

KUALITAS KIMIA RUMPUT RAJA (*Pennisetum purpureoides*)

YANG DIPUPUK DENGAN BOKASHI JONGA - JONGA

PADA DOSIS YANG BERBEDA

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INTISARI*)

Tujuan dari penelitian ini adalah untuk mengetahui kualitas kimia rumput Raja (*Pennisetum purpureoides*) yang di pupuk dengan bokashi jonga-jonga pada dosis yang berbeda. Penelitian ini dilaksanakan tanggal 8 September sampai dengan 20 November 2019 di UPT Teaching Farm Fakultas Agroindustri Universitas Mercu Buana Yogyakarta yang terletak di Gunung Bulu, Bandut Lor, Argorejo, Sedayu Bantul dan dilanjutkan dengan analisis kimia 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 200kg/ha), P1: pupuk bokashi dosis (N) setara 200kg urea/ha, P2: pupuk bokashi dosis (N) setara 300kg urea/ha, P3: pupuk bokashi dosis (N) setara 400kg urea/ha. Variabel yang diamati adalah kadar air, kadar serat kasar, kadar abu, kadar protein kasar, kadar lemak kasar dan bahan ekstrak tanpa nitrogen (BETN). 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 kadar air, kadar abu, protein kasar dan bahan ekstrak tanpa nitrogen (BETN). Sedangkan pada serat kasar dan lemak kasar berpengaruh tidak nyata ($P > 0,05$). Berdasarkan hasil uji DMRT diketahui bahwa perlakuan P2 dan P3 dengan pupuk bokashi jonga-jonga dosis (N) setara 300 dan 400 kg urea menunjukkan hasil terbaik dibandingkan dengan perlakuan lainnya. Dari hasil penelitian dapat disimpulkan bahwa penambahan pupuk bokashi jonga-jonga dengan dosis (N) setara 300 dan 400 kg urea/ha dapat meningkatkan bahan kering dan protein kasar rumput King Grass.

Kata kunci: *Pennisetum purpureoides*, kualitas kimia, pupuk bokashi Jonga-jonga.

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CHEMICAL QUALITY OF KING GRASS (*Pennisetum purpureophoides*)

FERTILIZED WITH BOKASHI JONGA - JONGA

IN DIFFERENT DOSAGE

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ABSTRACT*)

The objective of research was to determine the chemical quality of King Grass (*Pennisetum purpureophoides*) fertilized with bokashi jonga-jonga in different dosage. This research was conducted on September 8, 2019 until November 20, 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 (200 kg / ha urea fertilizer), P1: bokashi fertilizer (N) equivalent to 200 kg urea / ha, P2: bokashi fertilizer dose (N) equal to 300 kg urea / ha, P3: bokashi fertilizer dose (N) equivalent to 400 kg urea / ha. The variables observed were water content, crude fiber content, ash content, crude protein content, crude fat content and extract material without nitrogen (NFE). Data were analyzed using Analysis of Variance (ANOVA), if there is a real difference continued with Duncan's New Multiple Range Test (DMRT). Based on the analysis of variance it is known that the jonga-jonga fertilizer location has a significant effect ($P < 0.05$) on water content, ash content, crude protein and extraction material without nitrogen (NFE). While the crude fiber and crude fat have no significant effect ($P > 0.05$). Based on the DMRT test results it is known that the treatment of P2 and P3 with bokashi fertilizer jonga-jonga doses (N) equivalent to 300 and 400 kg of urea showed the best results compared to other treatments. From the results of the study it can be concluded that the addition of bokashi jonga-jonga fertilizer with doses (N) equivalent to 300 and 400 kg of urea/ha can increase the dry matter and crude protein of King Grass.

Keywords: *Pennisetum purpureopoides*, chemical quality, bokashi Jonga jonga fertilizer

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