

ABSTRAK

PENGARUH PEMBERIAN KONSENTRASI PUPUK ORGANIK CAIR DAUN LAMTORO (*Leucaena leucocephala*) TERHADAP PERTUMBUHAN DAN PRODUKTIVITAS TANAMAN SAWI CAISIM (*Brassica juncea* L.)

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Di antara sayuran daun, caisim (*Brassica juncea* L.) merupakan komoditas yang memiliki nilai komersial dan digemari masyarakat Indonesia. Saat ini, kebutuhan akan sayuran caisim semakin lama semakin meningkat seiring dengan pertambahan populasi manusia dan manfaat mengkonsumsi bagi kesehatan. Untuk meningkatkan produktivitas tanaman sawi caisim diperlukan pupuk organik yang sifatnya ramah lingkungan yaitu ekstrak daun lamtoro. Penelitian ini bertujuan untuk mengetahui pengaruh perbedaan konsentrasi pupuk cair daun lamtoro terhadap pertumbuhan dan produktivitas tanaman sawi caisim serta mengetahui konsentrasi yang paling efektif dalam meningkatkan pertumbuhan dan produktivitas tanaman sawi caisim.

Jenis penelitian yang dilakukan adalah penelitian eksperimen dengan Rancangan Acak Lengkap (RAL) satu faktor yaitu konsentrasi pupuk cair daun lamtoro dengan 4 konsentrasi yang berbeda yaitu 0%, 10%, 20% dan 30%. Parameter yang diamati adalah jumlah daun, berat basah dan berat kering tanaman. Data hasil pengamatan dianalisa dengan uji Anova.

Hasil penelitian menunjukkan bahwa konsentrasi pupuk cair daun lamtoro yang berbeda berpengaruh terhadap jumlah daun, berat basah dan berat kering tanaman sawi caisim. Konsentrasi pupuk cair daun lamtoro yang paling efektif dalam meningkatkan jumlah daun, berat basah dan berat kering tanaman sawi caisim adalah konsentrasi 10%.

Kata kunci: tanaman sawi caisim, pupuk organik cair daun lamtoro, pertumbuhan, produktivitas.

ABSTRACT

THE INFLUENCE OF GIVING LIQUID ORGANIC FERTILIZER
CONCENTRATION OF LAMTORO LEAF (*Leucaena leucocephala*) TOWARD
THE GROWTH AND PRODUCTIVITY OF CAISIM MUSTARD PLANT
(*Brassica juncea* L.)

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Among leafy vegetables, *caisim* (*Brassica juncea* L.) is a commodity that has commercial value and has been delighted by the Indonesian society. Nowadays, the demand for *caisim* vegetables progressively increase of human population and benefits of consuming them for health. To increase the productivity of *caisim* mustard plant necessary organic fertilizers that are environmentally friendly, such as *lamtoro* leaf extract. This research aims to determine the effect of different concentrations of *lamtoro* leaf extract on the growth and productivity of *caisim* mustard plant and to determine the most effective concentration on the increase of growth and productivity of *caisim* mustard plant.

The type of this research is experimental research with Completely Randomized Design (CRD) one factor, which is the concentration of liquid fertilizer of *lamtoro* leaves with four different concentrations, namely 0%, 10%, 20%, and 30%. The observed parameters are the number of leaves, wet weight, and dry weight of plants. The observation data are analyzed by ANOVA.

The research result shows that the concentration of liquid fertilizer of different *lamtoro* leaves affects the number of leaves, wet weight, and dry weight of mustard *caisim* plant. The most effective concentration of liquid fertilizer of *lamtoro* leaves in increasing the number of leaves, wet weight, and dry weight of *caisim* mustard plant is the concentration of 10%.

Keywords: *caisim* mustard plant, liquid organic fertilizer of *lamtoro* leaves, growth, productivity.