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Autore	Milner-Gulland E. J
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Supply and demand for renewable resources; 1.7 Summary; Chapter 2: Harvesting and Ecological Realities; 2.1 Adding ecological realism to the single species model; 2.1.1 Non-linear density dependence; 2.1.2 Harvesting structured populations; 2.1.3 Harvesting in stochastic environments; 2.1.4 Complex dynamics can result from simple models; 2.2 Interactions between species; 2.2.1 Species that interact by being harvested together; 2.2.2 Harvesting species that interact biologically 2.2.3 The ecosystem-level effects of harvesting2.3 Summary; Chapter 3: Decision-Making by Users of Biological Resources; 3.1 The theory of decision-making; 3.1.1 Classifying decisions; 3.1.2 Individual decision-making; 3.1.3 Game theory; 3.1.4 Incentives for illegal exploitation; 3.2 Natural resources as economic goods; 3.2.1 Externalities; 3.2.2 The 'Tragedy of the Commons'; 3.2.3 Valuing natural resources; 3.3 Summary; Chapter 4: Practical Considerations When Applying the Theory; 4.1 Uncertainty and sustainable use
4.1.1 The Revised Management Procedure of the International Whaling Commission4.1.2 Insights gained from the RMP; 4.2 Data needs and availability; 4.2.1 Population data; 4.2.2 Harvest and trade data; 4.2.3 Official socio-economic data; 4.2.4 Ecosystem-level data; 4.2.5 Making use of existing local knowledge; 4.3 Policies for regulating resource use; 4.3.1 International agreements; 4.3.2 Economic instruments for regulation within a country; 4.4 Community-based conservation; 4.4.1 The origins of community-based conservation; 4.4.2 Community-based conservation in practice
4.4.3 Rights and regulation4.5 Summary; Part 3: Case Studies; Introduction; Chapter 5: Sustainable Use as a Conservation Tool in the Forests of South-East Asia; Chapter 6: Will Bigleaf Mahogany Be Conserved Through Sustainable Use?; Chapter 7: Cosiguina, Nicaragua: A Case Study in Community-Based Management of Wildlife; Chapter 8: Sustainability of the Falkland Islands Loligo Squid Fishery; Chapter 9: Recreational Use of Coral Reefs in the Maldives and Caribbean; Chapter 10: A Century of Change in the Central Luangwa Valley of Zambia Chapter 11: The Economics of Wildlife Conservation Policy in Kenya

Sommario/riassunto

This book presents the issues surrounding the conservation of wild species and ecosystems used by people. It is aimed at final year undergraduate and master's students taking courses in conservation, environmental management, ecological economics and related subjects, as well as conservation professionals, including managers, policy-makers and researchers. The structure of the book is ideal for a course in conservation, comprising a theoretical section written by the authors, and a set of ten contributed case studies intentionally diverse in discipline, geographical region and system of study.