

Comparative study of the number of generations, flight span and population density of codling moth in walnut and apple orchards in various altitudes of Iran

Gh. RADJABI¹, A. MAALMIR² and H. NAADERIAAN³

1- Iranian Research Institute of Plant Protection, Tehran

2- Walnut Research Station, Tooyserkaan

3- Jihad-e Agriculture Administration of Semnan

ABSTRACT

Three goals were intended to be realized:

- 1- Number of generations of codling moth on apple and walnut trees.
- 2- Comparative study of the dates of initiation and termination of various generations of codling moth on apple and walnut trees.
- 3- Population density of codling moth in walnut and apple orchards.

To achieve these goals, various walnut growing regions, including Tooyserkaan, Shahmirzaad (Semnan), Karaj and central Elburz were selected. Research methods were mainly based on pheromone traps and corrugated paper bands. Results are as follow:

- 1- Number of generations of codling moth is exactly the same on walnut and apple trees.
- 2- Generations are accomplished 7-10 days sooner on apple trees than on walnut trees. This point is highly important in achieving effectively the chemical control measures against codling moth in walnut orchards.
- 3- Population density of codling moth is higher in apple orchards than that in walnut orchards (the figures in Farsi text to be consulted).

Key words: Codling moth, walnut, apple, number of generation, flight span, population density.

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Address of the authors: GH. RADJABI, Iranian Research Institute of Plant Protection, P. O. Box 1454, Tehran 19395, Iran; A. MAALMIR, Walnut Research Station, Tooyserkaan, Hamedan, Iran; H. NAADERIAAN, Jihad-e Agriculture Administration of Semnan, Iran.

Gh. Radjabi, A. Maalmir and H. Naaderiaan