Exploring Possibilities of Venturia inaequalis Control Using Ecologically Acceptable Products

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Summary

During the last 10 years organic production has become a significant part of agriculture in Serbia. In 2009 the ecologically acceptable products were used in control of the economically most important pathogen Venturia inaequalis. Field trials have been conducted in the regions of Vojvodina and Central Serbia, in apple plantation orchards (cv. Idared). Series of treatments have been applied (8-10). Leaf infection intensity has been assessed according to EPPO methods (PP 1/5-3). Technological and sensory fruit quality has been examined in accordance to standard methods. According to the obtained results, in a year with a non-favorable conditions for V. inaequalis, leaf infection intensity in non-treated control varied from 20 to 34 %. In those infection conditions, product ULMASUD (BIOFA, Germany) in concentration of 1 %, expressed efficiency of about 50 %, and in combination with sulfur products (conc. 0.3%), from 71.48 to 76.64 %. In the same conditions, efficiency of copper products (conc. 0.05 %) on leaf infection intensity was higher than 90 %. Based on one year data from 2 localities, product ULMASUD applied alone did not show consistent result. In combination with sulfur products result was more successful (efficiency around 76 %). Copper products applied in a very low concentration showed high efficiency (over 90 %) without the appearance of phytotoxicity.

Key words: Venturia, control, apple, ecological, products