

Invasive Species

- Invasive vs. Native Species
- The Effect of an Invasive Species on an Ecosystem
- The Small Asian Mongoose
- Controlling Invasive Species
- 5 Extreme Invasive Species



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What is an Invasive Species?

What is a Native Species?

Come up with a definition for both by yourself and write it down.

Invasive Species –

Native Species –

Native Species

- _____

- _____



Invasive Species

- _____
- Can be natural – migration due to habitat loss or range extension
- Or can be a result of human activity
- Generally, are a threat to the natural biodiversity of an area



Zebra Mussel



Asian Carp



Cane Toad



Japanese Beetle

Example - Japanese Beetle

- Japanese Beetle – Accidentally brought to the United States from Japan around 1916 in the soil around imported plants
- They are known to feed on more than 200 species of plants, including a wide variety of trees, shrubs, grasses, and nursery plants.
- Adults consume



Lifecycle of the Japanese beetle. Larvae feed on roots underground, while adults feed on leaves and stems.

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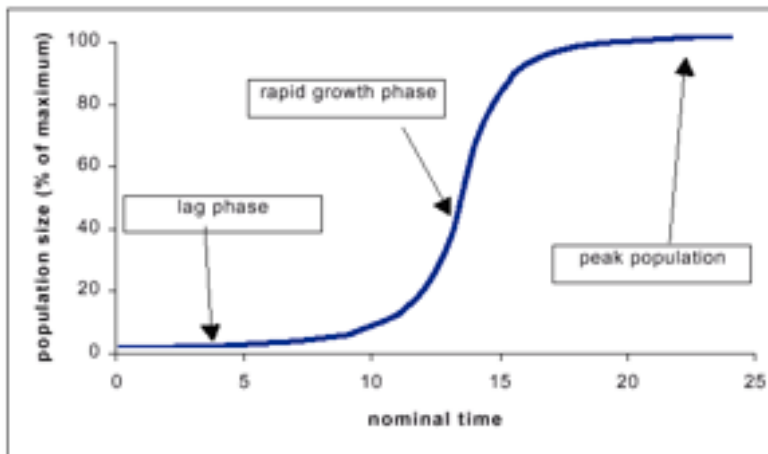
The Effect of an Invasive Species on an Ecosystem

They are four major threats invasive species pose. They can

1. alter the ecosystem.
2. destroy forests, crops or both.
3. reduce the beauty or use of the land.
4. _____

1. Alter the Ecosystem

- Invasive species grow in number quickly
 - Usually due to the lack of predators
- The increased population of invasive species will need food
- This leads to a decline in available food for the native species _____



Population growth pattern of a newly introduced species

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3. Reduce the Beauty or Use of the Land

- Invasive species reduce the water quality and beauty of the landscape.
 - This will negatively impact wildlife viewing.
- Various invasive species can also prevent the enjoyment of natural activities such as swimming and boating.

– _____



4. Introduction of Diseases and Health Risks

- _____
 - Example: Mosquitos and West Nile virus
- Additionally, pesticides which are sprayed to reduce the invasive species population



Example: The Small Asian Mongoose

- In the 1880s, Hawaii's sugar canes were being eaten by the local rats
- As a result, one man brought over the _____



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Controlling Invasive Species

- It's important to prevent the introduction of invasive species
- There are 3 main ways to control invasive species populations.
 - 1) Chemical Control
 - 2) Mechanical Control
 - 3) Biological Control

1. Chemical Control

- The use of pesticides: A pesticide is any substance used to kill, repel, or control certain forms of plant or animal life that are considered to be pests
- _____



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3. Biological Control

- _____
- Unfortunately, the organism that is brought in to remove the invasive species is also an invasive species and can become just as troublesome or worse

Example: The Cane Toad was introduced to Hawaii, the Caribbean, and the Philippines to fight pests in sugarcane fields. Unfortunately, the Cane Toad will eat most things that fit in its huge mouth and this has led to the endangerment of native insects and birds in Hawaii.



5 Extreme Invasive Species

1. _____

2. _____

3. _____

4. _____

5. _____