



EUROPEAN COMMISSION
HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit 04 - Veterinary Control Programmes

SANCO/12898/2010

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

Surveillance and Eradication programme of Bluetongue

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

Finland

* in accordance with Council Decision 2009/470/EC

Program for Eradication : ANNEX 1

| | |
|------------------------|--------------------------|
| Submission Date | Submission Number |
| 27/04/2010 | 1272351246990-220 |

1. Identification of the programme

| Member State | Disease | Species | Request of Community co-financing from beginning of | To end of |
|--------------|--|---------|---|-----------|
| Finland | Bluetongue in endemic or high risk areas | Bovines | 2011 | 2011 |

1.1 Contact

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2. Historical data on the epidemiological evolution of the disease

Program for Eradication : PDF detail

2. Historical data on the epidemiological evolution of the disease

Bluetongue has never been detected in Finland. However, the disease has been detected in the neighbouring country Sweden, and a fairly northern country Norway, thus possessing a danger that the disease might spread into Finland.

3. Description of the submitted programme

The aim of the program is to detect bluetongue as soon as possible in case the disease would enter into Finland.

Enforced surveillance is applied to the coastal areas in the south and south-west (Area A). If bluetongue would spread into Finland by airborne route the first places to be affected would most probably be the coastal areas towards Sweden and probably towards Estonia and Russia. In the two latter country, however, no virus circulation of BTV has been reported. In Sweden the bluetongue cases which have been detected have been situated in the southern part of the country.

In the enforced surveillance program bulk milk samples from every dairy herd are analysed 3 times a year, in August, September and November. Blood samples from beef cattle from Area A are analysed.

The rest of Finland except the most Northern areas Pohjois-Pohjanmaa, Kainuu and Lappi are taken into the basic surveillance program (Area B).

Imported cattle and other animals susceptible to bluetongue are random sampled. These samples are tested by PCR.

All other samples but imported animals are tested serologically by ELISA. In case of positive serology, samples for detecting the BT virus (by PCR) are taken in case of positive PCR the animal is concerned BT positive.

Vaccination plan covers the coastal area where BT is most probable to enter the country. Vaccination will only take place after there has been bluetongue cases in Finland.

4. Measures of the submitted programme

4.1 Summary of measures under the programme

Duration of the programme

beginning of 2011 to end of 2011

| | |
|---------------------------------------|---|
| First Year : | |
| Control | |
| Testing | X |
| Slaughter and animals tested positive | |
| Killing of animals tested positive | X |
| Vaccination | X |
| Treatment | |
| Disposal of products | |
| Eradication, control or monitoring | |

| | |
|------------------------------------|---|
| Last Year : | |
| Eradication | |
| Testing | X |
| Slaughter of positive animals | |
| Killing of animals tested positive | |
| Extended slaughter of killing | |
| Disposal of products | |
| Other | |

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4.2 Organisation, supervision and role of all stakeholders involved in the programme

Ministry of Agriculture and Forestry, Finnish Food Safety Authority Evira. In case of positive samples Regional State Administrative Agencies and local official veterinarians.

4.3 Description and demarcation of the geographical and administrative areas in which the programme is to be implemented

Enforced surveillance (Area A) coastal area in the south: Ahvenanmaa, Varsinais-Suomi, Uusimaa and parts of Satakunta, Häme, Kymenlaakso, Kaakkois-suomi.

Basic surveillance (Area B), the rest of Finland except the most northern part of the country: Pohjanmaa, Etelä-Pohjanmaa, Keskä-Suomi, Pirkanmaa, Pohjois-Savo, Etelä-Savo, Pohjois-Karjala and parts of Pohjois-Pohjanmaa, Satakunta, Häme, Kaakkois-suomi.
Vaccination area is the same as area of enforced surveillance, Area A.

4.4 Description of the measures of the programme

4.4.1 Notification of the disease

The disease is notified according to ADNS; Council Directive 82/894/EEC as last amended by Commission Decision 2008/650/EC. Commission decision 2005/176/EC.

4.4.2 Target animals and animal population

Dairy cattle, beef cattle, sheep, goats. Imported animals susceptible to BT.

4.4.3 Identification of animals and registration of holdings

The identifications can be obtained from cattle register and sheep and goat register (Evira).

4.4.4 Qualifications of animals and herds

All dairy herds and all beef cattle herds in the Area A are included. In the area B 10% of dairy herds chosen by random sampling. Sheep and goat farms, which send blood samples to other eradication programs are sampled in the Area A. Imported animals by random sampling.

