

ABSTRAK

PENGARUH KOMBINASI TAKARAN PUPUK CAIR KULIT PISANG SIEM (*Musa paradisiaca* var. *Formatypica*) DAN PUPUK NPK TERHADAP PERTUMBUHAN DAN HASIL TANAMAN BAYAM MERAH (*Amaranthus tricolor* L.) VARIETAS MIRA

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Bayam merah (*Amaranthus tricolor* L.) merupakan salah satu jenis varietas tanaman bayam yang mempunyai ciri khusus tanamannya berwarna merah.. Upaya peningkatan produktivitas tanaman bayam merah dapat melalui pemberian pupuk yang mengandung unsur hara makro dan mikro, salah satunya dapat dilakukan dengan pemberian kombinasi takaran pupuk cair kulit pisang siem (*Musa paradisiaca* var. *Formatypica*) dan pupuk NPK. Penelitian ini bertujuan untuk mengetahui pengaruh kombinasi takaran pupuk cair kulit pisang siem (*Musa paradisiaca* var. *Formatypica*) dan pupuk NPK terhadap pertumbuhan dan hasil tanaman bayam merah (*Amaranthus tricolor* L.) varietas Mira. Penelitian ini dilakukan di Kebun Percobaan Fakultas Pertanian, Universitas Siliwangi, Kota Tasikmalaya pada bulan April sampai Mei 2021. Penelitian menggunakan Rancangan Acak Kelompok (RAK) sederhana yang terdiri dari 7 perlakuan kombinasi dan diulang sebanyak 4 kali sehingga terdapat 28 petak. Perlakuan terdiri dari kombinasi takaran : p0 (perlakuan kontrol), p1 (takaran pupuk cair kulit pisang siem 10 ml/tanaman dan pupuk NPK 75 kg/ha), p2 (takaran pupuk cair kulit pisang siem 10 ml/tanaman dan pupuk NPK 100 kg/ha), p3 (takaran pupuk cair kulit pisang siem 20 ml/tanaman dan pupuk NPK 75 kg/ha), p4 (takaran pupuk cair kulit pisang siem 20 ml/tanaman dan pupuk NPK 100 kg/ha), p5 (takaran pupuk cair kulit pisang siem 30 ml/tanaman dan pupuk NPK 75 kg/ha), dan p6 (takaran pupuk cair kulit pisang siem 30 ml/tanaman dan pupuk NPK 100 kg/ha). Data hasil penelitian diuji dengan sidik ragam kemudian diuji lanjut dengan Uji Jarak Berganda Duncan pada taraf nyata 5%. Hasil penelitian menunjukkan bahwa pemberian kombinasi takaran pupuk cair kulit pisang siem (*Musa paradisiaca* var. *Formatypica*) dan pupuk NPK tidak berpengaruh nyata terhadap pertumbuhan dan hasil tanaman bayam merah (*Amaranthus tricolor* L.) varietas Mira.

Kata kunci: bayam merah, pupuk cair kulit pisang siem, pupuk NPK

ABSTRACT

THE EFFECT OF THE COMBINATION OF LIQUID FERTILIZER FROM SIEM BANANA PEEL (*Musa paradisiaca* var. Formatypica) AND *N-P-K* FERTILIZER ON THE GROWTH AND YIELD OF RED SPINACH (*Amaranthus tricolor* L.) MIRA VARIETY

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Red spinach (*Amaranthus tricolor* L.) is a type of spinach plant variety which has the special characteristic of being red in color. Efforts to increase the productivity of red spinach plants can be done by providing fertilizer containing macro and micro nutrients, one of which can be done by giving a combination of doses liquid fertilizer from Siem banana peel (*Musa paradisiaca* var. Formatypica) and *N-P-K* fertilizer. This research aims to determine the effect of a combination of liquid fertilizer from Siem banana peel (*Musa paradisiaca* var. Formatypica) and *N-P-K* fertilizer on the growth and yield of red spinach (*Amaranthus tricolor* L.) Mira variety. This research was conducted at the Experimental Garden of the Faculty of Agriculture, Siliwangi University, Tasikmalaya City from April to May 2021. The research used a simple Randomized Block Design (RBD) consisting of 7 combinations and repeated 4 times so that there were 28 plots. The treatment consisted of a combination of doses: p0 (control treatment), p1 (measure of liquid fertilizer from Siem banana peel 10 ml/plant and *N-P-K* fertilizer 75 kg/ha), p2 (measure of liquid fertilizer from Siem banana peel 10 ml/plant and *N-P-K* fertilizer 100 kg /ha), p3 (measure of liquid fertilizer from Siem banana peel 20 ml/plant and *N-P-K* fertilizer 75 kg/ha), p4 (measure of liquid fertilizer from Siem banana peel 20 ml/plant and *N-P-K* fertilizer 100 kg/ha), p5 (measure of liquid fertilizer from Siem banana peel 30 ml/plant and *N-P-K* fertilizer 75 kg/ha), and p6 (measure of liquid fertilizer from Siem banana peel fertilizer 30 ml/plant and *N-P-K* fertilizer 100 kg/ha). The research data were tested using variance and then further tested using Duncan's Multiple Distance Test at a significance level of 5%. The results of the research showed that the combination of liquid fertilizer from Siem banana peel (*Musa paradisiaca* var. Formatypica) and *N-P-K* fertilizer had no significant effect on the growth and yield of red spinach (*Amaranthus tricolor* L.) Mira variety.

Key words: *N-P-K* fertilizer, red spinach, siem banana peel liquid fertilizer