

Evaluation of Healthy Farms Healthy Agriculture (HFHA) Learning Modules: Knowledge and Intention

Julia M. Smith¹, Jeannette McDonald², Susan Kerr³, Jeanne Rankin⁴, and Joanna Cummings¹ ¹University of Vermont, ²TLC Projects, LLC, ³Washington State Extension (emerita), ⁴Montana State University

Introduction

Animal health management resources on the Healthy Farms Healthy Agriculture (HFHA) website, Healthyagriculture.org, include youth-oriented online learning modules, which introduce concepts of disease transfer and risk management as well as techniques for talking about these concepts. Web accessibility was improved in modules published in early 2022.

Four core modules cover:

- 1) What is Biosecurity?
- 2) Routes of Infection and Means of Transmission.
- 3) Finding Sources of Disease Transmission Risk.
- 4) Biosecurity Strategies.

Two additional modules, Public Speaking for Biosecurity Advocates I and II, present a primer on public speaking using an example of an illustrated talk on livestock biosecurity.

Modules were accessed through:

- 1) Wisc-Online (wisc-online.com/courses) 43.
- 2) HFHA website 5.
- 3) Both sites 10.

Materials and Methods

Learners are invited to respond to a post-completion survey in Qualtrics.

As of January 24, 2023:

- 89 post-completion survey responses were received.
- 58 usable responses have been summarized.

Learning Modules & SCRUB Activities



Learning Module 1
What is Animal Biosecurity?



Learning Module 2
Routes of Infection,
Means of Transmission



Learning Module 4
Biosecurity Strategies

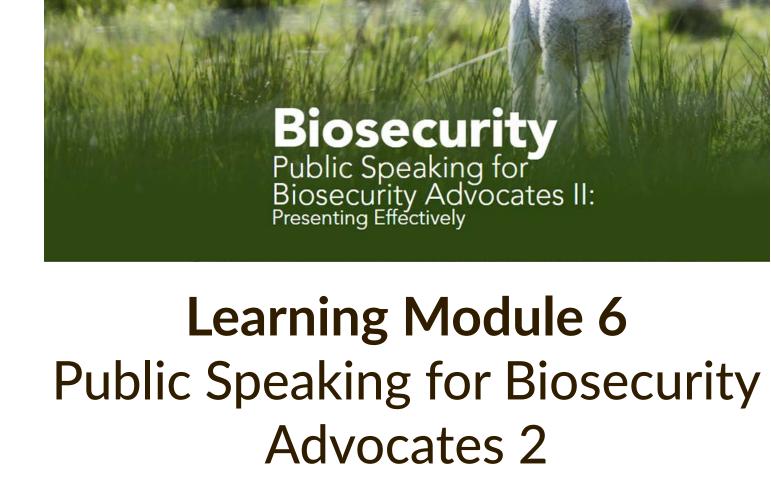


Learning Module 3

Finding Sources of Disease

Transmission Risk

Learning Module 5
Public Speaking for Biosecurity
Advocates 1





Results

Level of Education	Number of Respondents
Grade 6 - 8	12
Grade 9 - 12	38
Post-Secondary	2

Completions	
CA	1
ОН	3
GA	5
NY	5
MI	5
PA	9
WI	10
MT	20

Survey

Key Findings

Most (43) felt confident about helping others practice good biosecurity, but only two had plans to make a formal presentation. Eighteen rated themselves as knowledgeable or very knowledgeable before and after completing the modules. All but two increased their knowledge after indicating they were initially slightly knowledgeable (28) or not at all knowledgeable (11).

The top four behaviors learners planned to implement in the next six months were:

- 1) Manage manure and dirty bedding effectively 36
- 2) Protect feed and water from contamination 34
- 3) Isolate and treat sick animals 33
- 4) Vaccinate against diseases of concern effectively 33

Conclusions

The reported knowledge gain and intention to apply biosecurity practices suggest the modules are effective learning tools. Follow up surveys are designed to allow us to track the implementation of these intentions.



SCRUB Activities