

## ABSTRACT

Ika Khoiriyah. 2011. **Study On Characteristic Trikoma Galurs Of Soybean (*Glycine max* L.) Sensitive And Resistant To Attack Of Grayak *Spodoptera litura* F. (Lepidoptera: Noctuidae)**. Thesis, Department of Biology, Faculty of Science and Technology, Islamic University (UIN) Maulana Malik Ibrahim Malang. Advisors: Dr. Eko Budi Minarno, M.Pd, Dr.Ir. Suharsono, MS dan Ach. Nasichuddin, MA.

Key Words: Soybean, characteristic trikoma, sensitive, resistant, grayak (*Spodoptera litura* F.).

Soybean is representing food materials and vegetation protein source to fulfill requirement of human being food, livestock, and also good for raw upon which various is multifarious of industry. Pest attack on Grayak to soybean crop, is factor becoming farming constraint. Therefore operation of pest require to be conducted by using varietas resistant of pest, that is passing morphology characteristic selection and leaf anatomy. Characteristic leaf of soybean have close relation with resistant to insect, anticipated by closeness trikoma of leaf can hinder suction process or intake of food gist by grayak. This research purpose to know intensity damage of leaf by pest attack, and also analyse closeness trikoma of leaf soybean with galur that is resistant to attack of grayak.

Research was conducted in July until September 2010 with location in Greenhouse Hall Research of Crop Legume and Tuber (BALITKABI) in Kendalpayak District of Pakisaji Malang and Optical Laboratory of Biology, Department of State Islamic University Maulana Malik Ibrahim Malang. This Research is divided to become 2 phase that is descriptive research and eksperimental use Complete Random Device (RAL), 2 times restating. If there are difference of reality hence continued with Different of Smallest Reality (BNT) 5%. Treatment the used 45 galurs soy and 450 of II instar *S. litura*. Data result of research cover intensity value

Result of research indicate that crop resistance criterion pursuant to intensity value damage of leaf, from 45 soybean galurs known by 4 galur pertained category very resistant (ST), 4 galur pertained to resistant (T), 9 galur pertained rather resistant (AT), 24 galur pertained sensitive (R), and 3 galur pertained very sensitive (SR). From the result can know also difference of soy galur (Max L Glycine.) having an effect on to attack resistant of grayak, and evaluated from leaf anatomy facet (trikoma) can know that closeness of trikoma relate to resistant level of soybean galur to attack of grayak. Anticipated by excelsior closeness of trikoma hence progressively resistant the galur to pest attack.