### Report Summary

**Name of sender of the report**
Dr Silvio Borrello

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**Address**
Via G. Ribotta Rome 5 00144

**Fax**
+39 6 5994 6971

**Email**
s.borrello@sanita.it

**Date submitted to OIE**
10/11/2017

**Animal type**
Terrestrial

**Date of report**
10/11/2017

**Disease**
Highly pathogenic avian influenza

**Date of start of the event**
20/01/2017

**Causal Agent**
Highly pathogenic avian influenza virus

**Date of confirmation of the event**
21/01/2017

**Serotype(s)**
H5N8

**Date of last occurrence**
17/01/2015

**Reason**
Recurrence of a listed disease

**Diagnosis**
Clinical, Laboratory (advanced)

**Country or zone**
a zone or compartment

**Clinical signs**
Yes

**Number of reported outbreaks**
submitted= 73, Draft= 0

### Outbreak details

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<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
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</table>
Province | Number of outbreaks | District | Sub-district | Unit Type | Location | Latitude | Longitude | Start Date | End Date |
---|---|---|---|---|---|---|---|---|---|
LOMBARDIA-other report - submitted | | MANTOVA | Farm | Monzambano | 45.378272 | 10.673785 | 14/02/2017 | 18/02/2017 |
VENEZIA-other report - submitted | | VENEZIA | Farm | San Donà di Piave | 45.655552 | 12.656759 | 27/02/2017 | 01/03/2017 |
VENETO-other report - submitted | | VENETO | Farm | San Donà di Piave | 45.653457 | 12.653174 | 27/02/2017 | 28/02/2017 |

Species | Measuring units | Susceptible | Cases | Deaths | Killed and disposed of | Slaughtered |
---|---|---|---|---|---|---|
Birds | Animals | 22,900 | 23,300 | 100 | 15,227 | 0 |

Affected Population: The positivity regards a farm of fattening turkeys. Culling of 22,900 turkeys has been completed on 8 February 2017 and all 23,300 turkeys have been safely disposed of.

Species | Measuring units | Susceptible | Cases | Deaths | Killed and disposed of | Slaughtered |
---|---|---|---|---|---|---|
Birds | Animals | 15327 | 15327 | 100 | 15,227 | 0 |

Affected Population: The positivity regards a farm of fattening turkeys. Culling of 15,227 turkeys has been completed on 18 February 2017 and all 15,327 turkeys have been safely disposed of.

Species | Measuring units | Susceptible | Cases | Deaths | Killed and disposed of | Slaughtered |
---|---|---|---|---|---|---|
Birds | Animals | 19532 | 19482 | 100 | 19,432 | 0 |

Affected Population: The positivity regards a commercial farm of fattening turkeys. Culling of 19,482 turkeys has been completed on 25 February 2017 and all 19,532 turkeys have been safely disposed of.

Species | Measuring units | Susceptible | Cases | Deaths | Killed and disposed of | Slaughtered |
---|---|---|---|---|---|---|
Birds | Animals | 11 | 11 | 8 | 3 | 0 |

Affected Population: The positivity regards a backyard farm. Culling of 3 animals has been completed on 28 February 2017 and all 11 animals have been safely disposed of.

Species | Measuring units | Susceptible | Cases | Deaths | Killed and disposed of | Slaughtered |
---|---|---|---|---|---|---|
Birds | Animals | 180 | 5 | 5 | 175 | 0 |

Affected Population: The positivity regards a commercial farm of game birds. Culling of 175 game birds has been completed on 18 March 2017 and all 180 game birds have been safely disposed of.
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<thead>
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<th>Sub-district</th>
<th>Unit Type</th>
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<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
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<td>Deaths</td>
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Follow-up report No.: 31, Report reference: , OIE Ref: 25201, Report Date: 10/11/2017, Country: Italy
### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

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#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

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#### Affected Population

- The positivity regards a commercial farm of fattening turkeys. Culling of 18871 turkeys has been completed on 24 Jul 2017 and all 20560 turkeys have been safely disposed of.

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#### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

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#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

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#### Affected Population

- The positivity regards a backyard farm. On 20 Jul 2017 all animals have been safely disposed of.

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#### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

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#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

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#### Affected Population

- The positivity regards a layer farm. Culling of 17724 laying hens has been completed on 29 Jul 2017 and all 17724 turkeys have been safely disposed of.

