

## Food Chain Questions

Which organism is a producer in this food chain?

Where does the producer get its energy?

Which organisms are consumers in this food chain?

Notice the populations decrease as you go from the bottom of the food chain to the top. Why do you think this is so?

How did doubling the rabbit population affect the grass, snakes, and hawks at first? How did halving the rabbit population affect the grass, snakes, and hawks at first?

How did increasing the snakes affect the grass? Explain why:

How did increasing the hawks affect the rabbits? Explain why:

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In general, what effect did removing prey have on predators?

What effect did removing predators have on prey?

List and describe each of the following. Be sure to describe why this happened.

A major disturbance that the ecosystem was able to recover completely from.

A major disturbance that caused the ecosystem to stabilize at a new equilibrium.

A major disturbance that caused the ecosystem to completely collapse.

A major disturbance that *almost* caused a total collapse, but that the ecosystem was able to recover from eventually