Bi 101

Frogs: The Thin Green Line

<http://www.pbs.org/wnet/nature/episodes/frogs-the-thin-green-line/video-full-episode/4882/>

As you view the film, keep the following question in mind: How do scientists know that amphibian species are in decline? (I.e. How are populations monitored?)

**Answer the following questions as you view the film:**

1. How long have frogs been on the planet? \_\_\_\_\_\_\_\_\_\_\_\_\_ million years.
2. Why are frogs so sensitive to changes in the environment?
3. What is particularly unusual about the glass frog?
4. Why are spadefoot toads being edged out by humans in the region of Cape Cod?
5. What disease is causing serious problems to frog populations worldwide?
6. Where did the disease come from?
7. Why are frogs important to the medical community? Give specific examples.
8. What is the potential impact to the rest of the tropical community where frogs are known to have declined?
9. What is the mission of the conservation society called EVACC in Panama?
10. Explain what the problem is with reintroducing frogs that have been treated for the chytrid fungus back into the wild.
11. What has caused the frog deformities in North America?
12. What percentage of frogs are deformed in the surveys conducted in Connecticut?
13. Cr. Tyrone Hays has proposed that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may be a contributing factor.
14. He has proposed that stress hormones can compromise the animal’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system.
15. What has Dr. Hays found about frogs exposed to the pesticide called Atrazine?
16. What is the concern about frogs in Australia? Address what happened in their habitat.
17. Merentelli is trying to drive \_\_\_\_\_\_\_\_\_\_\_\_\_ by helping the frogs develop resistance to the chytrid fungus. Describe his methodology.
18. What ethical dilemma might arise because of such an approach as discussed in the question above?
19. The gopher frog in Georgia has lost \_\_\_\_\_\_\_\_\_\_\_\_\_ of their habitat.
20. How are frogs marked and monitored in the Yosemite study?
21. Are there potential problems with relocation programs for frogs?
22. Why do conservation biologists feel that they are in a race with time?
23. Do you as a viewer and student of biology think that such measures to save imperiled frogs should continue? Why or why not?
24. How could you find out if there are any threatened frogs in your area?