Populations and the Use of Natural Resources

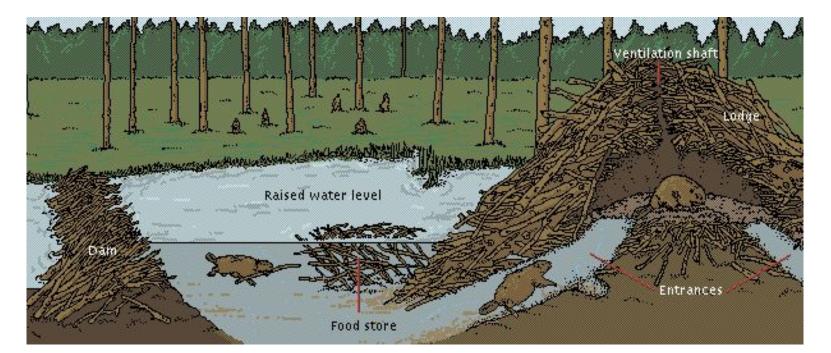
Ms. Larsh

What 4 factors do all organisms need to survive?

- Air
- Water
- Food
- Shelter

What organisms alter their environment to better meet their needs?

Beavers build dams and create wetlands



Beaver Dams





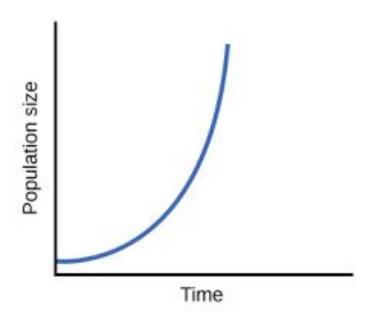


Of all the organisms on Earth, humans have an unequaled capacity to modify their environments

As a result, humans also have the greatest impact on the Earth's natural resources

Population Growth

- An increase in the size of a population over time
- Represented by a J-shaped curve



Limits to Population Growth

After exponential growth occurs, one or more limiting factors will cause a population to stop increasing

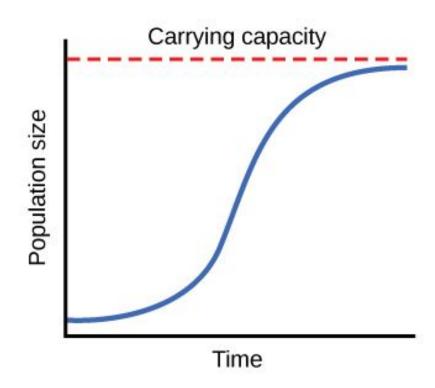
What is Carrying Capacity?

The number of organisms that any given environment can support

Carrying Capacity

A population at carrying capacity for its environment is in equilibrium

Carrying Capacity



Environmental Limits

Density-independent factors such as storms and fires

Environmental Limits

Density-dependent factors such as disease, predators, and competition for food that depend on population size