

Original article

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Growth and Yield of Pine-Linden Forest Plantations in the Forest Experiment District of the Timiryazev Academy

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Abstract. The materials for the study were the data of long-term observations on permanent test plots, laid down in the Forest Experimental District of the Timiryazev Agricultural Academy M.K. Tursky and N.S. Nesterov. Planting in the pits under a shovel in the spring of 1880, three-year-old seedlings of pine and four-year-old linden in equal quantities. Only 1 hectare was planted 4392 plants. To consider the dynamics of taxation indicators of stands on constant test plots, they were aligned with age. Until the age of 95–110 years, the pine element of the forest is characterized by large values of productivity indicators. After it begins to decline as a result of the decay of large trees, and the linden dominates the plantation. Pine-linden stands are more durable and stable compared to pine monocultures, in which intensive decomposition occurs after 130–140 years. In the absence of natural regeneration of pine and other conifers, the formation of a clean linden stand does not meet the objectives of farming in the conditions of the city of Moscow, therefore, it is necessary to reorganize the plantations.

Key words: growth, yield, pine, linden, forest plantations, mixed stands.

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