

RINGKASAN

Penelitian dilakukan di kebun percobaan Jl. P.Naga, Denai Lama Pantai Labu, Kabupaten Deli Serdang, Sumatera Utara. Percobaan ini dilakukan pada areal persawahan. Penelitian ini dibimbing oleh Bapak Ir. OK. Nazaruddin Hisyam, MS sebagai (Ketua) dan Ibu Ir. Noverina Chaniago, M.P. sebagai (Anggota). Penelitian ini bertujuan untuk mengetahui pengujian beberapa jenis pupuk dan waktu aplikasi terhadap pertumbuhan dan produktivitas genotipe padi sikumpay. Rancangan penelitian adalah Rancangan Acak Kelompok (RAK) Faktorial yang terdiri dari dua faktor yaitu faktor Jenis Pupuk (P) terdiri dari 3 taraf yaitu : P1 = Pupuk kandang kotoran kambing, P2 = Pupuk Organik Cair, P3 = Pupuk NPK dan Faktor Waktu Aplikasi (A) terdiri dari 3 taraf yaitu : A1 : 1 MST, A2 : 3 MST, A3 : 5 MST. Parameter yang diamati adalah tinggi tanaman (cm), jumlah anakan, umur berbunga, jumlah malai (tangcai), bobot gabah per plot (kg).

Hasil penelitian menunjukkan bahwa pupuk berpengaruh nyata terhadap tinggi tanaman, jumlah malai dan bobot gabah perplot, tetapi tidak berpengaruh nyata terhadap jumlah anakan dan umur berbunga. Waktu aplikasi pupuk berpengaruh nyata terhadap semua parameter. Interaksi pupuk dan waktu aplikasi berpengaruh nyata terhadap umur berbunga dan jumlah anakan tetapi tidak berpengaruh nyata terhadap tinggi tanaman, jumlah malai dan bobot gabah per plot.

Kata Kunci : Pupuk, Waktu Aplikasi, Padi, Pertumbuhan dan Produksi Tanaman

SUMARRY

This research conducted in the experimental garden Jl. P. Naga, Denai Lama, Labu Beach, Deli Serdang Regency, North Sumatra. This experiment was carried out in rice fields. This research was guided by Mr. Ir. OK. Nazaruddin Hisham, MS as (Chairman) and Ms. Ir. Noverina Chaniago, M.P. as (Member). This study aims to determine the testing of several types of fertilizers and application time on the growth and productivity of the Sikumpay rice genotype. The design carried out was a factorial randomized block design (RAK) which consisted of two factors, namely the Type of Fertilizer (P) factor consisting of 3 levels, namely: P1 = goat manure, P2 = Liquid Organic Fertilizer, P3 = NPK fertilizer Liquid Organic Fertilizer and Application Time Factor (A) consists of 3 levels, namely: A1 : 1 MST, A2 : 3 MST, A3 : 5 MST. Parameters observed were plant height (cm), number of tillers, age of flowering, number of panicles (stalks), weight of grain per plot (kg).

The results showed that fertilizer had a significant effect on the number of tillers, flowering age, panicle number and grain weight per plot, but had no significant effect on plant height. The best fertilizer is obtained from liquid organic fertilizer. The time of fertilizer application had a significant effect on plant height and grain weight per plot, but had no significant effect on the number of tillers, flowering age and number tillers. The interaction of fertilizer and application time had a significant effect on the number of tillers, flowering age and panicle number, but had no significant effect on plant height and grain weight per plot.

Keywords: *Fertilizer, Application Time, Rice, Plant Growth and Production*