**Follow-up report No.1**


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**Report Summary**

**Name of sender of the report**
Prof. Dr Romano Marabelli

**Position**
Chief Veterinary Officer

**Address**
Viale Giorgio Ribotta,5
Rome 00144

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**Email**
alimentivet@sanita.it

**Date submitted to OIE**
21/08/2013

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**Animal type**
Terrestrial

**Date of report**
21/08/2013

**Disease**
Highly pathogenic avian influenza

**Date of start of the event**
10/08/2013

**Causal Agent**
Highly pathogenic avian influenza virus

**Date of pre-confirmation of the event**
14/08/2013

**Sero-type(s)**
H7N7

**Diagnosis**
Clinical, Laboratory (basic)

**Reason**
New strain of a listed disease

**Country or zone**
a zone or compartment

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**Number of reported outbreaks**

1. EMILIA-ROMAGNA-othrer report - submitted
- Province:
  - EMILIA-ROMAGNA
- District:
  - FERRARA
- Sub-district:
  - Other report - submitted
- Unit Type:
  - Farm
- Location:
  - Ostellato
- Latitude:
  - 44.714462
- Longitude:
  - 11.926653
- Start Date:
  - 10/08/2013
- End Date:
  - 21/08/2013

<table>
<thead>
<tr>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds</td>
<td>Animals</td>
<td>128000</td>
<td>105000</td>
<td>4000</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Affected Population**
Commercial layer hens with clinical signs - PCR positive for H7

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2. EMILIA-ROMAGNA-(this report - submitted)
- Province:
  - EMILIA-ROMAGNA
- District:
  - Bologna
- Sub-district:
  - Mordano
- Unit Type:
  - Farm
- Location:
  - Mordano
- Latitude:
  - 44.391003
- Longitude:
  - 11.793029
- Start Date:
  - 20/08/2013
- End Date:
  - 21/08/2013

<table>
<thead>
<tr>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
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</table>

**Affected Population**
On the basis of the monitoring activities implemented after the detection of the primary outbreak in Ostellato, Ferrara province, notified on last 15 August, a secondary outbreak has been confirmed in Mordano, Bologna province, affecting a commercial farm of layer hens belonging to the same company.

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**Outbreak summary: Total outbreaks = 2 (Submitted)**

<table>
<thead>
<tr>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
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<td>Birds</td>
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<td>712900</td>
<td>105001</td>
<td>4000</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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**Epidemiology**

**Epidemiological comments**
In the secondary outbreak HPAI subtype H7 has been detected at RT-PCR and no clinical signs have been identified. Restriction zone has been established; depopulation will be carried out and epidemiological investigation is on-going.

The depopulation operation in the primary outbreak, in Ostellato, Ferrara province, will be completed today 21 August, followed by cleaning and disinfection. The National Reference Laboratory in Padova confirmed that the virus isolated is an HPAI H7N7 showing an IVPI 3.0.

Genome sequencing as well as the epidemiological investigation are ongoing. Preliminary information would suggest that a LPAI virus entered the farm (possibly via wild birds) where it mutated to a HPAI strain.

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

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**Measures applied**

**Applied**
- Quarantine
- Movement control inside the country

**To be applied**
- Stamping out
- Screening
- Disinfection of infected premises/establishment(s)

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**Animals treated**

**Vaccination Prohibited**

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**Printed on:** Wed Aug 21 17:55:49 CEST 2013
## Diagnostic test results

<table>
<thead>
<tr>
<th>Laboratory Type</th>
<th>Name of Laboratory</th>
<th>Species</th>
<th>Test Type</th>
<th>Date Results Provided</th>
<th>Result</th>
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</thead>
<tbody>
<tr>
<td>National laboratory</td>
<td>Experimental Zooprophylactic Institute (IZSVe), PADOVA</td>
<td>Birds</td>
<td>reverse transcription - polymerase chain reaction (RT-PCR)</td>
<td>21/08/2013</td>
<td>Positive</td>
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<tr>
<td>National laboratory</td>
<td>Experimental Zooprophylactic Institute (IZSVe), PADOVA</td>
<td>Birds</td>
<td>virus sequencing</td>
<td>16/08/2013</td>
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<tr>
<td>National laboratory</td>
<td>Experimental Zooprophylactic Institute (IZSVe), PADOVA</td>
<td>Birds</td>
<td>virus isolation</td>
<td>16/08/2013</td>
<td>Positive</td>
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</table>

## Future Reporting

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