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Wood trait differences of hybrid aspen clones

Mārtiņš Zeps

Uldis Grīnfelds

martins.zeps@silava.lv



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Materials and method











Sample trees cut at age 12, in 2 hybrid aspen clones experimental trial, and addition sample trees cut in another 2 experiments.

Wood used for analysis of the trunk from 0.5 to 1.3 meters in height from the ground.



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Materials and method









Results of Kraft pulp Yield %

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Results of Fibre length and width





Old aspen hybrids (~40y)

43 to present higest length and width

12 presents shorter and more arrow fibres

28, 30 arepresented by"shorter"and morewider fibres

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Best clones for pulp un paper plantations is 23

Plantation region makes effect on Kraft pulp yield of Aspen (130); 25, 26 and 28 hybrid aspen clones, but no so much effect on hybrid clone No.4.







Estimated Marginal Means of Raupjums



Non-estimable means are not plotted



Results



- 1. It is possibilities to select hybrid aspen clons for polp and paper production. Perspective clones for pulp and peper industry is 23, 43, 4, 28, 40.
- 2. Hybrid aspen clone 23 is stable in different plantations.
- 3. Hybrid aspen clones have more cellulose content in wood comparison this common aspen. For industrial purposes is it essentially.



Thank You for attention!



Study has been partly funded by: ESF project "Importance of Genetic Factors in Formation of Forest Stands with High Adaptability and Qualitative Wood Properties" (No 2009/0200/1DP/1.1.1.2.0/09/APIA/VIAA/146)

