PENGARUH PERBEDAAN JENIS PUPUK TERHADAP PRODUKTIVITAS DAN KOMPOSISI KIMIA TANAMAN *Synedrella nodiflora* L.

Muhammad Humaidi Haris
15/378427/PT/06918

INTISARI

Penelitian ini bertujuan untuk mengetahui efek perbedaan jenis pupuk yang diberikan pada tanaman *Synedrella nodiflora* L terhadap produktivitas dan komposisi kimia tanaman. Penelitian dilakukan di Laboratorium Hijauan Makanan Ternak dan Pastura dan Laboratorium Biokimia dan Nutrisi Fakultas Peternakan Universitas Gadjah Mada. Data yang diperoleh diuji statistik dengan analisis variansi berdasarkan rancangan acak lengkap pola searah dan apabila menunjukan perbedaan dilanjutkan dengan uji beda *Duncan's New Multiple Range Test* (DMRT). Pengaruh dari perbedaan jenis pupuk yang diberikan dengan diamati panjang tanaman setiap 7 hari sekali. Pengukuran produktivitas tanaman dihitung saat panen yaitu pada hari ke–35. Metode yang digunakan untuk mengetahui komposisi kimia tanaman *Synedrella nodiflora* L dengan analisis proksimat. Terdapat 4 perlakuan pada penelitian ini yaitu tanpa pemupukan, penambahan pupuk kandang, penambahan pupuk urea dan penambahan pupuk kandang dan urea. Hasil penelitian menunjukkan bahwa metode perbedaan jenis pupuk yang diberikan tidak berpengaruh nyata terhadap komposisi kimia dan berpengaruh terhadap produktivitas tanaman *Synedrella nodiflora* L.

(Kata kunci : komposisi kimia, pemupukan, produktivitas, *Synedrella nodiflora* L)

The Effect of Different Types of Fertilizer on the Productivity and the Chemical Composition of the Plant *Synedrella nodiflora L.*

Muhammad Humaidi Haris
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ABSTRACT

This research aimed to determine the effect of different types of fertilizers given to the plant *Synedrella nodiflora* L on its productivity and chemical composition. The research was conducted in Forage and Pasture Science Laboratory and Nutritional Biochemistry Laboratory Fakultas Peternakan Universitas Gadjah Mada. The collected data were statistically examined by the variance analysis based on completely randomized design with a unidirectional pattern. If there are any differences found, the data will be examined further with comparative experiment *Duncan's New Multiple Range Test* (DMRT). The effects from different types of fertilizer given to the plant were observed through the plant's growth once every 7 days. The measurement of plant's productivity was done at harvest time, which is on the 35^{th} day. The method used to learn the chemical composition of the plant *Synedrella nodiflora* L is proximate analysis. There are 4 treatments in this research: without fertilizer, with compost, with urea fertilizer, and with both compost and urea fertilizer. The result of the research shows that the different fertilizer type methods did not significantly affect the chemical composition and productivity of *Synedrella nodiflora* L.

(Keywords: chemical composition, fertilizer application, productivity, *Synedrella nodiflora* L)