Date: 10/2021

Observation no. 503

**Commercial observation: The effectiveness of the Bio T Plus preparation in controlling carob moth in almond, Neve Ya’ar, July 2021**

**By: David Sarid, Eran Shilo—BioYome Company**

**Aim:**

To test the effectiveness of the Bio T Plus preparation in controlling carob moth in almond.

**Methods and materials:**

**The crop:** The commercial observation was conducted in an orchard of the Umm el-Fahm almond variety, planted in Neve Ya’ar in 2006.

Drip irrigation. Heavy soil.

**Phenological stage**: fruit

**Application method and spraying volume:** Spraying was carried out using a standard commercial sprayer. Spray volume: 100 L/dunam (1000m2)

**Evaluation method:** Counting of live larvae, approximately 400 fruit/ treatment.

Monitoring traps for adults

**Treatments dates:** 14/6/2021, 29/6/2021, 14/7/2021

**Date of fruit sampling (tree shaking):** 25/7/2021

**Preparations:**

* Bio T Plus, SC containing Bacillus thuringiensis subsp. Kurstaki at 16,000 international units (ITU)/mg per litre
* Talstar, EC containing 100 gr/L Bifenthrin

**Treatments:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Treatment** | **%** |
| 1 | Bio T Plus | 0.4% |
| 2 | Talstar | 0.075% |
| 3 | Control |  |

**Results:**

Three applications of Bio T Plus substantially reduced carob moth infestation compared with the control.

No signs of phytotoxicity were observed with any of the treatments.

**Table 1 Percentage of kernel damage (%)**

|  |  |  |
| --- | --- | --- |
| Treatment | Concentration % | Percentage of kernel damage (%) |
| 25/7/2021 |
| Bio T Plus | 0.4% | 3.25% |
| Talstar | 0.075% | 20.75% |
| control |  | 18.25% |

**Discussion and conclusions:**

Bio T Plus (0.4%) effectively eliminates carob moth larvae in almond and reduces kernel damage.

No phytotoxicity was observed in the crop. No effects on foliage were observed during crop growth.

**Acknowledgements:**

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