

**Dr. Tsao**

1. List **two** factors that may lead to the emergence of new pathogens and, thus, disease.

1. \_\_\_\_\_

2. \_\_\_\_\_

2. True or False: An infected animal is also a diseased animal.

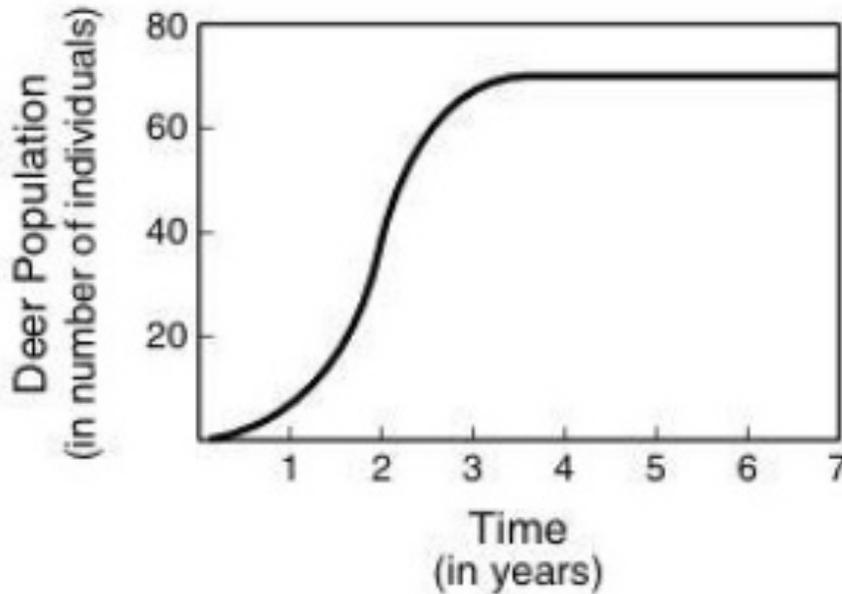
3. In 2015, Chronic Wasting Disease (CWD) was discovered in a 6-year-old, free-ranging white-tailed deer (*Odocoileus virginianus*) in Ingham County. Since then, more CWD-positive free-ranging white-tailed deer have been found in other Michigan townships. Based on what you know about infectious diseases, list two ways in which CWD might have spread from the first deer to other deer in different areas.

1. \_\_\_\_\_

2. \_\_\_\_\_

**Dr. Winterstein**

1. According to the graph, what is the population of deer at the carrying capacity of this environment.



2. You are responsible for managing the black bear population in Baraga County in the Upper Peninsula, and you want to determine how many bear cubs will be born in

January of 2017. List three population measures or metrics you will need to complete this task, and provide an argument for why those measures are important.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

3. Correctly categorize the following factors that limit fisheries and wildlife populations as density-dependent or density-independent factors. Please place an "X" in the appropriate column.

<b>factors</b>	<b>density-dependent</b>	<b>density-independent</b>
weather		
birth rate		
food availability		
predation		
wildfires		
migration		

**Dr. Hayes**

1. A person who enjoys nature photography and bird watching is probably more of a **consumptive user** or **non-consumptive** user of wildlife. (*Circle One*)
2. Briefly describe **two** ways in which human management benefits fish and wildlife communities.

1. \_\_\_\_\_
2. \_\_\_\_\_

**Dr. Roth**

1. Correctly categorize the following sampling strategies as passive or active sampling strategies to study fish or wildlife communities. Please place an "X" in the appropriate column.

<b>factors</b>	<b>passive</b>	<b>active</b>
electrofishing		
trapping		
surveillance		
beach seining		
telemetry		
fyke netting		

2. You are a researcher, and you are interested in determining the diets of adult large mouth bass in Park Lake.

a) First, name **one** methodology you will employ to harvest the fish and provide an argument for why you chose that methodology.

b) Second, name **two** methodologies you will employ to collect information about the diets of adult large mouth bass.

**Dr. Murphy**

1. Name an example of an endocrine disrupter, and explain **one** impact it could have on wildlife.

2. True or False. The introduction of fishing licenses and permits and the subsequent growth in the numbers of fish in the Great Lakes illustrate a causal relationship.

**Molly Good**

1. True or False. An invasive species is a non-native species.

2. An invasive plant species has recently colonized a new habitat. List **two** characteristics of the plant species and **two** characteristics of the new habitat that likely contributed to the colonization.

1. **Plant species:** \_\_\_\_\_

2. **Plant species:** \_\_\_\_\_

3. **Habitat:** \_\_\_\_\_

4. **Habitat:** \_\_\_\_\_

3. Name the vector or pathway of introduction for **one** Great Lakes aquatic species that we discussed in class.