

ABSTRACT

HERITABILITY OF AGRONOMIC CHARACTERS SOYBEAN (*Glycine max* [L.] Merrill) GENERATION F₆ FROM CROSSING OF WILIS X B₃₅₇₀

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Indonesia produced soybean productivity is still low, so that the necessary efforts to increase soybean productivity by way of cross elect elders. The purpose of this study to determining the broad sense heritability of agronomic characters of soybean genotypes and determine the expeted lines that the mean is better than both parents. This study was conducted in April-July 2014 Integrated Field Laboratory, University of Lampung. Materials used are Wilis, B₃₅₇₀, 10 genotypes number generation F₆ are 142-159-1-14, 142-159-5-1, 142-102-3-15, 142-102-4-6, 142- 159-5-2, 142-159-1-16, 142-102-4-1, 142-163-1-1, 142-163-1-16, and 142-140-1-5. Genotypes were palnted in Randomized Complete-Block Design with two replicates. The results showed that (1) The heritability value to estimates agronomic characters of soybean generation F₆ from crossing Wilis x B₃₅₇₀ was high for the character weight of 100 grains dry beans, worth being for character harvesting age, plant height, number of productive branches, and the weight of dry seeds per plant, while the character of the age of flowering, number of pods pithy and dry grain weight per plant belonging to the low criteria.

(2) Numbers expectations generations F_6 from crossing Wilis x B_{3570} which has a median weight of seeds per plant better than the parent is genotype 142-159-1-14-1; 142-163-1-1-10; 142-159-1-16 -2; 142-159-1-16 -17; 142-163-1-1-2; 142-102-4-6-4; 142-163-1-1-14; 142-159-1-16 -12; 142-163-1-16-10; 142-159-1-14 -12; 142-159-5-1 -6.

Keywords: heritability and Soybean