

## From Populations To Ecosystems Loreau Michel

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In Chap- ter 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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"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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Loreau, Michel From Populations to Ecosystems Theoretical Foundations for a New Ecological Synthesis (MPB-46)

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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).

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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).

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