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#### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

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#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

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#### Affected Population

- The positivity regards a commercial farm of fattening turkeys. Culling of 12080 turkeys has been completed on 31 Jul 2017 and all 12080 turkeys have been safely disposed of.

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#### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

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#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

---

#### Affected Population

- The positivity regards a layer farm. Culling of 123463 laying hens has been completed on 07 Aug 2017 and all 123463 laying hens have been safely disposed of.

---

#### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

---

#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

---

#### Affected Population

- The positivity regards a commercial farm of fattening turkeys. Culling of 4401 turkeys has been completed on 03 Aug 2017 and all 4401 turkeys have been safely disposed of.

---

#### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

---

#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

---

#### Affected Population

- The positivity regards a commercial farm of fattening turkeys. Culling of 4401 turkeys has been completed on 03 Aug 2017 and all 4401 turkeys have been safely disposed of.

---

#### Province

#### Number of outbreaks

- **Number of outbreaks**
- **District**
- **Sub-district**
- **Unit Type**
- **Location**
- **Latitude**
- **Longitude**
- **Start Date**
- **End Date**

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#### Species

- **Species**
- **Measuring units**
- **Susceptible**
- **Cases**
- **Deaths**
- **Killed and disposed of**
- **Slaughtered**

---

#### Affected Population

- The positivity regards a commercial farm of fattening turkeys. Culling of 4401 turkeys has been completed on 03 Aug 2017 and all 4401 turkeys have been safely disposed of.
<table>
<thead>
<tr>
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<th>Sub-district</th>
<th>Unit Type</th>
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<td>Affected Population</td>
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<td>Longitude</td>
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**Affected Population**: The positivity regards a farm of fattening turkeys. Culling of 13,048 turkeys has been completed on 23 Aug 2017 and all 13,248 turkeys have been safely disposed of.

<table>
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<th>Unit Type</th>
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**Affected Population**: The positivity regards a farm of fattening turkeys. Culling of 32,906 turkeys has been completed on 25 Aug 2017 and all 33,102 turkeys have been safely disposed of.

<table>
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<th>Unit Type</th>
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<th>Longitude</th>
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<td>VENETO</td>
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<td>San Pietro di Morubio</td>
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**Affected Population**: The positivity regards a farm of fattening turkeys. Culling of 10,579 turkeys has been completed on 30 Aug 2017 and all 10,700 turkeys have been safely disposed of.

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<tbody>
<tr>
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<td>Farm</td>
<td>Campiglia dei Berici</td>
<td>2,500</td>
<td>2,500</td>
<td>2,500</td>
<td>2,500</td>
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**Affected Population**: The positivity regards a farm of fattening turkeys. Culling of 10,779 turkeys has been completed on 24 Aug 2017 and all 10,900 turkeys have been safely disposed of.

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<th>Unit Type</th>
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<tbody>
<tr>
<td>VENETO</td>
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<td>Sesto Calende</td>
<td>24,472</td>
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<td>24,472</td>
<td>24,472</td>
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<td>09/09/2017</td>
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**Affected Population**: The positivity regards a farm of fattening turkeys. Culling of 23,148 turkeys has been completed on 9 September 2017 and all 24,472 turkeys have been safely disposed of.

<table>
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**Affected Population**: The positivity regards a farm of domestic geese. Culling of 1,333 geese has been completed on 14 September 2017 and all 1,425 geese have been safely disposed of.

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<th>Number of outbreaks</th>
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<th>Unit Type</th>
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<td>24,472</td>
<td>24,472</td>
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**Affected Population**: The positivity regards a farm of fattening turkeys. Culling of 23,148 turkeys has been completed on 9 September 2017 and all 24,472 turkeys have been safely disposed of.

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**Affected Population**: The positivity regards a farm of domestic geese. Culling of 1,333 geese has been completed on 14 September 2017 and all 1,425 geese have been safely disposed of.

Follow-up report No.: 31, Report reference: , OIE Ref: 25201, Report Date: 10/11/2017, Country: Italy
<table>
<thead>
<tr>
<th>Province</th>
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<tr>
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<td>29/09/2017</td>
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Affected Population: The positivity regards a farm of fattening turkeys. Culling of 29,866 turkeys has been completed on 30 September 2017 and all 30,076 turkeys have been safely disposed of.

Affected Population: The positivity regards a farm of ducks, broilers and guinea fowls. Culling of 11,914 (10,264 ducks, 1,300 broilers, 350 guinea fowls) has been completed on 29 September 2017 and all 12,150 animals have been safely disposed of.

