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Long-term evaluation of growth and yield of Stanley and Cacanska leptotica plum cultivars on selected rootstocks

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During 1992–2012, trunk cross-section area (TCSA), cumulative yield, yield efficiency and suckering of plum cultivars Stanley and Cacanska leptotica in combinations with vegetative rootstocks Myrobalan SE 4043, Myrobalan SE 4044, MY-KL-A, GF 655/2, GF 43, Damas C SE 4045, Pixy, St. Julien A and generative rootstock Myrobalan seedling were evaluated. The results indicated significant differences of the characteristics between the evaluated cultivar/rootstock combinations for each cultivar. The long-term experience indicates that the evaluated characteristics of the trees on different rootstocks can significantly change during the ontogenetical development in the orchard. This is demonstrated by the difference in the entering into the bearing stage, different abundance of the yields, the time of reaching of maximum yields and also in changes of growth intensity. For detailed description of the rootstock characteristics long-term trials are required. For cv. Stanley, Myrobalan SE 4043 is the best rootstock for long-term orchards and St. Julien A for orchards with a higher replanting rate. For cv. Cacanska leptotica, Myrobalan SE 4043 seems to be the best rootstock.

Keywords:

ontogenesis; stage; productivity; TCSA; bearing; suckering

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