

ABSTRACT

CHARACTER APPEARANCE OF LONG BEANS PRODUCTION (*Vigna sinensis* L.) F₁ GENERATION AND ITS PARENTAGE

By

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Long beans are very often consumed by people, it make the demand on its production is very high, the effort that made to increase the production of long beans, is to obtain the superior varieties high production. This study aimed to compare the production character by crosses Hitam x Lurik and Lurik x Hitam with that parentage and the yield production of reciprocal crosses namely Hitam x Lurik with Lurik x Hitam. Seed used is Hitam, Lurik, Hitam x Lurik and Lurik x Hitam. The treatments are arranged in a completely randomized design (CRD) and the data tested with LSI and heterosis. The results of research with LSI test showed that the character production only zuriat Lurik x Hitam that have the best pod length than the two parents. Heterosis value prediction indicates that the production character of zuriat Hitam x Lurik which has the heterosis and heterobeltiosis effect, that on the character numbers and the pods weight, while in zuriat Lu x Hi just the long pods characters which have the effects of heterosis and heterobeltiosis.

Keywords: production, LSI, heterosis, long beans