Follow-up report No.: 3

Report Summary

Disease: Highly pathogenic avian influenza
Animal type: Terrestrial
Causal Agent: Highly pathogenic avian influenza virus
Serotype(s): H5N1
Clinical Signs: Yes
Reason: Reoccurrence of a listed disease

Date of first confirmation of the event: 16/01/2008
Date of Start of Event: 15/01/2008
Date of report: 25/02/2008
Date Submitted To OIE: 25/02/2008

Diagnosis: Laboratory (advanced), Necropsy

Number Of Reported Outbreaks: Submitted= 3, Draft= 0

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Entered by: Mrs Françoise Ricordel

Outbreak (other report - submitted)

CRIMEAN
Krasnoyvardeisk
Farm
Rivne
45,52
34,24
15/01/2008

Species: Birds
Measuring units: Animals
Susceptible: 25000
Cases: 173
Deaths: 173
Destroyed: 15000
Slaughtered: 0

Affected Population
Laying hens in two poultry houses. 180-day-old chickens were kept in the first poultry house and 390-day-old chickens in the second one. The youngest population showed first clinical signs of disease.

Clinical signs were detected during epidemiological examination as follows:
depression, disheveled feathers, oedema and cyanosis of head. The period from the first clinical signs till death lasts from 2 to 8 hours. During post-mortem examination, the following observations were made: enlarged liver, enlarged gall bladder and kidneys, catarrhal inflammation of duodenum, pinpoint haemorrhages into submucous membrane of tentferous stomach.

Outbreak (other report - submitted)

CRIMEAN
Chernomorskiy
Kirovskoye
Farm
Kirovskoye
45,5
33,07
05/02/2008

Species: Birds
Measuring units: Animals
Susceptible: 9
Cases: 3
Deaths: 3
Destroyed: 6
Slaughtered: 0
On 5 February 2008, 3 sick birds died (2 chicken and 1 rooster). The other poultry did not show the typical clinical signs of the disease.

**Outbreak (other report - submitted)**

<table>
<thead>
<tr>
<th>CRIMEAN</th>
<th>Sevastopolsky Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMEAN</td>
<td>Sevastopolsky Not applicable</td>
<td>Balaclava, Kruglaya, Kamishovya bays</td>
<td>44.498</td>
<td>33.6</td>
<td>11/02/2008</td>
<td></td>
</tr>
</tbody>
</table>

**Affected Population**

On 11 February 2008, the carcasses of dead wild birds were found in the vicinity to Sevastopol city (3 coots in the Balaclava bay, 1 sea gull and 2 coots in Kruglaya bay and 1 coot and 2 cormorants in Kamishoviy bay)

**Outbreak summary: Total outbreaks = 3 (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>
<tbody>
<tr>
<td>Birds</td>
<td>Animals</td>
<td>25009</td>
<td>176</td>
<td>176</td>
<td>15006</td>
<td>0</td>
</tr>
<tr>
<td>Wild species</td>
<td>Animals</td>
<td>8</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Epidemiology**

**Epidemiological comments**

Phylogenetic sequencing of the isolate conforms to sequence of viruses of avian influenza obtained in 2007 in Czech Republic, Romania, Great Britain and Poland. Virus isolate nucleonic sequence conforms to the same one derived in Czech Republic (A/mute swan/Czech Republic/10732/07) with a confidence level of 99.5%.

Monitoring and laboratory testing are conducted on all species of birds on the whole territory of Ukraine.

From the beginning of 2008, 18,551 examinations were carried out: wild birds (837), synantropic birds (879), backyard flocks (8,525), production establishments (8,310).

**Source of the outbreak(s) or origin of infection**

- Fomites (humans, vehicles, feed, etc.)

**Control Measures**

<table>
<thead>
<tr>
<th>Applied</th>
<th>To be applied</th>
<th>Vaccination Prohibited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control of wildlife reservoirs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stamping out</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Quarantine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Movement control inside the country</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screening</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disinfection of infected premises/establishment(s)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Country / Zone**

Country or zone: a zone or compartment
## 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>
</tr>
</thead>
<tbody>
<tr>
<td>National laboratory</td>
<td>State Research Institute for Laboratory Diagnostics and Veterinary and Sanitary Expertise</td>
<td>Birds</td>
<td>nucleotide sequencing</td>
<td>22/02/2008</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>State Research Institute for Laboratory Diagnostics and Veterinary and Sanitary Expertise</td>
<td>Birds</td>
<td>polymerase chain reaction (PCR)</td>
<td>22/02/2008</td>
<td>Positive</td>
</tr>
<tr>
<td>OIE's Reference Laboratory</td>
<td>VLA-Weybridge, United Kingdom</td>
<td>Birds</td>
<td>virus isolation</td>
<td>13/02/2008</td>
<td>Positive</td>
</tr>
<tr>
<td>Local laboratory</td>
<td>Donetsk Inter-regional State Laboratory of Veterinary Medicine for Avian Diseases</td>
<td>Birds</td>
<td>intravenous pathogenicity index (IVPI) test</td>
<td>21/02/2008</td>
<td>Positive</td>
</tr>
</tbody>
</table>

## Future Reporting

**What further reports will be submitted in relation to this event?**

There are 3 outbreaks that are still recorded as unresolved. It is not possible to declare this event resolved until these individual outbreaks are resolved.