RESEARCH REGARDING THE EPIDEMIC EVOLUTION OF CERCOSPORA LEAF SPOT (*CERCOSPORA BETICOLA* SACC.) UNDER EZĂRENI FARM CONDITIONS

Andreea Mihaela BĂLĂU [1]
Email: balau_andreeea@yahoo.com

Abstract
Cercospora leaf spot caused by *Cercospora beticola* Sacc.is the most destructive disease of sugar beet. Disease varies from year to year, depending on weather conditions, at economic losses is contributing the cultivated cultivar, the moment of infection, effectiveness of control disease, harvesting age also the presence of abiotic stress factors or other diseases.
Analysis of this pathogen attack depending on climatic conditions and in terms of no-treatments is concluded with useful results regarding forecasting and warning of treatments against this pathogen in order to obtain high and stable sugar beet crops. This experience was conducted for two years, at the experimental field from Ezareni Farm. Observations focused on the timing of the onset and epidemic evolution occurring *Cercospora beticola* Sacc. fungus, under natural conditions of infection also on the knowledge of the behavior of the five sugar beet cultivars (Brasov, Barsa, Libero, Merak and Victor) to the attack of the pathogen, depending on climatic conditions.
Analyzing the evolution of *Cercospora beticola* Sacc attack., under the studied cultivars was observed that they showed different levels of resistance to fungus attack. Also in this paper presents results regarding the roots production of studied cultivars. The analyze of the sugar beet root production and their average production reveals an differential behavior of the studied cultivars, due to the climatic conditions that were favored the attack *Cercospora beticola* Sacc.

Key words: *Cercospora beticola* Sacc., epidemic evolution , cultivar

[1] USAMV Iaşi