

Influence of rootstocks on plum productivity in different growing regions

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Proper selection of rootstock that is adapted to local growing conditions and climate is one of the most important preconditions for obtaining of high yield in intensive plum orchards. The aim of the investigation was to evaluate the influence of different rootstocks on the productivity of two plum cultivars: ‘Kubanskaya Kometa’ (*Prunus salicina* × *Prunus cerasifera*) and ‘Victoria’ (*Prunus domestica*) in different climatic conditions. Sixteen rootstocks known in Europe: eight vegetatively propagated (‘St. Julien A’, ‘Brompton’, ‘Ackermann’, ‘Pixy’, ‘GF 8-1’, ‘G 5-22’, ‘GF 655-2’, ‘Hamyra’) and eight generatively propagated (‘St. Julien INRA2’, ‘St. Julien d’Orleans’, ‘St. Julien Noir’, ‘Brompton’, ‘Wangenheims Zwetche’, ‘St. Julien Wädenswil’, ‘Myrobalana’, *Prunus cerasifera* var. *divaricata*) were used in the trial. The evaluation was done in experimental orchards in Latvia, Estonia and Belarus. Orchards were established in spring of 2001. Trees were planted at a spacing 5 × 3 m in four replications, three trees per plot. The data obtained in years 2008–2015 are presented. The yield was influenced by rootstock and differed between years, growing regions and cultivars. The meteorological conditions during wintering periods had significant influence on yield for plants on all evaluated rootstocks.

Keywords: Belarus, cultivar, Estonia, Latvia, meteorological conditions, *Prunus cerasifera*, *Prunus domestica*, yield