

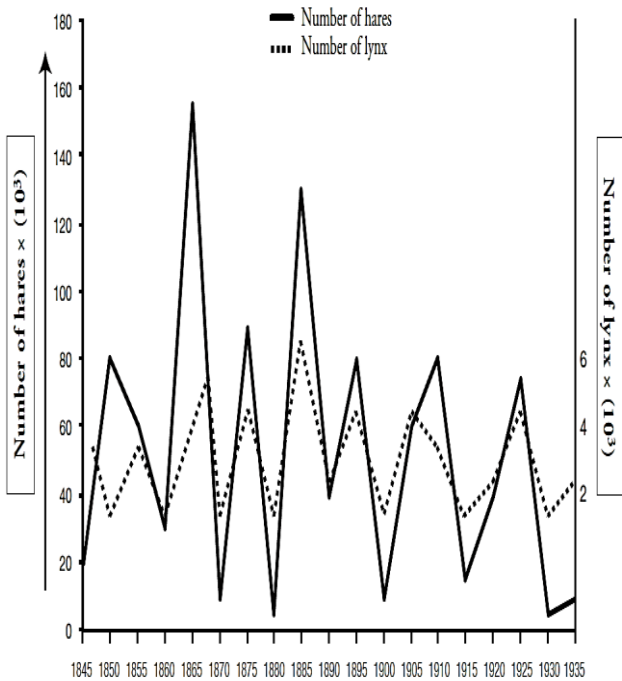
Symbiosis Practice

1. _____ A tick living on a dog.
2. _____ The honeyguide bird leading the honey badger to the bees hive, both eat the honey.
3. _____ A tapeworm living in a 6th grade students intestines.
4. _____ A bird building their nest in a tree.
5. _____ Head lice living on a human scalp.
6. _____ The egret, and insect eating bird, grazing near some herbivores mouth.
7. _____ The remora hitching a ride on a shark.
8. _____ Bees and a flower.
9. _____ Bacteria living in the intestines of a cow to help it break down cellulose.
10. _____ Mistletoe extracts water and nutrients from the spruce tree to the causing the tree harm.
11. _____ Hermit crabs living in shells made and then abandoned by snails.
12. _____ Wrasse fish feed on the parasites found on the black sea bass's body.

Predator-Prey Relationships

All living organisms need each other in some way to survive. This can include the interactions between predators and their prey, the close associations between and among living things (**symbiosis**), or the competitive relationships between and among species. All of these relationships may be equally advantageous to the parties involved, or they may be more beneficial to one organism over the other.

Relationship between Snowshoe Hares and Lynx



1. What was the approximate population of snowshoe hares in 1865?
2. What was the approximate population of lynx in 1865?
3. When the number of snowshoe hares is high, what happens to the number of lynx? Use actual data from the graph to support your observation.
4. What happens to the population of lynx as the number of snowshoe hares decreases? Use actual data from the graph to support your observation.
5. Propose an explanation for the apparent cause and effect relationship between the populations of lynx and hares.
6. What does this information tell you
 - a. about the effect of size of prey populations on the number of predators?
 - b. about the effect of predators on the populations of their prey?
7. What other factor would influence the size of the hare population in addition to the size of the population of lynx?