Uji Ketahanan Beberapa Genotipe Tanaman Kedelai (*Glycine max* (L) Merill) **Terhadap Infeksi Jamur Karat Daun** (*Phakopsora pachyrizi*)**.** *The Resistent beberapa Soybean Genotypes (Glycine max (L) Merill) for Infection Fungus Leaf rust.* **Suharjono as chief counselor and Dyah Nuning Erawati as a member counselor.**

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ABSTRACT

Soybean (Glycine max (L) Merill) is an important food after rice and as a source of vegetable protein. Soybean is also a raw material for various industries. Low soybean production is partly due to improved varieties is still little used by farmers, the high pests, pathogens and disorders of weeds. The main cause that can reduce soybean yield in cultivation production systems of soybeans (Glycine max (L) Merill) is the major disease of soybean that leaf rust disease caused by Phakopsora pachyrhizi fungus. It's a major disease of soybean plants and can reduced the production around 30-60% in susceptible varieties. Durability testing conducted to obtain information of Galur Harapan soybean that resistant to leaf rust disease. From materials of research 7 galur harapan and 3 for comparison (Wilis was comparison susceptible / tolerant, Ringgit was very sensitive and Malabar was quite resistant from leaf rust disease) has done without inoculation rusts and disease naturally. From the result of observations 40 HST, 50 HST, 60 HST and 70 HST has known that Galur Harapan which disease attack lower than others was GHJ 2 and GHJ 6. For the comparison, Malabar, Wilis and Ringgit from result of intensity observations and the rate of disease infection on resistant criteria that was 0-25%. This may be due from the effect of fungicide, refraction observation, the availability of leaf rust disease itself and also from the environment. So that, 7 Galur Harapan on resistant criteria 0-25% that was GHJ 2 and GHJ 6, and for quite resistant 26-50% was GHJ 3, GHJ 4, and NSP.

Keywords: Resistest, Galur Harapan, soybean, leaf rust