Affected Population: The positivity regards a backyard farm. Culling of 34 animals has been completed on 29 September 2017 and all 46 animals have been safely disposed of.

Affected Population: The positivity regards a backyard farm. On 11 October 2017 all 8 animals have been safely disposed of.

Affected Population: The positivity regards a layer hen farming. Culling of 74,298 layer hens has been completed on 18 October 2017 and all 74,403 animals have been safely disposed of.

Affected Population: The positivity regards a layer hen farming. Culling of 12,000 layers has been completed on 9 October 2017 and all 12,400 layer hens have been safely disposed of.

Affected Population: The positivity regards a backyard farm. On 11 October 2017 all 8 animals have been safely disposed of.

Follow-up report No.: 31, Report reference: , OIE Ref: 25201, Report Date: 10/11/2017, Country: Italy
<table>
<thead>
<tr>
<th>Province</th>
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### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: BRENDA

**Sub-district**: Farm

**Location**: San Gervasio Brescia

**Latitude**: 45.20994

**Longitude**: 10.155602

**Start Date**: 09/10/2017

**End Date**: 14/10/2017

### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: BERGAMI

**Sub-district**: Farm

**Location**: Cisano Bergamasco

**Latitude**: 45.758437

**Longitude**: 9.455312

**Start Date**: 11/10/2017

**End Date**: 14/10/2017

### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: MANIO

**Sub-district**: Backyard

**Location**: Blello

**Latitude**: 45.858366

**Longitude**: 9.569411

**Start Date**: 12/10/2017

**End Date**: 16/10/2017

### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: MANTOVA

**Sub-district**: Farm

**Location**: Goito

**Latitude**: 45.258501

**Longitude**: 10.648984

**Start Date**: 12/10/2017

**End Date**: 18/10/2017

### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: BREG

**Sub-district**: Backyard

**Location**: Goito

**Latitude**: 45.258501

**Longitude**: 10.648984

**Start Date**: 12/10/2017

**End Date**: 18/10/2017

### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: MANTOVA

**Sub-district**: Farm

**Location**: Goito

**Latitude**: 45.258501

**Longitude**: 10.648984

**Start Date**: 12/10/2017

**End Date**: 18/10/2017

### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: BRESCIA

**Sub-district**: Farm

**Location**: San Gervasio Brescia

**Latitude**: 45.29899

**Longitude**: 10.156951

**Start Date**: 13/10/2017

**End Date**: 17/10/2017

### AFFECTED POPULATION

- **Species**: Measuring units
- **Cases**: Susceptible
- **Deaths**: Killed and disposed of
- **Slaughtered**:
- **Susceptible**: Animals
- **Cases**: Birds
- **Deaths**: Animals

**Province**: LOMBARDIA

**District**: SONDRO

**Sub-district**: Backyard

**Location**: Piavedo

**Latitude**: 46.23943

**Longitude**: 9.59295

**Start Date**: 16/10/2017

**End Date**: 16/10/2017
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<td>Deaths</td>
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<td>Species</td>
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<td>Species</td>
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<td>Species</td>
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<td>Species</td>
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<td>Deaths</td>
<td>Killed and disposed of</td>
<td>Slaughtered</td>
<td></td>
<td></td>
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</tbody>
</table>

Affected Population The positivity regards a backyard farm. All the animals (1 goose, 2 turkeys, 29 laying hens, 3 broilers) have been safely disposed.

The positivity regards a backyard farm, (8 geese, 34 ducks). Culling of 42 animals has been completed on 19 october 2017 and all animals have been safely disposed of.

The positivity regards a backyard farm, (5 laying hens, 6 swan). Culling of 6 animals has been completed on 19 october 2017 and all animals have been safely disposed of.

The positivity regards a farm of fattening turkeys. Culling of 29640 turkeys has been completed on 25 october 2017 and all 29675 turkeys have been safely disposed of.

The positivity regards a farm of fattening turkeys. Culling of 8945 turkeys has been completed on 21 october 2017 and all 8981 turkeys have been safely disposed of.

The positivity regards a layer hens farm. Culling of 52 layer hens has been completed on 25 October 2017 and all 152 animals have been safely disposed of.

The positivity regards a backyard farm (1 goose, 5 ducks). Culling of 6 animals has been completed on 24 october 2017 and all 6 animals have been safely disposed of.

