STUDY OF SCION COMPATIBILITY FROM PLUS TREES ON *EUCALYPTUS PELLITA* F. MUELL AND THE HYBRID USING *VENEER GRAFTING* TECHNIQUE

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ABSTRACT

The purposes of this research are to study the compatibility between rootstock and scion from *E. pellita* trees and hibrid trees (*E. pellita* and *E. brassiana*) and to study variation of compatibility, number of shoots, length of shoots and diameter of shoots development using *veneer grafting* technique.

The experiment was conducted at The Center of Research and Development of Biotechnology and Forest Tree Improvement at Yogyakarta during six months. The experiment used *Completely Randomized Design (CRD)* which treatment was arranged as Nested Design. The treatment used 42 family plus trees that consisted of 36 family from *E. pellita* trees, 6 family from hybrid trees with 4 replication and total numbers of grafting are 168 plants.

The result of the experiment showed that the highest compatibility come from clone no. 19 (15-4-154), 35 (22-7-83) and 33 (33-7-14), there's no difference between species in compatibility, number of shoots, length of shoots and diameter of shoots development, clones within *E. pellita* trees showed different compatibility, number of shoots, length of shoots and diameter of shoots development.

Keywords : compatibility, scion, plus trees, *E. pellita*, *veneer grafting*

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