Parliament and of the Council and Decision 2006/696/EC as regards the placing on the market of eggs from Salmonella infected flocks of taying bens.
- After emptying the relevant holding operators are required to implement proper cleansing and desinfection. Effectiveness of the procedure is controlled by the competent regional animal health authority. Restocking is only authorised, when cleansing and desinfection is deemed to be satisfactory.

4.2. Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme:

All holdings must be registered at the district veterinary office. The official senior veterinary officer keeps and updates the record of holdings participating the programme. The official senior veterinary officer also declares the status of the holdings according to their actual serological status.

The 19 Directorates of Food Chain Safety and Animal Health of County Agricultural Offices coordinate and supervise the programme in their territory. They are required to annually report the actual status of the programme to the Animal Health and Animal Welfare Directorate of the Central Agricultural Office.

Name: Central Agricultural Office

Animal Health and Animal Welfare Directorate

Name in Hungarian: Mezőgazdasági Szakigazgatási Hivatal Központ

Állategészségűgyi és Állatvédelmi Igazgatóság

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

Tel.: +36-1-460-6300 Fax: +36-1-222-6065

4.3. Description and delimitation of the geographical and administrative areas in which the programme is to be implemented:

The programme will be implemented on the whole territory of Hongary. The programme is compulsory as from the 1st January, 2008

4.4. Measures implemented under the programme

4.4.1. Measures and terms of legislation as regards the registration of holdings:

According to Paragraph 5, of the Decree the operator is obliged to register for the national control programmes, pursuant to Article 8 (3), Article 8 (3) states that:

A business operator obliged to or voluntarily undergoing control pursuant to paragraph (1) shall apply for participation in the national control programme by submitting an epidemiological action plan approved by the private veterinarian responsible for the supervision of the poultry flock or hatchery at the competent district office by virtue of the location of the holding site, which shall register the business operator in accordance with Article 3(4) (a).

- 4.4.2. Measures and terms of legislation as regards the identification of animals: -
- 4.4.3. Measures and terms of legislation as regards the notification of the disease:

7 of paragraph 9 of the Decree:

The laboratory shall immediately notify the district office and the veterinarian taking the sample of the test results and - in the event of positive results - the business operator and the regional organization of the CAO as well. In the event of positive results the laboratory shall send the isolated strain for confirmatory testing and serotyping together with one original copy of the sampling form to the NRL. The testing laboratory must retain the copy of the sampling form for three years.

4.4.4. Measures and terms of legislation as regards the measures in case of a positive result:

Whenever a positive flock is found by own-check sampling in the frame of the programmes in breeding flocks and laying hens, than this flock should be considered as a suspect flock and movement restrictions are imposed on this flock.

Procedure in the event of positive test results

Article 11

(1) If the sample taken from a flock of breeding hens, a flock of laying hens or a flock of breeding turkeys results positive the operator shall revise the epidemiological action plan within 22 working days and shall resubmit it to the District Office for approval. The revised plan shall contain the review of the hygiene conditions, especially the efficiency of the desinfection and pest control procedures, the results of the test to find possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 22 working days and may ask the operator to amend it if they find it unsatisfactory.

- (2) If a sample taken at a flock of broilers and fattening turkeys results positive the business operator shall revise the epidemiological action plan within 11 working days of receiving the result and shall resubmit it to the District Office for approval. The action plan shall contain the review of the hygiene conditious; especially the efficiency of the desinfection procedures and of post control (insect and rodent extermination), the results of the test to identify possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 11 working days and may ask a business operator to amend it if they find it unsatisfactory.
- (3) If the results of salmonella testing of broiler and fattening turkey flocks results positive, there is a rapid method—available on the business operator's request—of excluding infection by Salmonella Enteritidis and Salmonella Typhimurium scrotypes at a certified laboratory designated by the CAO using group-specific 'O' antibody. In this case the laboratory which performs the 'O' group typing will send the isolated strain to the NRL for scrotyping.
- (4) If, using the group specific 'O' antibody, infection by Salmonella Enteritidis and Salmonella Typhimurium setotypes can be excluded, then the given flock of broilers or fattening turkeys may be slaughtered by decision of the District Office. Measures pursuant to paragraph (2) and (5) shall be applied at the same time.
- (5) When, during serotyping, the NRL detects infection with a scrotype other than Salmonella Enteritidis or Salmonella Typhimurium, the District Office shall immediately withdraw the official certificate of infection-free status of the flock, if the operator has one, in respect of the given scrotype. The operator shall clean the site after the production cycle (building, equipment and machinery, connecting rooms and paths) and in accordance with specific piece of legislation on issuing the Animal Health Code for stringent desinfection, rodent extermination and desinsectisation.
- (6) Operators may restock the airspace concerned only if they verify the efficiency of desinfection when an environmental swab sample tests negative in a laboratory. The business operator shall bear the costs of taking and testing environmental swabs.
- (7) If in the case of a flock of breeding hens the NRL detects infection by a salmonella serotype that is considered a Community target under Regulation (EC) No 1003/2005, Article 12 (9) shall apply in respect of feed and Article 12(8) in respect of restocking of the air space.

Procedure in the event of Salmonella Enteritidis or Salmonella Typhimurium infection Article 12

- (1) If during scrotyping the NRI, detects infection with Salmonella Enteritidis or Salmonella Typhimurium the District Office shall order restriction of movement of the flock concerned and the products originating therefrom and shall withdraw the official certificate of infection-free status without delay. The official certificate of infection-free status in respect of other flock from the holding shall also be withdrawn at the same time unless the infected flock have been appropriately isolated.
- (2) Testing may only be repeated by official sampling ordered by the regional organization of the CAO pursuant to Article 9(10). Sampling for the official test may only be carried out by official or approved veterinarians within the shortest time possible. The NRL shall test the samples and at the same time conduct an examination to detect antimicrobial inhibitory effects. If the result from the repeated sampling is negative or it results in an infection with salmonella serotypes not covered by the national control programmes and no antimicrobial inhibitory effect can be detected, the District Office shall lift the restriction of movement in respect of the flock and the products thereof. If antimicrobial inhibitory effects can be detected the District Office shall investigate the circumstances of the use of antibiotics and maintain the restriction on movement until it is proven that antibiotics were used for purposes other than to treat the infection of salmonella.

- (3) If repeated testing reveals infection by Salmonella Enteritidis or Salmonella Typhimurium or the regional organization of the CAO not orders a repeated test, the flock concerned may be slaughtered after preliminary consultation with the slaughterhouse and the official veterinarian supervising the slaughterhouse and in accordance with the specific veterinary health rules on separate slaughter.
- (4) In the event of infection by Salmonella Enteritidis or Salmonella Typhimurium in a flock of breeding hens and turkeys Annex II/C to Regulation (EC) No 2160/2003 shall apply and Annex II/D to Regulation (EC) No 2160/2003 shall apply to flocks of laying hens.
- (5) Meat from an infected flock may be placed on the domestic market without eliminating salmonella if the production processes following the slaughter of the infected flock are separated from the processing and treatment of other raw materials of animal origin and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from slaughtering and processing infected flock shall carry the text "for consumption only after heat treatment (thorough frying or cooking)" clearly and indelibly marked on every smallest packaging unit close to the identification label, close to the traceability marking; and on the accompanying commercial document.
- (6) If meat from infected flock is processed after salmonella elimination (heat treatment, heat treatment as part of product manufacturing) the processes following slaughter of the infected flock shall be separated from the processing of other raw materials of animal origin until salmonella has been efficiently eliminated, this has been certified and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from infected flock shall carry the text "Originates from salmonella-infected flock" on every smallest packaging unit close to the identification label and the premises traceability marking and may only be used to produce food when the technological manufacturing processes guarantee that the product will be salmonella-free. Every such food item shall be verified by microbiology testing carried out in a laboratory before the are cleared for retail trade and the official veterinarian supervising the slaughterhouse shall be informed thereof. The production plant may place heat treated products certified as salmonella-free on the market on the basis of the results of own checks.
- (7) After the keeping place of the infected flock has been emptied the operator shall provide for cleaning the building, equipment and machinery, connecting rooms and paths and in accordance with specific piece of legislation on the issuing of Animal Health Code for reinforced desinfection, rodent extermination and disinsectisation. The remaining litter shall be disposed of in accordance with special legislation on the treatment of waste of animal origin. After these tasks have been accomplished the business operator shall inform the District Office, which will verify the efficiency of the measures implemented.
- (8) The District Office shall authorise the restocking of the airspace concerned only if the effectiveness of desinfection was verified by environmental swab samples test negative in the laboratory.
- (9) The feed fed to infected flock shall be tested without delay in accordance with the special legislation on the manufacturing, placing on the market and use of feed, except when day-old birds test positive. Until testing yields negative results such feed may only be fed to infected flock. If feed tests positive it has to be disposed of in accordance with the special legislation on the manufacturing, placing on the market and use of feed, and the equipment used for its storage and transportation shall be disinfected. If infection has been detected, specific testing shall be carried out to detect salmonella at the feed operator from which the feed originates.
- (10) Hatcheries to which infected hatching eggs have been transported shall act in accordance with Annex II/C(3) and (5) of Regulation (EC) No 2160/2003 and shall apply the provisions of paragraph (7) and (8). If a hatchery has a certificate of infection-free status the district office

shall immediately withdraw this. The hatchery must cooperate in tracing the origins of infection on the basis of its records and shall bear the costs.

4.4.5. Measures and terms of legislation as regards the different qualifications of animals and berds:

See point 4.4.4.!

4.4.6. Control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned:

Sec point 4.4.4.!

- 4.4.7. Measures and terms of legislation as regards the control (testing, vaccination, etc.) of the disease:
 - Regulation (EC) No. 2160/2003, of the European Parliament and of the Council on the control of Salmonella and other food-borne zoonotic agents
 - Commission Regulation No. 1168/2006 of 31. July 2006 implementing Regulation No. 2160/2003 as regards a Community target for reduction of prevalence of certain salmonella scrotypes in laying flocks of Gallus gallus and amending Regulation (EC) No 1003/2005
 - Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry
 - Commission Regulation (EC) No. 1237/2007, of 23 October 2007 amending Regulation (EC) No 2160/2003 of the European Parliament and of the Council and Decision 2006/696/EC as regards the placing on the market of eggs from Salmonella infected flocks of laying hens.
 - Act No. XLVI, of 2008, on the food chain and its official control
 - Decree No. 180/2009. (XII.29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis
 - Decree No. 41/1997, (V. 28.) of the Minister of Agriculture on Code of Veterinary Rules

The vaccination protocol has to be enclosed in the epidemiological control plan (which the operator submits as an application for participation in the national control programme.)

Furthermore, according to Article 14 (3) of the Decree:

"Documentation and treatment log has to be kept on the use of vaccines, which is checked by the district office based on risk-based assessment. Checking shall cover the proper use of vaccines and that the application was performed as in the instructions of use. The operator shall verify that the appropriate amount of vaccines was used by invoices, and the veterinarian verifies the proper application by his stamp.

(The assumption of the vaccine compensation claim is the common declaration made and signed by the animal owner and the veterinary practitioner on the vaccine usage.)

- 4.4.8. Measures and terms of legislation as regards the compensation for owners of slaughtered and killed animals:
 - Veterinary Act No. XLVI, of 2008, on the food chain and its official control
- Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses
- 4.4.9. Information and assessment on bio-security measures management and infrastructure in place in the flocks/holdings involved:

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. The new guideline of Decree No 180/2009, is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

5. General description of the costs and benefits:

Costs and benefits are calculated based on estimation and previous year's data and information. In the case of laying flocks costs will occur from the intensive sampling of the flocks as well as the tests performed on the samples (including both testing on the initiative of the operator and the veterinary authority), the measures to be applied in the case of infection (slaughter or killing of the flock, condemnation, transportation, cleaning and desinfection) as well as financial losses due to decreased income for the poultry industry.

A detailed description of the costs is listed under point 8.

Benefits in case of the successful programme include improved food safety which contributes largely to the achievement of public health goals of the Community.

6. Data on the epidemiological evolution during the last five years

As the control programme started by the 1st of January, 2008, evolution data are available only from the end of 2008.

6.1. Evolution of zoonotic salmonellosis

6.1.1. Data on evolution of zoonotic salmonellosis

Year: 1 January 2008 - 30 May 2008 -

Situation on date: First year of the programme

Animal species: laying flocks of Gallus gallus

Disease/infection(0); Salmonellosis

ſ -			1	Т	, ——			<u> </u>
Quarcity of eggs charcelled to egg products (member)	(33)		Ç	•	٥	0	D _	.
ර සහ දී කුණ් දී කුණ් වැඩි	(3)-1		0	1200	٥	0	0	⇒
ity of	(33)	0	C	; _	0	ф	0	=
Quantity of eggs destroyed (number or kg) to	(94)	٥	Φ	0	0		•	=
umber mals cred or	(58)	0	0	. ≎	0	6	0	\$
Total cumber of mimals slaughtered or destroyed w	(304)	. 0	•	3620 0	0	0	<u> </u>	٠
er of ks alegi ²³	(7	<u> </u>	0	6	6	=	<u> </u>	0
Number of Flocks depopulated ²⁰	(83)	0	0	_	•	0		0
: livc ⁽⁶⁾	(£B)	0	1 S.Sent	5		IS.BI.		-
	(92)	0	- ·	5	9	0	c	0
drind.	(31)		æ	-	 	. 0	5	æ
Number of flooks checked		9.	33	26	12	. <u> </u>	91	5
Total combes of animals under the	- Diogramme	352340	289460	698117	162086	229250	299014	61788
Total number of flocks under the	· Summerson	110	61	12		92	43	32
Total number of animals		352340	289460	698117	162086	229250	299014	61788
Total number of		911	19	נג	36	56	£ 1	. 32
Type of fluck ⁽²⁾		Laying hen flocks	Laying ben flocks	Laying ben Hocks	Laying hen tlocks	Laying hen flocks	Laying hen flocks	Laying ben flocks
Region (a1)		Pest (including Budapest)	Fejér	Komárom- Esztergom	Veszprém	Győr-Moson- Sopron	Vas	Zala

8 2747 8 2747 5 0 </th <th>Laying ben . Bocks</th> <th>77</th> <th>1361</th> <th>22</th> <th>11961</th> <th>81</th> <th>0</th> <th>0</th> <th>ф</th> <th>¢</th> <th>⇒</th> <th>С</th> <th>¢.</th> <th>0</th> <th>¢</th> <th>0</th> <th>0</th>	Laying ben . Bocks	77	1361	22	11961	81	0	0	ф	¢	⇒	С	¢.	0	¢	0	0
11 1155U 11 1155Q 3 0 0 0 0 0 0 0 0 0	_	90	2747	30	2747	5	0	0	0	ŷ.	¢	0	. 0	0	. •	0	i
100 557114 100 557114 15 4 0 0 0 0 0 0 0 0 0	E S	Ξ	11550	11	11550	۲.	÷	0	0	0	\$	0	5	: 6	<u> </u>	0	
30 82990 30 82990 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	हुत्। 83	100	557114	100	557114	15	4	0	D	0	=	0		Þ	o		 c
8 15190 8 16190 5 1 0	ing ks	30	06628	30	06628	2	Ф	0	0	0	0	∌	8	¢	۵		6
47 313364 47 313364 15 2 6 1 0	ing ks	20	16190	æ	16190	٠.	-		0	0	>	⇒	0	٥	0	0	٥
34 283970 34 283970 6 0 <	ying n cks	T- -	313364	47	313364	15	-74	÷	_	0	2	. •	. 0	۰	٥	e	=
30 168068 12 0<	tying in ocks	34	283970	34	283970	· •	0	θ	0	ô	. 0	0	9	0	0	\$	•
152 1162054 152 1162054 69 4 0 0 1 0 5000 25 289047 25 289047 19 4 0	aying an ocks	£	168068	3.0	168068	71	0	0	0	¢	_ _	0	÷	0	0	9	٠
25 289047 25 289047 19 0 0 0 0 0 0 0 0 0 0 20 37200 20 37200 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	aying an ocks	152	1162054	132	1162054	649	4	U	U]	ə	2000	0	0	ų,	\$	=
20 37200 20 37200 2 1 0 0 0 0 0 0 866 5035960 866 5035960 289 14 9 4 2 0 4120	eving no soks	52	289047	2.5	289047	61	÷ .	0	0	. 0	±	0	0	0	0	<u> </u>	s s
866 5035960 866 5035960 289 14 9 4 2 0 4120	aying na ocks	ng :	37200	82	37260		-	E	0	0	. 5	•		0	0	1500	5
		386	2035960	998	\$035960	289	±	6	7	2	-	4120	c	•	0	1203	

