

Populations

Def: _____

Factors affecting population

Increases population	Decreases population

Stable population occurs when _____

Example 1: In a seagull community in Orlando Florida, 36 birds hatched, 15 flew away for the summer, 32 died and 1 emigrated. Was there an increase or a decrease in the population?

Example 2: Ex- In a population of birds there were 22 births. Four deaths were due to natural causes while three were shot by hunters. 15 new birds flew into the area because of the rich food source and none left. Was there an increase or a decrease in the population?

Population density

Def: _____

Formula
$$\frac{\text{\# of individuals}}{\text{Space occupied}}$$

Ex. 1- What is the population density of clownfish per litre of water if 530 clownfish are found in 1000L of water?

Ex. 2- you counted 180 squirrels in a 200 km² area. How many would be found per km²?

Population density will depend on several factors:

Population distribution

Def : _____

3 types:

A) clumped: _____

B) uniform: _____

C) random: _____

Ecological Factors

Def: _____

2 types of ecological factors

1-Abiotic: _____

2- Biotic: _____

Limiting factors: _____

Biological cycles

Def: _____

Hare/Lynx relationship

Situation	Reaction	Explanation
Increase in hare population		
Increase in lynx population		
Decrease in hare population		
Decrease in lynx population		

Takes 7-10 years to go through all cycle