



A Biocontrol Strategy Of The Sycamore Lace Bug *Corythucha Ciliata* (Say) (Hemiptera: Tingidae) In Urban Areas

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Auteur	Verfaillie, Thibaut [1], Piron, Mireille [2], Gutleben, Caroline [3], Hecker, Christian [4], Maury-Robert, Anne [5], Chapin, Eric [6], Clément, Alain [7], Jaloux, Bruno [8]
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Résumé en anglais	<p>The aim of the study was to propose a biocontrol strategy of the sycamore lace bug <i>Corythucha ciliate</i> (Say) combining four successive treatments of entomopathogenic nematodes (EPN) (<i>Steinernema</i> spp.) and the predatory insect <i>Chrysoperla lucasina</i>. Based on the results of former trials realized as part of the project, this strategy has been implemented in situ in six cities of different climatic regions of France. The 1st treatment with EPN on trunk, targeting overwintering adults of <i>C. ciliate</i>, showed a significant reduction of 60% of pest populations. The 2nd treatment with EPN enabled to reduce populations on foliage of about 50%, three weeks after application whereas the 3rd treatment, an eggs' release of <i>C. lucasina</i> targeting first larval population of <i>C. ciliate</i>, did not show any efficacy on the whole, except on one site. Finally, the curative effect of the 4th treatment with EPN, applied at the time of the summer populations' peak of the sycamore lace bug, could not be evaluated given that <i>C. ciliate</i> populations dropped drastically at this period.</p>
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