



Invasive Species

· non-native species that decline biodiversity

Habitat Destruction

Pollution



Competition

- · Niches
- Competitive Excusion Principle
- · Mutualism
 - · Symbiotic Species benefitting from each other
- · Predation
 - crypsis
 - behavior
 - toxins
 - Mimicry

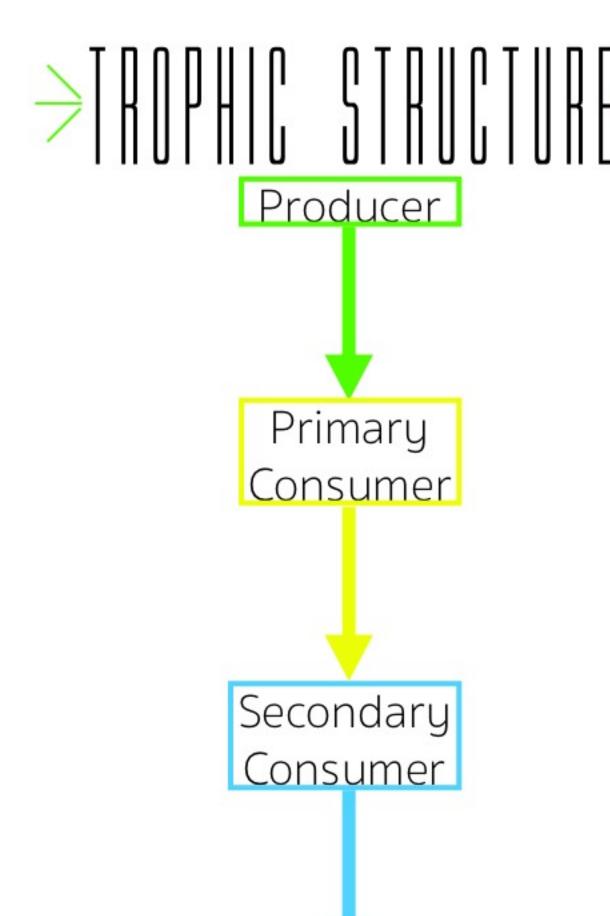
Producer: Plant

Primary Consumpto Herbivore

Secondary Consumer: Carnivore (Mouse)

Teritary Consumer: Carnivore (Snake)

Quaternary Consumer: Carnivore (Eagle)



Tertiary

Consumer

Quaternary

Consumer





General Formula

• $(CH_2O) + O_2 CO_2 + H_2O$

Concepts

- · performed by green plants and select organisms
- chloroplasts = the site of this in the cell
- · chlorophyll converts light to chemical energy



CHL a

· Universal to all plants

CHL b

CHL c

CHL d

All pigments other than CHL a are accesory pigments. Common ones are Anthocyanin, Xanthophyll, and Carotene.



Light

- · chlorophyll = energy converter
- · requires photons of light
- · produces ATP
 - · chemiosmosis
- · Produces NADPH
- reduced electron carrier
 Oxygen produced in the breakdown of test of the total of the total

- · needs light reaction in order to work
- Calvin Cycle
 - · fixed Carbon Dioxide
 - C3
- · loses water but uses less ATP
- C4
- · loses less water but uses more ATP
- CAM
- saves water but only happens at night

Dark reactions don't actually happen in the dark.