LUMBER VOLUME YIELD FROM BLACK WALNUT (JUGLANS NIGRA L.) LOGS

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ABSTRACT

This paper experimentally and theoretically researches the performance indicators of sawmill processing of black walnut (Juglans nigra L.) logs in sawn boards. The research covered the veneer and sawmilling logs of the black walnut classified according to the Croatian standards. For the requirements of the experiment, the logs at the sawmill were classified into four qualitative classes: 1st class veneer logs, 2nd class veneer logs, 1st class sawmilling logs and 2nd class sawmilling logs. Logs were sawn up in the 30 and 50 mm nominal thickness of sawn boards. A mechanized line based on vertical log band saw with hydraulic carriage was used for primary sawing up. The 1st class veneer logs proved to produce the best lumber volume yield results. The 2nd class sawmilling logs proved to produce the worst volume yield results.

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