Investigation of Biological and Pomological Characteristics of some Pear Varieties in Macedonia

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Abstract

In this paper five years research of the biological and pomological characteristics at the some pear varieties are presented. In the research are included 18 pear varieties with different characteristics. Some of investigated varieties are new bred (Turandot, Norma, Karmen, Monica), some of them are famous as resistant to fire blight (Harrow delight, Harvest queen, Harrow sweet, Honey sweet) and some varieties from old assortment which are less investigated till now in our conditions (Starking delicious, Abate fetel, Packams triumph, Conference, Magnes, Highland, Guyot). All varieties was compared with standard varieties (Williams, Precoce Moretini, Bosc). Demonstrative orchard was established in 1997 at the Faculty farm-Trubarevo near Skopje. The trees are grafted on BA 29 quince rootstock and for those varieties which have not affinity with quince was used interstock pear variety cure. Research of the pear varieties was conducted during the period of 2002-2007. The following parameters was investigated: blossom, ripening of the fruits, growth of the trees (TCSA, volume of the crowns), yield, pomological characteristic of the fruits, content of the soluble dry matters and acids and the resistance of the varieties to some biotic and abiotic factors.

During the research is concluded that some of the pear varieties are characterized with a good production attributes, resistant to fire blight, psyla and to some abiotic factors, with good quality of the fruits. In the first group, the best characteristics gave variety Norma, from resistant variety good results gave variety Harrow sweet, and at variety from old assortment for our conditions good results give Packams triumph. These varieties can be recommended for cultivation in our climatically conditions.

Key words: pear, research, assorment, development, bearing

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