

ECOSYSTEM ENERGETICS



Stuart R. Borrett
Ecology, BIO366
UNCW

Learning Objectives

At the end of today's meeting, you should be able to:

1. Describe the **ecosystem concept** and explain its importance to your friends
2. Distinguish between **biomass** and **productivity**
3. Identify the laws of **thermodynamics** and explain their significance for ecosystem ecology
4. Distinguish between (**net** and **gross**) **primary** and **secondary production**
5. Indicate what factors tend to **control** primary and secondary production
6. Diagram
 1. A general **model of energy flow** through organisms
 2. Typical components of the **ecosystem food chains**
 3. **Trophic levels** and **biomass pyramids**
7. Consider the consequences of **human appropriation of NPP**

Assignments

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Read: Smith and Smith Chapter 21

Vocabulary

Bold words in text, actual evapotranspiration, Tansley, E.P.
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