- (a) For zounotic salmonellosis indicate the serotypes covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.
 - (a1) Region as defined in the approved control and eradication programme of the Member State.
- (b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or leads or as
- (c) Total number of thocks existing in the region including eligible thocks and non-eligible flocks for the programme.
- (d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more than once.
- (e) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.
- I Salmonella infantis
- M Salmonella Mbandaka
- .L. Salmonella Livingstone
 - S.Thom. Salmonella Thomson
 - S.07 Salmonella O7 servy.
 - S.Bl. Salmonella Blockley
- S. Senf. Salmonella Senftenberger

Year: 30 March 2008 - 31 December 2008 -

Situation on date: First year of the programme

Disease/infection(*); Salmonellnsix

Animal species: laying flocks of Gallus gallus

					· —			:	
Quentity of eggs channelled to egg products (egg-products (egg-products)	3	Ф	. 0	ņ	٥	Ф	0	0	\$
C Man	₽	324	÷	0	5	- = -	0	0	Đ.
of eggs yed or kgj	(63)	c .	0	0	e	0	0	∓ —∴	
Quantity of eggs destroyed (number or kg)	(24)	\$	\$	0	0	0		e :	0
er of ghtend rd (s)	(a3)	0	0	0	O	a	0	¢	0
Total number of animals slaughtered or destroyed (a)	(Fg)	24190	29486	0	0	¢	27843	0	o
crol ks	(304)	-	<u>~</u>	0	· ·	0			
Number of flocks depopulated	(E)	٥	Ð	0	¢	0	0	c	0
of elsew	(g)	رم د	•	0	0	<u> </u>]	0	- S.L.
Number of positive ⁽⁴⁾ flacks ⁽⁴⁾	(S)	0	0	.3	0	÷ -	-	a	0
posit	(Je)	ř.	۲۰	-	ग 		·	o 	-
Number of flocks checked		110	.	1,6	36	34	유	33	22
Total number of animals under the programme		352340	289460	698117	162086	229250	299014	61788	1961
Total number of flocks under the programme		110	[9	1.	36	26	£ 4 .	33	22
Total number of sumials	:	352340	289460	698117	162086	229250	299014	61788	11961
Total "umber of flacks ^(c)	,	91-	(61	11	36	36	43	32	33
Type of Hock ⁽³⁾		Laying hen flocks	Laying ken Boeks	Laying hen flocks	Laying hen flocks	Laying hen flocks	Laying hen Nocks	Laying Non Nocks	Laying hen flocks
Region (al)		Pest (including Budapest)	Fejér !	Komårom- Esztergom	Veszprem	Györ-Moson- Sopron	Vas	Zala	Вагапуя

<u></u>			· · ·	:	—	ı	·	ı <u>-</u>			
	•	Ф	9	•		¢	0	0	0	⇒ <u> </u>	
5	÷ !	٠	g	0	0	0	ф	137 635 6	0	· -	5. <u>5</u> 0
٥	Φ .	٥	0	0	=	•	0	0	ð	\$	0
0		c	Ð	€	0	0	Ų	÷	=	30000	30400
. \$	¢	φ	0	0	0	Ð	0	0	0	¢	•
50%	0	0	ŋ	3500	370	0	O D	249	θ	a	85047
_		¢	0	_		0	0		0	0 .	œ
٥	. 0	د	0	0	Û	0	¢	Ð	G		_
C	- <u>1</u>	S.P.J	2 S,1.	a	. 0	S.I.	ψ	8 S.1.	 c	0	22
_	Ĝ	_	0	0	÷	Φ	0	2	c	0	œ
÷	0	r~	_	~	_	_		11	•	دا	3
20	= :	80	30	æ	47	37	30	152	25	R	866
2747	11550	557114	N2990	16190	313364	283970	168068	1162054	289047	37200	9035960
30	=	900	30	æ	£†	34	30	152	25	30	866
2747	11.5541	\$57114	82990	06191	313364	283970	168068	1162054	289047	37200	5035960
%	=	100	30	æ	47	34	30	152	25	δ. 	866
Laying hen flocks	Laying ben flocks	Laying ben Bocks	Laying hen flacks	Laying hen flocks	: Laying hea flocks	Laying Iten flocks	Laying hen flocks	Laying hen Hocks	Laying hen flocks	Laying . he n j flocks	
Somogy	Tolna	Borsod-Abaúj- Zemplén	Heves	Nógrád	Пајди-Віват	Jász-Nagykun- Szolnok	Szabołcs- Szatmár-Bereg	Bács-Kiskun	Bėkės	Csongrád	Total

- (a) For zomntic salmonellosis indicate the serotypes covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimunium, (a3) for other serotypesspecify as appropriate, (a4) for salmonella enterifidis or salmonella typhimurium.
 - (a1) Region as defined in the approved control and eradication programme of the Member State.
- (b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, broiler turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.
 - (e) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.
- (d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more
- (c) If a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

Salmonella infantis

Salmonella Mbandaka

Salmonella Livingstone

Salmonella Thomson

Salmonella O7 serov. S.Thom. S.O7

Salmonella Blockley

Salmonella Senftenberger S. Senf.

Region (af)	Type of flock ^{tio}		Total number of flocks ^(s)	Total rumber of animals	Total number of flocks under the programme	Total number of animals under the programme	Number of flocks checked ^(o)	Number	Number of positive ^{ke} flacks ^(a)	Theks ^(a)	Number of Rocks depopulatet ¹⁹		Total number of animals slaughtered or destroyed (c)	naber nals red or	Quantity of eggs destroyed (number) (2)	ا الاسلام الاسلام الاسلام الاسلام	Quantity of uggs channelled to egg products (number)	ity of Es Bed to oducts ber)
								(at)	(32)	(43)	(8.3)	(464)	(hh)	(33)	(94)	(E3)	(44)	3
Bács-Kiskun	Laying h flocks	hen 2	262	2785486	262	2785486	262	٠.	Đ	86	0	٠.	1628			a	8458	<u>,</u>
Baranya	Laying h thecks	hen	<u> </u>	38120	#	38120	4		.	0	0	_	7000	0	7.18	0	ם ס	0
Borsod-Abaij- Zemplên	Laying h] [] []	147	932878	147	932878	139	r»		-	;	·	3008	0	909	¢	•	c
Běkés	Laying h flocks	no-	£	771342	\$	771342	08	 ლ			-	en	2103	0	0511	0	5000	0
Csongrád	Laying b Hocks	lises	17	87330	<u></u>	87330	17	0	e .	ວ_		0	0	0	<u> </u>	- 0	\$	0
Pejér	Laying h Nocks	E.		620803	£.	620803		<u>м</u>	0	\$	0	·~	2114	0	7020		2766 800	0
Gyðr-Mason-Sopton	Laying h thocks	hen .	=	364844	=	364844	=	**	_ [2	0	 ,,	1402	0		5	59.46	0
Hajdú-Bihar		<u> </u>	11	831595	-	831595	*1	Ç	<u> </u>	rا	0		•	0	0	0	_	0
Heves	Laying h	i Garl	09	131060	35	131060	56	<u>.</u>	e .	12	0	۲۰	4363		930	0	2ti28 00	
Jász-Nagykun- Szolnok	Laying b	near .	46	396138	97	396138	9 .	ო	<u> </u>	0	0	~	0 0	0	1000	- ·	ç	0
Komárom- Esztergon	Laying by	pe	37	1380748	37	1683091	37	-+		5	- 0	0		0	5	0	2300	0
Nógrád	Laying 1	hen	~	0916	5.	0916	15	-	5	·	0	_	3500	<u> —</u>	0	0	0	0

Second year of the programme

Disease:(*); zoonotic salmonella

Animal species: Gallus gallus, layer

Year; 2009,01,01,-13.31.

Pôváros-Pest	Laying hen 94 flocks	րեր	3/4	556485	64	556485	92	2	0	71	0	2	6805	0	3400	0		
Somogy	Laying hen 10 Hocks	hen	92	9062	10	7909	6	0	_	3	0	1	SE.	0	¢	0	Φ.	0
Szabolcs-Szatmár- Bereg	Laying hen 51 flocks	hen	51	252355	ادّ	252155	39	0	0	-	0	0	0 :	0	0	0	÷.	0
Топя	Laying hea flocks	hea :	'n	28200	Vs.	28200	ĸ	٠,	0	Û	0	0	С.	0	c	 0	÷	. 0
Vas	Laying hed flocks	hen	œ	415820	∞	415820	«	۰.	_	<u>-</u>	0	-	0	0	¢	0	a c	. 0
Veszprem	Laying hen flocks		51	147651	15	194926	51	¢	·	7	0	Ú	0	0	u	0	0	0
Zala Laying	Laying then 12	then	12	111422		111422	12	0	0	0	<u>-</u> -	٥	э ;	0	9	0	0	0
	/		1068	9869346 : 1074	1074	10218964	1051	<u>.</u>	3	45	0	26	1353	0	2519	0	39 88	0
-7	Impropello	eic inc	ingto the em	Software con	and he die our	MEAL DEVILORITIES	activity for	Montania	Lidianton c	45 (Ca) et	v do lervous			673	- 441			

(a) For zoonotic salmonellosis indicate the scrotypes covered by the control programmes: (a1) for salmonella cuteritidis, (a2) for salmonella typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and eradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.

(c) Total number of flocks existing in the region including eligible flocks and non-cligible flocks for the programme.

(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more than once.

(e) If a flock has been checked, in accordance with foomote (d), more than once, a positive sample must be taken into account only once.

Salmonella infantis

Salmonella Mbandaka

Salmonella Livingstone Salmonella Thomson S.Thom.

Salmonella O7 serov. S.07

Salmonella Błockley S.Bl. S. Senf.

Salmonella Senttenberger

Stratified data on surveillance and laboratory tests

Stratified data on surveillance and laboratory tests (one table per year and per disease/species) 6.2.1.

Year: 2009.01.01.-13.31.

Animal species (*): Gallus gallus

Category*0; layer

Description of the used scrological tests: following the Kaufmann-White scheme

Description of the used microhiological or virological tests: ISO 6579/2002

Description of the other used tests:

	Scrological tests	caltests	Microbiological or virological tests	r virological tests	Other tests	rtests
Region ^{co}	Number of samples tested ⁽³⁾	Number of positive samples!	Number of samples tested ¹⁶	Number of positive samples ^{te)}	Number of samples resteates	Number sar
Total	126	126	2039	126		
				:		
Total						

Animal species if necessary.

Category/further specifications such as breeders, laying hens, broilers, breeding turkeys, broiler turkeys, breeding pigs, slaughter pigs, etc., when appropriate,

Region as defined in the approved control and eradication programme of the Member State. Number of samples tested.

<u>මෙළිවෙළි</u>

6.3. Data on infection (one table per year and per species)

2009 Animal species (2)

Year:

<u> </u>	Region ⁽¹⁾	Number of herds indected ⁽²⁾	Number of animals infected
:			
1			
	Total	95	210012
ම ව ව	Animal species if necessary. Region as defined in the control and eradication programme of the Member State.	gramme of the Member State.	
_	HELDS OF HOURS OF HOLDINGS AS Appropriate.		

Annual species in necessary.

Region as defined in the control and eradication programme of the Member State.
Herds or flocks or holdings as appropriate.

7. Targets

7.1. Targets related to testing

7.1.1. Targets on diagnostic tests

Number and specification of tests

Mandatory testing will be performed in all laying flocks of Gallus gallus during their whole life span. A preliminary calculation was made on the approximate number of tests to be performed in the flocks. The number of tests calculated is based on the total of flocks containing more than 1000 hens (what is 886 at the moment according to the register) and the testing scheme as provided for in the Annex to Commission Regulation No. 1168/2006 of 31. July 2006 implementing Regulation No. 2160/2003 as regards a Community target for reduction of prevalence of certain salmonella scrotypes in laying flocks of Gallus gallus and amending Regulation (FC) No 1003/2005. The Annex of the above mentioned Regulation requires all relevant laying flocks to be tested two times during the rearing period and further testing on every fifteenth week during the whole production period. Laying flocks are kept usually until the age of 72 weeks. The production period begins when the flock is 22 weeks of age. In some cases the production lasts then until the end of the 84th weeks of the life, however when calculating the number of tests to be performed in this programme, this possibility could not be taken into account. In Hungary, laying flocks are typically kept in cages which makes the taking samples form the houses the most effective way of detecting possible infection (see sampling protocol below). Using the above numbers and the testing scheme specified in the Regulation, each laying flock will be sampled and tested approximately 7 times during the year. During each sampling time two boot swab samples will be taken and sent into the laboratory, and polled into one sample.

the free range and alternative flocks number about 225. The total number of samples to be taken in the frame of routine and official sampling is 896*5+178*2 x 2 - 5192 *2 samples, in cage flocks, 2 × 150 grams of naturally pooled facces shall be taken, and 225x7-1575, hecause the two boot swahs will pooled into one laboratory sample. Summary there will be 6767laboratory isolates are expected to be tested for the detection of Given that in Hungary there are 1074 laying flocks under the programme (896 production flocks and 178 rearing flocks) (~ 7000000 animals), and Salmonella spp. The number of official laboratory isolates will be nearly 2242 ((896x2)+(225x2)) In addition, when a flock is tested positive, some cases confirmatory sampling will take place and additional birds selected from the flock. Based on the latest data, approximately 3.16 % of the flocks are infected with one or more of the 2 most relevant Salmonella serotypes and summary there were 7,35% positive flocks, confirmatory test numbers will be nearly 60 (2 isolates/samples- boot swabs, birds, faeces materials, etc.). The positive samples number was ~ 90, in 2009. Summary nearly 6830 (67674-60) laboratory isolates are expected to be tested for the detection of Salmonella

Serotyping will be performed from each positive isolate. Positivity is expected to be detected in 7,35% of the flocks, we expected nearly 90 positive sample/year.

However, an exact number of tests which will be performed is not possible, because the time when the flock becomes infected can not predicted.

7.1.2. Targets on testing of flocks³

2011 Situation on date:

Year:

Animal species: Gallus gallus, laver	allus gallus, E		Disease:(4), zoonotic salmonella	gonotic saln					:							
Rogion (a.1)	Type of flock ^(b)	Taral number of Ilocks ^{ie)}	Total number of animals	Total number of llocks under the programm	Total Total Total number flocks of enimals under the programme	Number of flocks chacked ¹⁰	Number Number of positive rd flocks ^{to} of flocks duscked ^{t⊕}	f positive ^{ra}	Bocks ⁽³⁾	Number of flocks depopulated ^(a)		Total commer of animals slaughtered or destroyed (4)		Quantity of eggs dostroyed (number) of	Channiny of Cggs channelled to cagg products (number)	s s cd to lacts
				υ			(al)	(32)	(8.3)	(82) (83) (84)		(3•f)	(a 3)	(a (a4) (a3)	(Fig.	} વસ
Total	Laying hen Nocks	1074	10218964 : 1074	1074	! 10218964	1074	3.1	3	4.5	0	36	221200	0 6122 0	0 6	3988780	0

(a) For zomotic salmonelloxis indicate the serotypes covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimurium, (a3) for other serotypesspecify as appropriate, (a4) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and eradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.

