

Water-based Foam For Mass Depopulation of Poultry

Overview



Mass Depopulation of Poultry

- Euthanasia of large numbers of birds
 - Quickly, efficiently
 - Welfare consideration



- Disease outbreaks
 - Control disease spread to other flocks
 - End suffering of dying birds
- Natural disasters

Just in Time Traini

.....

Water-Based Foam for Depopulation

- Conditionally approved by USDA
 - Method for mass depopulation for floor-reared poultry
 - Under emergency response conditions or potential zoonotic disease
- USDA conditions and standards supported by AVMA

ust in Time Traini

ster-based Foam for I

Advantages of Water-based Foam

- Rapid method for large flocks
- Less handling of birds
 - Less stress on birds
 - Less risk for injury to birds/responders
 - Less exposure to zoonotic diseases
- Decreased labor
 - Fewer personnel required

Just in Time Train

Water-based Foam for P

Advantages

- Foam flows into small areas/crevices
- Foam builds to required height
- Less biosecurity risk
 - Reduces dust and airborne pathogens
 - Adds moisture for composting
 - Disinfectant may be added
- Clean up of foam is minimal

Just in Time Training

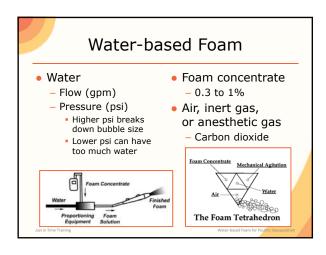
Water-based Foam for Po

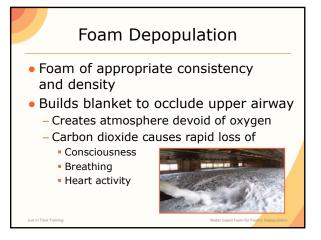
Disadvantages of Water-based Foam

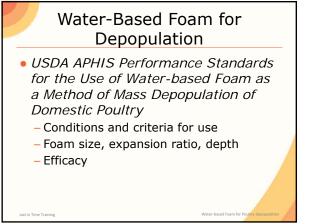
- Availability and cost
- Trained personnel
- Requires large amounts of water
- Floor-reared birds only
- Advance preparation is needed
 - Removal of slats or raised objects

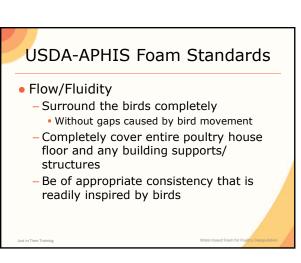
Just in Time Training

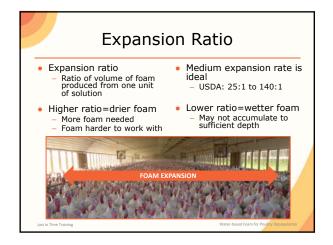
ater-based Foam for Poult

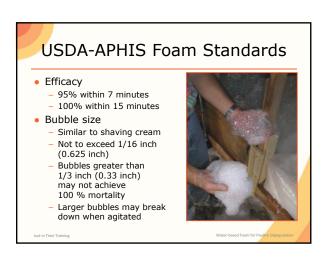


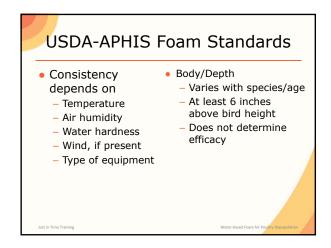


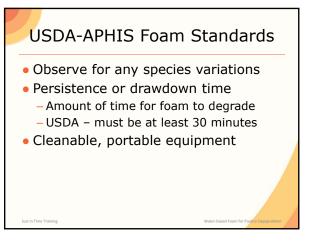




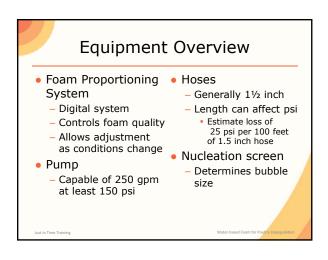


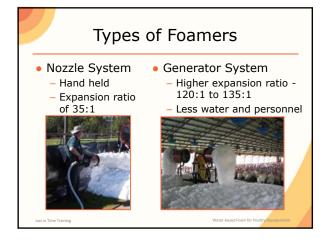


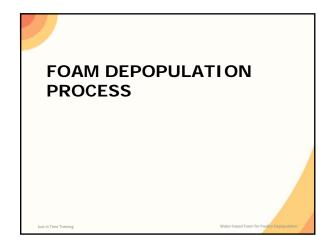








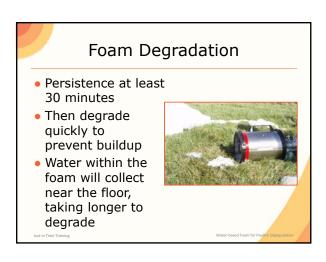


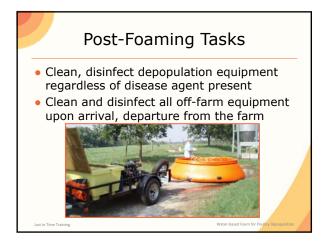


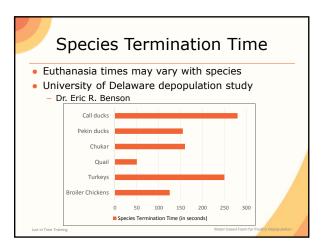




Foam Generator Operation Generator pumps foam and retracts hose as it travels across the house Experienced personnel Equipment operator: Outside Pump operator: Inside Maintain constant foam production







Responder Safety

- Qualified personnel to operate and maintain
 Fire department as possible resource
- Provide appropriate safety training
- Wear appropriate Personal Protective Equipment
 - Suitable respirator equipment (SCBA, oxygen)
 - Colored vests
- Foam is slippery
 - Higher carbon dioxide concentration near floor
 - Anyone working near foam should be observed at all times
 - Dermal irritation/eye irritation

lust in Time Trainin

ter-based Foam for

Resources

- USDA APHIS: Use of Water-Based Foam for Depopulation of Poultry https://www.ayma.org/KB/Policies/Pages/Poultry-Depopulation.aspx
- FAD PReP/NAHEMS Guidelines Mass Depopulation and Euthanasia http://www.cfsph.lastate.edu/pdf/fad-prep-nahems-guidelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulation-and-unit-panelines-mass-decopulat
- American Veterinary Medical Association. Guidelines on Euthanasia www.ayma.org/issues/animal_welfare/euthanasia.pdf
- University of Delaware, Depopulation, Dr. Eric Benson
 http://udel.edu/webenson/Depopulation.htm
- World Organisation for Animal Health. Terrestrial Animal Health Code. Chapter 7.6. Killing of Animals for Disease Control Purposes http://www.oie.int/doc/ged/D13678.PDF

Just in Time Training



Acknowledgments

Development of this presentation was by the Center for Food Security and Public Health at Iowa State University through funding from the Multi-State Partnership for Security in Agriculture

Authors: Glenda Dvorak, DVM, MPH, DACVPM; Abbey Smith, BS



