**Follow-up report No.4**


## Report Summary

<table>
<thead>
<tr>
<th>Name of sender of the report</th>
<th>Telephone</th>
<th>Fax</th>
<th>Email</th>
<th>Date submitted to OIE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVM Tihana Miskic</td>
<td>+385 1 6443 246</td>
<td>+385 1 6443 899</td>
<td><a href="mailto:tihana.miskic@mps.hr">tihana.miskic@mps.hr</a></td>
<td>19/01/2017</td>
</tr>
</tbody>
</table>

### Animal type

- **Type**: Terrestrial
- **Date of report**: 19/01/2017

### Disease

- **Disease**: Highly pathogenic avian influenza
- **Date of start of the event**: 30/10/2016
- **Date of confirmation of the event**: 09/11/2016

### Causal Agent

- **Causal Agent**: Highly pathogenic avian influenza virus

### Serotype(s)

- **Serotype(s)**: H5N8
- **Diagnosis**: Clinical, Laboratory (basic), Laboratory (advanced)

### Reason

- **Reason**: New strain of a listed disease in the country

### Country or zone

- **Country or zone**: a zone or compartment

### Number of reported outbreaks

- **Number of outbreaks submitted**: 5
- **Draft**: 0

## Outbreak details

### VUKOVARSKO-SRIJE

**MSKA-other report - submitted**

- **Species**: Mute Swan: Anatidae (Cygnus olor)
- **Number of outbreaks**: submitted
- **Number of cases**: 10
- **Number of deaths**: 10
- **Number of destroyed**: 0
- **Number of slaughtered**: 0
- **Location**: Cerje, Cerje, Village, River Bidj
- **Latitude**: 45.1854438782
- **Longitude**: 18.6601295471
- **Start Date**: 30/10/2016
- **End Date**: 30/10/2016

**Outbreak details**

- **Affected Population**: Approximately ten swans died on the river Bidj but only two of them were available for laboratory testing. Organ samples were taken and submitted on 31 October to the Poultry centre of the Croatian Veterinary Institute. Avian influenza - subtype H5N8 was isolated. Nucleotide sequencing at the cleavage site of the hemagglutinin (HA) of the isolate revealed the multiple basic amino acid sequence "RERRRKR/GLF", which is consistent with highly pathogenic avian influenza.

### OSIJECKO-BARANJSK

**A-other report - submitted**

- **Species**: Mute Swan: Anatidae (Cygnus olor)
- **Number of outbreaks**: submitted
- **Number of cases**: 6
- **Number of deaths**: 6
- **Number of destroyed**: 0
- **Number of slaughtered**: 0
- **Location**: Erdut, Bijelo Brdo, Village, River Drava - Bijelo Brdo
- **Latitude**: 45.52199
- **Longitude**: 18.901235
- **Start Date**: 12/11/2016
- **End Date**: 12/11/2016

**Outbreak details**

- **Affected Population**: Five dead swans were found on the river Drava, near Bijelo Brdo. Organ samples were taken and submitted to the Poultry Centre of the Croatian Veterinary Institute. Highly pathogenic avian influenza H5N8 was isolated. Additionally on the same location, on November 28, 2016 one more swan was found dead, sampled and laboratory results confirmed H5N8.

### GRAD ZAGREB

**Other report - submitted**

- **Species**: Mute Swan: Anatidae (Cygnus olor)
- **Number of outbreaks**: submitted
- **Number of cases**: 2
- **Number of deaths**: 2
- **Number of destroyed**: 0
- **Number of slaughtered**: 0
- **Location**: Grad Zagreb, Jezero Jarun, Other, Jezero Jarun
- **Latitude**: 45.7792
- **Longitude**: 15.9333
- **Start Date**: 04/01/2017
- **End Date**: 04/01/2017

**Outbreak details**

- **Affected Population**: On the same location (lake Jarun) on the January 11, 2017 one great cormorant and on January 12, 2017 one swan were found dead.

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<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>Mute Swan Anatidae (Cygnus color)</td>
<td>Animals</td>
<td></td>
<td>5</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Great Cormorant Phalacrocoracidae (Phalacrocorax carbo)</td>
<td>Animals</td>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Affected Population**

On the lake Soderica, five swans were found dead, one on 10 January 2017, the other four on 13 January 2017.

**Affected Population**

A great cormorant was found dead in the Virovitica city.

**Outbreak summary: Total outbreaks = 5 (Submitted)**

<table>
<thead>
<tr>
<th>Species</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mute Swan</td>
<td>23</td>
<td>23</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Great Cormorant</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Epidemiology**

**Epidemiological comments**

Housing of poultry is prescribed to prevent contact between poultry and wild birds.

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

• Unknown or inconclusive

**Measures applied**

**No Control Measures**

**Animals treated**

Vaccination Prohibited

No Yes

**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>Croatian Veterinary Institute, Zagreb- Poultry Centre</td>
<td>Great Cormorant</td>
<td>polymerase chain reaction (PCR)</td>
<td>18/01/2017</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>Croatian Veterinary Institute, Zagreb- Poultry Centre</td>
<td>Mute Swan</td>
<td>polymerase chain reaction (PCR)</td>
<td>18/01/2017</td>
<td>Positive</td>
</tr>
</tbody>
</table>

**Future Reporting**

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