Depopulation

Dr. Patrick Webb
Director, Swine Health Programs
AVMA- Panel on Depopulation

• Goal – develop the first detailed guidance relating to depopulation
  – Def - large-scale rapid destruction of multiple animals in response to an emergency situation.
AVMA – Panel on Depopulation

- 1st Meeting (Dec 2015)
- Working Groups (2016)
- Member comment (closed April 2017)
- Review / Revise (Sept 2017)
Swine WG

- Dr. Patrick Webb
- Dr. Peggy Anne Hawkins
- Dr. Alex Ramirez
- Dr. Pat Turner
- Sherrie Webb
- Dr. Robert Meyer
Swine section

- Production
- Workforce
- Marketing considerations
<table>
<thead>
<tr>
<th>Incidents</th>
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<tbody>
<tr>
<td><strong>Disease</strong></td>
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<tr>
<td>• Regulatory</td>
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<tr>
<td>• Highly pathogenic</td>
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<tr>
<td>• Emerging</td>
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<tr>
<td>• Zoonotic</td>
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<tr>
<td><strong>Non-disease</strong></td>
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<tr>
<td>• Intoxications and Adulterations</td>
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<td>• Radiological</td>
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<td>• Natural Disasters</td>
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<td>• Economic hardship</td>
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Planning

• Time constraints
• Worker Safety
• Ownership
• Indemnity
• Public Perception
• # of Swine

• Wt. of Swine
• Housing
• Available resources
• Staging
• Handling
• Depopulation
Planning

- Carcass removal
- Disposal method
- Operator & observer impacts
- Decontamination
Implementation

- Preferred methods
- Permitted in constrained circumstances
- Not recommended
Preferred methods

• Given highest priority and should be
• Utilized preferentially
• Could correspond to AVMA Guidelines of euthanasia techniques
Permitted in constrained circumstances

• Circumstances of the emergency constrain reasonable implementation of a preferred method.
• Potential constraints include, but are not limited to:
  – zoonotic disease risk, human safety, depopulation efficiency, deployable resources, equipment, animal access, disruption of infrastructure, and disease transmission risk.
Not Recommend

- Considered ONLY when the circumstances preclude the reasonable implementation of any of the preferred or permitted in constrained circumstances methods
  - risk of doing nothing is deemed likely to have a reasonable chance of resulting in significant animal suffering than that associated with the proposed depopulation technique.
Special considerations

- Dangerous animals
- Non-ambulatory swine
- Fetal pigs
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