

Original article

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## Growth and Productivity of Larch in 67-year-old Collection and Geographical Cultures of the Educational and Experimental Forestry VGLTU

**Evgeniy E. Kulakov<sup>1</sup>**

*Candidate of Agricultural Sciences*

**Alexey I. Sivolapov<sup>2</sup>**

*Candidate of Agricultural Sciences*

**Abstract.** *The article presents the results of the latest inventory of geographical cultures of Sukachev's larch, which were laid in 1955 on the territory of the educational and experimental forestry Voronezh State Forestry Engineering University named after G.F. Morozov in order to evaluate them, select and use the most promising ecotypes for afforestation in the Voronezh region. To establish the degree of stability and productivity on the territory of the selected objects, an eye-measuring and instrumental assessment of plantings was carried out using Resistograph. As a result of the research, it was noted that among all ecotypes, more than 90 % of trees are observed without signs of weakening. Instrumental analysis of the state of ecotypes using Resistograph showed the absence of internal injuries and the presence of rotten pathologies*

**Key words:** *breeding, geographical crops, Sukachev's larch, sanitary assessment, Resistograph.*

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<sup>1</sup> Russian Research Institute of Forest Genetics, Breeding and Biotechnology, Engineer of the Department of Breeding and Seed Production (Voronezh, Russian Federation), evgenyykulakov@yandex.ru

<sup>2</sup> Voronezh State Forestry Engineering University named after G.F. Morozov, Associate Professor of the Department of Forest Crops, Breeding and Forest Reclamation (Voronezh, Russian Federation), aleksey-sivolapov@yandex.ru