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systems, where change is often drastic
and frequent.

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Wiley. Research in insect population dynamics is important for more reasons than just protecting forest communities. Insect populations are among the main ecological units included in the analysis of stability of ecological systems. Moreover, it is convenient to test new methods of analyzing population and community stability on the insect-related

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data, as by now ecologists and
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populations are among the main
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The method is based on the results of
phenomenological theory of forest insect
population dynamics (Isaev et al., 1984,

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2001; Nedorezov, 1986) and includes
the elements of statistics, cluster ...

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Insects do not normally cause serious damage to forests unless their numbers increase, for some reason or another, to very high densities. The area of ecology

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that deals with changes in the density of
organisms over time and that attempts
to explain the causes of these changes
is known as population dynamics.

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Insects | SpringerLink**

Dynamics of forest insect populations.
New York : Plenum Press, ©1988 (DLC)

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A A Berryman

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systems, where change is often drastic
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While most forest insect species remain at low densities and are rarely noticed, a few species exhibit eruptive population dynamics and episodically reach

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outbreak levels, causing massive defoliation, dieback or mortality in host trees. The processes responsible for triggering insect outbreaks remain poorly understood.

Insect Disturbance | Climate Change Resource Center

Spatial synchrony appears to be even

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more ubiquitous in forest insect populations. Dispersal and regional stochasticity ("Moran effect") have been shown to be capable of producing synchrony, but...

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By Alan A. Berryman - Hardcover

Excellent Condition.

**DYNAMICS OF FOREST INSECT
POPULATIONS: PATTERNS, CAUSES**

...

Population dynamics of an invasive

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forest insect and associated natural
enemies in the aftermath of invasion:
implications for biological control Jian J.
Duan^{1*}, Leah S. Bauer², Kristopher J.
Abell³, Michael D. Ulyshen⁴ and Roy G.
Van Driesche³

**Population dynamics of an invasive
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First, in the context of current trends in climate change, there is particular urgency to determine if, when, or how extreme climatic events promote eruptions of forest insect populations. Since herbivorous insect are poikilotherms, weather may affect their population dynamics directly by affecting the physiology of individual

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**Droughts drive outbreak dynamics
of an invasive forest ...**

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forest insect populations : patterns,
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Dynamics of forest insect

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State of Knowledge Emphasis is placed on understanding the factors affecting the dynamics of forest insect populations and their impacts in space and time, forecasting future population levels and impacts, and studying how those factors might be used to influence future population levels and impacts.

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Activities and events Unit 7.03.07
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