

The collection of stone fruit cultures of the SBI SO SRI “Zhigulevskiye sady” – mobilization, studying, the prospects of use

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The history of selection of stone cultures at the Samara experimental fruit and berry station originates since 1931 and proceeds so far (in the status of Science, State Budgetary Institution of Samara Region “Research Institute of Horticulture and Medicinal Plants “Zhigulevsk Gardens”). In the State Register of Breeding Achievements of the Russian Federation in 2018, 21 varieties of stone fruits from the breeding plant of the Research Institute “Zhigulevskiye Sady” were included. The main goal of our research is the creation of varieties of stone fruits of an intensive type, highly productive, having a compact low-growing crown, with high-quality fruits, dessert, universal and technical purposes, adapted to the conditions of the region. To achieve this goal, from 2011 to 2018 a genetic collection of stone fruit varieties was created: plums – 76, cherries – 60, sweet cherries – 24, and apricots – 22 varieties. The ecologo-geographical origin of the stone fruit varieties attracted to the collection covers many regions of the Russian Federation: Central, Central Black Earth, Middle Volga, Lower Volga, Ural, Northwestern, Far Eastern, Volgo-Vyatsky, North Caucasus. During the study, a preliminary assessment of the collection material in the climatic conditions of the past growing seasons was carried out. In 2015–2018, the harvest was obtained in most of the collection varieties. The following varieties of cherries were distinguished by the complex of economic and biological features: Saratovskaya baby, Volga dessert, Malinovka, Mayak, Molodezhnaya, Zhukovskaya, Kharitonovskaya, Victoria, Shakirovskaya, Rovesnitsa, Turgenevka, Azalia and others. In favorable conditions, growing seasons in 2016, 2018 were harvested sweet cherry varieties Tchernashnya, Fatezh, Tyutchevka, Bryansk pink. Plum is represented by varieties of home plum, Chinese plum and cherry plum. Since 2015, intensive flowering and annual fruiting have been noted in the Chinese plum sapings Nezhenka, Alyonushka, Krasa Orlovshiny, Orlovsky souvenir. The most fruitful were the varieties of homemade plum Etude, Start, Renklod Tambov, Record, Candy, Eurasia 21, Skoroplodnaya, Bolkhovchanka, Start. In 2016, 2018 there were favorable conditions for the culture of apricot. High yield, good quality of fruits are characterized by the varieties of apricot Round, Khabarovskiy, Rattles, Zeus, Lel, Ulyanykhinsky.