

# Evolutionary Unit 07: Population Ecology

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## 1. Unit 07: Population Ecology

## 4. Chapter: Unit 07: Population Ecology

### 1. Unit 07: Population Ecology Questions

#### 4.1.1. Following the 1883 volcanic eruption of Krakatoa on the Indonesian ...

Author: Olivia D'Ambrogio

Following the 1883 volcanic eruption of Krakatoa on the Indonesian Island Rakata, the island was completely devoid of life. Within a few years, however, some small herbaceous plants began to colonize the remaining rock and soil. This is an example of which of the following?

Please choose only one answer:

- Secondary succession
- Primary succession
- A climax community
- Facilitation

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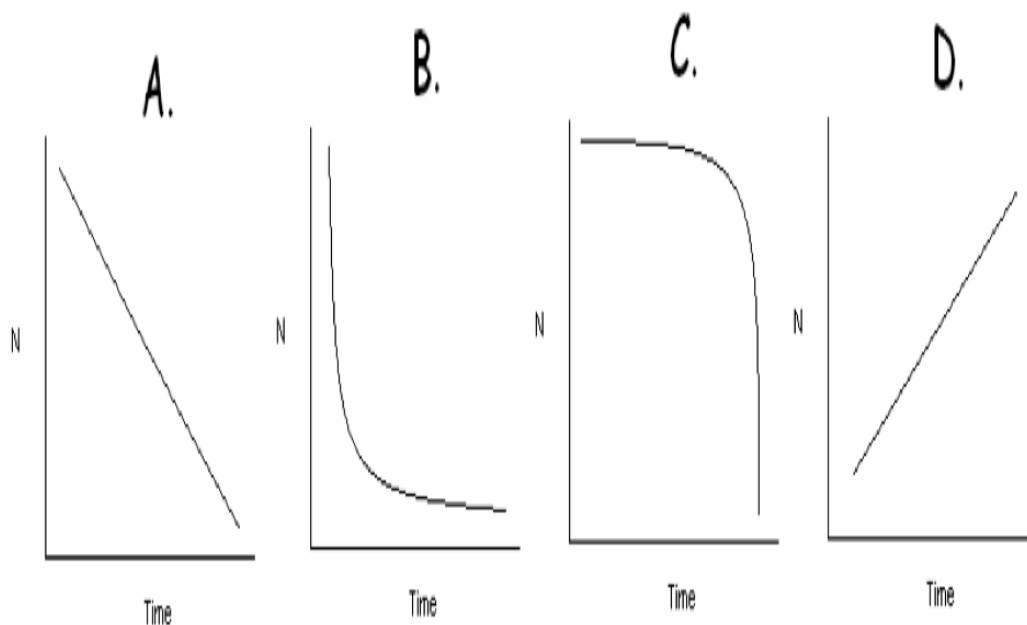
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#### 4.1.2. If most individuals of a species die when they are old (post-reprod...

Author: Olivia D'Ambrogio

If most individuals of a species die when they are old (post-reproductive), then that species population will exhibit which type of survivorship curve?



Please choose only one answer:

- A
- B
- C
- D

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#### 4.1.3. In 1998, a fire in Yellowstone burned 793,880 acres of the park. Wh...

Author: Olivia D'Ambrogio

In 1998, a fire in Yellowstone burned 793,880 acres of the park. While many of the organisms within the park were killed or displaced, recovery from the fire began immediately and existing sprouts and seeds re-colonized the area. This is an example of which of the following?

Please choose only one answer:

- Secondary succession
- Primary succession
- A climax community
- Facilitation

Check the answer of this question online at QuizOver.com:

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#### 4.1.4. In a deciduous forest found in the Eastern US, an 80 year old oak t...

Author: Olivia D'Ambrogio

In a deciduous forest found in the Eastern US, an 80 year old oak tree would be known as which of the following?

Please choose only one answer:

- Secondary species
- Pioneer species
- Climax species
- Primary species

Check the answer of this question online at QuizOver.com:

Question: [In a deciduous forest found in the Eastern Olivia D @Saylor.org Evolutionary](#)

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#### 4.1.5. Many orchids are epiphytes that live on the bark of tropical trees....

Author: Olivia D'Ambrogio

Many orchids are epiphytes that live on the bark of tropical trees. They do not tap into the vascular system of the trees or harm the tree, but they collect the nutrient-rich water that drips through the canopy of the tree. This is an example of which of the following?

Please choose only one answer:

- Mimicry
- Commensalism
- Parasitism
- Mutualism

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#### 4.1.6. Meerkat Manor was a television program on Animal Planet International...

Author: Olivia D'Ambrogio

Meerkat Manor was a television program on Animal Planet International. The series told the story of the Whiskers, one of over a dozen families of meerkats in the Kalahari Desert being studied as part of the Kalahari Meerkat Project, a long-term field study into the ecological causes and evolutionary consequences of the cooperative nature of meerkats. The field biologists studying this group of animals would be considered which of the following?

Please choose only one answer:

- Species ecologists
- Population ecologists
- Community ecologists
- Ecosystem ecologists

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#### 4.1.7. Most populations with unlimited resources will grow exponentially. ...

Author: Olivia D'Ambrogio

Most populations with unlimited resources will grow exponentially. However, due to limiting factors such as amount of food, nesting material, or a buildup of toxins results in a stabilization of the population. This stabilization is known as which of the following?

Please choose only one answer:

- Population growth
- Population density
- Carrying capacity
- Biotic potential

Check the answer of this question online at QuizOver.com:

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#### 4.1.8. Some of the first animal species to colonize Mt. St. Helen's after ...

Author: Olivia D'Ambrogio

Some of the first animal species to colonize Mt. St. Helen's after its eruption were spiders. They "ballooned" in on silk threads. These first species are examples of

Please choose only one answer:

- Secondary species
- Pioneer species
- Climax species
- Primary species

Check the answer of this question online at QuizOver.com:

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#### 4.1.9. The California thrasher lives in the chaparral habitat. This habita...

Author: Olivia D'Ambrogio

The California thrasher lives in the chaparral habitat. This habitat is characterized as a shrubland plant community. The thrasher behavior is closely related to the habitat's characteristics. This bird breeds, nests, and feeds in the underbrush. Additionally, it avoids predation by moving from plant to plant. This usage of the resources of its environment is called which of the following?

Please choose only one answer:

- Niche
- Community
- Survivorship curve
- Cohort

Check the answer of this question online at QuizOver.com:

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#### 4.1.10. The Daintree Rainforest in Queensland Australia is composed of plan...

Author: Olivia D'Ambrogio

The Daintree Rainforest in Queensland Australia is composed of plants and animals that are best suited to the climate conditions of the area. The plants include mature trees and shrubs. If a tree were to be removed from the area, similar species to the one removed would compete for resources (e.g. space, light, etc.). This is an example of which of the following?

Please choose only one answer:

- Secondary succession
- Primary succession
- A climax community
- Facilitation

Check the answer of this question online at QuizOver.com:

Question: [The Daintree Rainforest in Queensland Olivia D'Ambrogio @Saylor Evolutionary](#)

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#### 4.1.11. The swollen-thorn Acacia tree lacks chemical compounds that could a...

Author: Olivia D'Ambrogio

The swollen-thorn Acacia tree lacks chemical compounds that could aid in thwarting predators. However, the Acacia has large thorns that house ants. These ants attack browsing mammals and prune back competing plants. This relationship between the ants and the Acacia tree is an example of which of the following?

