

Never Cry Wolf
Notes and Ecology Review

Name _____

1. What is the Purpose of the “Research Project” depicted in the Film?
 - The **problem** being addressed is...
 - The initial **hypothesis** is...
 - The **method** of confirming or rejecting the hypothesis is...
 - What type of **data** would Tyler collect that would support the hypothesis?
How would he obtain the data?

2. What is the name of the project? _____
3. Where does that name stem from? _____

The true story takes place (and was filmed on location) in an **ECOSYSTEM** which is part of the **TUNDRA BIOME**. The **TUNDRA BIOME** is defined by the dominant species in the ecosystem that make up the **CLIMAX COMMUNITY** and certain **Abiotic Factors**.

4. List 3 **animal** species which make up the **CLIMAX COMMUNITY** in the **TUNDRA**
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5. List 2 **plant** species that make up the **CLIMAX COMMUNITY** in the **TUNDRA**
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6. Describe 3 **ABIOTIC** Factors which help define the TUNDRA BIOME
_____, _____, & _____

7. Observe almost all the rocks in this ecosystem. They are covered with gray/green blotches. What is this on the rocks?

What niche does it serve in the ecosystem

Name and describe the relationship between the organisms that make up the gray/green blotches.

8. What did the wolf do to Tyler's suitcase ?
9. What did Tyler mean when he said "the wolf fired the first shot"?
10. How did Tyler respond to the wolf's actions and what was the meaning of his response?
11. Has any data been gathered that would support or reject the original hypothesis that the wolves are eating the Caribou and reducing their population?
 - Supporting Data:
 - Data rejecting the hypothesis
12. What is Tyler's new Hypothesis about Wolf feeding habits?
13. From what you have seen so far compare the **CARRYING CAPACITY** of the ecosystem for populations of Mice, Wolves, and Caribou (discuss an estimate #of each organism per sq. acre, sq. mile, etc. that Tundra can support)

Carrying capacity for Mice might be about...

Carrying capacity for Wolves seems to be about...

Carrying capacity for Caribou seems to be about ...
14. Use what you know about the "Energy Transfer Pyramid" and discuss whether you think the wolves are more likely to get enough energy from tiny mice which live their whole lives in about 10 square meters, or the large meaty Caribou that migrate across the Tundra with the seasons.
(Be sure to EXPLAIN what you think and support WHY you think it).
15. Ootek tells an Inuit legend of the Caribou and Wolf. Rather than harming the balance of nature the Wolf's role is beneficial. Describe what the niche of the Wolf is in this story and why that is important to the Caribou.

Tyler finally sees a large herd of Caribou and the wolves interacting with it.

16. What is the niche of the wolves?

Support your answer with specific evidence (just like Tyler)

17. The Caribou herd Tyler witnesses has a large population. Does this mean that the carrying capacity of the Tundra, for Caribou, is actually a large population per acre? How have Caribou adapted a lifestyle (behavior) which explains this seeming paradox?

18. Tyler meets “Rosie” the pilot out on the Tundra. From what you see and hear of Rosie’s conversation, what would you say is the means of his newfound wealth, and what are his future plans?

19. Mike makes the statement “This *thing* is too big for you, It’s a question of survival, survival of the fittest”. What is “*the thing*” that Mike is referring to?

20. What evidence do you have that Mike is “more fit” than his wild competitors?

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21. What is actually causing the decline in the Caribou heard?

22. In what way does the presence of Humans and development causing the decrease in population? List 3 Human Impacts on this Ecosystem and a possible negative result.

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