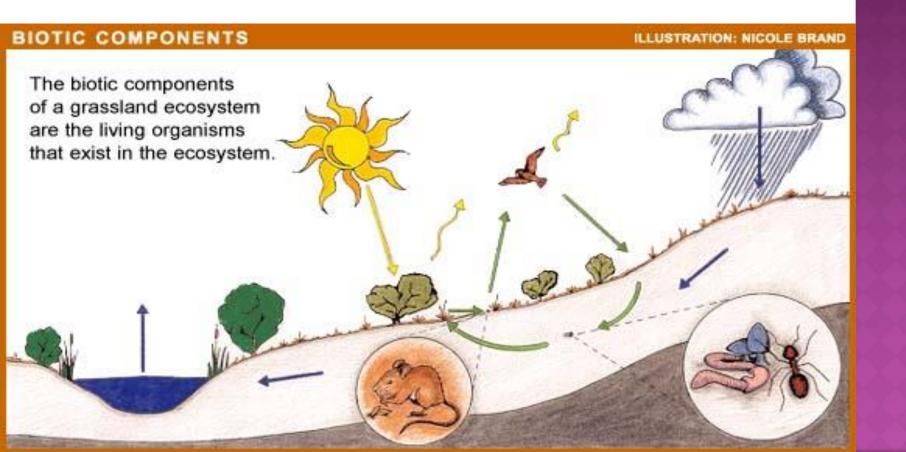
ECOSYSTEMS STRUCTURES

Part I - Unit 8

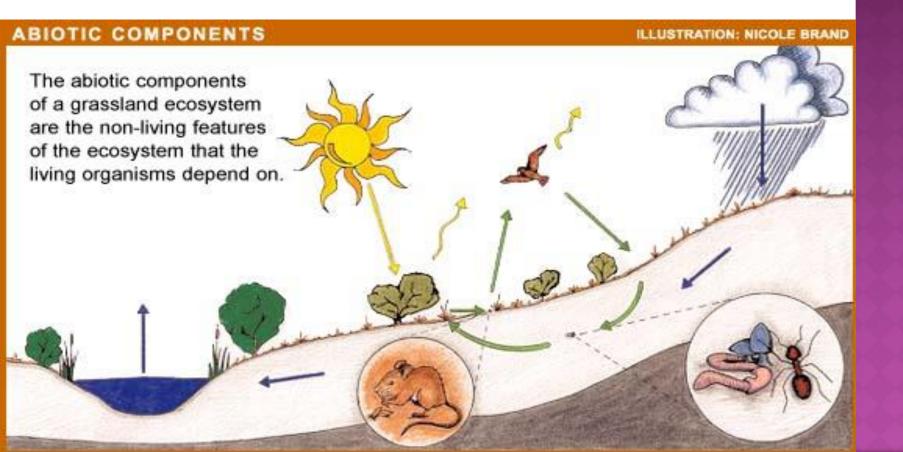
BIOTIC FACTORS

- DEF: All <u>living</u> parts of ecosystems
 - Plants, animals, bacteria, microorganisms



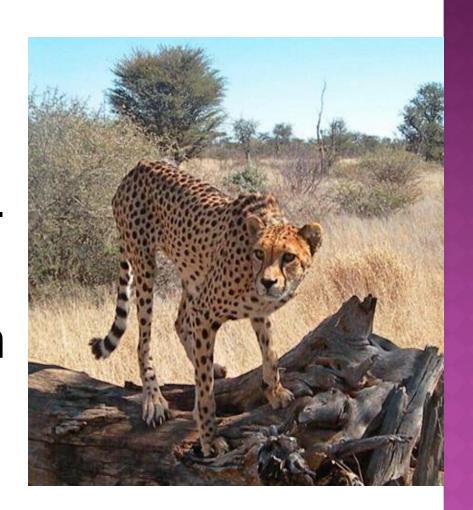
ABIOTIC FACTORS

- DEF: All non-living parts of ecosystems
 - Water, soil, air, temp, precip, sunlight



