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Natural Resources. Aspects of Theory and
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First author: Helles, Finn

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Abstract

Multiple Use of Forests and Other Natural Resources

Aspects of Theory and Application

Finn Helles, Per Holten-Andersen, Lars Wichmann (editors)

This volume comprises eighteen papers, dealing with theory and application of modern decision-making and management planning of multiple use of forests and other natural resources in the landscape. Generally, an economic approach is used as implemented by operations research methods, but broader contexts are applied too, e.g. ecosystem management, discounting, preference analysis and policy formulation.

[forest management](#)

[sustainability](#)

[methodology: analysis, statistics](#)

Notes

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Finn Helles, Per Holten-Andersen, Lars Wichmann (editors)

Tartalom:

Foreword

Preface (Helles, F., Holten-Andersen, P. and Wichmann, L.)

Chapter I Survey

Berck, P.: Why are the uses multiple?

Qi, Y. and Gilles, J. K.: Modelling ecosystem processes and patterns for multiple-use management

Boon, T. E. and Helles, F.: Descriptive indicators of sustainable forest management

Price, C.: Discounting in the context of multiple objectives

Price, C.: Stated and revealed preference analysis: Cost-benefit analysis, democracy and multiple-objective decision-making

Chapter II Multi-Criteria Decision-Making: Theory and Methods

Bogetoft, P.: Choosing between models of choice: On the selection of MCDM planning modes

Korhonen, P.: Multiple objective linear programming in supporting forest management

Kangas, J.: The analytic hierarchy process (AHP): Standard version, forestry application and advances

Chapter III Stakeholder Involvement

Agrell, P.: Multiple objective optimisation in agro-ecological land use planning

Brukas, V., Hjortso, N., Tarp, P. and Boon, T. E.: Public participation in forest management planning supported by multi-criteria decision-making techniques

Chapter IV. Diversity Objectives and Option Value

Lin, C-R. and Buongiorno, J.: Managing forests for tree and landscape diversity

Part I: Predictions with Markov-chain models

Lin, C-R. and Buongiorno, J.: Managing forests for tree and landscape diversity

Part II: Optimisation with Markov decision process model

Abildtrup, J. and Strange, N.: Groundwater protection and forest management - an option value analysis

Chapter V Spatial Objectives

Kurtilla, M.: How to integrate spatial objectives into private forest planning in Finland

Jensen, J. J.: A spatial optimisation model for wetlands restoration planning integrating GIS and linear programming

Strange, N. and Meilby, H.: A cellular automaton approach to optimising the choice of tree species

Chapter VI Cost Efficiency

Asmild, M., Hougaard, J. L. and Kronborg, D.: A method for comparison of efficiency scores: A case study of Danish dairy farms

Tarp, P., Helles, F. and Zajac, S.: Biological insecticides contra insect growth regulators in Polish forestry - a financial cost-benefit analysis

List of Authors

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