## **Ecology**

What are the 3 aspects of a population?

Populations, siperison, and size of populations

Population size – number of individuals that populations contains based on brith, dath, immigration, and emigration

Populations dispersal – spatial distribution of individuals

What are the 3 types of dispersal?

Clumped, random, uniform

Population density – measures how crowded a populations is

Populations dynamics – changes in populations (birth rate) (death rate)

Survivorship curves – probability that members will survive to certain age

What are the 3 types of survivorship curves?

Type 1, type 2, type 3,

Populations growth – amount by which a population changes over time. dependent on birth, death, immigration, and emigrations

Density dependent – changes environment depending on the density. Limited meat only affects areas with high density

Density independent – changes environment not matter how dense the populations co.V is. A fire will hurt everyone, o matter two people, or 2,000

Exponential growth - populations increases steadily like 1/2

Logistic growth – builds on exponential but account of inlining factors like a S What is human impact?

n depletion, glebal varming, acid rain, Pollution, human resource use or biological magnification

rganisms combeta limited resources -/-

Palasitism – one benefits, the other is harmed +/-

Mutualism - both benefit +/+

Commensalism – one is helped, other is not affected

Mimicry – harmless species imitates a harmful species

Biodiversity – how many different species in an environment

Dominant species – most abundant

Keystone species – have large effects on ecosystem

Succession – change over time

Primary succession – begins lifeless, pioneer species make the soil better, slow growth

Secondary succession – existing community is cleared but soil is still good, rapid growth

Climax community – final stage of natural succession