THE IMPORTANCE OF CONTAINMENT BIOSECURITY

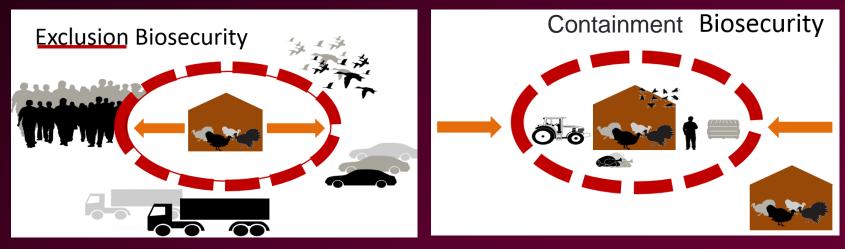
Drs. Gorica Rajcic-Spasojevic & Jill Nezworski MN EDMC Meeting Friday, 25February2022

Regional Biosecurity Program Containment

-a way to stop an early infection from leaving a farm

KEEP THE "OUTSIDE OUT"

KEEP THE "INSIDE IN"



Carol Cardona - UMN

Containment Biosecurity: a good neighbor policy that protects everyone

Practices that:

- protect our neighbors by making sure cases of HPAI don't spread
- shortens an outbreak

3 Simple Steps for MN producers:

- 1. Control all movements
- 2. Exhaust Control
- 3. Communicate

Prevention of HPAI Transmission

- If a farm is suspected or positive for HPAI, an immediate set of measures must be implemented
- Warn everybody who normally have contacts with infected farm
- Notify anybody who might have had recent contact with affected farm

Prevention of HPAI Transmission (Cont.)

- Impose immediate control of traffic from and to the infected farm
- Prevent emission of HPAIV into the environment
- Protect healthy flocks in a 2 mile zone from infected farm

How to Protect Healthy Flocks

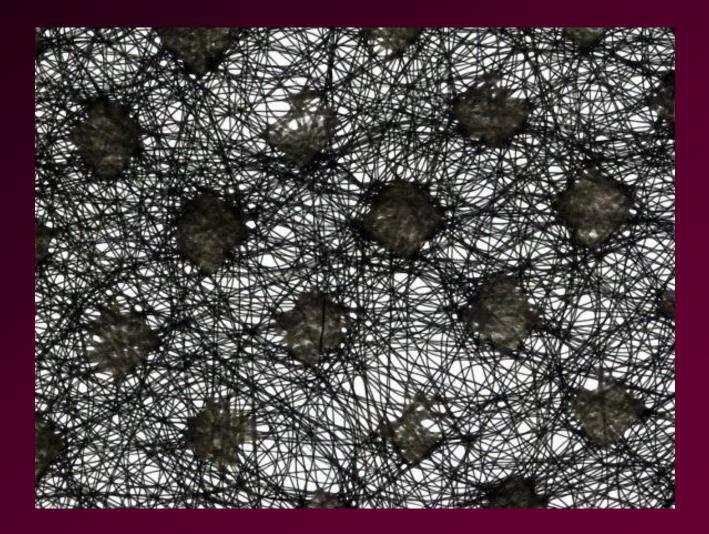
- Filter incoming and outcoming air by using landscape fabric
- Prevent HPAIV air introduction by air into healthy flocks
- Lower the emission of virus from the infected flocks into the farm environment

Landscape Fabric





Landscape Fabric



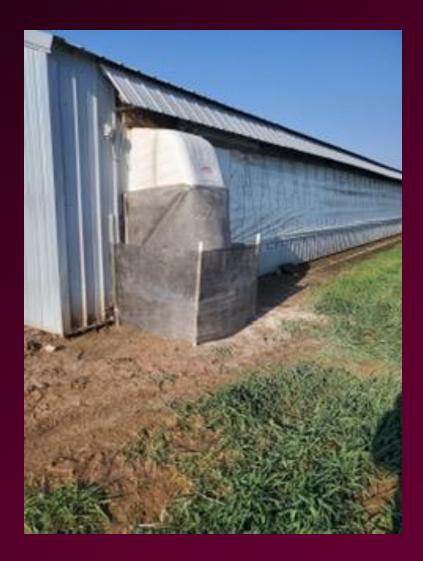
Landscape Fabric on an Open Sided Barn



Reduction of HPAIV Emission and Environment Contamination

- Prevent exhaust outflow from the infected barn
- Contain the contaminated air and direct it into the container with disinfectant
- Disinfect ground around each air exhaust
- Disinfect driveways and farm ground (2-3 times/day)

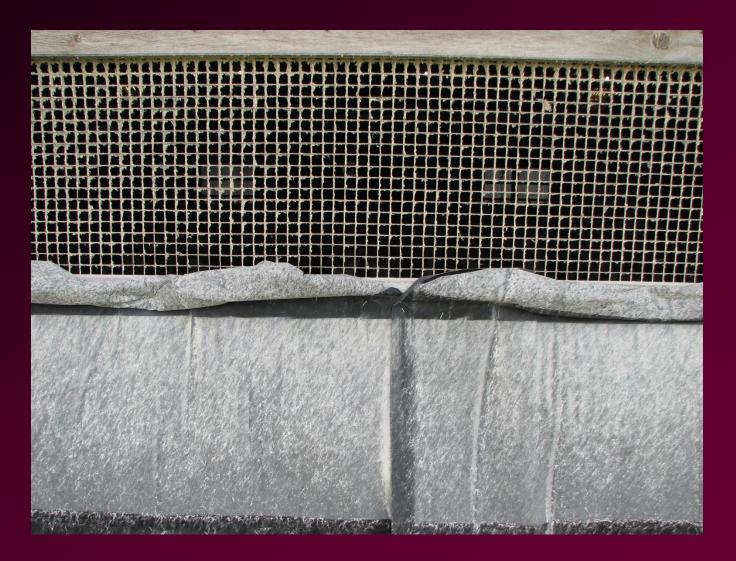
Reduction of Emission of HPAIV



Proper Maintenance of Landscape Fabric

- Spray with disinfectant 3 times a day if a farm in the immediate danger from infection (neutralizing virus on the fabric)
- Spray as needed for dust removal (or every 2-3 days)
- High volume, but low pressure pumps used

Poorly Installed and Maintained Landscape Fabric



The Effects of Landscape Fabric on HPAI Spread

- In 2015, farms that were from 1.5 miles to only ¼ mile far from infected farms, remained negative
- Landscape fabric offered protection and restored hope that we can control spread of HPAIV