(c) Total number of Bocks existing in the region including eligible Bocks and non-eligible Bocks for the programme.

(d) Check means to perform a flock level test under the programme for the prosunce of sulmonella. In this column a flock must not be counted twice even if it has been checked more than once.

(e) If a flock has been checked, in accordance with fnotnote (d), more than once, a positive sample must be taken into account only once.

Specify types of flocks if appropriate(breeders, layers, broilers).

7.2. Testing scheme

Festing scheme as provided for in the Annex to Commission Regulation No. 1168/2006 of 31. July 2006 implementing Regulation No. 2160/2003 as regards a Community target for reduction of prevalence of certain salmonella serotypes in laying flocks of Gallus gallus and amending Regulation (EC) No 200/2010 will be used.

Details of the testing scheme are the following:

1. Sampling frame

The sampling frame shall cover all flocks of adult laying hens of Gallus gattus (faying flocks) referred to in Article 1 of Regulation (EC) No 2160/2003.

- Monitoring in laying flocks
- 2.1. Frequency and status of sampling

Laying flocks shall be sampled at the initiative of the food business operator (operator) and by the competent Directorate of Food Chain Safety and Animal Health of County Agricultural Office. Sampling at the initiative of the operator shall take place at least every fifteen weeks. The first sampling shall take place at the age of 24 ± 2

Sampling by the competent authority shall take place at least:

- (a) in one flock per year per holding comprising at least 1 000 birds;
- (b) at the age of 24 ± 2 weeks in laying flocks housed in buildings where salmonella was detected in the preceding flock;
- (c) in any case of suspicion of Salmonella Enteritidis or Salmonella Typhinurium infection, as a result of the epidemiological investigation of food-borne outbreaks in accordance with Article 8 of Directive 2003/99/EC of the European Parliament and of the Council;

- (d) in all other laying flocks on the holding in case Salmonella Enteritidis or Salmonella Typhimurium are detected in one laying flock on the
- (e) in cases where the competent Directorate of Food Chain Safety and Animal Health of County Agricultural Office considers it appropriate.

A sampling carried out by the competent authority may replace one sampling at the initiative of the operator.

2.2. Sampling protocol

In order to maximise sensitivity of sampling, both faccal material and the environment shall be sampled at least as provided for in (a) and (b):

- (a) In cage flocks, 2 × 150 grams of naturally pooled faces shall be taken from all belts or scrapers in the house after running the manure removal system; however, in the case of step cage houses without scrapers or belts 2 × 150 grams of mixed fresh faeces must be collected from 60 different places beneath the cages in the dropping pits.
- (b) In barn or free-range houses, two pairs of boot swabs or sucks be taken, without changing overboots between boot swabs.

In the case of sampling by the competent authority, 250 ml containing at least 100 gram of dust shall be collected from prolific sources of dust throughout the house. If there is not sufficient dust, an additional sample of 150 grains naturally pooled facees or an additional pair of boot swabs or socks shall be taken. In the case of sampling referred to in point 2.1(b), (c) and (d), the competent authority shall satisfy itself by conduction further tests as appropriate that the results of examinations for salmonella in birds are not affected by the use of antimicrobials in the flocks.

effect are it shall be accounted for as an infected laying flock for the purpose of the Community target referred to in Article 1 (2) of Commission Where the presence of Salmonella Enteritidis and Salmonella Typhimurium is not detected but antimicrobials or bacterial growth inhibitory Regulation 1168/2006/EC.

3. Examination of the samples

3.1. Transport and preparation of the samples

Samples shall be sent by express mail or courier to the laboratories referred to in Article 11 of Regulation (EC) No 2160/2003, on the day of collection. At the laboratory, samples shall be kept refrigerated until examination, which shall be carried out within 48 hours following receipt.

3.1.1. Boot swab samples

- (a) The two pairs of boot swabs ("or socks") shall be carefully unpacked to avoid distodging adherent faecal material, pooled and placed in 225 inl Buffered Peptone Water (BPW) which has been pre-warmed to room temperature;
- (b) The sample shall be swirled to fully saturate it and culture shall be continued by using the detection method in 3.2.

3.1.2. Other faecal material and dust samples

- (a) The faeces samples shall be pooled and thoroughly mixed and a 25 gram sub-sample shall be collected for culture.
- (b) The 25 gram sub-sample shall be added to 225 ml of BPW which has been pre-warmed to room temperature.
- (c) Culture of the sample shall be continued by using the detection method in 3.2.

If ISO standards on the preparation of facces for the detection of salmonella are agreed on, they shall be applied and replace the above provisions on sampling preparation.

3.2. Detection method

The method recommended by the Community Reference Laboratory (CRL) for Salmonella in Bilthoven, the Netherlands, for detection shall be used. This method is described in the current version of draft Annex D of ISO 6579 (2002): 'Detection of Salmonella spp. in animal facces and in samples of the primary production stage". In this method, a semi-solid medium (modified semi-solid Rappaport-Vassiladis medium, MSRV) is used as the single selective enrichment medium.

3.3. Scrotyping

At least one isolate from each positive sample shall be serotyped, following the Kaufmann-White scheme,

3.4. Alternative methods

(1), may be used instead of the methods for the preparation of samples, detection methods and serotyping provided for in point 3 of this Annex, With regard to samples taken at the initiative of the operator, the methods of analysis provided for in Article 11 of Regulation (EC) No 882/2004 if validated in accordance with EN/ISO 16140/2003,

3.5. Storage of strains

At least the strains isolated from samples collected by the competent authority, shall be stored for future phagetyping or anti-microbial susceptibility testing, using the normal methods for culture collection, which must ensure integrity of the strains for a minimum of two years.

4. Results and reporting

A laying flock shall be considered positive for the purpose of verifying the achievement of the Community target, where the presence of laying flocks shall be counted only once, irrespective of the number of sampling and testing operations and only be reported in the first year of Salmonella Enteritidis and Salmonella Typhimurium (other than vaccine strains) was detected in one or more samples in the laying flock. Positive detection.

Reporting shall include:

- (a) the total number of flocks of laying hens tested and the number of laying flocks tested for each status of sampling referred to in point 2.1;
- (b) the total number of infected flocks and the results of the testing for each status of sampling referred to in point 2.1;
- (c) explanations on the results, in particular concerning exceptional cases.

The results referred to in this point and any additional relevant information shall be reported as part of the report on trends and sources provided for in Article 9(1) of Directive 2003/99/EC.

7.3. Targets on vaccination or treatment

According to Commission Regulation (EC) No 1177/2006 vaccination is not compulsory in laying flocks of Galhus gallus. The rules on using vaccination and treatment are laid down in Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry.

Page 34/36

Cammunity funding requested (yes/no)),es yes yes 785 ZaV, è Ę Total amount in € 140000 330000 700000 320550 67300 1000 4000 cost 0.05 1.0 0.1 Unitary in € 5 5 \$ 8 Number of units 14,000,000 7000000 7000000 13560 6411 100 8 Cost of the administration (approx. 5000000 animals) Test: modified ISO 6579 (2002) using MSRV planned to be carried out in the framework of official sampling Test: serotyping planned to be carried ouf in the framework of official sampling Cost of the vaccine of approx. 7000000 animals two times costs of sampling of approx. 178 flocks, 2 times 896 flocks 5 times, 225 flocks 7 times during 2010 = sample ö Cost of the distribution (approx. 5000000 animals) official samples of verifying the efficiency desinfaction Specification 2.1. Purchase of vaccina/treatment of 2. Vaccination or treatment of 2.3. Administering costs 1.1. Cost of the analysts 2.2. Distribution costs 1.2. Cost of sampling animal products Costs related to 2.4. Control costs animal products 1.3. Other costs 1. Testing

8. Detailed analysis of the cost of the programme

3. Slaughter and destruction	· 	<u> </u>			
3.1. Compensation of animals	Cost of the compensation of the positive animals, approx, 7000000x0.0283=198100 animals	227200		973280	yes
3.2. Transport costs	Slaughtering of infected flocks can only be authorised when meat from these flocks is treated according to specific food safety legislation. Therefore, slaughter is not likely to be parformed at regular contracted slaughterhouses, which makes transport costs much higher than usual. approx. 700000046.0,0318=198100 animals, 2	442400	0.04	17696	ou
3.3. Destruction costs	Cost of the destruction approx. 7000000x0.0283=198100 animals animals, 2 kg/enimal	442400	0.2	98480	
3.4. Loss in case of staughtering	This loss is estimated to be of a large extent. However, the losses due to the early sleughter of the flock and the decreased income due to eggs, which could not be produced, are very hard to estimate.				
3.5 Costs from freetment of products (milk, eggs, hatching eggs, etc)	In 2009 nearly 4 million eggs were heatreatened or destroyed	4000000	80'0	320000	yes
4. Cleaning and disinfection	When taking into account the number of flocks (1074) and the infection rate (T,35%), an approximate number of ~ 100 flocks to be cleansed and disinfected can be estimated. Cleansing and disinfection of an average flock depends on several factors, however an approximate amount of costs is given.	190	200	20000	. 6
Cost of official samples after disinfection	Test: modified ISD 6579 (2002) using MSRV planned to be carried out in the framework of official sempling affer disinfection(in the case of SEST infection)	100	10	1000	yes
5. Salaries (staff contracted for the programme only)			<u> </u>		

6. Consumables and specific equipment 7. Other costs Total Total
--

Annex

In the frame of the Salmonella control programme in laying flocks of Gallus gallus the provisions of paragraph 1 and 2 (frequency of sampling) 4 (results and reporting) of Annex of Commission Regulation (EC) No 1168/2006 (particularly provisions on exceptional cases) are implemented.



Central Agricultural Office Animal Health and Animal Welfare Directorate

HUNGARY

Application

for Community financing for the national control programme of Hungary for

Salmonella spp. in broiler flocks of Meleagris gallopavo

for the year 2011.

30th of April, 2010

Part A

General requirements for the national salmonella control programmes

- (a) The main objective of the programme is to comply with existing Community legislation, to achieve Community prevalence targets within the defined time period available as regards broiler flocks of Meleagris gallopavo in the territory of Hungary. The target is to reduce the prevalence to 1 % or less of Salmonella Enteritidis and Salmonella Typhimurium (the relevant salmonella serotypes).
- (b) Protection against salmonellosis is mandatory pursuant to the relevant EU provision as of 1 January 2010. A Decree was created and came into force on the 7th of January, 2008, Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis. This Decree was repealed and a new Decree came in force on the 6th on January 2010 (Decree 180/2009. (XII. 29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis (hereinafter: "Decree"). The aim of creating the first Decree was to ensure compliance with the changes in the Community legislation. The Decree sets the conditions of the obligatory control measures in breeding, laying and broiler flocks of Gallus gallus and voluntary (mandatory from 2010) measures in breeding and broiler flocks of Meleagris gallopavo against specified Salmonella scrotypes. The Decree complies with the minimum sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council¹ indicating the relevant animal population and phases of production which sampling cover

rearing flocks -- day-old chicks (national legislation)

adult broiler flocks - birds leaving for slaughter

The new Decree was issued, because sampling of turkey flock became mandatory. Also, the structure of the Decree is new and experiences regarding the implementations of the Programmes were built in.

More information about testing scheme: please see Part B Chapter 7.2

- (c) The Decree compiles with the specific requirements laid down in Parts C. D and E of Annex II to Regulation (EC) No 2160/2003
- (d) 1 General
- 1.1. The short summary referring to the occurrence of the salmonellosis [zoonotic salmonella] in Hungary with specific reference to the results obtained in the framework of monitoring in accordance with Article 4 of Directive 2003/99/EC of the European Parliament and of the Council², particularly highlighting the prevalence values of the salmonella scrovars targeted in the salmonella control programmes: Please see Part B Chapter 2.
- 1.2. The structure and organization of the relevant competent authorities: Please see Annex I.
- 1.3. Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate (formerly named: National Food Investigation Institute), Central Agricultural Office). The NRL is in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for co-operation with the Community Reference Laboratory in Bilthoven (NL).
- 1.4. Methods used in the examination of the samples in the framework of the programme: Please see Part B Chapter 7.3

O3 L 325, 12.12.2003, p. 1.

² OJ I. 325, 12.12.2003, p. 31.

- 1.5. Official controls (including sampling schemes) at feed, flock and/or herd level; Please see Part B Chapter 7.2.1.
- 1.6. Measures taken by the competent authorities with regard to animals or products in which the presence of *Salmonella spp.* have been detected, in particular to protect public health: Please see Part B Chapter 4.4.3, and Chapter 4.4.4.
- 1.7. National legislation relevant to the implementation of the programme, including national provisions concerning the activities set out in the programme: Please see Part B Chapter 4.4.7
- 1.8. Financial assistance provided to food and feed businesses in the context of the programme: Costs and benefits are calculated based on the previous year's data of the Poultry Product Board of Hungary. In the case of broiler flocks of Meleagris gallopavo costs will occur from the intensive sampling of the flocks as well as the tests performed on the samples (including both testing on the initiative of the operator and the veterinary authority), the measures to be applied in the case of infection (slaughter or killing of the flock, condemnation, transportation, cleansing and desinfection) as well as financial losses due to decreased income for the poultry industry.

Act No. XI.VI. of 2008, on the food chain and its official control and Decree No. 45/2010 (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses and Decree No. 148/2007. (XII.7.) on the prevention of certain animal diseases and the order of claiming financial support and payment regarding their overcome in 2010 give the financial guarantee of the national programme.

In case of a positive flock, when compensation occurs, valuation of the birds is performed by the district chief veterinary officer according to a scale provided by the Poultry Product Board. It is based on a calculating system, where the day-old chicks' price is considered as 100%, and the value of a bird depends on its production cycle and age (given in percentage)

Valuation/valorisation of birds is calculated based on the previous year's data of the Poultry Product Board of Hungary. Table containing these data is sent to the central veterinary office.

Concerning food and feed businesses covered by the programme

2.1. The structure of the production

Broiler flocks are kept usually until the age of 112-154 days (depending on the technology and the sexual status). As cleansing take place after every flock, each year 2,5 flocks can be reared in a certain airspace in average.

2.2. The structure of the production of feed.

Feeding of poultry, including broiler flocks of Meleagris gallopavo is based on cereal products, mainly on corn, barley and wheat. Soybean and fishmeal is used as a source of protein.

Commercial feed producers are operating according to GMP standards. Broiler flocks mainly use commercial pelleted feed, the technology of production of which includes heat treatment.

In Hungary, control of feedingstuffs is performed according to two main piece of legislation: Act No. XLVI, of 2008 on the food chain and its official control, Governmental Decree 274/2006 (XII. 23) on the establishment and operation of the Central Agricultural Office and Decree of the Ministry of Agriculture and Rural Development No. 43/2003. (IV. 26.) on the implementation of the above Act.

In the Act general principles of the control of feed are laid down general principles of the control of feed, sets the competent authorities and allocates the tasks to these services.

Feed production plant may be authorised by the competent regional organization (County Directorate of Food Chain Safety and Animal Health) of the Central Agricultural Office. The authorisation must be renewed at periods of a maximum of 5 years. Other authorities are also involved in the authorisation process.

The registration of the feed production units is done by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

The Act states that the feedingstuffs produced may neither pose a direct health risk to live flock, nor an indirect risk to public health.

Therefore, the competent Directorate of Food Chain Safety and Animal Health of County Agricultural Office perform regular controls of the feed production plants, including the production, keeping, marketing, transport and use of feed produced. Controls also include compliance with feed hygiene rules, safety, composition, microbiological safety of feedingstuffs, as well as many other parameters such as the presence of prohibited substances, packaging, labelling etc.

In case of non-compliance with any of the parameters listed in the Act and the Decree, the competent County Directorate may prohibit the production, keeping, marketing, transport, export, import or transport of the relevant feed. If such feed was already used, the Directorate of Food Chain Safety and Animal Health of County Agricultural Office has a duty to notify the county level public health authority.

The Decree gives detailed instruction to authorities and stakeholders on how to implement the Act. Annex 20 to the Decree sets out the maximum tolerable amount of Salmonella spp. in food and the related ISO standards. According to ISO 6579:2002, feedingstuffs must show zero Salmonella spp. / 25 grams.

In addition, the same Annex states that feedingstuffs must be free of any pathogens which may pose a direct risk to animal health and/or an indirect risk to public health.

2.3. Relevant guidelines

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The

guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. The guideline for the new decree is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

2.4. Routine veterinary supervision of farms:

Controls are planned annually by the Food Chain Safety Deputy President of Central Agricultural Office. Number of controls depends on risk assessment.

An official veterinarian can also perform on-spot checks when taking samples, but it is not necessarily connected. Inspections are performed based on a national program.

2.5. Registration of farms:

All poultry farms have to registered according to Decree no. 119/2007. (X.18) of MARD on keeping places, breeding farms and national registration system of their data if they meet the relevant criteria. For more information please see Part B Chapter 4.4.1.

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- which sends poultry directly to the slaughterhouse
- which have a slaughtering permit for small producers.

2.6. Record-keeping at farms: All documents concerning to the programme must be kept for 3 years. The documentation has to contain all data about animals, tests, transports, samples and medication

Documents to accompany animals when dispatched.

Commercial poultry consignments are accompanied with animal health certificates according to Directive 90/539/EC. Consignments with national destinations are accompanied with animal health certificates according to Decree 41/1997. (V. 28.) FM appendices 8/a and 8/b.

In accordance with Paragraph 85, of Decree No 41/1997, of the Minister of Agriculture on the publication of the Animal Health Code, the official veterinarian carries out a flock examination within 12 hours before transportation, and on the basis of the

financing/allowance plan, fills out the animal health certification in the appendices 8/a. and 8/b., certifies the place of origin of the day-old animals, their circumstances free from epidemic, the name of the vaccine used, the time and method of the immunization. Because of the changes occurred since the publication of the legislation, this ordinance cannot be fulfilled in these days.

"Animals can only be transported when accompanied by a valid certification attested by the veterinarian responsible for treatment" in accordance with point 4.2.1, point (Starting of poultry consignments) of the guide which was prepared for poultry hatcheries that are obliged to TIR registration, in accordance with point d) of Paragraph 6, of Decree No 120/2007. (X. 18.) of the Minister of Agriculture and Rural Development on establishing and operating of the Poultry Information System (hereinafter: BIR regulation). In pursuance with point 4.2.1., "The hatchery starting the consignment has to fill in the Poultry movement form 2740, on the upper part of which the data of starting has to be given".

The poultry animal health certificate laid down in the BIR regulation is not to replace the certificate 8/b., as the authority responsible for animal health takes part in issuing the latter only.

At the same time, even the certification 8/a, can not be replaced by the introduction of the BIR regulation, as certain data that have to be certified by the veterinarian in the certificate 8/a are not placed on the latter, for example immunizations carried out in the flock, diagnostic examinations and the results thereof.

In pursuance of the abovementioned regulations, all three certifications are required for the transport of the day-old poultry. The BIR certification is drawn up by the veterinarian responsible for treatment, while certifications 8/a, and 8/b, are filled in by the approved veterinarian, in accordance with the Governmental Decree No 113/2006. (V. 12.) on the competence and detailed rules of the activity of the approved veterinarian, with the exception of the case when the approved veterinarian is not the treating veterinarian, because in those cases the certification 8/a, has to be filled in by the veterinarian of the hatchery.

As it can be seen from above, the current legislation of movement documentations doesn't seem to be unambiguous as regards several points.

For solving the problem, a working group was established. The working group is predestined for revising the form and content of certificates for inland live animal transportation and as far as possible, for the harmonisation thereof.

2.8. Other relevant measures to ensure the traceability of animals, Please see Part A 2.7, and Part B Chapter 4.2, and Chapter 4.4.1.

At central level three persons are responsible for the TRACES, of which one is responsible for the technical part (for example: giving access to the system). The two other colleagues (one at MRD and one at CAO) are the trade contact points of Hungary and are keeping the contact wit the counterparts of the member states.

Part B

1. Identification of the programme

Member State: Ilungary

Disease: Infection of animals with zoonotic Salmonella spp.

Animal population covered by the programme: Broiler flocks of Meleagris gallopavo

Year of implementation: 2011

Reference of this document: 02.3/982/5/2008.

Contact (name, phone, fax, e-mail): Dr. Imre Nemes

Director

Animal Health and Animal Welfare Directorate

Central Agricultural Office Tel: +36-1-460-6300 ext. 112

Fax: +36-1-222-6064 c-mail: nemesi@oai.hu

Date sent to the Commission: 30th of April, 2010

2. Historical data on the epidemiological evolution of zoonotic salmonellosis specified in point 1

Monitoring and control programmes for Salmonella spp. (S. Enteritidis and S. Typhimurium) started in Hungary in 1997 by issuing official guidelines for the poultry sector. The goal of the project was to achieve similar targets as which were set by Council Directive 92/117/EEC. The collection of guidelines were ordered by the Ministry of Agriculture and were prepared by an expert group consisting of both Hungarian experts of various backgrounds (Hungarian Academy of Science, National Food Investigation Institute, Central Veterinary Institute and numerous practicing veterinarians) and experts of the Agri-Livestock Consultant Ltd (W. Edel and C. Wray). The work was financed by the PHARE programme of the European Union under project No. Httl 9304-05-02. The programme covered the whole poultry sector in relation of Gallus gallus, breeding flocks, hatcheries, broiler flocks, table egg producing layer flocks, egg packaging and distribution establishments, poultry slaughterhouses, cutting plants as well as feed mills. Because of the similarities the statements of this study can be used for the turkeys as well. The guidelines stated clearly that there is an urgent need for centralised official administrative measures in the form of a ministerial decree by the Minister of Agriculture.

The first decree was created in the year 2002: Decree 49/2002. (V. 24.) of the Minister of Agriculture and Rural Development on protection against salmonellosis and poultry typhus and on retaining officially free status, and was modified by the Decree 97/2003. (VIII. 19) Minister

of Agriculture and Rural Development. A new Decree was created and came into force on the 7th of January, 2008, and can be referred to as Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis. The aim of creating the new Decree was to ensure compliance with the changes in the Community legislation.

Decree 2/2008 of MARD set the conditions of the obligatory control measures in breeding, laying and broiler flocks and voluntary (mandatory from 2010) measures in breeding and broiler flocks of Meleagris gallopavo against specified Salmonella serotypes. As a prerequisite, there is an obligation of the holdings keeping broiler flocks of Meleagris gallopavo to be registered by the State Veterinary Service. Results of testing required by the Decree are also to be notified to the Directorates of Food Chain Safety and Animal Health of County Agricultural Office (formerly named: County Animal Health and Food Control Service). Decree 2/2008 of MARD had been amended 5 times till it was repealed and replaced by Decree 180/2009 of MARD (hereinafter referred as 'Decree') as of 6th of January, 2010. The new Decree covers the same area, but the structure of it was modified and enhanced based on experience.

The baseline study of the prevalence of Salmonella spp. in broiler flocks of Meleagris gallopavo carried out according to Commission Decision 2006/662/EC shows that infection of broiler flocks for Salmonella Enteritidis and Salmonella Typhimurium is 3,4%. According to monitoring tests carried out infection with any Salmonella scrotype is 81,2%. The Community target which is set by Commission Regulation No 584/2008 (EC) Art. (1) of flocks of broilers remaining positive of Salmonella Enteritidis and Salmonella Typhimurium is 1% or less by 31 December 2012. This goal can only be achieved by a rigorous control programme using extensive professional and financial resources.

3. Description of the submitted programme

The main objective of the programme is to comply with existing Community legislation to achieve Community prevalence targets within the defined time period available as regards broiler flocks of Meleagris gallopavo in the territory of Hungary. The European legislation set targets of Salmonella Enteritidis and Salmonella Typhimurium (according to Commission Regulation No 584/2008 (EC), with effect from 84 months after entry into force of Regulation (EC) No 2160/2003 of the European Parliament and of the Council, fresh poultry meat from broiler flocks of Gallus gallus may not be placed on the market for human consumption unless absence of Salmonella in 25 grams.

All broiler flocks of Gallus gallus included in the programme are registered in the territory of Hungary.

Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate, Central Agricultural Office) The NRL will be in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for co-operation with the Community Reference Laboratory in Bilthoven (NL).

4. Measures of the submitted programme

4.1. Summary of measures under the programme of the broiler flocks

Duration of the programme:	
First year: 2009	Last year: 2011
⊠ Centro!	.: Control/Cradication
 ✓ Testing ✓ Slaughter of positive animals ✓ Killing of positive animals ✓ Vaccination I Treatment ✓ Disposal of products 	 □ Testing □ Slaughter of positive animals □ Killing of positive animals □ Extended slaughter or killing □ Disposal of products

☑ Monitoring or surveillance

- (Other measures (specify): Because many times we can not find any slaughterhouse for slaughter the positive flocks, in that cases we need to use the "killing of positive animals".
 - After emptying the relevant holding (infected with SE/ST) operators are required
 to implement proper cleansing and desinfection. Effectiveness of the procedure is
 controlled by the competent regional animal health authority. Restocking is only
 authorised, when cleansing and desinfection is deemed to be satisfactory.

4.2. Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme:

All holdings must be registered at the district veterinary office. The official senior veterinary officer keeps and updates the record of holdings participating the programme. The official senior veterinary officer also declares the status of the holdings according to their actual serological status.

The 19 Directorates of Food Chain Safety and Animal Health of County Agricultural Offices coordinate and supervise the programme in their territory. They are required to annually report the actual status of the programme to the Animal Health and Animal Welfare Directorate of the Central Agricultural Office.

Name: Central Agricultural Office

Animal Health and Animal Welfare Directorate

Name in Hungarian: Mezőgazdasági Szakigazgatási Hivatal Központ

Állategészségűgyi és Állatvédelmi lgazgatóság

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

Tel.: +36-1-460-6300 Fax: +36-1-222-6065

4.3. Description and delimitation of the geographical and administrative greas in which the programme is to be implemented:

The programme will be implemented on the whole territory of Hungary, from the 1st January 2010.

4.4. Measures implemented under the programme

4.4.1. Measures and terms of legislation as regards the registration of holdings:

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- · which sends poultry directly to the slaughterhouse
- · which have a slaughtering permit for small producers.

According to Paragraph 5, of the Decree the operator is obliged to register for the national control programmes, pursuant to Article 8 (3). Article 8 (3) states that:

A business operator obliged to or voluntarily undergoing control pursuant to paragraph (1) shall apply for participation in the national control programme by submitting an epidemiological action plan approved by the private veterinarian responsible for the supervision of the poultry flock or hatchery at the competent district office by virtue of the location of the holding site, which shall register the business operator in accordance with Article 3(4) (a).

4.4.2. Measures and terms of legislation as regards the identification of animals: -

4.4.3. Measures and terms of legislation as regards the notification of the disease:

According to point 7 of paragraph 9 of the Decree:

The laboratory shall immediately notify the district office and the veterinarian taking the sample of the test results and - in the event of positive results - the business operator and the regional organization of the CAO as well. In the event of positive results the laboratory shall send the isolated strain for confirmatory testing and scrotyping together with one original copy of the sampling form to the NRL. The testing laboratory must retain the copy of the sampling form for three years.

4.4.4. Measures and terms of legislation as regards the measures in case of a positive result:

In the frame of the Salmonella control programme in **turkeys** the provisions of CR No 584/2008/EC paragraph 1/2/4 are implemented.

Procedure in the event of positive test results

Article 11

- (1) If the sample taken from a flock of breeding hens, a flock of laying hens or a flock of breeding turkeys results positive the operator shall revise the epidemiological action plan within 22 working days and shall resubmit it to the District Office for approval. The revised plan shall contain the review of the hygiene conditions, especially the efficiency of the desinfection and pest control procedures, the results of the test to find possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 22 working days and may ask the operator to amend it if they find it unsatisfactory.
- (2) If a sample taken at a flock of broilers and fattening turkeys results positive the business operator shall revise the epidemiological action plan within 11 working days of receiving the result and shall resubmit it to the District Office for approval. The action plan shall contain the review of the hygiene conditions; especially the efficiency of the desinfection procedures and of pest control (insect and rodent extermination), the results of the test to identify possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 11 working days and may ask a business operator to amend it if they find it unsatisfactory.
- (3) If the results of salmonella testing of broiler and fattening turkey flocks results positive, there is a rapid method—available on the business operator's request—of excluding infection by Salmonella Enteritidis and Salmonella Typhimurium serotypes at a certified laboratory designated by the CAO using group-specific 'O' antibody. In this case the laboratory which performs the 'O' group typing will send the isolated strain to the NRL for scrotyping.
- (4) If, using the group specific 'O' antibody, infection by Salmonella Enteritidis and Salmonella Typhimurium serotypes can be excluded, then the given flock of broilers or fattening turkeys may be slaughtered by decision of the District Office. Measures pursuant to paragraph (2) and (5) shall be applied at the same time.
- (5) When, during scrotyping, the NRL detects infection with a scrotype other than Salmonella Enteritidis or Salmonella Typhimurium, the District Office shall immediately withdraw the official certificate of infection-free status of the flock, if the operator has one, in respect of the given scrotype. The operator shall clean the site after the production cycle (building, equipment and machinery, connecting rooms and paths) and in accordance with specific piece of legislation on issuing the Animal Health Code for stringent desinfection, rodent extermination and desinsectisation.
- (6) Operators may restock the airspace concerned only if they verify the efficiency of desinfection when an environmental swab sample tests negative in a laboratory. The business operator shall bear the costs of taking and testing environmental swabs.
- (7) If in the case of a flock of breeding hens the NRI, detects infection by a salmonella serotype that is considered a Community target under Regulation (EC) No 1003/2005, Article 12 (9) shall apply in respect of feed and Article 12(8) in respect of restocking of the air space.

Procedure in the event of Salmonella enteritidis or Salmonella typhimurium infection

Article 12

(1) If during scrotyping the NRL detects infection with Salmonella Enteritidis or Salmonella typhimurium the District Office shall order restriction of movement of the flock concerned and the products originating therefrom and shall withdraw the official certificate of infection-free status without delay. The official certificate of infection-free status in respect of other flock

from the holding shall also be withdrawn at the same time unless the infected flock has been appropriately isolated.

