

Biodiversity and Invasive Species

- Invasive vs. Native Species
- The Effect of an Invasive Species on an Ecosystem
- How Invasive Species Reduce Biodiversity
- Case Study - The Small Asian Mongoose and Cane Toad
- Controlling Invasive Species
- 5 Extreme Invasive Species



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What is an Invasive Species?

What is a Native Species?

What do you think each means? Write your definitions below.

Invasive Species –

Native Species –

Native Species

- _____
- They have developed naturally in a given area over time



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Invasive Species

- _____
- Can be natural – migration due to habitat loss or range extension
- Or can be a result of human activity
- Generally, ...



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 plants
- They are known to feed on more than 200 species of plants
- _____



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

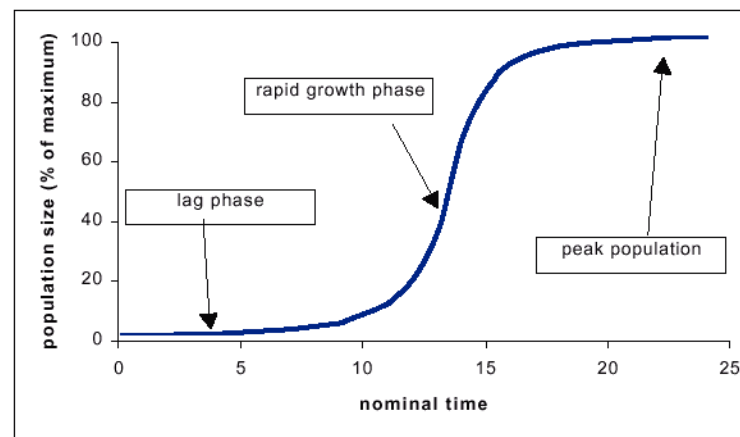
Invasive species can

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



1. Alter the Ecosystem Biodiversity

- Invasive species grow in number quickly
 - Usually due to the lack of predators
 - The increased population of invasive species will need food
 - Invasive species will usually eat 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 can reduce the water quality and beauty of the landscape
 - This will impact the species-environment relationships and decrease biodiversity
- Invasive species can also prevent the enjoyment of natural activities such as swimming and boating

— _____



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Case Study - The Small Asian Mongoose

- _____
- Mongooses breed quickly and soon their population soared
- Currently, they cause approximately \$50 million in damages to the Hawaiian and Puerto Rico islands every year



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Controlling Invasive Species

- It's important to prevent the introduction of invasive species but if they are introduced, you must find a way to get rid of them which can be very difficult
- There are 3 main ways to control invasive species populations.

1. _____

2. _____

3. _____

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

- _____



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3. Biological Control

- _____



Small Asian Mongoose

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



Cane Toad

Case Study – Cane Toad

- The Cane Toad
- Unfortunately, the Cane Toad will eat most things that fit in its huge mouth, and _____



5 Extreme Invasive Species

1. _____
2. _____
3. _____
4. _____
5. _____

