

Bird Island Puerto Rico Exploring Ways to Research Biodiversity

Name: _	
Period:	
Date:	

Instructions: Follow along with your teacher to complete the questions below (use your own computer if available).

'Ecoregions' in Puerto Rico 1. Looking at the map, what are the three ecoregions of Bird Island Puerto Rico Puerto Rico? Legend Puerto Rican Moist Forests 2. Looking at the map, can you figure out why some areas of the island contain dry forest ecosystems and some contain moist ecosystems? Bird Island Puerto Rico High Elevation: 1330 feet Low Elevation: 28 feet

'Habitats' and 'Ecological Niches'







Elfin-Woods Warbler

3.	What is a habitat?
4.	Looking at the map, what are some features of the habitat of the Elfin-Woods Warbler?
5.	Define the term "Ecological Niche" based on the discussion.

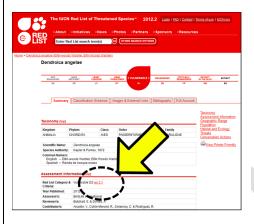
6. Remember from the map that the Warbler lives far from roads. What does this suggest about its habitat

needs?

Research and Assess Biodiversity



http://neotropical.birds.cornell.edu/p ortal/species



http://www.iucn.org

- **EX** No reasonable doubt that the last individual has died.
- **EW** Known only to survive in captivity.
- **CR** Extremely high risk of extinction in the wild.
- **EN** Very high risk of extinction in the wild.
- **VU** High risk of extinction in the wild.
- **NT** Close to being threatened in the near future.
- LC Widespread and abundant.

7. Reading the Neotropical Birds website, what are the physical characteristics of this species, and what does it prefer to eat?

8.	According to the IUCN website

(or class discussion), is this species considered critically endangered (CE), endangered (EN), or vulnerable (VU)?

9. What are the differences between the CR, EN, and VU classifications?

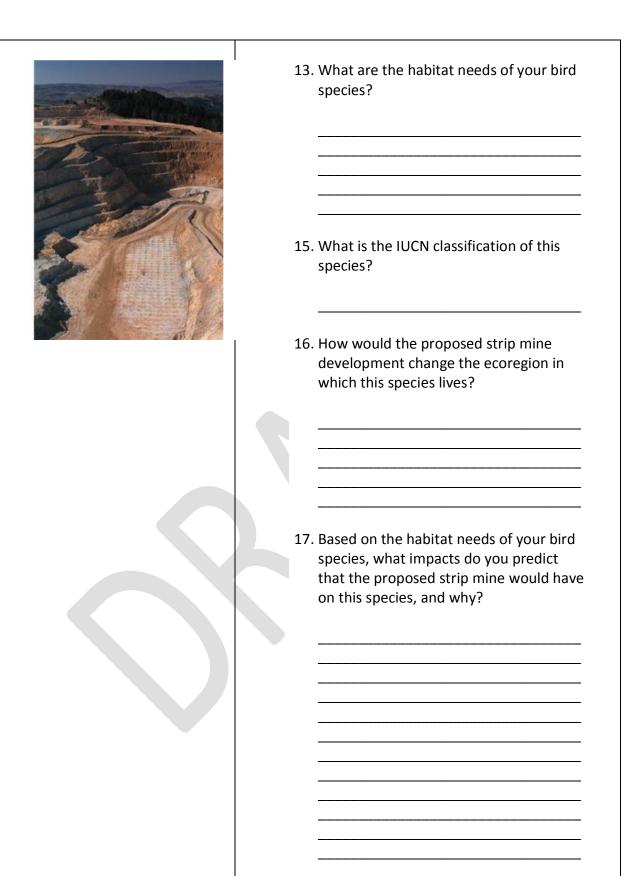
Assessing Impacts to Bird Species as a Wildlife Biologist

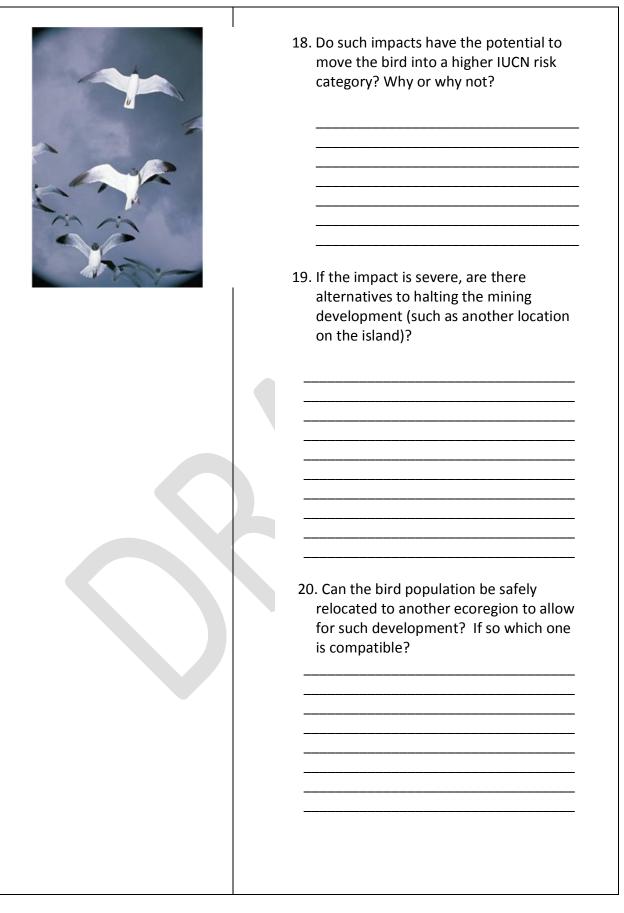


Industrial developers propose to clear-cut forests and strip mine approximately one-third of the western end of the island from Mayaguez to Utoado to mine lithium metal for use in cell phones.

A major highway will also be constructed that bisects the island to allow for the transport of lithium cargo to San Juan airport for overseas delivery.

Working as a team of wildlife biologists, answer the following questions below to help you decide to support or condemn further industrial development in Puerto Rico:						
10. What is the name of your bird species?						
11. In which ecoregions does this species live?						
12. Describe the characteristics of these ecoregions.						







 Choose a person in your group to narrate your presentation in Photo Story.

- Introduce your team of wildlife biologists.
- Use the camera to take pictures of yourself and your teammates to include in the presentation.
- Obtain screen shot photos of your bird from the Cornell website and include in Photo Story.
- Introduce the bird along with its habitat needs and ecoregions.
- State your final recommendation to advocate either for or against the industrial development project.
- Support your decision by discussing the impacts and how your group arrived at the decision.
- Discuss any alternative plans that may allow for any potential compromises

Narrator's Name (s):	
Wildlife Biologist Team Members:	
List Pictures and Proper Order: 1	
2	
567	
Bird Species:	
Habitat Needs:	
Ecoregions in which this species lives:	
Decision:	
Alternatives (if any):	