# Cheatography

### Wildlife Study Sheet Cheat Sheet by SciTeachWVHS via cheatography.com/99398/cs/21020/

#### **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:

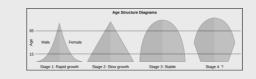
Influence does not change with population density ex: unusual weather, natural disasters, certain human factors (clear cutting, damming up a river)

#### Population Distribution:

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

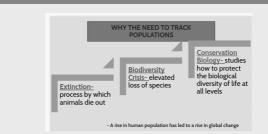
How organisms are arranged within an area

#### 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.



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Methods to Tracking Populations				Survivorship Curve	
Complete Counts	Sample Counts	Indirect Methods	Mark and Recapture	Sainvivenship Curves	
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	Survival in high at an early app	
single species in the area - ideal for arger animals - small spaces - ex. Deer drives	total area by sampling a smaller unit of the total area: Ex. Nets, Quadrats, strip census	(Not actually, physically seeing the organism) Look for SIGNS	individuals marked during new captures.	HIPPO	
Bad: Not widely used Expensive Tedious (all animals must be accounted for)	Cons: visibility of animals can be hard, habitat could be difficult, animal behavior	ex.scat, trail cams, tracks	animals can learn to avoid traps animals can become trap happy Marks may injure animals Marking assumes no immigration or emigration (which we know happens) Make them unattractive to mates	<ol> <li>Habitat Destruction</li> <li>Introduced Species</li> <li>Pollution</li> <li>Population</li> <li>Overfishing</li> </ol>	
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