Uji Keunggulan Beberapa Genotipe Kedelai (*Glycine max* (L.) Merrill) Galur Harapan Jember. *Test of Excellence of Several Soybean (Glycine max (L.) Merrill) Genotypes of Jember Hope*. *Supervisor*: Dr Ir Nurul Sjamsijah, M.P.

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ABSTRACT

Soybean is a leguminosae plant classified as a food crop that is used as a source of vegetable protein. There was a decrease in productivity in 2020 to 2021. Efforts can be made to increase soybean productivity by assembling superior varieties that have high productivity, early age and resistance to pests and diseases. This study aims to determine the yield potential and superiority between the Galur Harapan Jember (GHJ) and the comparison varieties Malabar and Anjasmoro. The research was conducted from May to August 2024 in the innovation garden of Jember State Polytechnic, Sumbersari, Sumbersari Sub-district, Jember Regency. The research design used was Non Factorial Randomised Block Design, using 7 genotypes namely GHJ 1,2,3,4,5, Malabar and Anjasmoro varieties replyted 4 times. Data were analysed using the 5% LSD further test if it showed a significantly different effect. The results showed that in the parameter of plant height, all GHJs showed very significantly different results from the Anjasmoro comparison variety. The number of filled pods per plant of Anjasmoro variety showed results that were not significantly different from GHJ 1, Malabar and GHJ 4. Seed yield per plant of GHJ 1,2,3 and 4 showed significantly different results from Anjasmoro variety, but GHJ 5 showed results that were not significantly different. Seed yield per plot of GHJ 1,2,3,4 and 5 showed significantly different results from the Anjasmoro variety. The 1000-grain weight of GHJ 2,3,4 and 5 showed significantly different results from the Anjasmoro variety, but GHJ 1 showed results that were not significantly different. Seed yield per hectare of GHJ 1,2,3,4 and 5 showed significantly different results from the Anjasmoro comparison variety. In the harvest age parameter GHJ 1,2,3,4 and 5 showed significantly different results from the Malabar comparison variety.

***Keywords**: Strains, Soybean, Superiority*