

INTRODUCTION OF *PADUS* MILL. SPECIES IN THE POLAR-ALPINE BOTANICAL GARDEN-INSTITUTE

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A multiple number of studies have been conducted recently to examine the condition of 13 samples of 7 taxa of the genus *Padus* under conditions of introduction in the central part of the Kola Peninsula. The samples were analysed by groups, considering the age and origin of the source materials. An analysis of the phenological phase timing and the phenological indicators has been conducted including the beginning and duration of vegetation, the duration of linear growth of shoots, the duration of the prefloral period. An overall assessment of the prospects of samples introduction was obtained. An analysis of the phenological development, the values of the coefficient of phenological adaptation, and the evaluation of the prospects of introduction showed insignificant differences in plants differing in the origin of the source material and in the period of their experimentation. However, there were found some differences in the quantitative characteristics of phenology in samples of different systematic positions. It was defined that the most introduction potential have plant species with early onset of vegetation, complete lignification of shoots, with a short prefloral period. The following plants showed the most successful introduction: *P. asiatica*, *P. avium*, *P. avium* ‘Colorata’, *P. maackii*. Additional source material from the North region required to reach more successful introduction of *P. pensylvanica* u *P. virginiana*.

Key words: introduction, woody plants, *Padus* – bird cherry, phenological development, perspective introduction, Murmansk region.

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