- (2) Testing may only be repeated by official sampling ordered by the regional organization of the CAO pursuant to Article 9(1). Sampling for the official test may only be carried out by official or approved veterinarians within the shortest time possible. The NRL shall test the samples and at the same time conduct an examination to detect antimicrobial inhibitory effects. If the result from the repeated sampling is negative or it results in an infection with salmonella serotypes not covered by the national control programmes and no antimicrobial inhibitory effect can be detected, the District Office shall lift the restriction of movement in respect of the flock and the products thereof. If antimicrobial inhibitory effects can be detected the District Office shall investigate the circumstances of the use of antibiotics and maintain the restriction on movement until it is proven that antibiotics were used for purposes other than to treat the infection of salmonella.
- (3) If repeated testing reveals infection by Salmonella Enteritidis or Salmonella Typhimurium or the regional organization of the CAO not orders a repeated test, the flock concerned may be slaughtered after preliminary consultation with the slaughterhouse and the official veterinarian supervising the slaughterhouse and in accordance with the specific veterinary health rules on separate slaughter.
- (4) In the event of infection by Salmonella Enteritidis or Salmonella Typhimurium in a flock of breeding hens and turkeys Annex II/C to Regulation (EC) No 2160/2003 shall apply and Annex II/D to Regulation (EC) No 2160/2003 shall apply to flocks of laying hens.
- (5) Meat from an infected flock may be placed on the domestic market without climinating salmonella if the production processes following the slaughter of the infected flock are separated from the processing and treatment of other raw materials of animal origin and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from slaughtering and processing infected flock shall carry the text "for consumption only after heat treatment (thorough frying or cooking)" clearly and indelibly marked on every smallest packaging unit close to the identification label, close to the traceability marking; and on the accompanying commercial document.
- (6) If meat from infected flock is processed after salmonella climination (heat treatment, heat treatment as part of product manufacturing) the processes following slaughter of the infected flock shall be separated from the processing of other raw materials of animal origin until salmonella has been efficiently climinated, this has been certified and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from infected flock shall earry the text "Originates from salmonella-infected flock" on every smallest packaging unit close to the identification label and the premises traceability marking and may only be used to produce food when the technological manufacturing processes guarantee that the product will be salmonella-free. Every such food item shall be verified by microbiology testing carried out in a laboratory before the are cleared for retail trade and the official veterinarian supervising the slaughterhouse shall be informed thereof. The production plant may place heat treated products certified as salmonella-free on the market on the basis of the results of own checks.
- (7) After the keeping place of the infected flock has been emptied the operator shall provide for cleaning the building, equipment and machinery, connecting rooms and paths and in accordance with specific piece of legislation on the issuing of Animal Health Code for reinforced desinfection, rodent extermination and disinsectisation. The remaining litter shall be disposed of in accordance with special legislation on the treatment of waste of animal origin. After these tasks have been accomplished the business operator shall inform the District Office, which will verify the efficiency of the measures implemented.

- (8) The District Office shall authorise the restocking of the airspace concerned only if the effectiveness of desinfection was verified by environmental swab samples test negative in the laboratory.
- (9) The feed fed to infected flock shall be tested without delay in accordance with the special legislation on the manufacturing, placing on the market and use of feed, except when day-old birds test positive. Until testing yields negative results such feed may only be fed to infected flock. If feed tests positive it has to be disposed of in accordance with the special legislation on the manufacturing, placing on the market and use of feed, and the equipment used for its storage and transportation shall be disinfected. If infection has been detected, specific testing shall be carried out to detect salmonella at the feed operator from which the feed originates.
- (10) Hatcheries to which infected hatching eggs have been transported shall act in accordance with Annex II/C(3) and (5) of Regulation (EC) No 2160/2003 and shall apply the provisions of paragraph (7) and (8). If a hatchery has a certificate of infection-line status the district office shall immediately withdraw this. The hatchery must cooperate in tracing the origins of infection on the basis of its records and shall bear the costs
- 4.4.5. Measures and terms of legislation as regards the different qualifications of animals and herds:

Sec point 4.4.4.!

4.4.6. Control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned:

See point 4.4.4.!

- 4.4.7. Measures and terms of legislation as regards the control (testing, vaccination, etc.) of the disease:
 - -- Regulation (EC) No. 2160/2003, of the European Parliament and of the Council on the control of Salmonella and other food-borne zoonotic agents
 - Commission Regulation (EC) No 584/2008 of 20 June 2008 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards a Community target for the reduction of the prevalence of Salmonella Enteritidis and Salmonella Typhimurium in turkeys
 - Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry
 - Act No. XLVI, of 2008, on the food chain and its official control
 - Decree No. 180/2009. (XII. 29.) of Minister of Agriculture and Rural Development
 - Decree No. 41/1997, (V. 28.) of Minister of Agriculture (Code of veterinary rules)
- 4.4.8. Measures and terms of legislation as regards the compensation for owners of slaughtered and killed animals:
 - Act No. XLVI, of 2008, on the food chain and its official control

- Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses
- 4.4.9. Information and assessment on bio-security measures management and infrastructure in place in the flocks/holdings involved:

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. The guideline for the new decree is under procedure. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

5. General description of the costs and benefits:

Costs are calculated based on estimation and information of the Central Agricultural Office and Poultry Product Board of Hungary. In case of broiler flocks, costs will occur from the intensive sampling of the flocks as well as the tests performed on the samples (including testing on initiative of both the operator and the veterinary authority), the measures to be applied in the case of infection with S. Enteritidis and S. Typhimurium (slaughter or killing of the flock, condemnation, transportation, cleaning and desinfection) as well as financial losses due to decreased income for the poultry industry.

A detailed description of the costs is listed under point 8.

Benefits in case of the successful programme include improved food safety which contributes largely to the achievement of public health goals of the Community.

6. Data on the epidemiological evolution during the last five years

As the control programme started by 1st of January, 2010, evolution data are not yet available.

7. Targets

7.1. Targets related to testing

7.1.1. Targets on diagnostic tests

Number and specification of tests

Mandatory testing will be performed in all registered broiler flocks of turkeys. A preliminary calculation was made on the approximate number of tests to be performed in the flocks. The number of tests calculated is based on the total of flocks containing more than 500 hens (1279 flocks at the moment according to the national register) and the testing scheme as provided for in Commission Regulation No 584/2008 of 20 June 2008 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards a Community target for the reduction of the prevalence of Salmonella enteritidis and Salmonella typhimurium in turkeys.

Broiler flocks are kept usually until the age of 112-154 days (depending on the technology and the sexual status). As cleansing take place after every flock, each year 2,5 flocks can be reared in a certain airspace in average. Sampling of flocks of fattening and breeding turkeys on the initiative of the food business operator shall take place in accordance with Article 5(3) of Regulation (EC) No 2160/2003 within three weeks before the birds are moved to the slaughterhouse. The results remain only valid until maximum six weeks after sampling and therefore repeated sampling of the same flock might be required.

Given that in Hungary are 1279 broiler turkey flocks (~13000000 animals) the total number of samples to be taken is (1279x2,5)+(1279x2,5x3)= 12790 samples (1279x2,5x2=6395 sampling) are expected to be tested for the detection of Salmonella spp. As according to Commission Regulation (EC) No 584/2008 at least two pairs of boot/sock swabs shall be taken and all

boot/sock swabs must be pooled into one sample.) Official samples number will be ~ 1300 ($\sim 10\%$ of the relevant flocks/year).

Based on the baseline study data, 3,4% of the flocks are infected with Salmonella Enteritidis or Salmonella Typhimurium, 81,2% of the flocks are infected with any Salmonella scrotypes.

Scrotyping will be performed from each positive isolate. Positivity is expected to be detected in 81,2% of flocks (1279 x 0.812 = 1038,5), summary 1038,5x2=2077 positive isolate will need serotyping in one production cycle. 2077x2=4154 per year.

However, an exact number of tests, which will be performed, is not possible, because not every operator rears the same amount of flocks every year and we have not got any data about the reinfection of the flocks.

Approximately 13000000 broilers are slaughtered in Hungary a year. Meat originated from Salmonella infected flocks will not be purchased by meat processing plants, therefore compensation is required (13000000 x $0.034 \times 2.3 \in$; about $2.3 \in$ is the price of a broiler to be slaughtered).

7.2. Testing scheme

- Frequency and status of sampling
- (a) The sampling frame shall cover all flocks of fattening and breeding turkeys covered by the scope of Regulation
- (EC) No 2160/2003.
- (b) Flocks of turkeys shall be sampled on the initiative of the food business operator and by the competent authority.

Sampling of flocks of fattening and breeding turkeys on the initiative of the food business operator shall take place in accordance with Article 5(3) of Regulation (EC) No 2160/2003 within three weeks before the birds are moved to the slaughterhouse. The results remain only valid until maximum six weeks after sampling and therefore repeated sampling of the same flock might be required.

Sampling by the competent authority shall include at least:

- once a year, all flocks on 10 % of the holdings with at least 500 fattening turkeys, but in any case:
- --- all flocks on the holding when one flock tested positive for *Salmonella enteritidis* or *Salmonella typhimurium* in samples taken by the food business operator, unless the meat of the turkeys in the flocks is destined for industrial heat treatment or another treatment to eliminate salmonella, and
- all flocks on the holding when one flock tested positive for *Salmonella enteritidis* or *Salmonella typhimurium* during the previous round in samples taken by the food business operator, and
- each time the competent authority considers it necessary.

A sampling carried out by the competent authority may replace the sampling on the initiative of the food business operator.

Sampling protocol

At least two pairs of boot/sock swabs shall be taken. For free range flocks of turkeys, samples shall only be collected in the area inside the house. All boot/sock swabs must be pooled into one sample.

In flocks with less than 100 turkeys, where it is not possible to use boot/sock swabs as access to the houses is not possible, they may be replaced by hand drag swabs, where the boot swabs or socks are worn over gloved hands and rubbed over surfaces contaminated with fresh facees, or if not feasible, by other sampling techniques for facees fit for the intended purpose.

Before putting on the boot/sock swabs, their surface shall be moistened with maximum recovery diluents (MRD: 0,8 % sodium chloride, 0,1 % peptone in sterile deionised water), or sterile water or any other diluent approved by the national reference laboratory referred to in Article 11 of Regulation (EC) No 2160/2003.

The use of farm water containing antimicrobials or additional disinfectants shall be prohibited. The recommended way to moisten boot swabs shall be to pour the liquid inside before putting them on. Alternatively, boot swabs or socks may be autoclaved with diluents within autoclave bags or jars before use. Diluents may also be applied after boots are put on using a spray or wash bottle.

It shall be ensured that all sections in a house are represented in the sampling in a proportionate way. Each pair should cover about 50 % of the area of the house.

Alternatively, the competent authority may decide that one pair of boot swabs shall be taken, covering 100 % of the area of the house if combined with a dust sample, collected from multiple places throughout the house from surfaces with visible presence of dust.

On completion of sampling the boot/sock swabs shall be carefully removed so as not to dislodge adherent material. Boot swabs may be inverted to retain material. They shall be placed in a bag or pot and labelled.

The competent authority shall supervise education of the food business operators to guarantee the correct application of the sampling protocol.

In the case of sampling by the competent authority because of suspicion salmonella infection in a flock on that holding and in any other case considered appropriate, the competent authority shall satisfy itself by conducting further tests as appropriate so that the results of examinations for salmonella in flocks of turkeys are not affected by the use of antimicrobials in those flocks. Where the presence of Salmonella enteritidis and Salmonella typhimurium is not detected but antimicrobials or bacterial growth inhibitory effect are detected it shall be considered as an infected flock of turkeys for the purpose of the Community target referred to in Article 1(2).

Examination of the samples

3.1. Transport and preparation of the samples

Samples shall be sent by express mail or courier to the laboratories referred to in Articles 11 and 12 of Regulation (EC) No 2160/2003, within 24 hours after collection. At the laboratory samples shall be kept refrigerated until examination, which shall be carried out within 48 hours following receipt.

The pair of boot/sock swabs shall be carefully unpacked to avoid dislodging adherent faceal material, pooled and placed in 225 mt buffered peptone water (BPW) which has been pre-warmed to room temperature.

The sample shall be swirled to fully saturate it and culture shall be continued by using the detection method in point 3.2.

If ISO standards on the preparation of facces for the detection of salmonella are agreed on, they shall be applied and replace the provisions on the preparation of samples set out in this point.

3.2. Detection method

The detection method recommended by the Community reference laboratory (CRL) for salmonella in Bilthoven, the Netherlands, shall be used.

That method is described in the current version of draft Annex D of ISO 6579 (2002): "Detection of Salmonella spp. in animal facces and in samples of the primary production stage".

In that detection method, a semi-solid medium (modified semi-solid Rappaport-Vassiladis medium, MSRV) is used as the single selective enrichment medium.

3.3. Serotyping

At least one isolate from each positive sample shall be serotyped, following the Kaufmann-White scheme.

3.4. Alternative methods

With regard to samples taken on the initiative of the food business operator, the methods of analysis provided for in Article 11 of Regulation (EC) No 882/2004 of the European Parliament and of the Council (1), may be used instead of the methods for the preparation of samples, detection methods and scrotyping provided for in points 3.1, 3.2 and 3.3 of this Annex, if validated in accordance with EN/ISO 16140/2003.

3.5. Storage of strains

At least one isolated strain per house and per year shall be collected by the competent authority and stored for future phagetyping or anti-microbial susceptibility testing, using the normal methods for culture collection, which must ensure integrity of the strains for a minimum of two years.

Results and reporting.

4.1. Calculation of prevalence for the verification of the Community target

A flock of broiler turkeys shall be considered positive for the purpose of verifying the achievement of the Community target, where the presence of Salmonella Enteritidis and/or Salmonella Typhimurium (other than vaccine strains) was detected in the flock at any occasion.

Positive flocks of broilers shall be counted only once per round, irrespective of the number of sampling and testing operations and only be reported in the year of the first positive sampling.

4.2. Reporting

Reporting shall include:

- (a) the total number of flocks of broiler turkeys sampled by the competent authority or by the food business operator;
- (b) the total number of infected flocks of broilers;
- (c) all serotypes of Salmonella isolated (including other than Salmonella Enteritidis and Salmonella Typhimurium);
- (d) explanations of the results, in particular concerning exceptional cases.

The results and any additional relevant information shall be reported as part of the report on trends and sources provided for in Article 9(1) of Directive 2003/99/EC of the European Parliament and of the Council.

4.3. Additional information

At least the following information shall be made available from each flock of broilers tested for analysis at national level or by the European Food Safety Authority at its request:

- (a) sample taken by the competent authority or by the food business operator;
- (b) holding reference, remaining unique in time;
- (c) house reference, remaining unique in time;
- (d) month of sampling.

7.3. Targets on vaccination or treatment

Vaccination is not compulsory in broiler flocks of Meleagris gallopavo. The rules of using vaccination and treatment are laid down in Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella in poultry.

Page 20/13

8. Detailed analysis of the cost of the programme

ed to	Specification	Number of units	Unitary cost in €	Total amount in 6	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Fest: modified ISO 6579 (2002) using MSRV planned to be carried out in the framework of official sampling (1279°0,1°2)+official samples of verifying the officiency of desinfection (1279°0,034°2)		10	3470	res
	Test: serotyping (1279*0,1*2*0,81) planned to be carried out in the framework of official sampling	210	40	8400	sa/
1.2. Cost of sampling	costs of sampling of approx. 1279 flocks. 2,5x2 times during 2010 = 6395 sampling sessions	6395	20	319750	yes
1,3, Other costs					
2. Vaccination or treatment of animal products					
2.1. Purchase of vaccine/treatment of animal products					
2.2. Distribution costs					<u> </u>
2.3. Administering costs 2.4. Control costs				!	,
3. Slaughter and destruction]	
3.1. Compensation of animals	Cost of the compensation of the positive animals, approx. 13000000 X 0.034 = 442000 animals	442000	2,3	1016600	yes
3.2. Transport costs	Siaughtering of infected flocks can only be authorised when mast from these flocks is treated according to specific food safety legislation. Therefore, slaughter is not likely to be performed at regular contracted slaughterhouses, which makes transport costs much higher than usual. approx. 13000000 X 0.034 = 442000 animals, 12,5 × kg/animal	5525000	9004	221000	92
3.3. Destruction costs	Cost of the destruction approx. 13000000 X 0.034 = 442000 animals, 12,5 kg/animal	5525000	0.2	1105000	yes

		520000 no	no no	no	OH CH	3194220 2453320 yes
		200				
		1040	<u>;</u>			
This loss is estimated to be of a large extent. However, losses due to the early slaughter of the flock is very hard to estimate.		When taking into account the number of Bocks (1279) and the infection rate (81,2%), an approximate number of 1040 flocks to be cleansed and disinfected can be estimated. Cleansing and desinfection of an average flock depends on several factors, however an aboroximate amount of costs is olven.				Community funding requested
3.4. Loss in case of slaughtering	3. Slaughter and destruction	4. Cleaning and disinfection	5. Salaries (staff contracted for the programme only)	6. Consumables and specific equipment	7. Other costs	



Central Agricultural Office Animal Health and Animal Welfare Directorate

HUNGARY

Application

for Community financing for the national control programme of Hungary for

Salmonella spp. in breeding flocks of Meleagris gallopavo for the year 2011.

