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P9: Productivity and fruit quality of new and commercially important raspberry cultivars

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Newly released raspberry cultivars 'Vizija' (selection No 91–22–9–15) and 'Mistika' (selection No 91–22–9–19) from breeding program at the Institute of Horticulture, Lithuanian Research Centre for Agriculture and Forestry were compared with commercially important cultivars 'Meteor', 'Solnyshko' (both from Russia), 'Norna' and 'Veten' (both from Norway). Field and laboratory tests were carried out in 2010–2014. Phenological phases (vegetation, flowering and fruiting periods), plant growth habit (height, stem diameter, number of stems), yield, fruit quality parameters (weight, attractiveness, taste, titratable acidity, soluble solids, dry matter, anthocyanins, phenolics and ascorbic acid) and plant winter hardiness were evaluated. Plants of 'Norna' cultivar showed the best winter hardiness and produced the highest yield (5.33 t ha⁻¹). The highest berry sugar content (6.03 %) was found in 'Solnyshko', whereas berries of 'Veten' had the highest titratable acidity (1.97 %) and the lowest sweetness value (2.89). Both recently released cultivars had attractive large fruits. 'Vizija' was also characterized by early ripening and good inner berry quality. Yield of both cultivars was similar to the yield of standard cultivar 'Meteor'. New cultivars distinguished for high content of anthocyanins (58.1–62.9 mg 100 g⁻¹). 'Vizija' fruits had 25.0 % and 'Mistika' 15.5 % more anthocyanins than standard cultivar.