

Field control and biology studies of a new pest species, *Aethina tumida* Murray (Coleoptera, Nitidulidae), attacking European honey bees in the Western Hemisphere

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Abstract – The small hive beetle, *Aethina tumida* Murray, is a nitidulid species newly recorded attacking honey bees in the Western Hemisphere. We initiated field and laboratory tests on the control and biology of this new pest. Very high mortality of adult and larval *A. tumida* in Florida and Georgia hives resulted from field tests using 10 % coumaphos in plastic strips in trapping devices on the hive bottom; as high as 90.2 % beetle mortality occurred in hives in Florida. Adult beetles were found in the laboratory to feed on honey bee eggs, completely consuming all eggs, even in the presence of honey and pollen. Odors from hive products plus adult bees were found to be significantly attractive to flying adult beetles, as evidenced in baited trap studies. Hive products alone or bees alone were not attractive to adult *A. tumida*. © Inra/DIB/AGIB/Elsevier, Paris

Aethina tumida / small hive beetle / insecticides / control / honey bee / *Apis mellifera* / USA / attractants / brood predation

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Pest Control New Studies In Biology

Yijin Wang



Pest Control New Studies In Biology:

Ecologically Based Pest Management National Research Council, Board on Agriculture, Committee on Pest and Pathogen Control Through Management of Biological Control Agents and Enhanced Cycles and Natural Processes, 1996-04-21

Widespread use of broad spectrum chemical pesticides has revolutionized pest management But there is growing concern about environmental contamination and human health risks and continuing frustration over the ability of pests to develop resistance to pesticides In *Ecologically Based Pest Management* an expert committee advocates the sweeping adoption of ecologically based pest management EBPM that promotes both agricultural productivity and a balanced ecosystem This volume offers a vision and strategies for creating a solid comprehensive knowledge base to support a pest management system that incorporates ecosystem processes supplemented by a continuum of inputs biological organisms products cultivars and cultural controls The result will be safe profitable and durable pest management strategies The book evaluates the feasibility of EBPM and examines how best to move beyond optimal examples into the mainstream of agriculture The committee stresses the need for information identifies research priorities in the biological as well as socioeconomic realm and suggests institutional structures for a multidisciplinary research effort *Ecologically Based Pest Management* addresses risk assessment risk management and public oversight of EBPM The volume also overviews the history of pest management from the use of sulfur compounds in 1000 B C to the emergence of transgenic technology *Ecologically Based Pest Management* will be vitally important to the agrichemical industry policymakers regulators and scientists in agriculture and forestry biologists researchers and environmental advocates and interested growers

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