Lesson 1 Study Guide Answer Key

Engaging Agricultural Workers as Partners in Plant Biosecurity Management

*The red citations will direct you to the reading that corresponds with each question on the Study Guide.*

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

*What led to the Irish Potato Famine?*

- See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

*What led to the Southern Corn Leaf Blight epidemic?*

- See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

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

- See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

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

- See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

**A vector can be defined as ________________________________ .**

- See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

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

- See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

*Why is Spodoptera considered a threat to the U.S.??*

- See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*
5. List several strategies that may be employed to prevent the spread of pests and pathogens.

**Immediate solutions:**
► See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

**Longer term solutions:**
► See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

**Novel (Emerging) Solutions:**
► See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

**Biological control is defined as:**
► See: *Learning from Past and Current Epidemics: Case Studies, Ramifications, and Emerging Strategies for Combating Plant Diseases*

6. How is biological warfare related to agroterrorism?

**Biological warfare can be defined as ...**
► See: *Introduction to Biological Warfare and Agroterrorism*

**What countries have engaged in biological warfare research?**
► See: *Responding to the Threat of Agroterrorism: Specific Recommendations for the United States Department of Agriculture*

**Agroterrorism can be defined as ...**
► See: *Introduction to Biological Warfare and Agroterrorism*

**A terrorist would select a biological warfare agent that has these characteristics:**
► See: *Introduction to Biological Warfare and Agroterrorism*
► See: *Biological Attack on Agriculture: Low-Tech, High-Impact Bioterrorism*

**An example of an agroterrorist event in the U.S. would be:**
► See: *Introduction to Biological Warfare and Agroterrorism*

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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<thead>
<tr>
<th>A</th>
<th>B</th>
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<td>high level of expertise sophisticated technology</td>
<td>low level of expertise sophisticated technology</td>
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<tbody>
<tr>
<td>high level of expertise unsophisticated technology</td>
<td>low level of expertise unsophisticated technology</td>
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► See: *Biological Attack on Agriculture: Low-Tech, High-Impact Bioterrorism*
8. List some of the reasons the U.S. food and supply systems are vulnerable to agroterrorism:

► See: Biological Attack on Agriculture: Low-Tech, High-Impact Bioterrorism
► See: Responding to the Threat of Agroterrorism: Specific Recommendations for the United States Department of Agriculture

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

► See: Biological Attack on Agriculture: Low-Tech, High-Impact Bioterrorism
► See: USDA Homeland Security Efforts Fact Sheet

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 state and national homeland security efforts:

► See: Responding to the Threat of Agroterrorism: Specific Recommendations for the United States Department of Agriculture
► See: USDA Homeland Security Efforts Fact Sheet