

**Uji Daya Hasil Kedelai (*Glycine max*[L.] Merrill) Tiga Galur Harapan Jember Produksi Tinggi. Yield Test of Soybean (*Glycine max*[L.] Merrill) Three High-Producing Jember Promising Lines.** Supervisor by Netty Ermawati, SP, Ph.D

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***ABSTRACT***

*Soybean (*Glycine max* [L.] Merrill) is a type of plant from the Fabaceae family, whose pods are the basic ingredient for various delicious foods, such as soy milk, soy sauce, tofu, and tempeh. Indonesia's soybean needs in 2024 have not been met. Efforts to create national food self-sufficiency can be done by forming new varieties with high production and early maturity. This study aims to determine the yield of five promising lines with comparison varieties. The study was conducted from October 2024 to January 2025 at the experimental field of the Jember State Polytechnic, Jl. Mastrip, East Krajan, Summersari, Summersari District, Jember Regency, East Java. The experimental design used was a Non-Factorial Randomized Block Design (RAK) which was repeated 4 times. The research factors consisted of one factor, namely 5 promising lines consisting of GHJ-1, GHJ-2, GHJ-3, GHJ-4, GHJ-5 and the comparison varieties Dega and Wilis. The observation data were analyzed using SPSS software, then continued with the BNJ test at a level of 5% if it showed a significantly different effect (\*) or a very significantly different effect (\*\*). The results of the study showed that the genotypes of prospective varieties with superior characters, namely flowering age and harvest age of the five promising lines were faster than the Wilis comparison variety, and the production results, namely seed weight per plot and seed weight per hectare were heavier than the Wilis and Dega comparison varieties.*

***Keywords: Soybean, Line, Yield Test, Production***