ORGANISM //NDIVIDUAL

Single animal, plant, or single-celled life form in an ecosystem



SPECIES



•Group of organisms with **similar** individuals capable of breeding

POPULATION

All organisms
 of a species
 in a specific
 region at a
 certain time



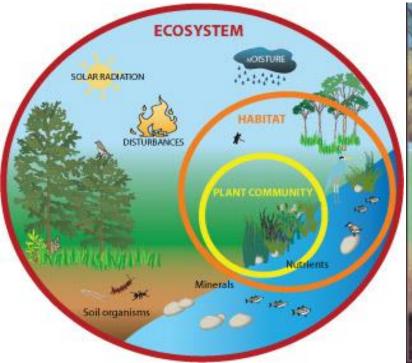
COMMUNITY



•All populations of a species in specific region at certain time

ECOSYSTEM

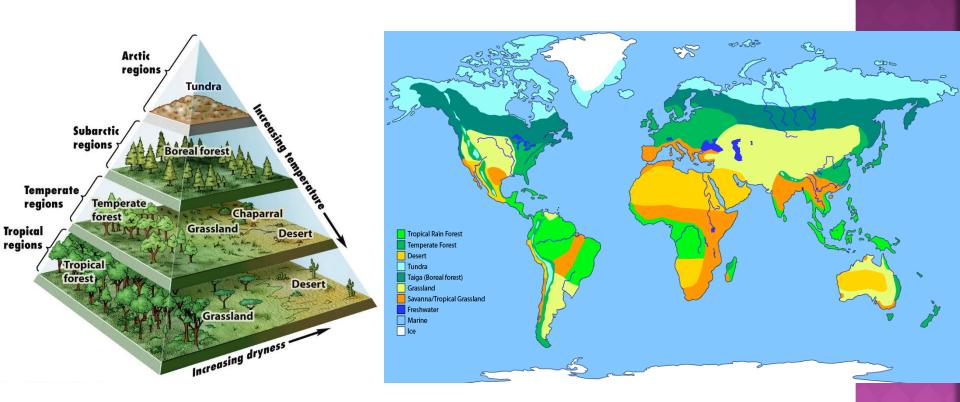
• Complex & structured environment where ALL <u>living</u> and <u>non-living</u> parts work together





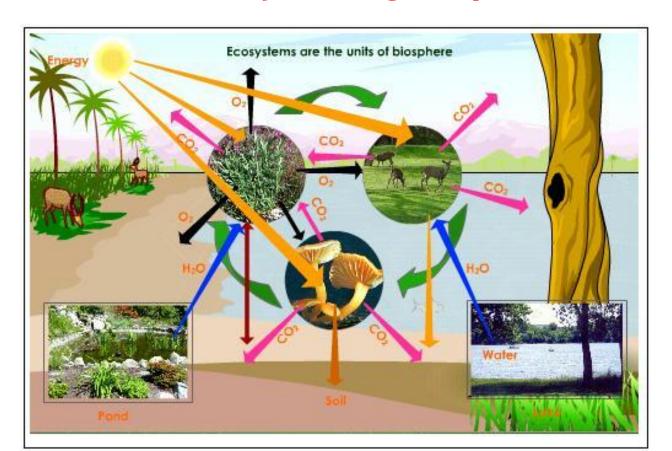
BIOME

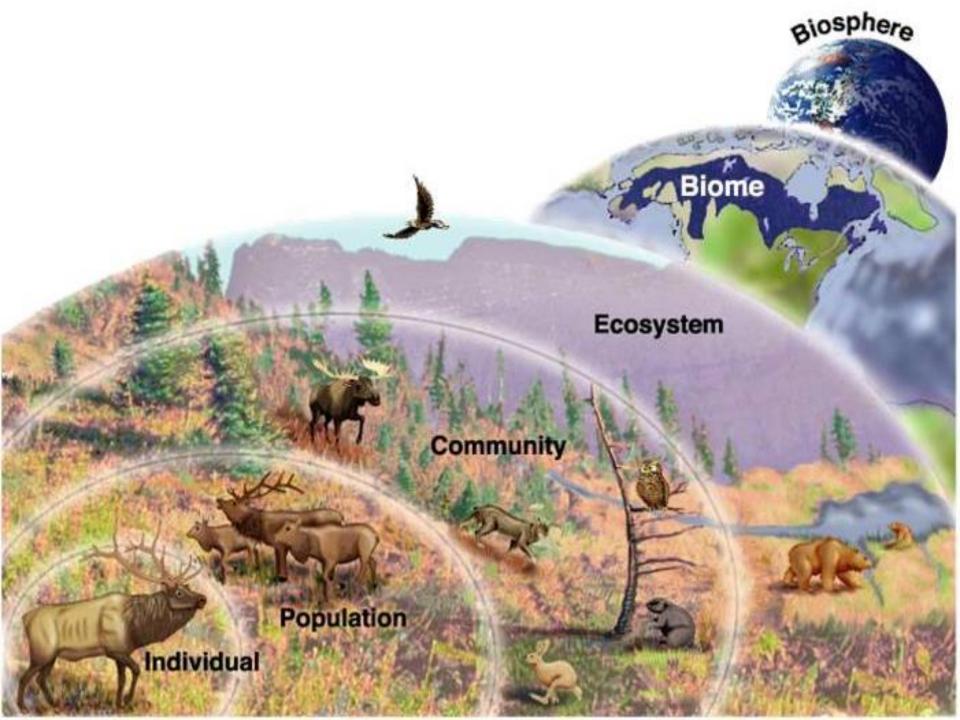
• Complex geographic ecosystem defined by plant & animal species, maintained under soil & climatic conditions



BIOSPHERE

- Global sum of ALL ecosystems/biomes
 - Includes atmos, hydro, geosphere





COMPETITION

- •All species have similar needs and compete for resources:
 - Climate Range
 - Territory/Habitat
 - Food
 - Mating



HABITAT DESTRUCTION

•Bulldozing, filling in wetlands, dredging rivers, mowing fields, & deforestation





HABITAT FRAGMENTATION

Separation of habitats with physical barriers: roads & water



HABITAT DEGRADATION

 Pollution, invasive species, and ecosystem disruption



LOSS OF HABITATS

- Main Causes:
 - Agriculture
 - Land Development
 - Water Development

Adrian Dorsi

- Pollution
- Global Warming