



# Control of Pests and Weeds by Natural Enemies: An Introduction to Biological Control

By van Driesche, Roy; Hoddle, Mark; Center, Ted

Wiley-Blackwell, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Part I: Scope of biological control:.1. Introduction.2. Types of biological control, targets, and agents. What is biological control'. Permanent control over large areas. Temporary pest suppression in production areas. Kinds of targets and kinds of agents. Part II: Kinds of natural enemies: 3. Parasitoid diversity and ecology. What is a parasitoid'. Terms and processes.Some references to parasitoid families.Groups of parasitoids.Finding hosts.Host recognition and assessment.Defeating host defenses.Regulating host physiology.Patch-time allocation.4. Predator diversity and ecology.Non-insect predators.Major groups of predatory insects. Overview of predator biology. Predator foraging behavior. Predators and pest control. Effects of alternative foods on predator impact.Interference of generalist predators with classical biological control agents.Predator and prey defense strategies.5. Weed biocontrol agent diversity and ecology. The goal of weed biological control. Terms and processes. Herbivory and host finding.Herbivore guilds.Groups of herbivores and plant pathogens.6. Arthropod pathogen diversity and ecology.Bacterial pathogens of arthropods.Viral pathogens of arthropods.Fungal pathogens of arthropods.Nematodes attacking arthropods.Generalized arthropod pathogen life cycle.Epidemiology: what leads to disease outbreaks'.Part III: Invasions: why biological control is needed:.7. The invasion crisis.Urgency of the invasion crisis.Case histories of four high-impact invaders. The extent of harmful impact by invaders. How do invasive species get to new places'. Why do some invasions succeed but others fail'.Invader ecology and...



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