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**Dynamics Of
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**Patterns Causes
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Also, the slow growth and turnover rates of forested ecosystems enable us to investigate insect

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popula tion dynamics in a plant environment that remains relatively constant or changes only slowly, this in contrast to agricultural systems, where change is often drastic and frequent.

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Wiley. Research in
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dynamics is important
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just protecting forest
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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

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community stability on
the insect-related data,
as by now ecologists
and entomologists
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communities. Insect populations are among the main ecological units included in the analysis of stability of ecological systems.

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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 ...

Implications

**(PDF) Population
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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 that deals with
changes in the density

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of organisms over time

and that attempts to

explain the causes of

these changes is

known as population

dynamics.

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Insect Populations:

Patterns, Causes ...

While most forest insect species remain at low densities and are rarely noticed, a few species exhibit eruptive population dynamics and episodically reach outbreak levels, causing massive defoliation, dieback or mortality in host trees. The processes responsible for triggering insect

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outbreaks remain
poorly understood.

Patterns Causes Insect Disturbance | Climate Change Resource Center

Spatial synchrony
appears to be even
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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(PDF)
INTRODUCTION:
Population dynamics
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PATTERNS, CAUSES

Populations

Population dynamics of
an invasive 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 forest**

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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

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individual insects.

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State of Knowledge

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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. Activities and events Unit 7.03.07

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Implications Population Ecology