



Bioeconomics of Invasive Species: Integrating Ecology, Economics, Policy, and Management

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Biological invasions are one of the strongest drivers of global environmental change, and invasive species are now often in the public discourse. At the same time, economists have begun to take a real interest in determining how invasive species interact with economic systems, and how invaders should be controlled to optimize societal wealth. Although the work from ecologists and economists have both greatly expanded our understanding of the drivers and impacts of invasions, little integration between the fields has occurred that would allow managers and policy-makers to identify the optimal expenditures on, for example, prevention and control of invasive species. Because the level of effort expended on invasive species management is intricately linked to the costs and projected benefits of that management, there is an urgent need for greater synthesis between ecology and economics.

This book brings ecology and economics together in new ways to address how we deal with the dynamics and impacts of invasive species, and is the outcome for many years of collaborative research between a small group of economists and ecologists. The outcome is clear demonstration of the utility of combining ecological and economic models for addressing critical questions in the management of invasive species.

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Editorial Review

Review

"The endorsements of the back cover of this book are highly laudatory, and rightly so. This volume is global in its utility and certainly should be part of the toolkit of anyone in the invasive biology business."--The Quarterly Review of Biology

"A remarkable and profound synthesis, describing the state of modern invasion biology, successes and failures in managing invasions, and how to factor in economics while developing realistic, effective policies to deal with introduced species. Excellent case studies keep the entire enterprise anchored in the real world. Bioeconomics of Invasive Species is a must read for invasion biologists."--*Journal of Biological Invasions*

"[*Bioeconomics of Invasive Species*] is valuable as a source of reliable information related to the management of invasive species ranging from plants to animals to microbes. Its messages are well worth studying for readers interested in biology, ecology, economics, geography, and related applied disciplines."--*BioScience*

"This book addresses an important gap in the literature on biological invasions - the link between key advances in invasion ecology and economics. The volume focuses on aquatic invasions in North America, but the far-reaching results have crucial implications for improving our ability to manage invasions in general. This is an important milestone in invasion ecology." --*David M. Richardson, Deputy Director (Science Strategy), Centre for Invasion Biology, South Africa*

"With its deliberate balance between case histories and synthetic chapters, this volume provides a comprehensive view of what we know and more important what we don't know yet about assessing the economic costs of invasive alien species."--*Richard N. Mack, Professor of Ecology, Washington State University*

"Keller, Lodge, Lewis and Shogren have produced the best book on invasive species I have read since Charles Elton's 1958 classic, *The Ecology of Invasion by Animals and Plants*." Whereas Elton examined the ecology of invasive species, Keller et al examine the economics of invasive species. And it is economic analysis we need now if we are to motivate governments to do what is needed to stem the onslaught of biological invasions."--*Science Chronicles*

About the Author

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