



3. Definitions currently in use

Year	Author	Definition
1982	Odum	Energy flows through ecosystems and matter cycles within them.
1985	Costanza	Benefits people obtain from ecosystems.
1989	Mill	Benefits people obtain from ecosystems.
1997	Mill	Benefits people obtain from ecosystems.
1997	Mill	Benefits people obtain from ecosystems.
1997	Mill	Benefits people obtain from ecosystems.
1997	Mill	Benefits people obtain from ecosystems.
1997	Mill	Benefits people obtain from ecosystems.
1997	Mill	Benefits people obtain from ecosystems.
1997	Mill	Benefits people obtain from ecosystems.

4. Economic properties of ecosystem services

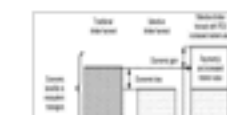
4.1. Public and private goods

	Excludable	Non-excludable
Non-rival	Private goods	Commons
Rival	Private goods	Tragedy of the commons

4.2. The commons

5. Strategies for application

5.1. Private markets and payment for ecosystem services



Ecosystem services: Foundations, opportunities, and challenges for the forest products sector

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Abstract

The ecosystem service concept has been proposed as a meaningful framework for natural resource management. In theory it holds concomitant benefit and consequence for the forest product sector. However, numerous barriers impede practitioners from developing concrete and enduring responses to emerging ecosystem service markets, policies, and initiatives. Principle among these barriers is that the ecosystem service concept has a complex history, numerous definitions in use, and an astounding diversity in rationale and application. This article provides a conceptual review of ecosystem services and its economic foundations, distinguishes among several current definitions of the term and their relatedness to strategies in practical application, discusses diverse approaches to valuation, and explores potential for future relevance in forest product and other sectors.

Keywords

Ecosystem services; Natural resource management; Forest products

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