

STUDENT WORKSHEET

ACTIVITY 3: CITRUS GREENING DISEASE

Name _____ Date _____ Class/Hour _____

Answer the following questions as you watch these two videos:

Bitter Fruit - Citrus Greening Disease Threatens Florida Industry www.youtube.com/watch?v=T5nqVmliUaM and

Citrus Greening Disease www.youtube.com/watch?v=G_1sobDdtiM.

1. What is citrus greening disease and what are its symptoms? _____

2. What is the name of the bacterium that causes the disease? _____

3. How does the disease spread in a citrus grove? _____

4. How widespread is this disease in the United States? _____

5. Which groups of people are impacted by citrus greening disease? _____

6. What is the research objective of the scientists' work in the video? _____

7. What is the hypothesis for their research? _____

8. What happens to the bacterium in the body of a psyllid that enables it to be transmitted from one citrus tree to another? _____

9. List the 4 steps in the Detached Leaf Transmission Assay. _____

10. How do the scientists detect the bacteria in the infected leaves and why do they use this method? _____

11. What did the scientists learn through their research? _____

12. What do the scientists hope to eventually be able to do with their information? _____

13. Why do you think this research is important? _____

14. If you could use Genetic Engineering to create a way to control HLB, what would you design, and which pest control method would it use? _____