4.4.5 Rules of the movement of animals

In case of a positive herd for BT zoning according to the Directive 2000/75/EC will take place.

4.4.6 Tests used and sampling schemes

Tests used are antibody ELISA and PCR for BTv. Tests are performed in the national reference laboratory Finnish Food Safety Authority Evira. The Dairy herds in the Area A are tested 3 times a year: August, September and November. The Area B is tested once a year. Beef cattle, sheep and goat samples are tested once a year. PCR tests are performed in case of positive antibody assays and from the samples obtained from imported animals.

4.4.7 Vaccines used and vaccination schemes

The vaccine which would be used in case BT enters to Finland is BTVPURVIsap by Merial. Cattle in the Area A would be vaccinated twice.

4.4.8 Information and assessment on bio-security measures management and infrastructure

For biosecurity in Finnish dairy farms, only invited visitors are allowed and they, too, should change into protective clothing provided by the farm.

4.4.9 Measures in case of a positive result

In case of a positive results zoning according to the directive 2000/75/EC will take place. The farms within zones are tested. If there are only a few positive farms culling of all the animals susceptible to BT in the farm will take place. If BT would already be more widespread the vaccination program will take place.

4.4.10 Compensation scheme for owners of slaughtered and killed animals

The compensation will be given according to the national legislation, Eläintautilaki 80/55.

4.4.11 Control on the implementation of the programme and reporting

Evira will control the implication of the programme and report via the Ministry of Agriculture and Forestry.

5. Benefits of the programme

Bluetongue has never been detected in Finland. However, during 2006-2008 bluetongue was spreading very rapidly in EU area and reached Sweden and later Norway. The benefit of this program is to notice as soon as possible if bluetongue is spreading into Finland. If BT would enter into Finland

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

6.1 Evolution of the disease

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

6.1 Evolution of the disease

6.1.1 Data on herds for year:

| Year | Region | Total number of herds under the programme | Number of herds checked | Number of positive herds | Number of new positive herds | Number of herds depopulated | % positive herds depopulated | % herds coverage | % positive herds prevalence | % new positive herds incidence |
|--------|--------|---|-------------------------|--------------------------|------------------------------|-----------------------------|------------------------------|------------------|-----------------------------|--------------------------------|
| Sum: | | | | | | | | | | |
| Total: | | | | | | | | | | |

6.1.2 Data on animals for year:

| Year | Region | Total number of animals | Number of animals to be tested under the programme | Number of animals tested individually | Number of positives animals | Number of animals with positive result slaughtered or culled | Total number of animals slaughtered | % coverage at animal level | % positive animals prevalence |
|--------|--------|-------------------------|--|---------------------------------------|-----------------------------|--|-------------------------------------|----------------------------|-------------------------------|
| Sum: | | | | | | | | | |
| Total: | | | | | | | | | |

6.2 Stratified data on surveillance and laboratory tests

6.2.1 Stratified data on surveillance and laboratory tests for year:

| Year | Region | Test Type | Test Description | Number of samples tested | Number of positive samples |
|------|--------|-----------|------------------|--------------------------|----------------------------|
|------|--------|-----------|------------------|--------------------------|----------------------------|

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6.2 Stratified data on surveillance and laboratory tests

6.2.1 Stratified data on surveillance and laboratory tests for year :

| Year | Region | Test Type | Test Description | Number of samples tested | Number of positive samples |
|------|---------------|-------------------------------------|------------------|--------------------------|----------------------------|
| 2009 | Area A | serological test | Elisa, Serum | 128 | 0 |
| | Area A | serological test | Elisa, Serum | 542 | 0 |
| | Area A + B | serological test | Elisa, Milk | 7,527 | 0 |
| | Area A +B | serological test | Elisa, Serum | 234 | 0 |
| 2009 | Whole country | microbiological or virological test | PCR | 3 | 0 |
| | Whole country | microbiological or virological test | PCR | 9 | 0 |
| | Whole country | microbiological or virological test | PCR | 92 | 0 |
| 2008 | | | Sum: | 8,535 | 0 |
| | Area A | serological test | Elisa, Serum | 220 | 0 |
| | Area A+B | serological test | Elisa, Serum | 2,624 | 0 |
| 2007 | | | Sum: | 2,844 | 0 |
| | Whole country | serological test | Elisa, Serum | 1,007 | 0 |
| | | | Sum: | 1,007 | 0 |
| 2006 | Whole country | serological test | Elisa, Serum | 800 | 0 |
| | | | Sum: | 600 | 0 |
| 2005 | Whole country | serological test | not done | 0 | 0 |
| | | | Sum: | 0 | 0 |
| | | Total: | | 12,986 | 0 |

