

THE EFFECTIVENESS OF BIOSTIMULATOR GOEMAR BM 86 ON APPLE FRUIT YIELD AND QUALITY

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The Gala Buckeye apple variety grafted on the M9 rootstock was taken as the object of study. Crown shape vertical axis. Planting distance of 3.5 x 0.8 m. To study the degree of binding and fruit production, the following variants were tested: 1. Control - no treatment; 2. Goemar BM 86, 2.0 l/ha; 3. Goemar BM 86, 3.0 l/ha. The amount of solution administered 1000 l/ha. The investigations carried out show that a smaller number of fruits in the crown were recorded in the control variant, 57 pcs/tree, compared to the variants treated with the biostimulator Goemar BM 86, 65-70 pcs/tree, where an increase with 14.0 - 22.8% compared to the control variant. The highest number of fruits in the crown of the tree was obtained in the variant treated with the biostimulator Goemar BM 86 in a dose of 3.0 l/ha - 70 pcs/tree. The study carried out on the degree of flowering showed that in the control variant, the given indicator was 9.3%, but in the variants treated with the biostimulator Goemar BM 86 it increased to 10.4-11.6%. Higher values of the degree of binding of flowers was recorded in the Goemar BM 86 variant, in the dose of 3.0 l/ha, constituting 11.6%. The variant treated with the Goemar BM 86 biostimulator at a dose of 2.0 l/ha recorded average values (10.4%) between the previous variant and the control variant.

As the control variant recorded the lowest number of fruits per tree, consequently, this variant also produced lower yields both within a tree (9.06 kg) and per unit area (32.36 t/ha). In the variants in which foliar fertilization was carried out with the Goemar BM 86 biostimulator in doses of 2.0 l/ha and 3.0 l/ha, in the spring period, due to the increase in the number of fruits on the tree and a slight decrease in the average weight of a fruit, increased productivity per tree and within a unit area. If in the version Goemar BM 86 in the dose of 2.0 l/ha, the production per tree and per surface unit was 9.88 kg/tree and 35.28 t/ha, respectively, this indicator in question increased within the variant Goemar BM 86 in the dose of 3.0 l/ha at 10.57 kg/pom and respectively 37.74 t/ha.

The results obtained allow us to include the growth bioregulator Goemar BM 86 in the technological scheme of cultivating the apple culture in the dose of 3.0 l/ha, applied. 3 times by spraying.

Acknowledgments: This study was supported by the NARD of the Republic of Moldova, project 20.80009.5107.04, „Adaptation of sustainable and ecological technologies of fruit production under quantitative and qualitative aspect according to the integrity of the culture system and climate changes”. Project director, Doctor Habil. university professor Valerian BALAN.

Keywords: *apple, bio regulator, productivity, setting, variety.*