

Integrated Protection of Potato Crop Against Pathogenic Factors in Ecological Agriculture

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Abstract

Ecological, biological or organic agriculture –name that varies depending on the linguistic accepted in each country, according to EU NR.1092 directives, is the type of agriculture based on minimalisation of using external materials, forbid the usage of syntheses chemical substances.

The final goal, the goal of the PhD thesis is to achieve an integrated control of the pathogens agents in potato cultures in the context of an ecological agriculture. Within the experiences organized in experimental fields in 2 locations, there were taken into study 12 potato cultivars with different precocity. Within the experiences there were organized 12 treatments with homologated ecological products and treatments with special foliar fertilizers with a toxic effect upon the pathogens.

At all the variants there were followed cultivars pretability; testing several new products; the effects of treatment appliance with foliar fertilizers; identification of other natural products in controlling the diseases; the study of correlations and interdependency between climatic, technological factors and also manifestation and the evolution of the diseases.

At harvest, the production obtained at each variant was registered, being established the behavior of cultivars and the influence of treatment upon production. The dates were synthesized in order to elaborate several strategies of integrated protection of the crop against pathogen agents.

Key words: integrated protection, pathogens, potato, ecological agriculture

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