Immediate notification report

Report Summary
Name of sender of the report:  MVZ Joaquín Braulio Delgadillo Álvarez
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Position:  Director General de Salud Animal
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Fax:  
Email:  joaquin.delgadillo@senasica.gob.mx
Date submitted to OIE:  10/03/2018

Animal type:  Terrestrial
Date of report:  09/03/2018
Disease:  Highly pathogenic avian influenza
Date of start of the event:  12/02/2018
Causal Agent:  Highly pathogenic avian influenza virus
Date of confirmation of the event:  03/03/2018
Serotype(s):  H7N3
Date of last occurrence:  31/05/2017
Reason:  Recurrence of a listed disease
Diagnosis:  Clinical, Laboratory (advanced)
Country or zone:  a zone or compartment
Clinical signs:  Yes
Number of reported outbreaks:  submitted= 2, Draft= 0

Outbreak details

<table>
<thead>
<tr>
<th>Estado</th>
<th>Number of outbreaks</th>
<th>Municipio</th>
<th>Localidad</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>GUANAJUATO- (this report - submitted)</td>
<td>-</td>
<td>San Felipe</td>
<td>Backyard</td>
<td>San Felipe</td>
<td>21 482469</td>
<td>-101.212514</td>
<td>12/02/2018</td>
<td>20/02/2018</td>
<td></td>
</tr>
</tbody>
</table>

Species | Measuring units | Susceptible | Cases | Deaths | Killed and disposed of | Slaughtered |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds</td>
<td>Animals</td>
<td>1900</td>
<td>1380</td>
<td>1380</td>
<td>520</td>
<td>0</td>
</tr>
</tbody>
</table>

A affected Population: Approximately-80-weeks-old Rhodes Island Red chickens and white chickens in a rural farm.

<table>
<thead>
<tr>
<th>Estado</th>
<th>Number of outbreaks</th>
<th>Municipio</th>
<th>Localidad</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>QUERETARO- (this report - submitted)</td>
<td>-</td>
<td>Cadereyta de Montes</td>
<td>Backyard</td>
<td>Cadereyta de Montes</td>
<td>20.695363</td>
<td>-99.814412</td>
<td>22/02/2018</td>
<td>23/02/2018</td>
<td></td>
</tr>
</tbody>
</table>

Species | Measuring units | Susceptible | Cases | Deaths | Killed and disposed of | Slaughtered |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds</td>
<td>Animals</td>
<td>26</td>
<td>7</td>
<td>7</td>
<td>19</td>
<td>0</td>
</tr>
</tbody>
</table>

A affected Population: Backyard birds with clinical signs: conjunctivitis, watery diarrhea and sudden death.

Outbreak summary: Total outbreaks = 2 (Submitted)

<table>
<thead>
<tr>
<th>Species</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>1926</td>
<td>1387</td>
<td>1387</td>
<td>539</td>
<td>0</td>
</tr>
</tbody>
</table>

Epidemiology

Epidemiological comments:
A farm was detected in Guanajuato within the framework of the permanent National program for active epidemiological surveillance. It initially had 1,400 Rhodes Island Red chickens, before the introduction of 500 white chickens towards the end of the laying phase, supposedly coming from a farm in Jalisco where vaccination is applied. This was verified through serology on 30 sera with two titers of 1:256, four titers of 1:512 and 24 titers of 1:1024. This introduction is considered to be the source of infection of the susceptible birds. Isolation in Querétaro was obtained after the reporting by an authorized laboratory, which provided the official laboratory with the samples.

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As difficulties were faced during typing of the virus, several diagnostic assays were performed until confirmation. Isolated viruses in Guanajuato and Querétaro presented an IVIP of 2.84 and 2.86, respectively.

In both cases, measures to control the epidemic were applied, including quarantine of the premises and killing of the birds. Pre-emptively, a focal zone and a perifocal zone of three and ten kilometers respectively were implemented, where the absence of the disease has been verified. The National veterinary services will keep the epidemiological surveillance going and inform the OIE about any evolution.

Source of the outbreak(s) or origin of infection:
• Introduction of new live animals

Measures applied:
Applied:  
To be applied:  

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Applied To be applied
• movement control inside the country • no planned control measures
• screening
• quarantine
• official disposal of carcasses, by-products and waste
• stamping out
• zoning
• disinfection

Animals treated Vaccination Prohibited
No Yes

<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>SENASICA level-3 biosecurity laboratory</td>
<td>Birds</td>
<td>neuraminidase inhibition assay</td>
<td>03/03/2018</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>SENASICA level-3 biosecurity laboratory</td>
<td>Birds</td>
<td>virus sequencing</td>
<td>23/02/2018</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>SENASICA level-3 biosecurity laboratory</td>
<td>Birds</td>
<td>intravenous pathogenicity index (IVPI) test</td>
<td>19/02/2018</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>SENASICA level-3 biosecurity laboratory</td>
<td>Birds</td>
<td>haemagglutination inhibition test (HIT)</td>
<td>18/02/2018</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>SENASICA level-3 biosecurity laboratory</td>
<td>Birds</td>
<td>virus isolation</td>
<td>19/02/2018</td>
<td>Positive</td>
</tr>
</tbody>
</table>

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