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Success of Natural Regeneration after the Different Types of Application Logging in the Arctic zone of the Arkhangelsk region

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Abstract. *The problems of natural reforestation after the different types of application logging in the Arctic zone of the Arkhangelsk region in the Arctic zone in the territory of the Arkhangelsk region are considered. The analysis of silvicultural efficiency of logging has shown that the forests of the north-west of the European part of the Russian Federation characterized by natural reforestation; the creation of forest cultures carried in small volumes. In widespread of pine and spruce forest types, the subsequent reforestation with coniferous species is not always successful. When developing clear-cut areas, it is important to ensure the conservation of undergrowth in the amount sufficient for the reforestation of clear-cut areas with conifers. Methods and technologies of harvesting in the forests of the Arctic zone must first ensure the stability of the forest stands, conservation of soil and the environment.*

Key words: *success of reforestation, number of undergrowth, types of logging, clear-cut areas, spruce forests, pine forests, forest productivity.*

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