



Study on Varieties Combination Suitable for Mutual Pollination of Yan Mountain Chestnut

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ABSTRACT

In order to improve the yield and quality of new varieties *Castanea mollissima* cv. " Zipo" , *Castanea mollissima* cv. " Zunyu" and traditional Yan Mountain cultivars *Castanea mollissima* cv. " Duanci" , *Castanea mollissima* cv. " Yanhong" , *Castanea mollissima* cv. " Donglingmingzhu" , an experiment was carried out to study varieties combination that was suitable for their pollination. Fruiting rate and seed-setting rate were used to decide which the most suitable configuration was. The result indicated that: *Castanea mollissima* cv. " Zunyu" was the best pollination tree for *Castanea mollissima* cv. " Yanhong" , *Castanea mollissima* cv. " Zipo" and *Castanea mollissima* cv. " Duanci" ; *Castanea mollissima* cv. " Duanci" was regarded as the best pollination tree for *Castanea mollissima* cv. " Zunyu" ; the best variety to comply with *Castanea mollissima* cv. " Donglingmingzhu" was *Castanea mollissima* " Zunyu" and *Castanea mollissima* cv. " Duanci" ; *Castanea mollissima* cv. " Zunyu" and *Castanea mollissima* cv. " Duanci" complied with each other best. Appropriate configuration of pollination varieties turned out to be one of the key measures to improve the yield and quality of chestnut, while irrational combination may even bring the reduction of output.

KEYWORDS

Castanea Mollissimabl; Configuration; Fruiting Rate; Seed-Setting Rate

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