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INTEGRATED PEST CONTROL METHODS FOR ORGANIC AUTUMN PEAS IN THE CONDITIONS OF THE MOARA DOMNEASCĂ EXPERIMENTAL STATION, ILFOV COUNTY

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The experiment with organic peas (Frozen variety) at the Moara Domneasca teaching and research station of University of Agronomic Sciences and Veterinary Medicine of Bucharest, Ilfov County, Romania, was carried out within the Agroecological Living Laboratory developed in Romania through the project "SUNRISE - Supporting the Agroecological Transition through a Network of Living Labs" (Agroecology Partnership). The aim of this project is to identify, test and implement practical solutions to the main challenges in agriculture, such as soil health, crop diversification, reducing the use of agricultural inputs, optimizing plant and animal production, biocontrol of harmful organisms, preserving biodiversity and valorizing ecosystem services.

The main damaging agents of pea crop were: anthracnose (*Asccochyta pisi*); powdery mildew (*Erysiphe pisi*); weevil (*Bruchus pisorum*); pea pod moth (*Cydia nigricana*). These can cause crop losses through the appearance of various symptoms, such as spots on leaves and pods, deformations, rotting, stopping plant growth and development, abortion of flowers and pods, consumption of seeds in the milk-wax stage by insect larvae and a drastic decrease in quantitative and qualitative production.

The application of the insecto-fungicide Bioproteckt at a dose of 0.5 L/ha with the insecticide Nemmex, at a dose of 1L/ha, was carried out when the economic

damage threshold of 5% of *Erysiphe pisi*; 10-15% for *Asccochyta pisi*; 5 larvae of *Cydia nigricana* and 2 insects/m^2 of *Bruchus pisorum* was observed.

The preventive measures applied, as crops rotation, certified seeds, soil tillage, optimal density and the effectiveness of the biopesticides treatment of over 90% led to an average production of organic peas of about 2000 kg/ha in the conditions of Moara Domneasca, Ilfov County.

Keywords: Agroecology Living Laboratory, Integrated Pest Control, organic autumn pea, organic production.

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