Follow-up report No.: 31, Report reference:  , OIE Ref: 25201, Report Date: 10/11/2017, Country: Italy

Printed on: Fri Nov 10 18:19:51 AST 2017
<table>
<thead>
<tr>
<th>Province</th>
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<th>District</th>
<th>Sub-district</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
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<td>Cases</td>
<td>Deaths</td>
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<td>300</td>
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<td>Cases</td>
<td>Deaths</td>
<td>Killed and disposed of</td>
<td>Slaughtered</td>
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</tbody>
</table>

**Affected Population**

The positivity regards a farm of ducks.

The positivity regards a farm of broilers. Culling of 57031 broilers has been completed on 01 November 2017 and all 58007 animals have been safely disposed of.

The positivity regards a farm of broilers. Culling of 47710 broilers has been completed on 02 November 2017 and all 47780 animals have been safely disposed of.

The positivity regards a commercial farm of fattening turkeys. Culling of 13836 turkeys has been completed on 04 November 2017 and all 13881 animals have been safely disposed of.

The positivity regards a commercial farm of fattening turkeys. Culling of 10221 turkeys has been completed on 07 November 2017 and all 10248 animals have been safely disposed of.

The positivity regards a commercial farm of fattening turkeys. Culling of 19989 turkeys has been completed on 04 November 2017 and all 20289 animals have been safely disposed of.

The positivity regards a commercial farm of fattening turkeys. Culling of 11455 turkeys has been completed on 05 November 2017 and all 11833 animals have been safely disposed of.
<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</th>
<th>Unit Type</th>
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<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
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<td>Backyard</td>
<td>Tivoli</td>
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<td>41.933396</td>
<td>12.82672</td>
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**Affected Population:** The positivity regards a commercial farm of fattening turkeys. Culling of 7352 turkeys has been completed on 05 November 2017 and all 7427 animals have been safely disposed of.

<table>
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<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</th>
<th>Unit Type</th>
<th>Location</th>
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<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
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<td>45.268601</td>
<td>10.198274</td>
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<td>08/11/2017</td>
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**Species**

**Measuring units**

**Susceptible**

**Cases**

**Deaths**

**Killed and disposed of**

**Slaughtered**

**Birds**

**Animals**

- 99
- 99
- 17679
- 177
- 26383
- 371

**Affected Population**

The positivity regards a backyard farm (layer hens).

<table>
<thead>
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<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</th>
<th>Unit Type</th>
<th>Location</th>
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<th>Longitude</th>
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<th>End Date</th>
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<td>Asti</td>
<td>Farm</td>
<td>Montechiaro d’asti</td>
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<td>45.028312</td>
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<td>03/11/2017</td>
<td>08/11/2017</td>
</tr>
</tbody>
</table>

**Species**

**Measuring units**

**Susceptible**

**Cases**

**Deaths**

**Killed and disposed of**

**Slaughtered**

**Birds**

**Animals**

- 29860
- 647
- 36540
- 40

**Affected Population**

The positivity regards a layer hens farm.

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
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</table>

**Species**

**Measuring units**

**Susceptible**

**Cases**

**Deaths**

**Killed and disposed of**

**Slaughtered**

**Birds**

**Animals**

- 19420

**Affected Population**

The positivity regards a commercial farm of fattening turkeys. Culling of 19280 turkeys has been completed on 09 November 2017 and all 19420 animals have been safely disposed of.
### Outbreak summary: Total outbreaks = 73 (Submitted)

<table>
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<tr>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Killed and disposed of</th>
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**Affected Population** The positivity regards a layer hens farm.

### Epidemiology

**Epidemiological comments**
The National Reference Laboratory has sequenced HPAI subtype H5N8. A protection zone of 3 km and a surveillance zone of 10 km have been established.

**Source of the outbreak(s) or origin of infection**
- Unknown or inconclusive

### Measures applied

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<td>movement control inside the country</td>
<td>• disinfection</td>
</tr>
<tr>
<td>screening</td>
<td></td>
</tr>
<tr>
<td>traceability</td>
<td></td>
</tr>
<tr>
<td>official disposal of carcasses, by-products and waste</td>
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<tr>
<td>stamping out</td>
<td></td>
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<td>zoning</td>
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### Animals treated

- Vaccination Prohibited

### Diagnostic test results

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<td>Positive</td>
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### Future Reporting

The event is continuing. Weekly follow-up reports will be submitted.
Outbreak maps