

QUANTITATIVE EXPLOITATION OF WHITE PINE LOGS DURING EXPERIMENTAL AND SIMULATED SAWING

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ABSTRACT

Subject of this paper is analysis of max quantitative exploitation when treating experimentally (in practice) white pine logs and simulating treatment applying computer-supported programme. The major goal is, by means of experimental tests and simulation of treatment of the logs, to obtain information on max quantitative exploitation. Study objects were white pine logs. They were 4 m. long, with quality class I/II, with diameter ranging between 25,0 and 75,0 cm, distributed in V (five) thickness classes.

Technologically, the logs were first sawn on logs bandsaw, and the secondary treatment involved longitudinal and transversal sawing. The treatment applied was the so called "purposeful" sawing, which enabled obtaining specimens for construction purposes. Max quantitative exploitation from experimental tests ranges between 66,82% and 76,43%, the average value being 71,86%. When simulating the sawing process, the values were higher and ranged between 68,83% and 78,00%, the average value being 74,42%. For simulation of the treatment process, a programme entitled "simulation-SBG" was prepared.

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