

**STUDIES ON SEASONAL OCCURRENCE AND
CONTROL OF VARROA MITE (*Varroa
destructor*) PARASITIZING HONEYBEE
COLONIES (*Apis mellifera* L.)**

BY

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ABSTRACT

The present investigation was carried out to evaluate the efficiency of some botanicals and formic acid in controlling *Varroa* mite in infesting honeybee colonies, resulting in huge losses. The results proved the efficiency of garlic (in all applied forms), cinnamon extract and *Encalyptus* crystals, as well as formic acid in controlling the mite adequately, resulting in induced performance of the treated colonies, that recorded 162.35% increase in honey production.

A particular effort was directed toward investigating grooming behavior (defensive response) of bee colonies of both Carniolon and Italian hybrids against the mite which clear higher biting response of bee workers of the two hybrids that reached over 45% of the fallen mites on the bottom board of the hives inhouseed by the test colonies.

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