6.3 Data on infection for year :

| Year | Region | Number of herds infected | Number of animal infected |
|------|--------|--------------------------|---------------------------|
|------|--------|--------------------------|---------------------------|

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6.3 Data on infection for year :

| Year | Region | Number of herds infected | Number of animal infected |
|---------------|--------|--------------------------|---------------------------|
| | | Sum: | |
| Total: | | | |

6.4 Data on the status of herds at the end of year

| Year | NUTS Region | Total number of herds and animals under the programme | | Not Free or not officially free from disease | | Free or officially free from disease | | Free from disease | | Officially free from disease | |
|---------------|-------------|---|---------|--|---------------------|--------------------------------------|-------|-------------------|-------|------------------------------|-------|
| | | Herds | Animals | Last check positive | Last check negative | Animals | Herds | Animals | Herds | Animals | Herds |
| Total: | | | | | | | | | | | |

6.5 Data on vaccination or treatment programmes for year

| Year | Region | Total number of herds and animals | | Information on vaccination or treatment programme | | | | Number of young animals vaccinated |
|---------------|--------|-----------------------------------|---------|---|---|---------------------------------------|--|------------------------------------|
| | | herds | animals | Number of herds in vaccination or treatment programme | Number of animals vaccinated or treated | Number of herds vaccinated or treated | Number of doses of vaccine or treatment administered | |
| Total: | | | | | | | | |

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6.5 Data on vaccination or treatment programmes for year

| Year | Region | Information on vaccination or treatment programme | | | | | | | |
|--------|--------|---|-------------------------|---|---------------------------------------|---|--|-----------------------------|------------------------------------|
| | | Total number of herds | Total number of animals | Number of herds in vaccination or treatment programme | Number of herds vaccinated or treated | Number of animals vaccinated or treated | Number of doses of vaccine or treatment administered | Number of adults vaccinated | Number of young animals vaccinated |
| Total: | | | | | | | | | |

6.6 Data on wildlife

6.6.1 Estimation of wildlife population for year:

| Year | Region | Species | Method of estimation | Estimation of the population |
|--------|--------|---------|----------------------|------------------------------|
| Sum: | | | | |
| Total: | | | | |

6.6.2 Monitor of wildlife for year:

| Year | Region | Species | Test Type | Test Description | Number of samples tested | Number of positive samples |
|------|--------|---------|-----------|------------------|--------------------------|----------------------------|
| | | | | | | |

6.6.3 Data on vaccination or treatment of wildlife for year:

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7.1.2 Targets on testing herds and animals

7.1.2.1 Targets on the testing of herds for year :

| Year | Region | Total number of herds | Total number of herds under the programme | Number of herds expected to be checked | Number of expected positive herds | Number of herds expected to be depopulated | Number of herds expected to be depopulated | Target indicators | | | |
|----------|---------------|-----------------------|---|--|-----------------------------------|--|--|--|---|------------------------|--|
| | | | | | | | | Number of herds expected to be depopulated | % positive herds expected to be depopulated | Expected herd coverage | % positive herds Expected period herd prevalence |
| 2,011.00 | Area A | 125 | 5 | 5 | 0 | 0 | 0 | 0% | 100% | 0% | 0% |
| | Area A | 386 | 386 | 386 | 0 | 0 | 0 | 0% | 100% | 0% | 0% |
| | Area A | 733 | 15 | 15 | 0 | 0 | 0 | 0% | 100% | 0% | 0% |
| | Area A | 1,269 | 1,269 | 1,269 | 0 | 0 | 0 | 0% | 100% | 0% | 0% |
| | Sum: | 2,513 | 1,675 | 1,675 | 0 | 0 | 0 | | | | |
| | Total: | 2,513 | 1,675 | 1,675 | 0 | 0 | 0 | | | | |

7.1.2.2 Targets on the testing of animals for year:

| Year | Region | Total number of animals | Number of animals under the programme | Number of animals expected to be tested | Number of animals to be tested individually | Number of expected positive animals | Number of animals with positive result expected to be slaughtered or culled | Slaughtering | | | Target indicators | | |
|------|---------------|-------------------------|---------------------------------------|---|---|-------------------------------------|---|--|---|-------------------------------------|--|---|-------------------------------------|
| | | | | | | | | Total number of animals expected to be slaughtered | % positive animals (Expected animal prevalence) | Expected % coverage at animal level | Total number of animals expected to be slaughtered | % positive animals (Expected animal prevalence) | Expected % coverage at animal level |
| 2011 | Whole country | 10 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0% | 100% | 0% | |
| | Whole country | 90 | 90 | 90 | 90 | 0 | 0 | 0 | 0 | 0% | 100% | 0% | |
| | Sum: | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | | | | |
| | Total: | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | | | | |

