



Biological Efficiency of *Trichogramma evanescens* Agriculture

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Abstract: One of the thrilling problems of agriculture is obtaining large and qualitative pure harvest. Excessive utilization of pesticides for combating different harmful insects leads to environment pollution. 80% of Moldova's territories are protected by chemical methods and only 0.5% are protected by biological methods, so the ecological situation in our country is very poor. Actions which were followed involved launching 300,000-400,000 of *Trichogramma* per ha. It was repeated 7 times on fields of tomatoes, corn and cabbage. Biological efficiency of *Trichogramma evanescens* with improved qualities on the tomatoes fields varied from 83,0% to 84,8%, the degree of pest attack varied from 6% to 10%, in the variant with *Trichogramma evanescens* with common qualities varied from 74% to 75,8%, the degree of pest attack varied from 9% to 16% during the development of noctuids. Without any action against pests the degree of the noctuids attack was from 65% to 80,5 %. Biological efficacy of *Trichogramma evanescens* with improved qualities on the cabbage fields varied from 84,2% to 88%, the degree of pest attack varied from 5% to 7%, in the variant with *Trichogramma evanescens* with common qualities varied 75.9 to 80%, the degree of pest attack varied from 7% to 10% during the of development of noctuids. Without any actions against pests the degree of the noctuids' attack was from 55% to 65.0%. The difference is essential. Utilization of the NEW method which we are proposing, the method of rearing *Trichogramma* on grain moth preliminarily treated with Gamma Rays, gives the possibility to increase quality and quantity of the product.

Key words: *Biological efficiency, Trichogramma evanescens, Implementations, Noctuids, Generation, Development.*

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