RESPON PERTUMBUHAN RUMPUT SETARIA (*Setaria spachelata*) YANG DIBERI PUPUK KOTORAN SATWA KUSKUS ASAL PENANGKARAN PADA DEFOLIASI KEDUA

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Abstrak. Penelitian ini bertujuan untuk mengetahui respon pertumbuhan rumput setaria (*Setaria spacelata*) yang diberikan pupuk kotoran satwa kuskus asal penangkaran pada defoliasi kedua. Penelitian dilakukan selama 3 bulan berlokasi di Jl. Flamboyan B.18 Amban Manokwari Papua Barat. Penelitian didesain dengan rancangan acak lengkap (RAL) dengan 3 perlakuan dan 5 ulangan. Perlakuan yang diberikan antara lain: P0= kontrol (tanpa pupuk); P1= Pupuk kotoran satwa kuskus berbasis pakan pisang; dan P2= pupuk kotoran satwa kuskus berbasis pakan avokad. Hasil penelitian menunjukkan bahwa pemberian pupuk kotoran satwa kuskus berbasis pakan pisang dan avokad memberikan pengaruh signifikan terhadap pertumbuhan tinggi tanaman, jumlah daun dan jumlah anakan rumput *Setaria spachelata*. Rataan tinggi tanaman, jumlah daun dan jumlah anakan terbaik dihasilkan pada perlakuan P1 berturut-turut adalah 52,98±2,34 cm, 74,63±18,46 helai daun, dan 16,30±4,97 anakan. Perlakuan pemberian pupuk kotoran satwa kuskus memberikan hasil optimal pada pertumbuhan rumput setaria.

Kata kunci: setaria spachelata, pupuk organik, pertumbuhan

Abstract. This study aims to determine the response to the growth of setaria grass (*Setaria spacelata*) on application cuscus' manure from captivity in the second defoliation. The research was conducted for 3 months, located on Jl. Flamboyant B.18 Amban Manokwari, West Papua. The study was designed with a completely randomized design (CRD) with 3 treatments and 5 replications. The treatments given included: P0 = control (without fertilizer); P1 = cuscus animal manure based on banana feed; and P2 = cuscus animal manure based on avocado feed. The results showed that the application of cuscus' manure fertilizer based on banana and avocado feed had a significant effect on the growth of plant height, number of leaves and number of *Setaria spachelata* tillers. The best average plant height, number of leaves and number of tillers produced in the P1 treatment were 52.98 ± 2.34 cm, 74.63 ± 18.46 leaves, and 16.30 ± 4.97 tillers, respectively. The treatment of cuscus manure gave optimal results on the growth of Setaria grass.

Keywords: *Setaria spachelata*, organic fertilizer, growth