

22. Mass rearing technique of *Trichogramma* spp for Insect Pest Management

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Type: New Year of development: 2013-2014 Patent: NA

Description of Technology

The technique facilitates mass production of Trichogrammaspp producing sufficient quantity of different species of TrichogrammalikeTrichogrammabrasicae, Τ. cacoeciae, T. chilonis and T. embryophagumfor distribution to farmers for the purpose of different management of insect pests.Trichogrammacacoeciae and Τ. embryophagum are used against Codling moth, Cydiapomonella in Ladakh, whereas T. chilonis is used for the management of a number of pests like maize stem borer, tomato fruit borer, Diamondback moth, and T. brassicae shows promise against cabbage butterfly. Technology was improved towards production of healthier wasps, their cold storage to increase shelf life and safer field release mechanisms.



(Clock wise) : *Trichogrammacacoeciae* and *T. chilonis* use of Tricho cards against Codling moth, *Cydia pomonella* in Ladakh and maize stem borer, *Chilopartellus*

Impact

Use of *Trichogramma cacoeciae* against Codling moth, *Cydiapomonella* infesting apple in Laddakh has been popular and acceptable without any social taboo. Its incorporation as biological component in the integrated pest management of Codling moth has been outstanding. *Trichogrammachilonis* is equally important against a number of insect pests and being tried in the valley against a number of insect pests such as maize stalk borer and tomato fruit borer.

Commercial applicability

Large scale production of *Trichogrammaspp* through development of bio-control laboratory into bio factory can be of enormous commercial applicability and importance to farmers.