

Respon Seleksi Karakter Umur Pendek dan Potensi Hasil Tinggi pada Beberapa Genotipe Tanaman Kedelai (*Glycine max* (L.) Merrill) Generasi F6.*Selection Respon of Short Age and potential of high yield at F6 Soybean Plant (*Glycine max* (L.) Merrill) generation. Advisor : Dr. Ir. Nurul Syamsijah, MP and Dwi Rahmawati, SP.MP.*

Ika Nur Farida
Seed Production Techniques
Agriculture Production Department
State Politechnic Negeri of Jember
Mastrip street, PO. Box 164, Jember 68121
e-mail: ikanur.farida.tpb@gmail.com

ABSTRACT

This research aims to know the response of F6 plant selection of short age character and high yield potential in some genotypes with pedigree selection and know the value of genetic progress of F6 plants. The research was conducted at trial field State Polytechnic of Jember from September 2016 to January 2017. The design used was non factorial Randomized Complete Block Design (RCBD) with 11 genotype, that consist of four parentals Dering, Rajabasa, Polije 2, Polije 3 and seven genotypes result selection of short age character dan high yield potential RD, P2D, P2R, P2P3, P3D, P3R, P3P2 and Malabar variety as variety of comparison. The parameters are flowering age, harvest age, weight of 100 seeds, yield each plant, yield each plot and yield potential per hectare. The result showed that the treatment of 11 genotypes of soybean plants had a very significant effect on the character of flowering age and weight of 100 seeds. The genetic progression value of harvest age character (2,229%) included low category. The genetic progression of flowering age (7,231%), value weight of 100 seeds (8,993%), yield each plant (7,772%), yield each plot (7,772%) and yield potential per hectare (7,772%) was medium category.

Keywords: *cross breeding; genetic progress; genotype; selection; soybean.*