

ABSTRAK**PENGARUH PEMBERIAN PUPUK CAIR DAUN GAMAL (*Gliricidia sepium*) TERHADAP PERTUMBUHAN TANAMAN SAWI CAISIM (*Brassica juncea* L.)****Reginaldis Isabella Sado****Universitas Sanata Dharma****2016**

Penggunaan bahan organik sebagai pupuk merupakan salah satu alternatif untuk mengatasi penggunaan pupuk kimia dan usaha untuk meningkatkan unsur hara. Salah satu bahan organik yang dapat digunakan sebagai pupuk adalah daun gamal. Penelitian ini dilakukan untuk mengetahui pengaruh konsentrasi pupuk cair daun gamal terhadap pertumbuhan tanaman sawi caisim (*Brassica juncea* L.) serta mengetahui konsentrasi yang memberikan hasil terbaik terhadap pertumbuhan tanaman sawi caisim (*Brassica juncea* L.).

Penelitian ini dilaksanakan di kebun Pendidikan Biologi Universitas Sanata Dharma, pada tanggal 10 Mei -13 Juni 2016. Penelitian ini menggunakan metode Rancangan Acak Lengkap (RAL), dengan 3 pemberian perlakuan dan kontrol. Perlakuan dibedakan dengan pemberian pupuk cair daun gamal dengan konsentrasi yang berbeda yaitu konsentrasi 10% (A), 20% (B), 30% (C). parameter yang diamati adalah jumlah daun (helai), berat basah (gram), berat kering (gram), luas daun (cm²). Data yang diperoleh dianalisis dengan ANOVA taraf signifikan 0.05 dan dilanjutkan dengan uji Duncan taraf signifikan 0.05.

Hasil penelitian menunjukkan bahwa penggunaan pupuk cair daun gamal memberikan pengaruh nyata terhadap pertumbuhan tanaman sawi caisim (*Brassica juncea* L.). Pengaruh paling baik ditunjukkan pada tanaman sawi caisim yang diberikan pupuk cair daun gamal konsentrasi 30% yang memberikan pengaruh positif baik pada jumlah daun, berat basah, berat kering dan luas daun.

Kata kunci : Pupuk cair daun gamal, pertumbuhan, (*Brassica juncea* L.).

ABSTRACT***THE INFLUENCE OF LIQUID FERTILIZER MADE FROM GAMAL LEAVES (*Gliricidia sepium*) TOWARDS THE GROWTH OF MUSTARD GREEN (*Brassica juncea* L.)*****Reginaldis Isabella Sado*****Sanata Dharma University*****2016**

*The use of organic materials as fertilizer is one of alternative ways to avoid the use of chemical fertilizer and an effort to increase soil's nutrient elements. One of the organic materials which can be used as fertilizer is gamal leaves. This research was done to know the effect of gamal leaves liquid fertilizer towards the growth of green mustard (*Brassica juncea* L.) and also to know which concentration that gives the best outcome of the green mustard (*Brassica juncea* L.) growth.*

This research was hold in the garden of Biology Education Study Program of Sanata Dharma University, on May 10 until June 13, 2016. The research used Completely Randomized Design, with 3 treatments and controls. The treatments are differed by the different concentration levels of gamal leaves liquid fertilizer given to green mustard, namely 10% of concentration (A), 20% of concentration (B), 30% of concentration (C). The parameters used in this research are the numbers of leaves (sheets), the total weight of plants before placed in an oven (gram), total weight of plants after placed in an oven (gram), and the leaves width (cm²). The collected data was analyzed by using ANOVA with significance level 0.05 and then continued with Duncan test with significance level 0.05.

*The result of this research showed that the use of gamal leaves liquid fertilizer gave real effect towards the growth of green mustard (*Brassica juncea* L.). The best effect was shown on the green mustard which had been given gamal leaves liquid fertilizer with 30% concentration. The effect was positively good for numbers of leaves (sheets), the total weight of plants before placed in an oven (gram), total weight of plants after placed in an oven (gram), and the leaves width (cm²).*

Keywords: gamal leaves liquid fertilizer, growth, (*Brassica juncea* L.).