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FRUIT YIELD OF THE VARIETIES GALA BUCKEYE SIMMONS AND RED VELOX DEPENDING ON THE LOCATION OF THE PLANTATION AND THE AGE OF THE TREES

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In this paper, the fruit yield of Gala Buckeye Simmons and Red Velox apple varieties, grafted on M9 rootstock, is studied. The experience took place in the experimental orchards of LTD „Elit Fruct" and LTD „Prodcar". In favorable conditions for carrying out the photosynthetic processes and depending on the applied technology, high fruit yields can be obtained, which, in economic terms, would satisfy the fruit producers and the interest in the culture. Analyzing the fruit yield values for the first 6 years of fruiting of Gala Buckeye Simmons and Red Velox apple trees compared to the data presented by other authors, it can be stated that they are of an average level compared to those considered normal. From the data presented regarding the fruit harvest, it follows that the studied varieties began to bear fruit from the 2nd year after planting. We mention that the 2-year-old trees had, at planting, a well-developed axis and 5-7 well-developed anticipated branches, located radially around the axis. In the year of planting, all varieties had 1-2 fruits per tree. The harvest in the 2nd year after planting (year 2016) was 6.4-8.32 kg/tree. The highest yield was recorded for the Red Velox variety (8.32 kg/tree). In 2017, for 3-year-old trees, the fruit yield doubled and was from 14.4 kg/tree, for the Red Velox variety, to 19.92 kg/tree, for the Gala Buckeye Simmons variety. In 2018, the fruit harvest decreased considerably and constituted only 8.00-11.07 kg/tree. This decrease is explained by the fact that the trees were overloaded with fruit the previous year. In the 5th year after planting (year 2019), the fruit harvest increased significantly compared to previous years and varies from 8.71 kg/tree for the Red Velox variety (SRL „Prodcar") to 22.4 kg/tree for the variety Gala Buckeye Simmons (SRL „Elit Fruct"). In the 6th year after planting, the harvest again decreased considerably in both households and varies from 4.3 kg/tree for the Red Velox variety (SRL „Elit Fruct"), up to 8.8 kg/tree for the Gala Buckeye Simmons variety (SRL „Prodcar"). The apple plantation of SRL „Prodcar" also bore fruit starting from the 2nd year after planting, but with a lower yield compared to the plantation of SRL „Elit Fruct".

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