

Yield Test of Five Genotypes of Crossing Soybeans (*Glycine max L.*) Generation F8 Instructor : Dr.Ir. Nurul Sjamsijah, MP.

Ristia Purwatiningsih

Seed Production Techniques
Agriculture Production Department, State Politechnic of Jember
Mastrip Street, Po. Box 164, Jember 68121

ABSTRACT

The increasing demand of soybeans throughout the year causes soybean production to be increased. The way to increase soybean production is by plant breeding which aims to produce superior varieties. The purpose of this study was to determine the yield of five genotypes GHJ 1, GHJ 2, GHJ 3, GHJ 4, and GHJ 5 on soybeans of the F8 generation. As well as obtain information about prospective varietal lines obtained from yield tests to obtain stable and viable seeds. This research was conducted from August 2020 to November 2020 and used soybean seeds of the F8 generation. The design used was a non-factorial Randomized Block Design (RBD) with five genotypes. The soybeans design consisted of four replicates with five strains . The result of this study there is one genotype of hope namely genotype GHJ 1 which has a seed weight per plant of 32,69 g which exceeds the weight of seeds per plant from other genotypes and two comparison varieties Wilis and Malabar, besides that genotype GHJ 1 has a flowering age of 31 days after planting, age of harvest was 94 day after transplanting, plant height was 75,06 cm, number of branches per plant was 4,07 pieces, number of pods per plant was 55 pieces, and weight of 100 grains was 16,56 g.

Keyword: generation, soybean, yield test