

Topic 2: Ecosystems and Ecology

Topic 2.1: Species and Population



Exam Type Review Questions

1. Define the following terms:

| |
|------------|
| Community |
| Species |
| Ecosystem |
| Habitat |
| Ecology |
| Population |
| Niche |

2. In the space below, draw a population growth curve.

Annotate it to explain the *four phases of growth* and *carrying capacity (K)*.

Topic 2: Ecosystems and Ecology

Topic 2.1: Species and Population



Exam Type Review Questions

3. Outline the following biotic factors:

Mutualism

Predation

Parasitism

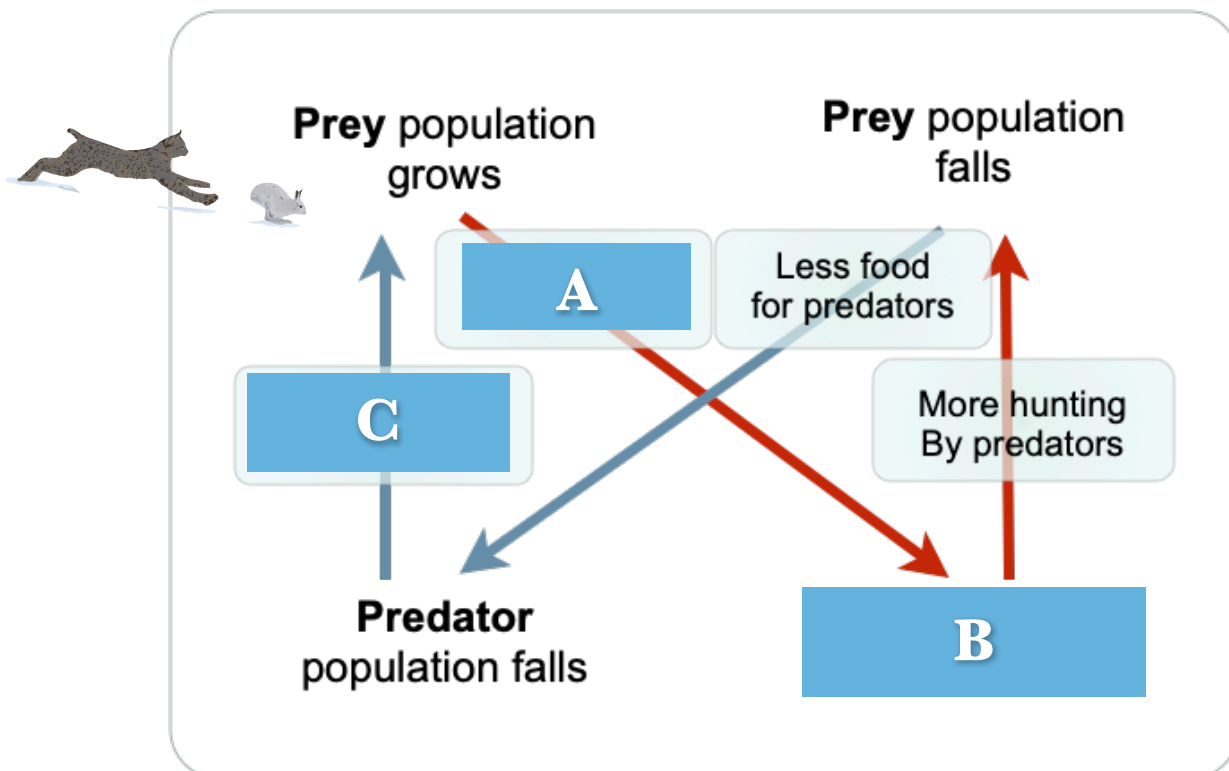
Herbivory

4. Snowshoe hare and Lynx population are controlled by negative feedback loop. State what is happening at Points A, B and C

