Lesson 1 Study Guide

Engaging Agricultural Workers as Partners in Plant Biosecurity Management

This printable Study Guide is a note taking tool that highlights the key points of the lesson. While it is not mandatory that you complete the study guide, it is designed to prepare you for successfully completing the knowledge assessment.

1. What biosecurity management lessons may be learned from past plant epidemics?

What led to the Irish Potato Famine?

What led to the Southern Corn Leaf Blight epidemic?

2. What triad of conditions helps to predict the likelihood of a plant epidemic?

An __________________ conducive to __________________.
Uniform _________________ in the ________________
________________________.

The introduction of a ______________ or ________________ to ________________.

3. Please list some of the ways a plant epidemic outbreak might spread:

A vector can be defined as ____________________________________________________________.

4. In what ways might a plant epidemic lead to severe economic ramifications?

Why is Spodoptera considered a threat to the U.S.?
5. List several strategies that may be employed to prevent the spread of pests and pathogens.

Immediate solutions:

Longer term solutions:

Novel (Emerging) Solutions:

**Biological control is defined as:**

6. How is biological warfare related to agroterrorism?

**Biological warfare can be defined as ...**

**What countries have engaged in biological warfare research?**

**Agroterrorism can be defined as ...**

**A terrorist would select a biological warfare agent that has these characteristics:**

**An example of an agroterrorist event in the U.S. would be:**

7. What quadrant (A, B, C or D) best represents level of expertise and type of technology needed to launch a biosecurity event? (Circle correct quadrant).

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8. List some of the reasons the U.S. food and supply systems are vulnerable to agroterrorism:

9. Do you believe the U.S. is/is not adequately prepared to fight agroterrorism? Why or why not?

10. How do the homeland security efforts of USDA relate to the mission and goals of the U.S. Department of Homeland Security?

11. In the space below, draw a concept map or diagram that depicts the relationship between the local producer and national homeland security efforts: