Immediate notification report

Report reference: REF OIE 15389, Report Date: 09/06/2014, Country: Colombia

**Report Summary**

- **Name of sender of the report**: Dr Luis Humberto Martínez Lacouture
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- **Fax**: +571 33 23 707
- **Address**: Carrera 41 No. 17-81 Bogotá D.C. Bogotá
- **Email**: gerencia@ica.gov.co
- **Date submitted to OIE**: 09/06/2014

**Animal type**: Terrestrial

**Causal Agent**: Porcine epidemic diarrhea virus

**Serotype(s)**: Other

**Date of report**: 09/06/2014

**Date of start of the event**: 07/03/2014

**Date of pre-confirmation of the event**: 08/05/2014

**Reason**: Emerging disease

**Disease Name**: *Porcine epidemic diarrhea* *(Disease not listed)*

**Number of reported outbreaks**: submitted= 45, Draft= 0

**Disease Impact**

**Units for morbidity and mortality**

<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>Swine</td>
<td>Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3946</td>
<td>750</td>
<td>426</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Affected Population**: 12 outbreaks affecting mainly backyard farms with semi-confined animals. Quick recovery of the animals is observed.

<table>
<thead>
<tr>
<th>Departamento</th>
<th>Number of outbreaks</th>
<th>Municipio</th>
<th>Vereda</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>HUILA-</td>
<td>12</td>
<td>Neiva, Villa vieja</td>
<td>Guadalupe, Tello</td>
<td>Farm</td>
<td>San Fernando, Las brisas, Casco urbano, La palmita, Los tamarindos, Las bateas, Buenavista, La angostura, Granja Ovín</td>
<td>-75.25099</td>
<td>07/03/2014</td>
<td>09/06/2014</td>
<td></td>
</tr>
</tbody>
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<tbody>
<tr>
<td>CUNDINAMARCA</td>
<td>30</td>
<td>Fusagasuga, Silvania, La Mesa, Granada, La Calera, Chouchi, Tibacuy, San Antonio del Tequendama</td>
<td>Farm</td>
<td>Villa Rosita, El porvenir, San Sebastián and others</td>
<td>-74.22259</td>
<td>08/03/2014</td>
<td>09/06/2014</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Affected Population**: 30 outbreaks located mainly in commercial farms. Backyard farms have also been affected.

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<th>Start Date</th>
<th>End Date</th>
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<tbody>
<tr>
<td>TOLIMA-</td>
<td>-</td>
<td>Bagué Urbano</td>
<td></td>
<td>Farm</td>
<td>Don Rafa</td>
<td>-75.15586</td>
<td>04/04/2014</td>
<td>09/06/2014</td>
<td></td>
</tr>
</tbody>
</table>

**Affected Population**: Animals located in the urban area of the municipality, backyard farm with confined animals.

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<th>Location</th>
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<th>End Date</th>
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<tbody>
<tr>
<td>BOYACA-</td>
<td>-</td>
<td>Tibaná Chiguata</td>
<td>Farm</td>
<td>Portales</td>
<td>5.317222</td>
<td>-73.39694</td>
<td>24/04/2014</td>
<td>09/06/2014</td>
<td></td>
</tr>
</tbody>
</table>

**Species**

- **Swine**: Animals
- **Species measured**: Measuring units
- **Susceptible**: Cases
- **Deaths**: Destroyed
- **Slaughtered**: 0

**Affected Population**: 12 outbreaks affecting mainly backyard farms with semi-confined animals. Quick recovery of the animals is observed.

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Epidemiology

Epidemiological comments:

In March, following an unusual acute diarrhea in pigs (diarrhea and death in piglets), the Colombian Agricultural Institute implemented the following measures in order to identify the disease and control it: health emergency status, quarantine on suspected premises, cleaning and disinfection, movement control, enhanced biosecurity measures, ban on animal gathering, active surveillance, inclusion in the information system as a notifiable disease and epidemiological surveillance, among others.

There have been 45 outbreaks affecting commercial and backyard farms mainly in the Departments of Cundinamarca and Huila (42 outbreaks) as well as one sporadic outbreak each in the Departments of Tolima, Boyacá and Santander. Low morbidity and mortality rates are observed, very different from those observed in other countries as United States of America, Canada and Mexico, and farms recover their production levels in less than two weeks.

As it is a disease never observed in the country, samples were sent to the Plum Island Animal Disease Center in the United States of America in order to confirm the causal agent by RRT-PCR, virus isolation and sequencing.

On 6 June 2014, the USDA confirmed in a preliminary report by RRT-PCR and sequencing that samples submitted were similar to the porcine epidemic diarrhea virus reported in the United States of America but different to the virus observed in Asia.

Source of the outbreak(s) or origin of infection

• Fomites (humans, vehicles, feed, etc.)
• Swill feeding
• Illegal movement of animals
• Legal movement of animals
• Introduction of new live animals
• Unknown or inconclusive

Measures applied

Applied

• quarantine
• movement control inside the country
• disinfection of infected premises/establishment(s)

To be applied

• no planned control measures

Animals treated

Vaccination Prohibited

Yes

Treatment Details

Symptomatic

Diagnostic test results

Laboratory Type

Foreign laboratory

Name of Laboratory

Plum Island Animal Disease Center (United States of America)

Species

Swine

Test Type

real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)

Date Results Provided

08/05/2014

Result

Positive

Foreign laboratory

Name of Laboratory

Plum Island Animal Disease Center (United States of America)

Species

Swine

Test Type

virus sequencing

Date Results Provided

06/06/2014

Result

Positive

Future Reporting

The report and all its outbreaks have been resolved.