**STEP 1:**

Have all alternatives to depopulation been considered?  

**NO**

- Consider alternate management, housing, or marketing strategies to help alleviate or resolve the situation. Examples may include:
  - Moving animals to a different slaughter facility or marketing channel.
  - Move animals to a different housing facility.
  - Hold animals on farm longer if possible, without significant negative impact to animal health and welfare.
  - Alter diet formulations to slow or limit growth.

**YES,** these options are not viable or have been exhausted.

**STEP 2:**

Every situation where depopulation is considered will be unique due to the limitations and constraints imposed by the type of emergency, resource availability, geography, site variation, local regulations, etc. When choosing a depopulation method, the factors listed in the table must be considered to assess the feasibility of each method. Producers should work with their herd veterinarian to discuss these factors and complete the table to document whether each factor positively (+) or negatively (-) contributes to the feasibility of a method if used. Refer to the Choosing a Depopulation Method section of the AASV Recommendations for the Depopulation of Swine for details to consider for each factor.

Depopulation

If depopulation is necessary, refer to the AVMA Guidelines for the Depopulation of Animals and the AASV Recommendations for the Depopulation of Swine for information about depopulation method options.

- Consult with state and federal animal health officials when necessary.
- Consider state laws related to carcass disposal that impact depopulation method decisions.
- Proceed to Step 2 to document the decision-making process for choosing the depopulation method(s) that best suits the situation and available resources.
# Depopulation Decision Tool

<table>
<thead>
<tr>
<th>Factor</th>
<th>Movement to slaughter</th>
<th>Preferred methods</th>
<th>Method permitted under constrained circumstances</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>CO₂</td>
</tr>
<tr>
<td>Phase of production</td>
<td>Finisher &amp; older</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>Animal welfare</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aesthetics</td>
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<td></td>
<td></td>
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<tr>
<td>Worker safety</td>
<td></td>
<td></td>
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<tr>
<td>Biosecurity</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Personnel available</td>
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<td></td>
<td></td>
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<tr>
<td>Resources readily available</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Animal environment</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Rapid application (&gt; 1000 pigs/hr)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Carcass restrictions</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cost</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preference to use</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* This method is not included for swine in the AVMA Guidelines for the Depopulation of Animals, 2019.

CO₂ = carbon dioxide; CO = carbon monoxide; NPCB = nonpenetrating captive bolt; PCB = penetrating captive bolt; MBFT = manual blunt force trauma; VSD⁺ = ventilation shutdown plus.

This table was adapted from Baysinger et al. A case study of ventilation shutdown with the addition of high temperature and humidity for depopulation of pigs. *JAVMA. 2022;259(4):415-424. https://doi.org/10.2460/javma.259.4.415*
Depopulation Decision Tool

STEP 3:

Based on the feasibility assessment, record the method or methods of choice to be used for depopulation. Also record the secondary or backup method to be applied if the primary method is unsuccessful.

Signatures of those participating in the decision-making process can also be recorded here. Signatures of the site owner, veterinarian, and other internal decision makers are suggested. Signatures of state or federal animal health officials may also be included if necessary.

Method(s) of Choice: ____________________________________________________________

Secondary or backup method to be applied if the primary method is unsuccessful:

_____________________________________________________________________________

Approval Signatures

_____________________________________________________________________________

Name ______________________________  Date ______________________________

Title/Company __________________________________________________________________

_____________________________________________________________________________

Name ______________________________  Date ______________________________

Title/Company __________________________________________________________________

_____________________________________________________________________________

Name ______________________________  Date ______________________________

Title/Company __________________________________________________________________

_____________________________________________________________________________

Name ______________________________  Date ______________________________

Title/Company __________________________________________________________________

Development of this resource was funded by USDA’s Animal and Plant Health Inspection Service through the National Animal Disease Preparedness and Response Program.