Composting AI mortalities

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Introduction

Mission:
Deactivate the HPAI

Method:
Create compost windrows, get average pile temps up over 130°F
Introduction

Two scenarios

- Farms constructed own piles with no supervision or assistance

- Farms assisted by subject matter experts/regulators
Chickens

- Layer barn layout not conducive to in-barn composting
- Compost piles built in manure barn and outside
Chickens

Construction of piles
• Adequate space
• Room for equipment to maneuver
• Outdoor advantage?
• Farm worker assistance invaluable
• Size of birds
• Carbon sourcing problems
Chickens
Chickens

Monitoring

>130°F avg pile temp for at least 3 days
Chickens

Average Windrow Temperature

Turkeys

- Piles constructed in barns
- Very tight operating area for equipment
- Turkeys ranged from 4oz to 70lbs
Turkeys

Pile construction
Exposed birds

Turkeys
Turkeys

Leachate
Turkeys

Underperformance
Turkeys

Vectors
Average Daily Temperature NL 8

05/05/2015 - 06/16/2015

Turkeys
Turkeys

- Base
- Animal Tissue Density
- Moisture
- Cap
- Other factors
Turkeys

Base
Turkeys

Animal Tissue Density
Turkeys

Moisture
Turkeys

Other factors
Turkeys

Average Daily Temperature NW8a
Turkeys

Average Daily Temperature NWMan4
Turkeys

Average Daily Temperature NW5
Issues to be addressed

Authorities
Virus thresholds?
In-barn vs outdoors?
The “Pretty Piles” mindset
Optimizing available carbon usage
Questions?