**ICES Worksheet**

**Sustaining Biodiversity: The Ecosystem Approach**

Using your ICES disk – go to Chapter 17

* READ each section summary – Answer questions
* Answer questions using the interactive figures at the top of the page.

Read chapter summaries:

1. Describe aspects of human activities which impact biodiversity.
2. About how much land in the United States has been set aside as public land to be managed by the federal government?
3. List the lands included in those managed by the federal government and state the agency/department which manages each.
4. Define old-growth forests
5. Define second-growth forests
6. Define tree plantations
7. List two types of forest management and define both of them.
8. Compare/contrast ways trees can be harvested.
9. Compare/contrast surface fires, crown fires, and ground fires
10. Define controlled burning
11. What types of services do the national forests provide to the country?
12. What would environmentalists prefer be the use of national forests?
13. About how much longer are the remaining tropical forests expected to last?
14. What are the “root” causes of tropical deforestation?
15. List at least five ways of reducing degradation and destruction of tropical forests.
16. What are three major threats to National Parks?
17. Define gap analysis
18. Define wilderness
19. What is the limiting factor for filling in an existing wetland?
20. What is more effective than ecological restoration?

Animation #1: Humans Affecting Biodiversity

1. How does food supply and demand lead to climate change?
2. How does climate change lead to biodiversity loss?
3. Relate biodiversity loss to forest product supply and demand.
4. How does forest product supply and demand lead to biodiversity loss?
5. Relate forest product supply and demand to freshwater supply and demand.
6. Freshwater supply and demand leads to biodiversity loss……explain how.
7. How does forest product supply and demand lead to climate change?
8. How can climate change affect forest product supply and demand?
9. Explain how food supply and demand are related to forest product supply and demand.
10. Describe the biodiversity losses caused by food supply and demand.
11. How does the loss of biodiversity lead to food supply and demand?
12. How does biodiversity loss affect changes in climate?
13. How can climate change affect food supply and demand?
14. Describe the effect of freshwater supply and demand on food supply and demand.

Animation #2: Biodiversity Hot Spots

Give details about the species that may be found in each “hot spot” area and the threats to each area.

1. Meso-American forests
2. Choco/Darien region
3. Tropical Andes
4. Brazilian Cerrado
5. Brazils Atlantic forest
6. Guinean Forests
7. Madagascar
8. South Central China
9. Philippines
10. Sundaland
11. New Caledonia