

- Plants = 10%

Total number of consumers supported in a given ecosystem is limited by the productivity of the vegetation

Primary productivity

- Gross primary productivity (GPP): total energy in an ecosystem 'fixed' by photosynthesis
- Net primary productivity (NPP): GPP minus energy lost by respiration, energy converted into plant biomass, grams per sq. metre per year ($\text{g/m}^2/\text{yr}$), large variation between biomes

Tundra= $140\text{g/m}^2/\text{yr}$

Rainforest= $2,200\text{g/m}^2/\text{yr}$ however rainforest does not support more trophic levels (3-4)

Oceans have low NPP compared to terrestrial ecosystems, but:

- typically have 5 trophic levels
- more abundant carnivores than terrestrial ecosystems

Preview from Notesale.co.uk
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