

Name: [REDACTED]

Wolf-Moose Population Questions

Look back at the graph of the wolf and moose populations you created yesterday to answer the following questions.

1. Can the island support an infinite number of moose? Why or why not?

No. All areas have a carrying capacity.

2. If there were no wolves on the island, what would determine the number of moose on the island?

Density-dependent and density-independent limiting factors.

3. Is predation a density-dependent or density-independent limiting factor? Explain your answer.

Density-dependent because the more prey there is, the more predators and vice versa.

4. When the moose population increases, what happens to the wolf population? Why do you think this happens?

It increases. Moose are the wolves food source, so more moose can support more wolves.

5. What causes the moose population to decrease? Why?

More wolves come and eat the moose.

6. This relationship is called a predator and prey cycle. Why do you think the term cycle is used? Explain your answer.

The term cycle is used because the same thing will keep happening over and over again.

7. Why do you think the predator-prey interaction is studied so much on Isle Royale?

It's an isolated area, which means it's a controlled testing sight.

Name

Wolf-Moose Population Questions

Look back at the graph of the wolf and moose populations you created yesterday to answer the following questions.

1. Can the island support an infinite number of moose? Why or why not?



No because there may be wolves on the island decreasing the population. Another could always be a different predator. limited resources

2. If there were no wolves on the island, what would determine the number of moose on the island?

if there weren't any wolves on the island what would determine the moose population is the lack of resources, food, or space, disease

3. Is predation a density-dependent or density-independent limiting factor? Explain your answer.

predation is a density-dependent limiting factor because prey tend to reproduce (going up and down) prey tend to reproduce ship.

4. When the moose population increases, what happens to the wolf population? Why do you think this happens?

When the wolf population increases the moose population get higher because they then have food to eat.

5. What causes the moose population to decrease? Why?

What causes the moose population to decrease is the lack of food or if the rate of predator eating them, no food, hunting, diseases,

6. This relationship is called a predator and prey cycle. Why do you think the term cycle is used? Explain your answer.

It constantly happening going up and down

7. Why do you think the predator-prey interaction is studied so much on Isle Royale?

no outside interaction

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Look back at the graph of the wolf and moose populations you created yesterday to answer the following questions.

1. Can the island support an infinite number of moose? Why or why not?

No. ~~The~~ The island has a carrying capacity.

2. If there were no wolves on the island, what would determine the number of moose on the island?

Density-dependent & Density-independent limiting factors.

3. Is predation a density-dependent or density-independent limiting factor? Explain your answer.

Density-dependent. It's something that the animals control.

4. When the moose population increases, what happens to the wolf population? Why do you think this happens?

It increases because the wolves would have an abundance of food.


5. What causes the moose population to decrease? Why?

Wolves eating them. If the wolves eat ~~more~~ a lot, the death rate would be larger than the birth rate and the population decreases.

6. This relationship is called a predator and prey cycle. Why do you think the term cycle is used? Explain your answer.

It's ~~just~~ a cycle because it continually happens. The moose population rises, the ~~moose~~ wolf population falls; the moose population falls, the wolf population rises.

7. Why do you think the predator-prey interaction is studied so much on Isle Royale?

Because the island is small and easy to record. 

Name [REDACTED]

Wolf-Moose Population Questions

Look back at the graph of the wolf and moose populations you created yesterday to answer the following questions.

1. Can the island support an infinite number of moose? Why or why not?

No, because there won't be enough room.

2. If there were no wolves on the island, what would determine the number of moose on the island?

There would be a lot of moose because there's nothing to kill them.

3. Is predation a density-dependent or density-independent limiting factor? Explain your answer.

Dependent, it's the one that controls the population of the prey and itself.

4. When the moose population increases, what happens to the wolf population? Why do you think this happens?

More wolves will come because wolves eat moose and it will attract more wolves.

5. What causes the moose population to decrease? Why?

More wolves coming and eating mooses.

6. This relationship is called a predator and prey cycle. Why do you think the term cycle is used? Explain your answer.

I think each time the population goes up and down and keep going which is a cycle.

7. Why do you think the predator-prey interaction is studied so much on Isle Royale?

There mainly wolves and mooses there.

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Wolf-Moose Population Questions

Look back at the graph of the wolf and moose populations you created yesterday to answer the following questions.

1. Can the island support an infinite number of moose? Why or why not?

No, they wouldn't have ~~enough~~ enough resources on the island to support them.

2. If there were no wolves on the island, what would determine the number of moose on the island?

~~There would be a lot of moose~~ There would be limiting factors like competition or stress from overcrowding that would also come into play.

3. Is predation a density-dependent or density-independent limiting factor? Explain your answer.

It is dependent because that is something that can be determined by the number of predators and prey on the island.

4. When the moose population increases, what happens to the wolf population? Why do you think this happens?

The wolf population increases because they would have more food to support a larger population.

5. What causes the moose population to decrease? Why?

It is caused by a large number of wolves because the wolves would end up killing off all the moose.

6. This relationship is called a predator and prey cycle. Why do you think the term cycle is used? Explain your answer.

It is a cycle because this happens over and over again, ~~until~~ this happens until one possibly goes extinct.

7. Why do you think the predator-prey interaction is studied so much on Isle Royale?

It is a closed off area with limited resources. ~~It is a perfect natural experiment~~ It's ~~the~~ one of the greatest places on Earth to study predator-prey relationships.

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Wolf-Moose Population Questions

Look back at the graph of the wolf and moose populations you created yesterday to answer the following questions.

1. Can the island support an infinite number of moose? Why or why not?
 No because it is an isolated island. It has a capacity.
2. If there were no wolves on the island, what would determine the number of moose on the island?
 Food supply. Disease.
3. Is predation a density-dependent or density-independent limiting factor? Explain your answer.
 Density-dependent. ~~predation~~ depends on the amount of prey.
 The predator
4. When the moose population increases, what happens to the wolf population? Why do you think this happens?
 When the moose population increased the wolf population ~~decreased~~ increased
5. What causes the moose population to decrease? Why?
 The wolves decrease moose population because they need food.
6. This relationship is called a predator and prey cycle. Why do you think the term cycle is used? Explain your answer.
 I think it is to balance nature. It just happens over and over which is why it is a cycle.
7. Why do you think the predator-prey interaction is studied so much on Isle Royale?
 I think it is because it is an isolated area. There may be curiosity about population ~~because~~ because of that. Curiosity on what happens. It is limited, no hunting, and no immigration.

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Wolf-Moose Population Questions

Look back at the graph of the wolf and moose populations you created yesterday to answer the following questions.

1. Can the island support an infinite number of moose? Why or why not?

no, because with an infinite number of moose they would have to compete for their food in order to survive

2. If there were no wolves on the island, what would determine the number of moose on the island?

It would be their food supply and which moose get it or eat it first.

3. Is predation a density-dependent or density-independent limiting factor? Explain your answer.

It's a Density-Dependent limiting factor because the predator depend on its prey to survive

4. When the moose population increases, what happens to the wolf population? Why do you think this happens?

The wolf population goes down because they haven't been eating their prey/moose.

5. What causes the moose population to decrease? Why?

The wolf population because they kill the moose to survive.

6. This relationship is called a predator and prey cycle. Why do you think the term cycle is used? Explain your answer.

The term cycle is used because with predator and prey they depend on how each other react if the predator eat the prey their population goes down, but if the predator

7. Why do you think the predator-prey interaction is studied so much on Isle Royale?

I think predator-prey is studied so much is because it shows how two would depend on one another.

don't the prey population goes up