

**Respon Pertumbuhan dan Produksi Beberapa Varietas Kedelai (*Glycine max L.*) Terhadap Aplikasi Pupuk Organik Kotoran Kambing.** (*Growth and Production Response of Some Soybean Varieties (*Glycine max L.*) Against the Application of Goat Manure Organic Fertilizer*). Supervised by : Ir. Suwardi, M.P.

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### **ABSTRACT**

*Soybean (*Glycine max L.*) is one of the agricultural commodities that is often used as a cheap source of protein in the manufacture of food products such as milk, soy sauce, tempeh, tofu and is used as a vegetable. The research was conducted from August – December 2022 at UD. Sirtanio is located in Turus Village, Umbulrejo, Sumberbaru, Singojuruh District, Banyuwangi Regency. This study used the factorial RAK method with 2 factors. The first factor is the dose of organic fertilizer goat manure consisting of 2 tons/ha (D1), 4 tons/ha (D2) and 6 tons/ha (D3). The second factor is the use of several varieties consisting of the Grobogan Variety (V1), the Gepak Kuning Variety (V2) and the Dena 1 Variety (V3). Then the data obtained will be analyzed using a further test of DMRT level 5%. The results showed that the dosing treatment of organic fertilizer goat manure had a very noticeable influence on the flowering age parameter (29.67 days). While the use of several varieties exerts a very noticeable influence on plant height of 14 hst (22.53 cm), plant height of 42 hst (54.18 cm), number of productive branches (12.00 branches), flowering age (28.56 days), number of pods per plant (104.27 pods), number of seeds per plant (202.40 grains), weight of 100 seeds (25.51 gr) and production per hectare (1946.87 kg). The interaction of the treatment of doses of organic fertilizers of goat manure and the use of several varieties exerts a very noticeable influence on the parameters of the number of pods per plant (108.62 pods), the number of seeds per plant (216.38 grains) and production per hectare (2045.46 kg).*

*Keyword: soybeans, growing and production, doses of organic fertilizers, varieties.*