Please choose only one answer:

- A predator/prey relationship
- Mutualistic symbiosis
- Parasitism
- Producer/consumer relationship

Check the answer of this question online at QuizOver.com:

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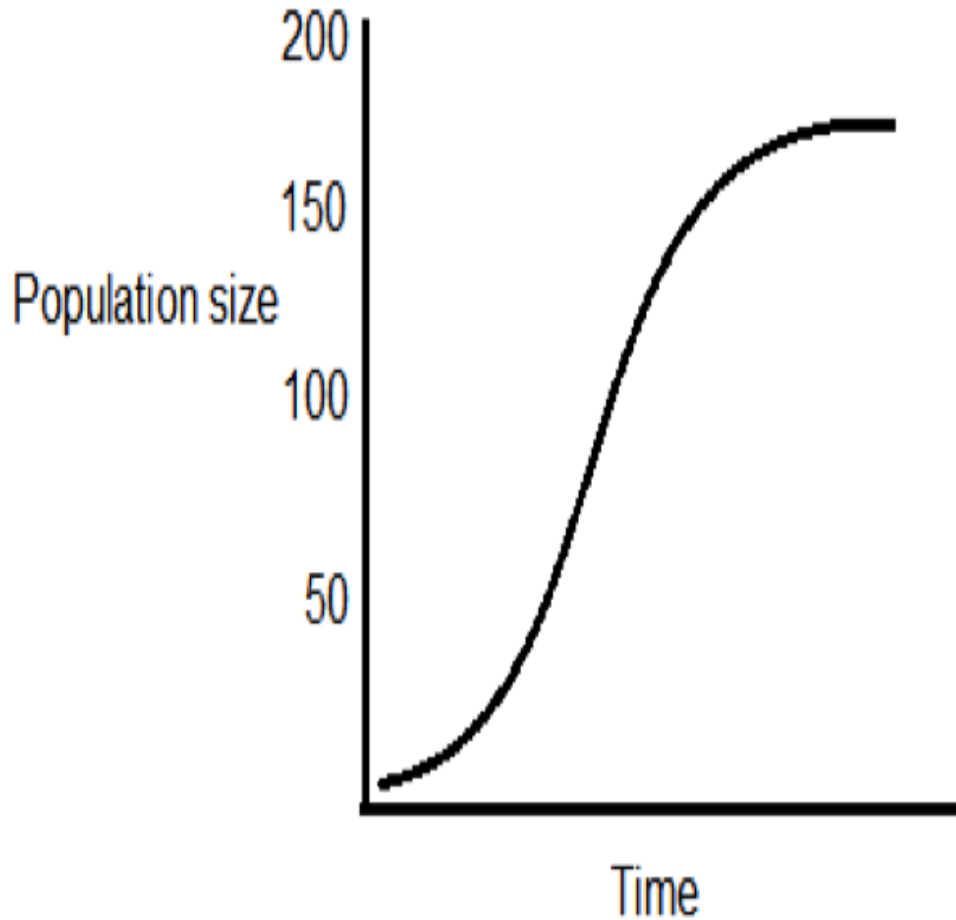
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4.1.12. What is the carrying capacity for the population graphed below?

Author: Olivia D'Ambrogio

What is the carrying capacity for the population graphed below?



Please choose only one answer:

- 25 individuals
- 100 individuals
- 175 individuals
- 200 individuals

Check the answer of this question online at QuizOver.com:

Question: [What is the carrying capacity for the Olivia D'Ambrogio @Saylor Evolutionary](#)

Flashcards:

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Interactive Question:



#### 4.1.13. Which of the following affects population growth?

Author: Olivia D'Ambrogio

Which of the following affects population growth?

Please choose only one answer:

- Amount of available resources
- Birth and death rates
- Life history factors
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following affects population Olivia D @Saylor.org Evolutionary](#)

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#### 4.1.14. Which of the following is a difference between a food chain and a f...

Author: Olivia D'Ambrogio

Which of the following is a difference between a food chain and a food web?

Please choose only one answer:

- Food chains involve only plants, while food webs involve both plants and animals.
- Food chains involve only animals, while food webs involve both plants and animals.
- Food chains involve plants and animals, but food webs involve only animals.
- Food chains are linear and food webs are complex.

