Paulius Bušauskas
Adviser of emergency response department

Culling and safe disposal of pig carcasses-Experience of Lithuania

Culling and safe disposal of pig carcasses
Lithuania

- Area-65,300 km²
- Population-2,790,472

Pig population:

<table>
<thead>
<tr>
<th>Farm type</th>
<th>Keepers</th>
<th>No of pigs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backyard</td>
<td>13190</td>
<td>40608</td>
</tr>
<tr>
<td>Commercial</td>
<td>435</td>
<td>519148</td>
</tr>
</tbody>
</table>
Confirmed 2 ASF-positive wild boars on 24 of January 2014

1st hunted 5 km from the border with Belarus

2nd found dead about 40 km north from the border with Belarus

The distance between the two cases was about 36 km
Preparedness for emergency situation

Mobile incineration for carcases

Electrical stunning equipment
Preparedness for emergency situation

Captive bolts

Equipment for disinfection
Outbreak eradication

- The protection of animals at the time of slaughter or killing has been covered by European Community law since 1974 and was substantively reinforced since 1993;
- Main rule - animals shall be spared any avoidable pain, distress or suffering during their killing and related operations.
- In the case of emergency killing, the keeper of the animals concerned shall take all the necessary measures to kill the animal as soon as possible.
Outbreak eradication

- The competent authority responsible for a depopulation operation shall establish an action plan to ensure compliance with the rules on the protection of animals at the time of killing, before the commencement of the operation.
- In particular, the stunning and killing methods planned and the corresponding standard operating procedures shall be included in the contingency plans, on the basis of the hypothesis established in the contingency plan concerning the size and the location of suspected outbreaks.
Challenges

- What to do with carcasses?
- What culling method use?
- What disposal method use?
- Cleaning and disinfection?
Challenge:
How to manage pigs culling

- Captive bolt
- Electrical stunning equipment

CO2 Gas
Challenge:
How to manage pigs disposal

Burial on site;

Rendering/incineration

Burning on site;
7th August 2018 Outbreak eradication in commercial farm (24336 pigs kept)

ACTIONS STEP BY STEP
Measures immediately applied from
24 July 2014

- European Commission, Member States and third countries were informed on the presence of ASF in domestic pigs in Lithuania.
- Immediate notifications were sent through the ADNS and WAHIS systems.
- Protection and surveillance zones were immediately established by order of SFVS Ignalina SFVS and Commission Decision adopted on 7 August 2018.
- A standstill for live pigs and pig meat products was immediately applied by Akmenės district municipality, the location of the outbreak was isolated and controlled. The police were involved in road control within
ENTRANCE CONTROL
Burial on site
Burial place for animals and feed (in mass culling places)
CONTEINERS FOR KILLING
CO2 GAS FOR KILLING
CULLING PROCES USING CO 2 GAS
Desinfection
Territory disinfection
Post Mortem Lesions
Experience in backyard farms

Killing with electrical stunning equipment/captive bolt
Experience in backyard farms

Disposal by burial on the site
Experience in backyard farms
<table>
<thead>
<tr>
<th>Disposal method</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rendering</td>
<td>Clean, no environmental problems, no public complains</td>
<td>Plant capacity, transportation capacity, risk spreading of the disease</td>
</tr>
<tr>
<td>Burning on the site</td>
<td>Shorter distances and transports, less risk of spreading the disease</td>
<td>Risk of fire, environmental problem such as smoke, weather conditions</td>
</tr>
<tr>
<td>Burial on the site</td>
<td>Technical and practical easy, shorter distances and transports, less risk of spreading the disease, Acceptance and approval of the public and environmental CA, level of the ground waters, ground surface (rocks).</td>
<td></td>
</tr>
</tbody>
</table>
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Protecting animals, preserving our future