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Loreau

From Populations to Ecosystems proposes an innovative theoretical synthesis that will enable us to advance our fundamental understanding of ecological systems and help us to respond to today's emerging global ecological crisis. Michel Loreau begins by explaining how the principles of population dynamics and ecosystem functioning can be merged.

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balance and energy
constraints on the ecosystem
as a whole also severely
constrain the set of
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aggregate ecosystem
properties (e.g. biomass,
productivity, etc.),
although its effect on
population stability remains
con-troversial (reviewed in
...

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In Chapter 6, Loreau moves away from a population-centred view to a nutrient-flow ecosystem model.

Diversity and species are fine-tuning conversion rates through competition, but the mass-balance and energy constraints on the ecosystem as a whole also severely constrain the set of possible ecosystem configurations.

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Loreau describes the most recent theoretical advances that link the properties of individual populations to the aggregate properties of

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communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial ...

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Ecology--population ecology, community ecology, ecosystem ecology, and evolutionary ecology--have diverged increasingly in recent decades. What is critically needed today is an integrated, real ...

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From Populations to Ecosystems proposes an innovative theoretical synthesis that will enable us to advance our fundamental understanding of ecological systems and help us to respond to today's emerging global ecological crisis. Michel Loreau begins

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by explaining how the principles of population dynamics and ecosystem functioning can be merged.

Project MUSE - From Populations to Ecosystems

"Michel Loreau has bravely, and successfully, built a new unified framework that harmonizes the disparate, and often conflicting, fields of population biology, community ecology, and ecosystem ecology. This book provides an exciting stimulus for new efforts to test and verify the rich array of insights that he provides."

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Ecosystems: Theoretical Foundations ...

Loreau describes the most recent theoretical advances that link the properties of individual populations to the aggregate properties of communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial ...

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Loreau, Michel From Michel
Populations to Ecosystems
Theoretical Foundations for
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(MPB-46)

From Populations to Ecosystems

As a result, aggregate measures of population variability such as summed species variances, summed species covariances and population synchrony do not provide insights into the mechanisms that govern ecosystem stability, as suggested by previous work (Loreau & de Mazancourt 2008; Loreau 2010).

Biodiversity and ecosystem

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...

Loreau describes the most recent theoretical advances that link the properties of individual populations to the aggregate properties of communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial ...

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A general consensus from recent studies is that a higher biodiversity can enhance the temporal stability of aggregate ecosystem properties (e.g. biomass, productivity, etc.), although its effect on population stability remains controversial (reviewed in Hooper et al. 2005; Loreau 2010).

Biodiversity and ecosystem stability across scales in

...

Asynchronous fluctuations of populations are essential for maintaining stable levels of biomass and ecosystem function in landscapes. Yet,

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Understanding the
stabilization of
metacommunities by ...

Michel LOREAU | Director,
Centre for Biodiversity
Theory ...

"Human impacts are dramatically altering our natural ecosystems. The implications of these human impacts on the sustainability and functioning of these amazingly complex entities remains uncertain. As a result, food web theory has experienced a proliferation of research that seeks to address this critical area. This book synthesizes modern and classical results into a

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