

ABSTRAK

CHARACTER SEGREGATION AGRONOMY SOYBEAN (*Glycine max* [L.] Merrill) GENERATION F₂ FROM CROSSES WILIS X B3570

By

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Segregation pattern of characters is one of the genetic parameters in the selection process. Soybean plant breeding will be effective when using patterns of segregation. The research aimed to estimate the frequency distribution, patterns of segregation, and the number of genes controlling agronomic characters of soybean F₂ generation from crosses Wilis x B3570. The research was conducted at the Experimental Farm and Seed and Plant Breeding Laboratory of the University of Lampung in October 2011 until February 2012. Research carried out by the experimental design and data analysis without replicates using chi-square test for normal distribution and the suitability of the fit between the observed values and the expected value. The results showed the character frequency distribution flowering, plant height, number of productive branches, weight of 100 grains, and grain weight per plant normally distributed. The characters include a quantitative character controlled by many genes. Character harvest and number of pods per plant was not normally distributed. The characters are included in the qualitative character that is controlled by two genes. Character harvest is controlled by two genes that duplicate dominant epistasis working with the ratio 15: 1, number of pods per plant character is controlled by two duplicate genes that work in epistasis with cumulative effect following the ratio 9: 6: 1.

Key word : Soybean, Segregation, F₂ generation.