

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh konsentrasi dan frekuensi pupuk organik cair terhadap pertumbuhan dan hasil tanaman wijen (*Sesamum Indicum L.*). Penelitian ini dilaksanakan di Desa Gili Barat Kecamatan Kamal Kabupaten Bangkalan. Waktu penelitian dilakukan pada bulan Januari - April 2014. