

EVPP 650

Ecosystem Analysis and Modeling



Instructor:
Dr. Changwoo Ahn

Fall 2020
001-lecture
201-lab
4-credits

For EVPP, BIOL, CEIE,
and more-open to
other
majors/concentrations

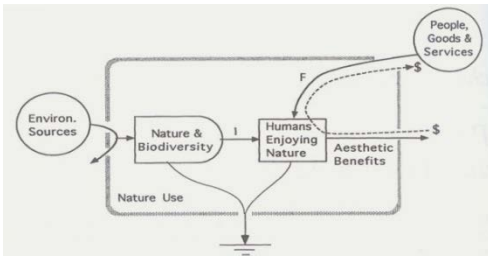


Figure 26.1 Overview of the way the economy is involved when people enjoy nature.

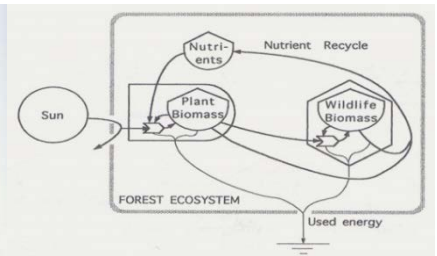


Figure 3.8 Forest ecosystem drawn with symbols.

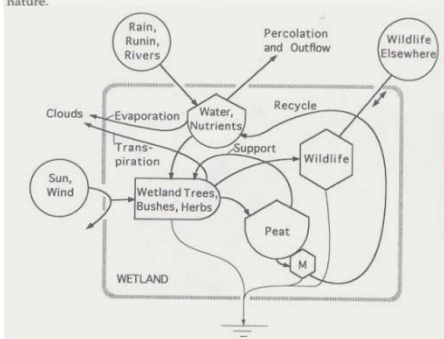


Figure 18.5 A systems diagram of a swamp (forested wetland) showing the processing of water and the buildup of peat. M = microbes.

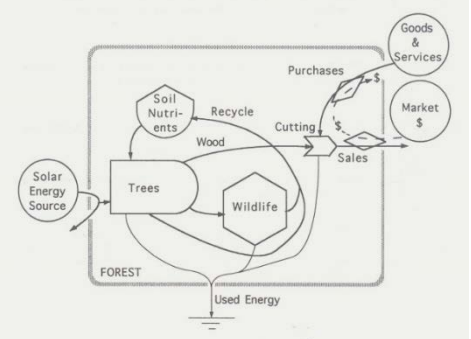


Figure 3.10 The forest economic system showing that energy and money flow in opposite directions.

Introduction to the **principles, history, and methodologies of systems ecology**, emphasizing the development and simulation of ecological/environmental models for **natural resource/ecosystem management**. Topics may include, the **nexus of water, energy and food** of environmental sustainability, focusing on creating a model for a variety of processes (e.g., **biogeochemical, socio-economic, and policy-oriented**) associated with **coupled human and natural systems**. For fall 2020, the class will include a topic of environmental sustainability in the era of COVID-19 as well.

