

**KADAR DAN PRODUKSI PROTEIN KASAR DAN SERAT KASAR
LIMBAH JAGUNG MANIS (*Zea mays saccharata*) AKIBAT SUBSTITUSI KOMATSUS
PADA PEMUPUKAN N**

*(Production and rate of crude protein and crude fiber of sweet corn by-product (*Zea mays saccharata*) effected by Komatsus substitution on fertilization of N)*

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ABSTRAK

Penelitian ini bertujuan untuk mengkaji kontribusi pupuk Komatsus (Kompos Ampas Teh Urin Sapi) dalam menggantikan pupuk urea terhadap kadar dan produksi protein kasar dan serat kasar (*Zea mays saccharata*). Materi yang digunakan adalah benih jagung manis (*Zea mays saccharata*). Rancangan percobaan menggunakan rancangan acak lengkap dengan lima perlakuan dan empat ulangan. Penerapan perlakuan pemupukan yaitu T1 hanya menggunakan urea, sedangkan T2 (urea 75%, Komatsus 25%), T3 (urea 50%, Komatsus 50%), dan T4 (urea 25%, Komatsus 75%) menggunakan urea dan Komatsus kemudian T5 hanya menggunakan Komatsus. Variabel yang diamati adalah kadar dan produksi protein kasar dan serat kasar jerami dan kelobot jagung manis.

Hasil penelitian menunjukkan pemupukan Komatsus tidak berpengaruh nyata terhadap kadar dan produksi protein kasar dan serat kasar jerami jagung manis. Perlakuan pemupukan Komatsus hanya berpengaruh nyata ($P < 0.05$) terhadap kadar protein kasar dan serat kasar kelobot jagung manis, namun pada produksi protein kasar dan serat kasar tidak berpengaruh nyata. Disimpulkan bahwa substitusi pemupukan Komatsus dari perlakuan T2, T3, T4 dan T5 ternyata mampu menggantikan pupuk urea.

Kata kunci : Komatsus, protein kasar, serat kasar, jerami, kelobot jagung manis.

ABSTRACT

The objective of this experiment was to study Komatsus (Kompos Ampas Teh Starter Urin Sapi) fertilization contribution to replace urea fertilizer at production and rate crude protein and crude fiber sweet corn hay. Corn sweed seed (*Zea may saccharata*) were used as sample in this experiment. The study was arranged in a completely randomized design with five treatment and four repeatation. Applying treatment of fertilization is T1 only using urea, but T2 (urea 75%, Komatsus 25%), T3 (urea 50%, Komatsus 50%), dan T4 (urea 25%, Komatsus 75%) using urea and Komatsus and T5 only using Komatsus. Variable percieved is crude protein and crude fiber production and rate of sweet corn "kelobot" Hay.

Experiment result show fertilization Komatsus not have an effect significanly to crude protein and crude fiber production and rate of sweet corn hay. The treatment of fertilization Komatsus only having an effect to crude protein and crude fiber sweet corn "kelobot". But at crude protein and crude fiber production not having an effect significanly. Conclude that Komatsus fertilization substitution from treatment T2, T3, T4 and T5 coultd replace urea fertilizer actually.

Keywords : Komatsus, crude protein, crude fiber, hay, and "kelobot" of sweet corn.