 30^{th} of April, 2010

Part A

General requirements for the national salmonella control programmes

- (a) The main objective of the programme is to comply with existing Community legislation, to achieve Community prevalence targets within the defined time period available as regards breeding flocks of Meleagris gallopavo in the territory of Hungary. The target is to reduce the prevalence to 1 % or less of Salmonella Enteritidis and Salmonella Typhimarium (the relevant salmonella serotypes).
- (b) Protection against salmonellosis is mandatory pursuant to the relevant EU provision as of 1 January 2010. A Decree was created and came into force on the 7th of January, 2008, and can be referred to as Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis. This Decree was repealed and a new Decree came in force on the 6th on January 2010 (Decree 180/2009. (XII. 29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis (hereinafter: "Decree"). The aim of creating the first Decree was to ensure compliance with the changes in the Community legislation. The Decree sets the conditions of the obligatory control measures in breeding, laying and broiler flocks of Gallus gallus and voluntary (mandatory from 2010) measures in breeding and broiler flocks of Meleagris gallopavo against specified Salmonella serotypes. The Decree complies with the minimum sampling requirements laid down in part B of Annex II to Regulation (EC) No 2160/2003 of the European Parliament and of the Council indicating the relevant animal population and phases of production which sampling cover

rearing flocks -- day-old chicks

- four-week-old birds
- two weeks before moving to laying phase or laying unit

adult breeding flocks — every second week during the laying period

The new Decree was issued, because sampling of turkey flock became mandatory. Also, the structure of the Decree is new and experiences regarding the implementations of the Programmes were built in.

More information about testing scheme: please see Part B Chapter 7.2

(c) The Decree compiles with the specific requirements laid down in Parts C, D and E of Annex II to Regulation (EC) No 2160/2003

I General

- 1.1. The short summary referring to the occurrence of the salmonellosis [zoonotic salmonella] in Hungary with specific reference to the results obtained in the framework of monitoring in accordance with Article 4 of Directive 2003/99/EC of the European Parliament and of the Council², particularly highlighting the prevalence values of the salmonella serovars targeted in the salmonella control programmes: Please see Part B Chapter 2.
- 1.2. The structure and organization of the relevant competent authorities: Please see Annex I.
- 1.3. Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the

OJ L 325, 12.12.2003, p. 1.

OJ L 325, 12.12.2003, p. 31.

Republic of Hungary (Food and Feed Safety Directorate (formerly named: National Food Investigation Institute), Central Agricultural Office). The NRI, will be in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for cooperation with the Community Reference Laboratory in Bilthoven (NL).

- 1.4. Methods used in the examination of the samples in the framework of the programme: Please see Part B Chapter 7.3
- 1.5. Official controls (including sampling schemes) at feed, flock and/or herd level: Please see Part B Chapter 7.2.1.2.
- 1.6. Measures taken by the competent authorities with regard to animals or products in which the presence of *Salmonella spp.* have been detected, in particular to protect public health: Please see Part B Chapter 4.4.3. and Chapter 4.4.4.
- 1.7. National legislation relevant to the implementation of the programme, including national provisions concerning the activities set out in the programme: Please see Part B Chapter 4.4.7
- 1.8. Financial assistance provided to food and feed businesses in the context of the programme:

 Costs and benefits are calculated based on the previous year's data of the Poultry Product
 Board of Hungary. In the case of breeding flocks of Meleagris gallopavo costs will occur
 from the intensive sampling of the flocks as well as the tests performed on the samples
 (including both testing on the initiative of the operator and the veterinary authority), the
 measures to be applied in the case of infection (slaughter or killing of the flock,
 condemnation, transportation, cleansing and desinfection) as well as financial losses due to
 decreased income for the poultry industry.

Act No. XLVI, of 2008, on the food chain and its official control and Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses and Decree No. 148/2007. (XII.7.) on the prevention of certain animal diseases and the order of claiming financial support and payment regarding their overcome in 2010 give the financial guarantee of the national programme.

In case of a positive flock, when compensation occurs, valuation of the birds is performed by the district chief veterinary officer according to a scale provided by the Poultry Product Board. It is based on a calculating system, where the day-old chicks' price is considered as 100%, and the value of a bird depends on its production cycle and age (given in percentage)

Valuation/valorisation of birds is calculated based on the previous year's data of the Poultry Product Board of Hungary. Table containing these data is sent to the central veterinary office.

Concerning food and feed businesses covered by the programme.

2.1. The structure of the production

Breeding flocks are kept usually until the age of one year (57 weeks). The production period begins when the flock is 33-34 weeks of age. In Hungary, breeding flocks are typically kept in barns and can be structured according to elite, grandparent- and parent flocks, size, and the type of holdings.

The structure of the production of feed.

Feeding of poultry, including breeding flocks of Meleagris gallopavo is based on cereal products, mainly on corn, barley and wheat. Soybean and fishmeal is used as a source of protein.

Commercial feed producers are operating according to GMP standards. Breeding flocks mainly use commercial pelleted feed, the technology of production of which includes heat treatment.

In Hungary, control of feedingstuffs is performed according to two main piece of legislation:

Act No. XLVI. of 2008 on the food chain and its official control, Governmental Decree 274/2006 (XII. 23) on the establishment and operation of the Central Agricultural Office and Decree of the Ministry of Agriculture and Rural Development No. 43/2003. (IV. 26.) on the implementation of the above Act.

In the Act general principles of the control of feed are laid down general principles of the control of feed, sets the competent authorities and allocates the tasks to these services.

feed production plant may be authorised by the competent regional organization (County Directorate of Food Chain Safety and Animal Health) of the Central Agricultural Office. The authorisation must be renewed at periods of a maximum of 5 years. Other authorities are also involved in the authorisation process.

The registration of the feed production units is done by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

The Act states that the feedingstuffs produced may neither pose a direct health risk to live flock, nor an indirect risk to public health.

Therefore, the competent Directorate of Food Chain Safety and Animal Health of County Agricultural Office perform regular controls of the feed production plants, including the production, keeping, marketing, transport and use of feed produced. Controls also include compliance with feed hygiene rules, safety, composition, microbiological safety of feedingstuffs, as well as many other parameters such as the presence of prohibited substances, packaging, labelling etc.

In case of non-compliance with any of the parameters listed in the Act and the Decree, the competent County Directorate may prohibit the production, keeping, marketing, transport, export, import or transport of the relevant feed. If such feed was already used, the Directorate of Food Chain Safety and Animal Health of County Agricultural Office has a duty to notify the county level public health authority.

The Decree gives detailed instruction to authorities and stakeholders on how to implement the Act. Annex 20 to the Decree sets out the maximum tolerable amount of Salmonella spp. in food and the related ISO standards. According to ISO 6579:2002, feedingstuffs must show zero Salmonella spp. / 25 grams.

In addition, the same Annex states that feedingstuffs must be free of any pathogens which may pose a direct risk to animal health and/or an indirect risk to public health.

2.3. Relevant guidelines

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at

farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (f. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

2.4. Routine veterinary supervision of farms:

Controls are planned annually by the Food Chain Safety Deputy President of Central Agricultural Office. Number of controls depends on risk assessment.

An official veterinarian can also perform on-spot checks when taking samples, but it is not necessarily connected. Inspections are performed based on a national program.

2.5. Registration of farms:

All poultry farms have to registered according to Decree no. 119/2007. (X.18) of MARD on keeping places, breeding farms and national registration system of their data if they meet the relevant criteria. For more information please see Part B Chapter 4.4.1.

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means; 2000 broilers or 500 other adult poultry)
- which sends poultry directly to the slaughterhouse
- which have a slaughtering permit for small producers.
- 2.6. Record-keeping at farms: All documents concerning to the programme must be kept for 3 years. The documentation has to contain all data about animals, tests, transports, samples and medication.
- 2.7. Documents to accompany animals when dispatched.

Commercial poultry consignments are accompanied with animal health certificates according to Directive 90/529/EC. Consignments with national destinations are accompanied with animal health certificates according to Decree 41/1997. (V. 28.) FM appendices 8/a and 8/b.

In accordance with Paragraph 85, of Decree No 41/1997, of the Minister of Agriculture on the publication of the Animal Health Code, the official veterinarian carries out a stock examination within 12 hours before transportation, and on the basis of the figaneing/allowance plan, fills out the animal health certification in the appendices 8/a, and 8/b., certifies the place of origin of the day-old animals, their circumstances free from epidemic, the name of the vaccine used, the time and method of the immunization. Because of the changes occurred since the publication of the legislation, this ordinance cannot be fulfilled in these days.

"Animals can only be transported when accompanied by a valid certification attested by the veterinarian responsible for treatment" in accordance with point 4.2.1. point (Starting of poultry consignments) of the guide which was prepared for poultry hatcheries that are obliged to TIR registration, in accordance with point d) of Paragraph 6, of Decree No 120/2007. (X. 18.) of the Minister of Agriculture and Rural Development on establishing and operating of the Poultry Information System (hereinafter: BIR regulation). In pursuance with point 4.2.1., "The hatchery starting the consignment has to fill in the Poultry movement form 2740, on the upper part of which the data of starting has to be given".

The poultry animal health certificate laid down in the BIR regulation is not to replace the certificate 8/b., as the authority responsible for animal health takes part in issuing the latter only.

At the same time, even the certification 8/a, can not be replaced by the introduction of the BIR regulation, as certain data that have to be certified by the veterinarian in the certificate 8/a are not placed on the latter, for example immunizations carried out in the flock, diagnostic examinations and the results thereof.

In pursuance of the abovementioned regulations, all three certifications are required for the transport of the day-old poultry. The BIR certification is drawn up by the veterinarian responsible for treatment, while certifications 8/a. and 8/b. are filled in by the approved veterinarian, in accordance with the Governmental Decree No 113/2006. (V. 12.) on the competence and detailed rules of the activity of the approved veterinarian, with the exception of the case when the approved veterinarian is not the treating veterinarian, because in those cases the certification 8/a. has to be filled in by the veterinarian of the hatchery.

As it can be seen from above, the current legislation of movement documentations doesn't seem to be unambiguous as regards several points.

For solving the problem, a working group was established. The working group is predestined for revising the form and content of certificates for inland live animal transportation and as far as possible, for the harmonisation thereof.

2.8. Other relevant measures to ensure the traceability of animals. Please see Part A 2.7, and Part B Chapter 4.2, and Chapter 4.4.1.

At central level three persons are responsible for the TRACES, of which one is responsible for the technical part (for example: giving access to the system). The two other colleagues (one at MRD and one at CAO) are the trade contact points of Hungary and are keeping the contact wit the counterparts of the member states.

Part B

Identification of the programme

Member State: Hungary

Disease: Infection of animals with zoonotic Salmonella spp.

Animal population covered by the programme: Breeding flocks of turkeys (Meleagris

gallopavo)

Year of implementation: 2011

Reference of this document: 02.3/897/5/2010.

Contact (name, phone, fax, e-mail): Dr. Imre Nemes

Director

Animal Health and Animal Welfare Directorate

Central Agricultural Office Tel: +36-1-460-6300 ext. 112

Fax: +36-1-222-6064 e-mail: nemesi@oai.hu

Date sent to the Commission: 30th of April, 2010

2. <u>Flistorical data on the epidemiological evolution of zoonotic salmonellosis</u> specified in point 1

Monitoring and control programmes for Salmonella spp. (S. Enteritidis and S. Typhimurium) started in Hungary in 1997 by issuing official guidelines for the poultry sector. The goal of the project was to achieve similar targets as which were set by Council Directive 92/117/EEC. The collection of guidelines were ordered by the Ministry of Agriculture and were prepared by an expert group consisting of both Hungarian experts of various backgrounds (Hungarian Academy of Science, National Food Investigation Institute, Central Veterinary Institute and numerous practicing veterinarians) and experts of the Agri-Livestock Consultant Ltd (W. Edel and C. Wray). The work was financed by the PHARE programme of the European Union under project No. HU 9304-05-02. The programme covered the whole poultry sector in relation of Gallus gallus, breeding flocks, hatcheries, broiler flocks, table egg producing layer flocks, egg packaging and distribution establishments, poultry slaughterhouses, cutting plants as well as feed mills. Because of the similarities the statements of this study can be used for the turkeys as well. The guidelines stated clearly that there is an urgent need for centralised official administrative measures in the form of a ministerial decree by the Minister of Agriculture.

The first decree was created in the year 2002: Decree 49/2002. (V. 24.) of the Minister of Agriculture and Rural Development on protection against salmonellosis and poultry typhus and on retaining officially free status, and was modified by the Decree 97/2003. (VIII. 19) Minister of Agriculture and Rural Development. A new Decree was created and came into force on the 7th of January, 2008, and can be referred to as Decree 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis. The aim of creating the new Decree was to ensure compliance with the changes in the Community legislation.

Decree 2/2008 of MARD set the conditions of the obligatory control measures in breeding and broiler flocks of turkeys (mandatory from 2010) measures against specified Salmonella serotypes. As a prerequisite, there is an obligation of the holdings keeping breeding and broiler flocks of turkeys, (*Meleagris gallopavo*) to be registered by the State Veterinary Service. Results of testing required by the Decree are also to be notified to the Directorate of Food Chain Safety and Animal Health of County Agricultural Office (formerly named: County Animal Health and Food Control Service). Decree 2/2008 of MARD had been amended 5 times till it was repealed and replaced by Decree 180/2009 of MARD (hereinafter referred as 'Decree') as of 6th of January, 2010. The new Decree covers the same area, but the structure of it was modified and enhanced based on experience.

As a result of the above mentioned mandatory control in breeding flocks of turkeys, latest data show that infection amongst these flocks is more or less 1%. However, the Community target which is set by Commission Regulation (EC) of 20 June 2008 implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain Salmonella serotypes in breeding flocks of *Meleagris gallopavo* and amending Regulation (EC) No 2160/2003 is a maximum of 1% by 31 December 2012. This goal can be achieved by a rigorous control programme using extensive professional and financial resources.

3. Description of the submitted programme

The main objective of the programme is to comply with existing Community legislation, to achieve Community prevalence targets within the defined time period available as regards breeding flocks of Meleagris gallopavo in the territory of Hungary. The programme covers the two zoonotic Salmonella serotypes most relevant in relation to public health (S. Enteritidis, S. Typhimurium).

Included in the programme are all breeding flocks of Meleagris gallopavo registered in the territory of Hungary.

Laboratories involved in the programme must be accredited by the National Accreditation Body (NAT) and supervised by the National Salmonella Reference Laboratory (NRL) of the Republic of Hungary (Food and Feed Safety Directorate (formerly named: National Food Investigation Institute), Central Agricultural Office). The NRL will be in charge of coordination of the laboratories, the use of appropriate laboratory methods as well as for cooperation with the Community Reference Laboratory in Bilthoven (NL).

4. Measures of the submitted programme

4.1. Summary of measures under the programme

Duration of the programme:

First year: 2010. Last year: 2012 ☑ Control "Eradication" □Testing □ Testing 1. Slaughter of positive animals ☒ Slaughter of positive animals □ Killing of positive animals ■ Vaccination 1. Extended slaughter or killing □ Disposal of products i : Treatment ■ Disposal of products ☑ Monitoring or surveillance

- Other measures (specify):
 - Flocks positive for S. Typhimurium or S. Enteritidis will be subject to movement control. As soon as the NRL confirms the infection, the flock shall be sent to isolated slaughter. Meat originating from such flocks may only be authorised for human consumption after meeting all relevant food safety requirements as regards of the Regulation (EC) No. 2160/2003. Annex II. Point E.
 - Hatching eggs originating from such flocks may only be marketed according to the Regulation (EC) No. 2160/2003, Annex II. Point C.5.
 - After emptying the relevant holding operators are required to implement proper cleansing and desinfection. Effectiveness of the procedure is controlled by the competent regional animal health authority. Restocking is only authorised, when cleansing and desinfection is deemed to be satisfactory.

