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MORPHOLOGICAL AND BIOLOGICAL CHARACTERISTICS OF PRUNUS PERSICA L. AND THEIR IMPORTANCE FOR EXAMINATION OF VARIETIES ON DISTINCTION, UNIFORMITY AND STABILITY (DUS)

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The aim of the researches is the analysis of morphological and biological characteristics of peach varieties and their importance for examination of varieties on distinction, uniformity and stability as the main criteria for variety recognition, adding varieties approved for use to the Register and giving them the legal protection as the objects of intellectual property. Objects of researches were 22 peach varieties with early and early-middle periods of ripening bred in NBG-NSC. Examination of varieties involves determination of uniformity, distinction and stability of varieties. Variety is considered to be distinct if it is clearly different from any other variety which is well-known at the time of application registration. Variety is considered to be uniform if the plants of this variety are quite the same according to their main characteristics while the propagation. Variety is considered to be stable if its main characteristics stay constant after repeated propagation or in a case of special breeding cycle, at the end of each such cycle. Analysis of biological and morphological characteristics of trees, fruits, flowers, leaves, petioles and stones of studied varieties shows that all of them fit the criteria of distinction, uniformity and stability and can be included in State Register of protected selection achievements and in database of UPOB (Union for Protection of New Varieties of Plants). Acknowledgements: This study was funded by a research grant № 14-50-00079 of the Russian Science Foundation.

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