Effects of Inbreeding in Oil Palm[1]

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ABSTRACT

The main objective of this research is to learn the effects of inbreeding that were expressed by oil palm inbred of Deli dura and Yangambi tenera. Three crosses of Deli dura inbred number 8, 9 and 25 planted in 1996 were compared to their recombinants for bunch composition. Sixteen other crosses of Deli dura inbred planted in 2000 were observed for their leaflet morphology, and 1 cross of Yangambi tenera inbred was observed in the prenursery. Bunch compostion between inbreds and their recombinants were significantly different from all observed characters except for fruit to bunch ratio. All 16 crosses of Deli dura inbreds expressed roll-up leaflet morphology. Plumular leaves of one of the seedlings of the Yangambi tenera inbreds expressed albinism in prenursery.

Keywords: *inbreeding depression, inbred, recombinant, bunch characters*

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