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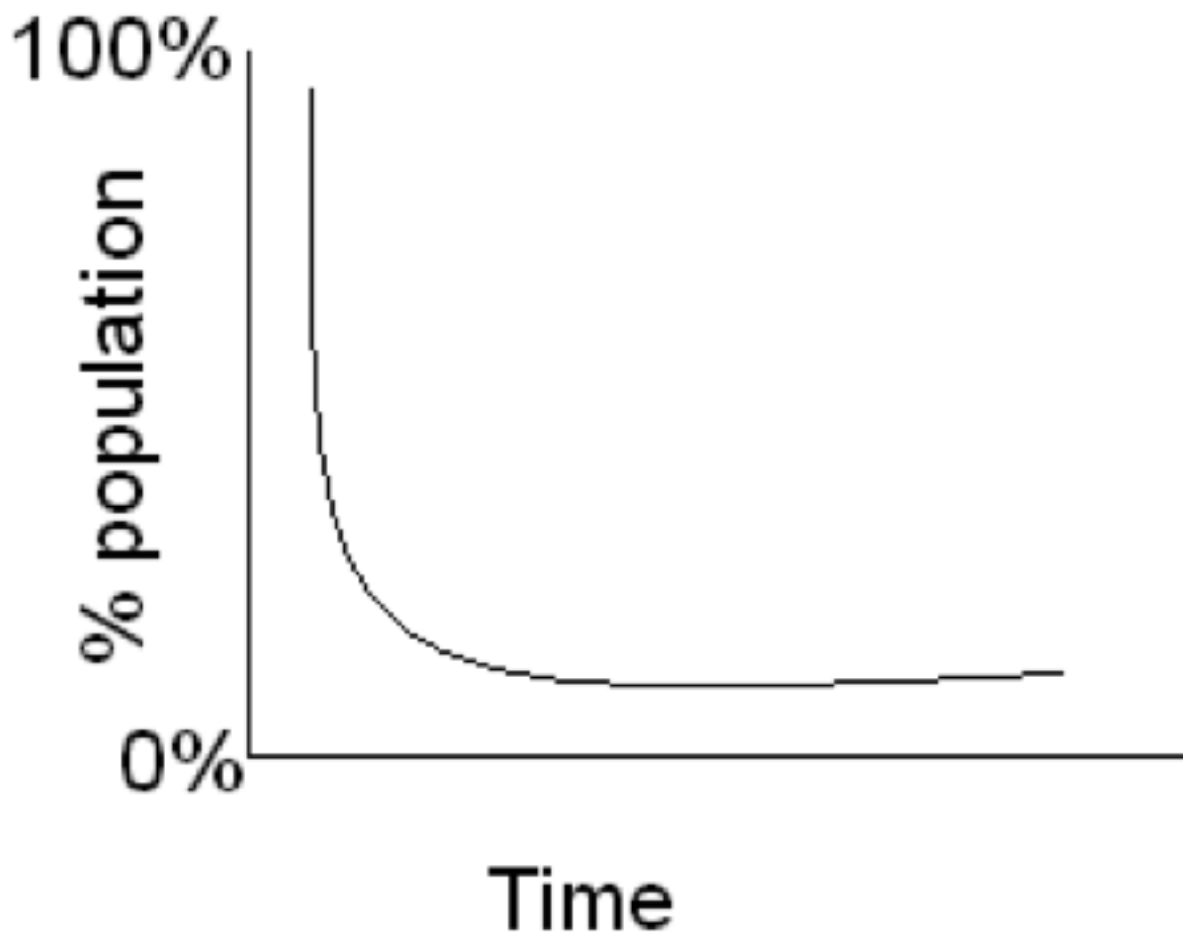
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4.1.15. Which of the following species would have a survivorship curve like...

Author: Olivia D'Ambrogio

Which of the following species would have a survivorship curve like the one pictured below?



Please choose only one answer:

- Humans
- Elephants
- Bears
- Fire flies

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Question: [Which of the following species would have Olivia D @Saylor.org Evolutionary](#)

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