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7.2 Targets on qualification of herds and animals for year :

Targets on the status of herds and animals under the programme

| Year | Region | Total number of herds and animals under the programme | | Expected unknown | | Expected not free or not free from disease | | Expected free or officially free from disease status suspended | | Expected free from disease | | Expected officially free from disease | |
|------|--------|---|---------|------------------|---------|--|---------|--|---------|----------------------------|---------|---------------------------------------|---------|
| | | Herds | Animals | Herds | Animals | Herds | Animals | Herds | Animals | Herds | Animals | Herds | Animals |
| | Sum: | | | | | | | | | | | | |
| | Total: | | | | | | | | | | | | |

7.3 Targets on vaccination or treatment

7.3.1 Targets on vaccination or treatment for year :

| Year | NUTS Region | Total number of herds in vaccination or treatment programme | | Total number of animals in vaccination or treatment programme | | Targets on vaccination or treatment programme | | Targets on vaccination or treatment programme | | Targets on vaccination or treatment programme | | Targets on vaccination or treatment programme | |
|------|-------------|---|------------------------------|---|------------------------------|--|--|---|--|---|---|---|---|
| | | herds in vaccination programme | herds in treatment programme | herds in vaccination programme | herds in treatment programme | Number of herds expected to be vaccinated or treated | Number of animals expected to be vaccinated or treated | Number of doses of vaccine or treatment expected to be administered | Number of adults expected to be vaccinated | Number of young animals expected to be vaccinated | Number of herds expected to be vaccinated | Number of animals expected to be vaccinated | Number of herds expected to be vaccinated |
| | Area a | 386 | 8,856 | 386 | 8,856 | 386 | 8,856 | 17,712 | 6,856 | 2,000 | | | |
| | Area A | 1,269 | 30,958 | 1,269 | 30,958 | 1,269 | 30,958 | 61,916 | 22,958 | 8,000 | | | |
| 2011 | Sum: | 1,655 | 39,814 | 1,655 | 39,814 | 1,655 | 39,814 | 79,628 | 29,814 | 10,000 | | | |
| | Total: | 1,655 | 39,814 | 1,655 | 39,814 | 1,655 | 39,814 | 79,628 | 29,814 | 10,000 | | | |

7.3.2 Targets on vaccination or treatment of wildlife for year

Targets on vaccination or treatment programme

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7.3.2 Targets on vaccination or treatment of wildlife for year

| Year | NUTS Region | Square km | Targets on vaccination or treatment programme | | Total number of doses of vaccine or treatment expected to be administered |
|------|-------------|-----------|--|------------------------------|---|
| | | | Number of doses of vaccine or treatments expected to be administered in the campaign | Expected number of campaigns | |
| | | | | | |
| | | | Sum: | | |
| | | | Total: | | |

8. Detailed analysis of the cost of the programme for year

| Year | Cost Category | Specification | Cost related to | Number of units | Unitary cost in EUR | Total amount in EUR | Community funding request |
|----------|-----------------------------|------------------------------------|--|-----------------|---------------------|---------------------|---------------------------|
| 2,011 | 1. Testing | Area A, bovine, ELISA | Cost of analysis | 3,807 | 1,35 | 5,139,45 | yes |
| | | Area A, sheep and goat, ELISA | Cost of analysis | 15 | 1,35 | 20,25 | yes |
| | | Import, PCR, bovine | Cost of analysis | 90 | 9,61 | 864,90 | yes |
| | | Import, PCR, sheep and goat | Cost of analysis | 15 | 9,61 | 144,15 | yes |
| | 1. Testing | | | Sum: | 3,927 | 6,168,75 | |
| 2,011,00 | 2. Vaccination or treatment | Vaccination Area A Beef Cattle | Purchase of vaccine/treatment of animal products | 17,712 | 65 | 11,512,80 | yes |
| | | Vaccination Area A Dairy cattle | Purchase of vaccine/treatment of animal products | 61,918 | 65 | 40,245,40 | yes |
| | | 2. Vaccination or treatment | | Sum: | 79,628 | 51,758,20 | |
| | | Total: | | Sum: | 83,555 | 57,926,95 | |