

ECOSYSTEM ENERGETICS



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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

Assignments

Read: Smith and Smith, Chapter 20 & 21

EcoPhoto: Image 3 - March 29, 2017

Vocabulary

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

