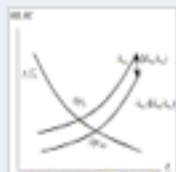


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Abstract


Keywords

1. Introduction
2. A theoretical framework
 - 2.1. Production functions
 - 2.2. State equations
 - 2.3. Role of forests in intertemporal welfare maximization (socially optimal development)



- 2.4. Role of forests in sustainable development
- 2.5. Implications for empirical estimation

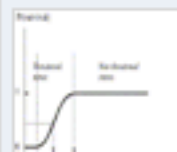


3. Empirical analysis
 - 3.1. Materials, methods and assumptions
 - 3.2. Results
 -  Table 1

4. Discussion

Acknowledgements

Appendix A. Interpretation of the marginal existence value



Analysis

In search of marginal environmental valuations — ecosystem services in Finnish forest accounting

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Abstract

There is currently substantial interest in valuing various services provided by different ecosystems. Concurrently economists have ascribed substantial effort on expanding traditional forest accounting systems by environmental services. This paper contributes to curtailing the existing gap between green accounting theory and applications for valuing forest ecosystem services. The multitude of links between forest ecosystem services and economy are characterized by the theoretical model for forest–economy interactions. By utilizing recently updated data we also incorporate empirical value estimates of these services comparable to other goods into Finnish forest accounting system. Finally, we discuss some problems encountered and clarify the interpretation of some value estimates incorporated to national forest account.

Keywords

Ecosystem services; Forest accounting; Green NNP; Sustainable forestry; Time use

Figures and tables from this article: