

Original article

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Development and Structure the Regeneration of Broadleaved Species after Cleaning in Siberian Spruce Cultures in the Middle Urals

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Abstract. The results of studying of the species composition, number (preservation) and growth of vegetative renewal of deciduous trees and shrubs in the first 4 years after thinning of the Siberian spruce plantation (*Picea obovata* Ledeb.) in the Sverdlovsk region are presented. The studies were carried out in three types of forest: in spruce forest multigrass – green-mossed, spruce forest grassed and spruce-pine forest berried. For the first time for the Middle Urals it has been established that in the composition of the secondary vegetative renewal after cleaning in the spruce plantations the largest number of timber species is present in the spruce forest multigrass – green-mossed. Wild animals, feeding on young trees and shrubs have a significant impact on the number (preservation) and composition of emerging young growth. The development of young growth (number and growth) of *Betula pendula* Roth. and *Betula pubescens* Ehrh., goat and aspen rootshoots is more active in conditions of increased illumination in spruce forest multigrass – green-mossed. Therefore, unlike other types of forest, here in the near future need another action thinning will be required.

Key words: thinning, type of forest, growth of undergrowth and ootshoots, natural trees death

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