A

B

C



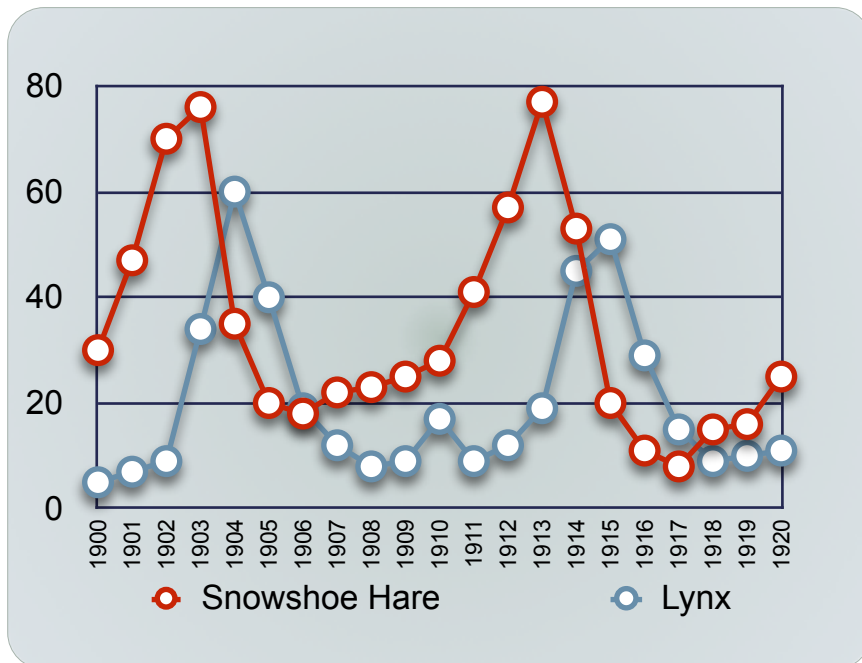
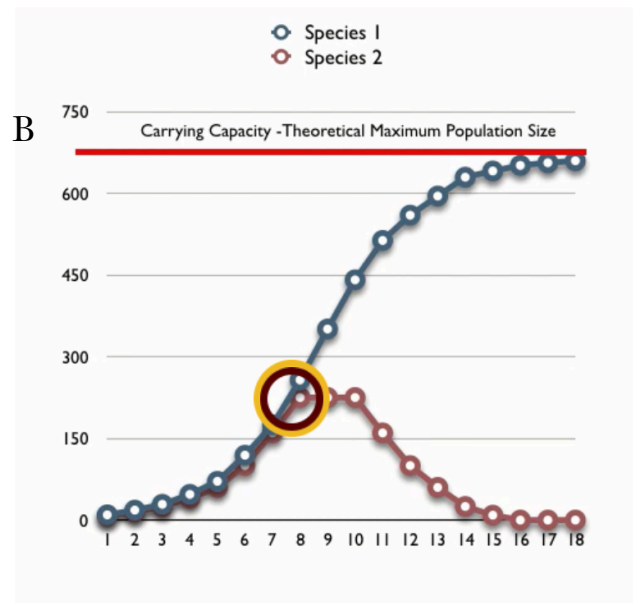
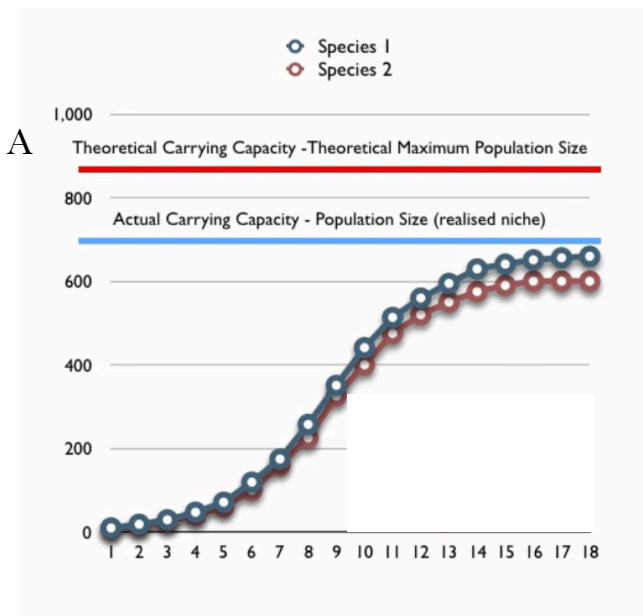
Topic 2: Ecosystems and Ecology

Topic 2.1: Species and Population



Exam Type Review Questions

5. Competition between species may result in the development of two different population responses as illustrated below. Explain how each could develop.



6. Using the graph opposite estimate the lag between the Snowshoe hare and Lynx population numbers.

7. Explain why the peaks and troughs in the Lynx population lags behind the Snowshoe hare population.

Topic 2: Ecosystems and Ecology

Topic 2.1: Species and Population



NB* Unless stated in the presentation all illustrations, figures and images are the property and copyright of N Gardner. fourcornerseducation.net