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RESULTS OF RESEARCH NEW FUNGICIDES FOR COMBATING INVASIVE DISEASES IN CHERRY IN THE CENTRAL REGION

Bivol Alexei, ORCID: 0009-0003-5709-7173
Bădărău Sergiu, ORCID: 0009-0009-5542-4373
Iurcu-Străistaru Elena*, ORCID: 0000-0003-3499-0084
Bivol Elisaveta

Technical University of Moldova, Institute of Zoology, USM Chisinau, Republic of Moldova

E-mail: iurcuelena@mail.ru*

Cherry plantations and fruit production are frequently disadvantaged, being severely affected by numerous species of harmful organisms that invasively attack all parts of the trees, causing significant annual damage to both the trees and the fruits. In this context, key diseases with economic importance to cherries arise, influenced by unstable environmental factors and the effect of monoculture, which creates favorable conditions in orchards for the permanent establishment of pathogens, with pathological effects, which are directly proportional to the age of the plantations.

We have observed the severe invasive impact, frequency, and extensiveness caused by the following diseases: anthracnose, leaf spot, and fruit rot, which are decisive limiting factors in increasing fruit productivity.

Based on the relevance of the research program conducted in the years 2022-2023, the purpose and objectives were: comparative investigation of new remedies with fungicidal action against pathogenic fungi *Coccomyces hiemalis, Clasterosporium carpophilum, Monilia laxa, Monilia cinerea*, and other associative pathogens established in productive cherry plantations.

As a result of the testing and comparative analysis of the values obtained regarding the consecutive aspects of the experimental variants and applied doses, the biological efficacy of the fungicides Score 250 EC and Chorus 50 in combating anthracnose, shot hole disease, and moniliosis in cherries was determined to be between 82.4% and 91.8%, compared to the untreated variant and advantageous values at the level of the standard fungicide Luna Sensation SC 500, established during the outbreak periods of the noted diseases.

Thus, the new preparations, Score 250 EC and Chorus 50 fungicides, have been tested for cherry orchards against *Coccomyces hiemalis, Clasterosporium carpophilum, Monilia laxa, Monilia cinerea fungi*, and their efficacy was proven depending on the doses applied and the severity of the disease compared to the standard variant.

Score 250 EC and Chorus 50 fungicides are recommended as effective chemical products in the integrated protection system for cherry orchards and are recommended according to the economic damage threshold of the attack degree indices, in 2-3 treatments during the cherry growing season.

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