4.2. Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme:

All holdings must be registered at the district veterinary office. The official senior veterinary officer keeps and updates the record of holdings participating the programme. The official senior veterinary officer also declares the status of the holdings according to their actual serological status.

The 19 Directorates of Food Chain Safety and Animal Health of County Agricultural Offices coordinate and supervise the programme in their territory. They are required to annually report the actual status of the programme to the Animal Health and Animal Welfare Directorate of the Central Agricultural Office.

Central Agricultural Office Name:

Animal Health and Animal Welfare Directorate

Mezőgazdasági Szakigazgatási Hivatal Központ Name in Hungarian:

Állategészségügyi és Állatvédelmi Igazgatóság

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

+36-1-460-6300 Tel.: +36-1-222-6065 Fax:

4.3. Description and delimitation of the geographical and administrative areas in which the programme is to be implemented:

The programme will be implemented on the whole territory of Hungary. The programme is compulsory as from the 1^{st} January, 2010.

4.4. Measures implemented under the programme

4.4.1. Measures and terms of legislation as regards the registration of holdings:

All poultry farms have to registered according to Ministerial Decree no. 119/2007. (X.18) on keeping places, breeding farms and national registration system of their data, which meet one of these criteria:

- has to be registered due to a piece of legislation regarding animal health (such as the national Decree on Salmonella)
- the owner would like to apply for financial support

All commercial poultry farms have to be registered:

- which are considered as large-scale holdings according to a different piece of registration (that means: 2000 broilers or 500 other adult poultry)
- which sends poultry directly to the slaughterhouse.
- · which have a slaughtering permit for small producers.

According to Paragraph 5, of the Decree the operator is obliged to register for the national control programmes, pursuant to Article 8 (3). Article 8 (3) states that:

A business operator obliged to or voluntarily undergoing control pursuant to paragraph (1) shall apply for participation in the national control programme by submitting an epidemiological action plan approved by the private veterinarian responsible for the supervision of the poultry flock or hatchery at the competent district office by virtue of the location of the holding site, which shall register the business operator in accordance with Article 3(4) (a).

- 4.4.2. Measures and terms of legislation as regards the identification of animals: -
- 4.4.3. Measures and terms of legislation as regards the notification of the disease:

According to point 7 of paragraph 9 of the Decree:

The laboratory shall immediately notify the district office and the veterinarian taking the sample of the test results and - in the event of positive results - the business operator and the regional organization of the CAO as well. In the event of positive results the laboratory shall send the isolated strain for confirmatory testing and scrotyping together with one original copy of the sampling form to the NRL. The testing laboratory must retain the copy of the sampling form for three years.

4.4.4. Measures and terms of legislation as regards the measures in case of a positive result:

In the frame of the Salmonella control programme in turkeys the provisions of CR No 584/2008/EC paragraph 1/2/4 are implemented.

According to the Decree:

Procedure in the event of positive test results

Article 11

- (1) If the sample taken from a flock of breeding hens, a flock of laying hens or a flock of breeding turkeys results positive the operator shall revise the epidemiological action plan within 22 working days and shall resubmit it to the District Office for approval. The revised plan shall contain the review of the hygiene conditions, especially the efficiency of the desinfection and pest control procedures, the results of the test to find possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 22 working days and may ask the operator to amend it if they find it unsatisfactory.
- (2) If a sample taken at a flock of broilers and fattening turkeys results positive the business operator shall revise the epidemiological action plan within 11 working days of receiving the result and shall resubmit it to the District Office for approval. The action plan shall contain the review of the hygiene conditions; especially the efficiency of the desinfection procedures and of pest control (insect and rodent extermination), the results of the test to identify possible reasons for infection and the list of measures considered necessary. The District Office shall evaluate the plan within 11 working days and may ask a business operator to amend it if they find it unsatisfactory.
- (3) If the results of salmonella testing of broiler and fattening turkey flocks results positive, there is a rapid method—available on the business operator's request—of excluding infection by Salmonella Enteritidis and Salmonella Typhimurium serotypes at a certified laboratory designated by the CAO using group-specific 'O' antibody. In this case the laboratory which performs the 'O' group typing will send the isolated strain to the NRL for scrotyping.
- (4) If, using the group specific 'O' antibody, infection by Salmonella Enteritidis and Salmonella Typhimurium serotypes can be excluded, then the given flock of broilers or fattening turkeys may be slaughtered by decision of the District Office. Measures pursuant to paragraph (2) and (5) shall be applied at the same time.
- (5) When, during serotyping, the NRL detects infection with a scrotype other than Salmonella Enteritidis or Salmonella Typhimurium, the District Office shall immediately withdraw the official certificate of infection-free status of the flock, if the operator has one, in respect of the given scrotype. The operator shall clean the site after the production cycle (building, equipment and machinery, connecting rooms and paths) and in accordance with specific piece of legislation on issuing the Animal Health Code for stringent desinfection, rodent extermination and desinsectisation.
- (6) Operators may restock the airspace concerned only if they verify the efficiency of desinfection when an environmental swab sample tests negative in a laboratory. The business operator shall bear the costs of taking and testing environmental swabs.
- (7) If in the case of a flock of breeding hens the NRL detects infection by a salmonella serotype that is considered a Community target under Regulation (EC) No 1003/2005, Article 12 (9) shall apply in respect of feed and Article 12(8) in respect of restocking of the air space.

Procedure in the event of Salmonella enteritidis or Salmonella typhimurium infection

Article 12

(1) If during serotyping the NRL detects infection with Salmonella Enteritidis or Salmonella typhimurium the District Office shall order restriction of movement of the flock concerned and the products originating therefrom and shall withdraw the official certificate of infection-free status without delay. The official certificate of infection-free status in respect of other flock from the holding shall also be withdrawn at the same time unless the infected flock have been appropriately isolated.

- (2) Testing may only be repeated by official sampling ordered by the regional organization of the CAO pursuant to Article 9(10). Sampling for the official test may only be carried out by official or approved veterinarians within the shortest time possible. The NRL shall test the samples and at the same time conduct an examination to detect antimicrobial inhibitory effects. If the result from the repeated sampling is negative or it results in an infection with salmonella serotypes not covered by the national control programmes and no antimicrobial inhibitory effect can be detected, the District Office shall lift the restriction of movement in respect of the flock and the products thereof, if antimicrobial inhibitory effects can be detected the District Office shall investigate the circumstances of the use of antibiotics and maintain the restriction on movement until it is proven that antibiotics were used for purposes other than to treat the infection of salmonella.
- (3) If repeated testing reveals infection by Salmonella Enteritidis or Salmonella Typhimurium or the regional organization of the CAO not orders a repeated test, the flock concerned may be slaughtered after preliminary consultation with the slaughterhouse and the official veterinarian supervising the slaughterhouse and in accordance with the specific veterinary health rules on separate slaughter.
- (4) In the event of infection by Salmonella Enteritidis or Salmonella Typhimurium in a flock of breeding hens and turkeys Annex II/C to Regulation (EC) No 2160/2003 shall apply and Annex II/D to Regulation (EC) No 2160/2003 shall apply to flocks of laying hens.
- (5) Meat from an infected flock may be placed on the domestic market without eliminating salmonella if the production processes following the slaughter of the infected flock are separated from the processing and treatment of other raw materials of animal origin and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from slaughtering and processing infected flock shall carry the text "for consumption only after heat treatment (thorough frying or cooking)" clearly and indelibly marked on every smallest packaging unit close to the identification label, close to the traceability marking; and on the accompanying commercial document.
- (6) If meat from infected flock is processed after salmonella elimination (heat treatment, heat treatment as part of product manufacturing) the processes following slaughter of the infected flock shall be separated from the processing of other raw materials of animal origin until salmonella has been efficiently eliminated, this has been certified and the official veterinarian supervising the slaughterhouse has been informed 48 hours before slaughter. Food materials originating from infected flock shall carry the text "Originates from salmonella-infected flock" on every smallest packaging unit close to the identification label and the premises traceability marking and may only be used to produce food when the technological manufacturing processes guarantee that the product will be salmonella-free. Every such food item shall be verified by microbiology testing carried out in a laboratory before the are cleared for retail trade and the official veterinarian supervising the slaughterhouse shall be informed thereof. The production plant may place heat treated products certified as salmonella-free on the market on the basis of the results of own checks.
- (7) After the keeping place of the infected flock has been emptied the operator shall provide for cleaning the building, equipment and machinery, connecting rooms and paths and in accordance with specific piece of legislation on the issuing of Animal Health Code for reinforced desinfection, rodent extermination and disinsectisation. The remaining litter shall be disposed of in accordance with special legislation on the treatment of waste of animal origin. After these tasks have been accomplished the business operator shall inform the District Office, which will verify the efficiency of the measures implemented.
- (8) The District Office shall authorise the restocking of the airspace concerned only if the effectiveness of desinfection was verified by environmental swab samples test negative in the laboratory.

- (9) The feed fed to infected flock shall be tested without delay in accordance with the special legislation on the manufacturing, placing on the market and use of feed, except when day-old birds test positive. Until testing yields negative results such feed may only be fed to infected flock. If feed tests positive it has to be disposed of in accordance with the special legislation on the manufacturing, placing on the market and use of feed, and the equipment used for its storage and transportation shall be disinfected. If infection has been detected, specific testing shall be carried out to detect salmonella at the feed operator from which the feed originates.
- (10) Hatcheries to which infected hatching eggs have been transported shall act in accordance with Annex II/C(3) and (5) of Regulation (EC) No 2160/2003 and shall apply the provisions of paragraph (7) and (8). If a hatchery has a certificate of infection-free status the district office shall immediately withdraw this. The hatchery must cooperate in tracing the origins of infection on the basis of its records and shall bear the costs.
- 4.4.5. Measures and terms of legislation as regards the different qualifications of animals and herds:

See point 4.4.4.!

4.4.6. Control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned:

Sec point 4.4.4.!

- 4.4.7. Measures and terms of legislation as regards the control (testing, vaccination, etc.) of the disease:
 - Regulation (EC) No. 2160/2003, of the European Parliament and of the Council on the control of Salmonella and other food-borne zoonotic agents
 - Commission Regulation No. 584/2008 (EC) of 20 June 2008 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards a Community target for the reduction of the prevalence of Salmonella Enteritidis and Salmonella Typhimurium in turkeys
 - Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of Salmonella in poultry
 - Commission Regulation (EC) No. 213/2009 Commission Regulation of 18 March 2009 amending Regulation (EC) No 2160/2003 of the European Parliament and of the Council and Regulation (EC) No 1003/2005 as regards the control and testing of Salmonella in breeding flocks of Gallus gallus and turkeys
 - Act No. XLVI, of 2008, on the food chain and its official control
 - Decree No. 180/2009. (XII. 29.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis
 - Decree No. 41/1997. (V. 28.) of the Minister of Agriculture on Code of Veterinary Rules
 The vaccination protocol has to be enclosed in the epidemiological control plan (which the operator submits as an application for participation in the national control programme.)

Furthermore, according to Article 14 (3) of the Decree:

"Documentation and treatment log has to be kept on the use of vaccines, which is checked by the district office based on risk-based assessment. Checking shall cover the proper use of vaccines and that the application was performed as in the instructions of use. The operator shall verify that the appropriate amount of vaccines was used by invoices, and the veterinarian verifies the proper application by his stamp.

- 4.4.8. Measures and terms of legislation as regards the compensation for owners of slaughtered and killed animals:
 - Act No. XLVI, of 2008, on the food chain and its official control.
 - Decree No. 45/2010. (IV.23.) Minister of Agriculture and Rural Development on the rules of financing the national programs for the eradication, control and monitoring of certain animal diseases and zoonoses
- 4.4.9. Information and assessment on bio-security measures management and infrastructure in place in the flocks/holdings involved:

Hungary has relevant guidelines for good animal husbandry practices or other guidelines (mandatory or voluntary) on biosecurity measures defining the hygiene management at farms, the measures preventing incoming infections carried by animals, feed, drinking water, people working at farms, and about hygiene in transporting animals to and from farms. The guideline of Decree No. 2/2008. (I. 4.) of the Minister of Agriculture and Rural Development on specific rules of protection against salmonellosis, the guideline about feed control, the guideline of animal transports and the Hungarian Poultry Product Board's guideline for good practice. All farms have to made an own biosecurity programme and all have to get checked by the Directorate of Food Chain Safety and Animal Health of County Agricultural Office.

5. General description of the costs and benefits:

Costs and benefits are calculated based on the base line study's data and the previous year's data of the Poultry Product Board of Hungary. In the case of breeding flocks costs will occur from the intensive sampling of the flocks as well as the tests performed on the samples (including both testing on the initiative of the operator and the veterinary authority), the measures to be applied in the case of infection (slaughter or killing of the flock, condemnation, transportation, cleansing and desinfection) as well as financial losses due to decreased income for the poultry industry.

A detailed description of the costs is listed under point 8.

Benefits in case of the successful programme include improved food safety which largely contributes to the achievement of public health goals of the Community.

Data on the epidemiological evolution during the last five years

As the control programme started by 1st of January, 2010, evolution data are not yet available.

Evolution of zoonotic salmonellosis 6.1

6.1.1. Data on evolution of zoonotic sulmonellosis

Situation on date: First half year of the programme Year: 2010

Disease/infection("); Salmonellosis Animal species: breeding flocks of Meleagris gallopavo

egg products (number or channelled to (83) Quantity of Kg)⁽³⁾ ¢ ((83) (number or kg) ⁽³⁾ Quantity of destroyed CRBS Ŧ slaughtered or 9 Total counter destroyed 🐑 of animals Φ († 0 depopulated^(a) 9 Number of 9 3 c Number of positive of flocks 19 E <u>--</u> Q, ٥ 3 0 Number checkęd^(d) of Bocks 124 Total tautuher programme of animals under the 193774 flocks under ргодганис пипрег об 124 animals number 193774 flocks¹⁰ питьст Total 5 124 Type of flock^(b) Breeding Region (a1) country Total

For zoonotic Salmonellosis indicate the serotypes covered by the control programmes: (a1) for Salmonella Enteritidis, (a2) for Salmonella Typhimurium, (a2) for other serotypes-specify as appropriate, (a4) for Salmonetta Enteritidis or Salmonetta Typhionerium.

Region as defined in the approved control and eradication programme of the Member State.

3

For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate, <u>e</u>

Fotal number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more than once. 99

If a flock has been checked, in accordance with foomote (d), more than once, a positive sample must be taken into account only once. Ð

4 500

7.1. Targets related to testing

7.1.1. Targets on diagnostic tests

Number and specification of tests

(what is 136 at the moment) and the testing scheme as provided for in the Annex to Commission Regulation No. 213/2009/EC of 18 March implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella scrotypes in Mandatory testing will be performed in all breeding flocks of turkeys during their whole life span. A preliminary calculation was made on the approximate number of tests to be performed in the flocks. The number of tests calculated is based on breeding flocks containing more than 250 hens breeding flocks of Gallus gallus and Meleagris gallopavo and amending Regulation (EC) No 2160/2003. The Annex of the above mentioned Regulation requires all relevant breeding flocks to be tested three times during the rearing period and further testing every second week during the whole production period.

Breeding flocks are kept usually until the age of one year (57 weeks). The production period begins when the flock is 33-34 weeks of age.

In Hungary, breeding flocks are typically kept in barns which makes the taking of boot swabs the most effective way of detecting possible infection.

