Cheatography

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Population Ecology

An understanding of how populations of wildlife/species are affected by features of the physical environment and other organisms

Population Size

*The number of individuals in a population at a given time

*Sudden and dramatic decreases in population size can indicate an unhealthy population headed toward extinction.

*Ecologists often use sampling techniques to estimate population size.

Population Density- how crowded a population is

High population density:	Low population density:
-Larger organisms generally have lower population densities.	More space, resources;
-Finding mates is easier; tends to be more compet- ition; more infectious disease; more vulnerability to predators	finding mates can be difficult

Limiting Facotors

Environmental characteristics slow population growth and determine carrying capacity.

Density-dependent:

Influence changes with population density.

ex. parasitism and diseases.

Density-independent:

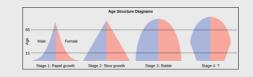
Influence does not change with population density ex: unusual weather, natural disasters, certain human factors (clear cutting, damming up a river)

Population Distribution:

Random	Clumped	Uniform		
Organisms arranged in no particular pattern	Organisms evenly spaced	Organisms evenly spaced		

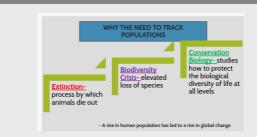
How organisms are arranged within an area

Age Structure Diagram



-Relative number of organisms of each age group within population -Can be used to predict future population growth of a population

Tracking Populations



Biotic Potential

An organism's maximum ability to produce offspring in ideal conditions

Factors influence biotic potential: Gestation time Generation time

Sex Ratio

-Proportion of males to females

-Age structure diagrams give information about sex ratios.



By SciTeachWVHS

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Methods to Tracking Populations			Survivorship Curve	
Complete Counts	Sample Counts	Indirect Methods	Mark and Recapture	y 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Good: - counts EVERY	Estimate the numbers of animals in the	Counting organism indirectly	catch a live individual, tag it, release it, then count the number of	B B Converted to trade and a specific and a spec
single species in	total area by sampling a smaller unit of	(Not actually,	individuals marked during new captures.	НІРРО
the area - ideal for larger animals - small spaces - ex. Deer drives	the total area: Ex. Nets, Quadrats, strip census	physically seeing the organism) Look for SIGNS		MAIN ELEMENTS OF GLOBAL CLIMATE CHANGE Under The State of
Bad: Not widely used Expensive Tedious	Cons: visibility of animals can be hard, habitat could be difficult,	ex.scat, trail cams, tracks	animals can learn to avoid traps animals can become trap happy Marks may injure animals Marking	 Habitat Destruction Introduced Species Pollution Population Overfishing
(all animals must be accounted for)	animal behavior		assumes no immigration or emigration (which we know happens) Make them unattractive to mates	
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