Welcome!

Improving Modeling and Mitigation Strategies for Poultry Ammonia Emissions Across the Chesapeake Bay Watershed

2:10pm Group Discussion:
Defining priorities and considerations

- Producer operational efficiencies:
  - Bird health (maximize production/performance?)
  - Managing disease
  - Cost/ Cost-Efficiency
  - Managing for consumer interests (organic, etc.)
  - Worker conditions?
  - Other operational efficiencies?

- Environmental consideration:
  - Minimizing ammonia transport to waterways
  - Offsetting the need for commercial fertilizer
  - Freshwater impacts?
  - Localized air quality, human health?

- Other?

2:25pm Group Discussion:
What management options are available and who are they available to?

- What are the management options?
- In-house controls:
  - Diet
  - Bedding/design
  - Litter Amendments
  - Fans / Windrowing
  - Bird Size?
- Exhaust treatment:
  - Vegetated Buffers
  - Biofilters
- Storage controls
- Litter application

2:40pm Breakout Groups:
What are the critical knowledge gaps?

- Do we have standardized evaluation of amendments?
  - Type? Amount? Etc.?

- Do we know which practices are most cost effective? For any priority?

- Do we understand current rates/modes of implementation?
  - Will survey work fill this gap?

- Do we have clear quantification of vegetated buffers?

- Do we understand the fate of 'captured emissions' via biofilters/buffers?

5-minute Break

Return at 2:55 pm

3:00pm Group Brainstorm:
How can the partnership help?

- Could we support additional study of amendments? Could we clarify, study air benefits of vegetated buffers?

- Could the partnership help producers track ammonia by funding monitoring?

- Could we help incentivize opportunities to use captured N?

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• **Upcoming Sessions** •

May 4: Litter Surveys: examine critical knowledge gaps and obstacles to developing and integrating new poultry productions management and mitigation data.

Last Session (date TBD): Synthesis of all workshop sessions.

• **Past Sessions** •

April 21: Follow-up session on the outputs from March 31st. Define priorities and considerations and options available for decision-makers.

April 20: CMAQ apportionment deep dive: How can these new results inform out bay modeling/bay restoration efforts?

March 31: Summarize the effectiveness of various BMPs and incorporate stakeholder input on the practical implications of these BMPs.

November 19: Introduction: What are the key decision points related to this issue? Is the partnership supporting these decision points? How might they?