Using the above numbers and the testing scheme specified in the Regulation, each breeding flock will be sampled and tosted approximately 11 times during a year. During each sampling five pairs of boot swabs will be taken and sent into the laboratory. This means that during a one-year period, 11x5−55 pairs of boot swabs will be taken in one flock. Given that in Hungary there are 136 breeding flocks (~400000 animals), the total number of samples to be taken in the frame of routine business sampling is $(136 \times 5 \times 11) + (136 \times 0.1 \times 5) = 7548$ pairs of boot swabs, 3774 isolates and official samples (10%).

Salmonella serotypes, and 6,7% of the flocks are infected any serotype of Salmonella. This means that in 6,7% of the 136 flock (in 10 flocks) In addition, when a flock is tested positive, confirmatory sampling might made, it will take place using 5 pairs of boot swabs and additional birds positive isolates will need to serotype. Confirmatory tests number will be nearly 20% of the infected flocks and will be required with the testing of 5 selected from the flock. Based on base line study approximately loss than 1 % of the flocks are infected with one or more of the 2 most relevant pairs of boot swabs, faeces material, birds, etc. each. That gives another 136x0,067x0,2=1,82 sampling, with nearly 6 isolates to serotype. Summary nearly $(3774 \times 0.067 = 252 + 6) \sim 260$ isolates will be needed to serotype. However, an exact number of tests which will be performed is not possible, because the time when the flock becomes infected can not predicted.

Additional programme to Application for Community financing for the national control programme of Hungary for Salmonella spp. in breeding flocks of Meleagris gallopavo for the year 2011.

Targets on diagnostic tests

Animal species: (4): Breeding flocks of Melegaris Callopavo

Region ^{ist}	Type of the test ^(s)	Tarpet population '41	Type of sample ^(s)	Objective ⁴⁹	Number of planned tests
Toral	Detection of Salmonella spp. (ENISO 6579-2002/Amt1;3007)	Detection of Salmonella spp. Breeding flocks of Melegaris gallapavo (EN/ISO 6379-2002/Amali 2007)	buot swabs/dust	nkonitoring	3774
	Scrotyping (Kauffman-White scheme)	Scrotyping (Kauffman-White Breeding flocks of Melegaris gallopavo scheme)	: bacteria isolates	monitoring	266.
	Verifying the efficiency of a disinfection	Verifying the efficiency of Breeding flocks of Melegaris gallopavo disinfection	swah	chanitoring	001
(a) Species if necessary	essary.	Jotal			4:34

Region as defined in the approved control and eradication programme of the Member State.

Description of the test. <u> ୧୭୫୭୫</u>

Specification of the targeted species and the categories of targeted animals if necessary. Description of the sample (for instance faces).

Description of the objective (for instance surveillance, monitoring, , control of vaccination).

Targets on testing of flocks¹

Year: 2011

Situation on date:

Animal species: Meleagris gallopayo, breeding Disease: (4); zoonotic salmonella

Region (a1)	Type of fluck ^{ib)}	Fotal number of flocks ^(c)	Fotal number of unimals	Total : nember of thocks under the programm	Total number of animals under the programme	Number of flucks checked ^(d)	Number of positive ^(e) flocks ^(e)	positive ^(e)	flocks ^{ca)}	Number of tlocks depopulated ^(c)	r of ss	Total number of animals slaughtered or destroyed (a)	ber of State	onal number of Quantity of autimals eggs slaughtered or destroyed destroyed (mander) (e)	Chamtity of eggs chamciled to cgg products (number)	ity of its Iled to oducts ber)
	. <u>.</u>			v		•••	(a1) (a2)	(42)	(8,3)	(83)	(R4)	(a3) (a4) (a4) (a4) (a4) (a0)	(fg)	(ad) (a	(a4)	<u>.</u>
[ota]	Breeding Nocks	136	4000000	136	400000	136		•	 01	 _	٠		000	3000 0 10	c	<u>.</u>

(a) For zoonotic salmonellosis indicate the serotypus covered by the control programmes: (a1) for salmonella enteritidis, (a2) for salmonella typhimmrium, (a3) for other serotypes-specify as appropriate, (44) for salmonella enteritidis or salmonella typhimurium.

(a1) Region as defined in the approved control and cradication programme of the Member State.

(b) For example, breeding flocks (rearing, adult flocks), production flocks, laying hen flocks, breeding turkeys, breider turkeys, breeding pigs, slaughter pigs, etc. Flocks or herds or as appropriate.

(c) Total number of flocks existing in the region including eligible flocks and non-eligible flocks for the programme.

(d) Check means to perform a flock level test under the programme for the presence of salmonella. In this column a flock must not be counted twice even if it has been checked more than once.

(e) if a flock has been checked, in accordance with footnote (d), more than once, a positive sample must be taken into account only once.

Specify types of thocks if appropriate(breeders, layers, broilers).

7.2. Testing scheme

Testing scheme as provided for in the Annex to Commission Regulation No. 584/2008/F.C of 30 June 2008 and Commission Regulation No 213/2009 of 18. March 2009 implementing Regulation (EC) No 2160/2003 as regards a Community target for the reduction of the prevalence of certain salmonella scrotypes in breeding flocks of Gallus gallus and breeding turkeys amending Regulation (EC) No 2160/2003 will be used.

Details of the testing scheme are the following:

Sampling frame

The sampling france shall cover all adult breeding flocks of Meleagris gallopavo comprising at least 250 birds.

- Monitoring in breeding flocks
- 2.1. Location, frequency and status of sampling

Breeding flocks shall be sampled at the initiative of the operator and as part of official controls.

2.1.1. Sampling at the initiative of the operator

Sampling shall take place every third weeks at the holding. The detection of relevant salmonella serotypes during the sampling at the initiative of the operator has to be notified without delay to the County Agricultural Office, Directorate of Food Chain Safety and Animal Health by the operator, the sampler or the laboratory performing the analyses.

2.1.2. Official control sampling

Official sampling shall be carried out on three occasions during the production cycle:

- (a) within four weeks following moving to laying phase or laying unit,
- (b) towards the end of the laying phase, not earlier than eight weeks before the end of the production cycle;
- (c) during the production, at any time sufficiently distant from the samples referred to in points (a) and (b).

2.2. Sumpling protocol

2.2.1. Routine sampling at the initiative of the operator

Sampling shall primarify consist of faecal samples and shall aim to detect a 1 % within flock prevalence, with 95 % confidence limit. To that effect, the samples shall comprise one of the following: (a) Pooled faeces made up of separate samples of fresh facces each weighing not less than 1 g taken at random from a number of sites in the building in which the birds are kept, or where the birds have free access to more than one building on a particular holding, from each group The number of sites from which separate faeces samples are to be taken in order to make a pooled sample shall be as follows: of buildings on the holding in which the birds are kept. Faeces may be pooled for analysis up to a minimum of two pools.

	Number of faeces samples to be taken
Number of birds kept in a building	in the building or group of buildings on
	the holding
250-349	
350-449	220
450-799	250
666-008	260
1 000 or more	300

(b) Five pairs of boot swabs:

Boot swabs used shall be sufficiently absorptive to soak up moisture. Tubegauze 'socks' are also acceptable.

The surface of the boot swab shall be moistened using appropriate diluent (such as 0,8 % sodium chloride, 0,1 % peptone in sterile deionised water, or sterile water). Walking around shall be done in a manner which will sample representatively all parts of the sector, including littered and slatted areas when slats are safe to walk on. All separate pens within a house shall be included in the sampling. On completion of sampling in the chosen sector, boot swabs must be removed carefully so as not to dislodge adherent material.

The boot swabs may be pooled for analysis into a minimum of two pools.

- (c) In cage breeding flocks, sampling may consist of naturally mixed facces from dropping belts, scrapers or deep pits, depending on the type of house. Two samples of at least 150 g shall be collected to be tested individually:
 - droppings belts beneath each tier of cages which are run regularly and discharged into an auger or conveyor system;

- droppings pit system in which deflectors beneath the cages are scraped into a deep pit beneath the house; (ii) droppings pit system in which deflectors beneath the waste means and facces fall directly into the pit.

There are normally several stacks of cages within a house. Pooled faeces from each stack shall be represented in the overall pooled sample. Two pooled samples shall be taken from each flock as described below,

In systems where there are belts or scrapers, these shall be run on the day of the sampling before sampling is carried out.

In systems where there are deflectors beneath cages and scrapers, pooled facces which has lodged on the scraper after it has been run, shalf be collected.

In step-cage systems where there is no belt or scraper system it is necessary to collect pooled facces from the deep pin.

Droppings belt systems: pooled faccal material from the discharge ends of the belts shall be collected.

2.2.2. Official sampling

- (a) Routine sampling shall be as described in point 2.2.1.
- In addition to the sampling as described in point 2.2.1, the sampling may include a sample of birds taken at random from within each house of birds on the farm, normally up to five birds per house, unless the County Agricultural Office, Directorate of Food Chain Safety and Animal Health deems necessary to sample a higher number of birds. The examination shall consist in a test for research of anti-microbial or (b) Confirmatory sampling following detection of relevant salmonella from sampling at the hatchery shall be carried out as follows. of bacterial growth inhibitory effect in samples. A test is considered failed if a positive is found in any of the birds.
- for relevant salmonella and bacterial growth inhibitory effect shall be repeated until no bacterial growth inhibitory effect is detected, or the breeding flock is destroyed. In the latter case, the breeding flock shall be accounted for as an infected breeding flock for the purpose of the In case the presence of relevant salmonella is not detected but anti-microbial or bacterial growth inhibitory effect are, sampling of the flock

(c) Suspect cases

In exceptional cases where the Central Agricultural Office, Food and Feed Safety Directorate has reasons to suspect false negative results at the first official sampling at the holding, a secondary official confirmatory sampling may be performed, composed of facces or birds (for the detection of salmonella in organs).

In exceptional cases where the National Food Investigation Institute has reasons to suspect false positive sampling performed at the initiative of the operator at the holding, follow-up official sampling may be performed.

3. Examination of the samples

3.1. Preparation of the samples

3.1.1. Boot swabs samples

- (a) carefully unpack the pair of boot swabs (or 'socks') to avoid dislodging adherent faccal material and place in 225 ml BPW which has been prewarmed to room temperature;
- (b) where five pairs of boot swabs are pooled into two samples, place five individual samples into a minimum of 225 ml BPW and ensure that all the samples are totally immersed in the BPW;
- (c) swiri to fully saturate the sample and continue culture by using the detection method in 3.2.

3.1.2. Other faecal material samples

- (a) at the laboratory place each sample (or pooled sample as appropriate) into an equal weight of Buffered Peptone Water and mix gently;
- (b) allow the sample to soften for 10-15 minutes then mix gently;
- (c) immediately after mixing remove 50 g of the mixture and add to 200 ml of Buffered Peptone Water which has been pre-warmed to room temperature;
- (d) continue culture of the sample by using the detection method in 3.2.

3.2. Detection method

The method recommended by the Community Reference Laboratory for Salmonella in Bilthoven, Netherlands, shall be used: the method is a modification of ISO 6579 (2002), where a semi solid medium (MSRV) is used as the single selective enrichment medium. The semi-solid medium should be incubated at 41,5 +/- 1 °C for $2 \times (24 +/-3)$ hours.

enrichment broth for future culture. To do that, incubate both samples in BPW as normal. Take 1 ml of incubated broth from each sample and As regards the boot swabs samples and other faecal material samples referred to in paragraph 3.1., it is possible to pool incubated BPW mix thoroughly then take 0,1 ml of the mixture and inoculate the MSRV plates in the usual way.

3.3. Serotyping

At least one isolate from each positive sample shall be typed, following the Kaufmann-White scheme.

4. Results and reporting

A breeding flock shall be considered positive for the purpose of verifying the achievement of the Community target, when presence of relevant salmonella (other than vaccine strains) was detected in one or more faccal samples (or if there is a secondary official confirmation, in the relevant faecal samples or birds organ samples), taken at the holding. This shall not apply in exceptional cases of suspect breeding flocks where salmonella detection at the holding at the initiative of the operator was not confirmed by official sampling. The cumulative results from sampling and testing in breeding flocks at holding level shall be accounted for, i.e. each breeding flock shall be counted only once irrespective of the number of sampling and testing operations. Positive breeding flocks shall be counted only once, irrespective of the number of sampling and testing operations.

Reporting shall include:

- (a) detailed description of the options implemented for the sampling scheme and the type of samples taken, as appropriate;
- (b) number of existing breeding flocks and those tested;
- (c) results of the testing;
- (d) explanations on the results, in particular concerning exceptional cases.

7.3. Targets on vaccination or treatment

Commission Regulation (EC) No 1177/2006 of 1 August 2006 implementing Regulation (EC) No 2160/2003 of the European Parliament and of the Vaccination is not compulsory in breeding flocks of Meleagris gallopavo. The rules of using vaccination and treatment are laid down in Council as regards requirements for the use of specific control methods in the framework of the national programmes for the control of salmonella

programme
fthe
cost o
fthe
nalvsis o
etailed an
⊊ æ

Costs related to	Specification	Number of units	Unitary cost in €	Total amount in &	Community funding requested (yes/ho)
1. Testing		İ			
1.1. Cost of the analysis	Test: modified ISO 6579 (2002) using MSRV planned to be carried out in the framework of official sampling ((136x3x5)/2) (nearly 1000 official sample)	922	. 4	9220	yes
	official sampling of varifying desinfection	100	10	1000	
	Test: serotyping planned to be carried out in the framework of official sampling (136'3'2'0,067)		6	2200	yes
1.2. Cost of sampling	costs of sampling of approx. 136 flocks 11 times during 2010 (one session consists the taking of 5 pairs of swabs)	1660	20	34000	yes
1.3. Other costs				:	
2. Vaccination or treatment of animal products					<u> </u>
2.1. Purchase of vaccina/treatment of animal products	Cost of vaccine of approx. 400000 animals two times	800000	0.1	80000	yes
	ប¥	4000	0.2	008	
2.2. Distribution costs	Cost of the distribution (approx. 400000 animals)	400000	0.05	200000	94
2.3. Administering costs	Cost of the administration (approx. 400000	400000	0.1	40000	of

	animals)					
2.4. Control costs			<u> </u>	<u> </u>		:
3. Slaughter and destruction					 	1
3.1. Compensation of animals	Cost of compensation of the positive animals approx. 400000x0.01=40000 animals (SE/ST/SI/SV/SH Infected animals)	40000	12	480000	yes	r
3.2. Trensport costs	Slaughtering of Infected Rocks cen only be authorised when meat from these flocks is freated according to specific food safety legislation. Therefore, slaughter is not likely to be performed at regular contracted slaughterhouses, which makes fransport costs much higher than usual, approx. 400000x0.01=40000 animals, 15 kg/animal	000009	90'0	24000	٤)
3.3, Destruction costs	Cost of destruction of approx. 400000x0.01=40000 animals, 15 kg/animal	800000	0.2	120800	Du	
3.4. Loss in case of slaughtering	This loss is estimated to be of a large extent. However, losses due to the early slaughter of the flock and the decreased income due to hatching eggs which could not be produced is very hard to estimate.					
3.5 Costs from treatment of products (milk, aggs, hatching aggs, etc)		150000	7,0	112000	yes	Т
4. Cleansing and disinfection	When taking into account the number of flocks (135) and the infection rate (with the five relevant serotype) (6,7%), an approximate number of 10 flocks to be cleansed and disinfected can be estimated.	10	200	2000	ę	_ ·· ·
	Cleansing and desinfaction of an average flack depends on several factors, however an approximate amount of costs is given.					
5. Salaries (staff contracted for the programme only)	i					
			i		:	ı

		yes
	968220	580420
	, - 	ā
	TOTAL	Community funding requeste
		Community t
6. Consumables and specific equipment 7. Other costs		
6. Consumable equipment 7. Other costs		