Follow-up report No.2


Report Summary

Name of sender of the report: Dr Mark Davidson
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Date submitted to OIE: 24/04/2020

Animal type: Terrestrial
Date of report: 24/04/2020
Disease: Highly pathogenic avian influenza
Date of start of the event: 06/04/2020
Causal Agent: Highly pathogenic avian influenza virus
Date of confirmation of the event: 08/04/2020
Serotype(s): H7N3
Date of last occurrence: 11/08/2017
Reason: Recurrence of a listed disease
Diagnosis: Laboratory (advanced)
Country or zone: a zone or compartment
Clinical signs: Yes

Number of reported outbreaks: submitted= 1, Draft= 0

Outbreak details

Species

<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Carolina-other report - submitted</td>
<td>-</td>
<td>Chesterfield</td>
<td>Farm</td>
<td>Chesterfield County</td>
<td>34.735</td>
<td>-80.076</td>
<td>06/04/2020</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Killed and disposed of</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds</td>
<td>Animals</td>
<td>34160</td>
<td>1583</td>
<td>32577</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Affected Population: Commercial meat-type turkey flock

Outbreak summary: Total outbreaks = 1 (Submitted)

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Epidemiology

Epidemiological comments

24 April 2020 update

All control area and enhanced weekly surveillance testing have reported negative results since 8 April 2020.
Routine passive and active surveillance for the National Poultry Improvement Plan (NPIP) avian influenza programs is ongoing state-wide in South Carolina.
The USDA Animal Plant Health Inspection Service (APHIS) and South Carolina State Veterinarian’s Office, part of Clemson University Livestock Poultry Health (CULPH), continue conducting a comprehensive epidemiological investigation and enhanced surveillance in the area.
Based on sequencing information for all H7N3 North Carolina/South Carolina (NC/SC) cases, data supports a single virus introduction followed by secondary spread. Mutation of the low pathogenic avian influenza (LPAI) virus to highly pathogenic avian influenza (HPAI) occurred in one house on a single premises.

Sequencing information also supports that H7N3 LPAI NC/SC viruses are:
1. distinct from other recent H7 events in poultry, and have not previously been detected in poultry
2. similar to other wild bird viruses, sharing a common HA ancestry with those from 2016-2018
3. North American wild bird-origin viruses
4. NOT related to the H7N3 HPAI event in Mexico nor the Anhui lineage H7N9 viruses

Source of the outbreak(s) or origin of infection

• Unknown or inconclusive

Measures applied

Applied | To be applied
<table>
<thead>
<tr>
<th>Applied</th>
<th>To be applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>• movement control inside the country</td>
<td>• disinfection</td>
</tr>
<tr>
<td>• surveillance outside containment and/or protection zone</td>
<td></td>
</tr>
<tr>
<td>• surveillance within containment and/or protection zone</td>
<td></td>
</tr>
<tr>
<td>• quarantine</td>
<td></td>
</tr>
<tr>
<td>• official disposal of carcasses, by-products and waste</td>
<td></td>
</tr>
<tr>
<td>• stamping out</td>
<td></td>
</tr>
<tr>
<td>• zoning</td>
<td></td>
</tr>
</tbody>
</table>

Animals treated | Vaccination Prohibited
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No | Yes

Future Reporting

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