### Report Summary

**Name of sender of the report:** DVM Tihana Miskic  
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**Email:** tihana.miskic@mps.hr

**Report reference:**  
**Reference OIE:** 22595  
**Report Date:** 27/01/2017  
**Country:** Croatia

**Animal type:** Terrestrial  
**Date of report:** 27/01/2017  
**Disease:** Highly pathogenic avian influenza  
**Date of start of the event:** 30/10/2016  
**Causal Agent:** Highly pathogenic avian influenza virus  
**Date of confirmation of the event:** 09/11/2016  
**Serotype(s):** H5N8

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

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

**Number of reported outbreaks:** submitted=7, Draft=0

### Outbreak details

#### VUKOVARSKO-SKRIJE

- **MSKA-other report - 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>Mute Swan: Anatidae (Cygnus olor)</td>
<td>Animals</td>
<td>...</td>
<td>10</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**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**

<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 olor)</td>
<td>Animals</td>
<td>...</td>
<td>6</td>
<td>6</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**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.

#### SISACKO-MOSLAVAC

- **KA-other report - 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>Mute Swan: Anatidae (Cygnus olor)</td>
<td>Animals</td>
<td>...</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Affected Population:** 3 swans were found dead.

#### GRAD ZAGREB

- **other report - 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>Mute Swan: Anatidae (Cygnus olor)</td>
<td>Animals</td>
<td>...</td>
<td>10</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Affected Population:**
A swan was found dead. HPAI subtype H5N8 is confirmed.
On the same location (lake Jarun) on 11 January 2017, one great cormorant and on 12 January 2017, one swan were found dead. On 15 January 2017, one more swan was found dead.

Affected Population

On the lake Soderica, five swans were found dead, one on January 10, 2017, the other four on 13 January 2017. One more swan was found dead on January 14, 2017.

A great cormorant was found dead in the Virovitica city.

One swan was found dead on the Lake Bundek.

Outbreak summary: Total outbreaks = 7 (Submitted)

### Species

<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>29</td>
<td>29</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
No Control Measures

<table>
<thead>
<tr>
<th>Animals treated</th>
<th>Vaccination Prohibited</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 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, Poultry Centre</td>
<td>Mute Swan</td>
<td>polymerase chain reaction (PCR)</td>
<td>26/01/2017</td>
<td>Positive</td>
</tr>
</tbody>
</table>

### Future Reporting

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