PRODUKTIVITAS RUMPUT RAJA *(Pennisetum purpureophoides)* YANG DIPUPUK DENGAN BOKASHI JONGA - JONGA PADA DOSIS YANG BERBEDA

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INTISARI*)

Tujuan dari penelitian ini adalah untuk mengetahui pengaruh pupuk bokashi Jonga-jonga terhadap produktivitas rumput King Grass *(Pennisetum purpureopoides).* Penelitian ini dilaksanakan tanggal 8 September sampai dengan tanggal 7 November 2019 di UPT Teaching Farm Fakultas Agroindustri Universitas Mercu Buana Yogyakarta yang terletak di Gunungbulu, Bandut Lor, Argorejo, Sedayu, Bantul dan dilanjutkan di Laboratorium Nutrisi Fakultas Agroindustri Universitas Mercu Buana Yogyakarta. Penelitian ini dirancang dengan menggunakan Rancangan Acak Lengkap (RAL) pola searah. Penelitian terdiri dari 4 taraf perlakuan dan 3 kali ulangan yang masing-masing adalah P0: kontrol (pupuk urea dosis 200 kg/ha), P1: pupuk bokashi dosis 200 kg urea, P2: pupuk bokashi dosis 300 kg urea, P3: pupuk bokashi dosis 400 kg urea. Variabel yang diukur meliputi jumlah anakan, tinggi tanaman, jumlah daun, diameter batang, produksi berat segar dan produksi berat kering. Data dianalisis menggunakan *Analysis of Variance* (ANOVA), jika ada perbedaan nyata dilanjutkan dengan uji *Duncan's New Multiple Range Test* (DMRT). Berdasarkan analisis variansi diketahui bahwa pupuk bokashi jonga-jonga berpengaruh nyata ($P<0,05$) terhadap jumlah anakan, tinggi tanaman, jumlah daun, diameter batang, produksi berat segar dan produksi berat kering. Berdasarkan hasil uji DMRT diketahui bahwa perlakuan P3 dengan pupuk bokashi jonga-jonga dosis 400 kg urea menunjukkan hasil terbaik dibandingkan dengan perlakuan yang lainnya. Dari hasil penelitian dapat disimpulkan bahwa penambahan pupuk bokashi Jonga-jonga dengan dosis 400 kg urea menghasilkan produktivitas rumput King Grass terbaik.

Kata kunci: *Pennisetum purpureopoides*, produktivitas, pupuk bokashi Jonga-jonga.

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PRODUCTIVITY OF KING GRASS *(Pennisetum purpureophoides)* FERTILIZED WITH BOKASHI JONGA - JONGA IN DIFFERENT DOSAGE

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ABSTRACT*)

The objective of research was to know the effect of giving bokashi compost on the productivity of King Grass *(Pennisetum purpureopoides).* This research was conducted on September 8, until November 7, 2019 at the Teaching Farm Faculty of Agroindustry, Mercu Buana University, Yogyakarta, located in Gunungbulu, Bandut Lor, Argorejo, Sedayu, Bantul and continued at the Nutrition Laboratory of the Faculty of Agroindustry, Mercu Buana University, Yogyakarta. This study was designed using a Completely Randomized Design (CRD) of one way pattern. The study consisted of 4 treatment levels and 3 replications, each of which was P0: control (urea fertilizer 200 kg / ha), P1: bokashi fertilizer dose 200 kg urea, P2: bokashi fertilizer dose 300 kg urea, P3: bokashi fertilizer dose of 400 kg of urea. Variables measured included number of tillers, plant height, number of leaves, stem diameter, production of fresh weight and dry weight production. Data were analyzed using Analysis of Variance (ANOVA), if there were real differences followed by Duncan's New Multiple Range Test (DMRT). Based on the analysis of variance it is known that bokashi jonga-jonga fertilizer has a affeeted ($P < 0.05$) on the number of tillers, plant height, number of leaves, stem diameter, fresh weight production and dry weight production. Based on the DMRT test results it is known that the P3 treatment with bokashi jonga-jonga fertilizer dose of 400 kg urea showed the best results compared to other treatments. From the results of this study concluded that the addition of bokashi jonga-jonga fertilizer with a dose of 400 kg of urea produced the best productivity of King Grass.

Keywords: Pennisetum purpureopoides, productivity, bokashi fertilizer Jonga-jonga

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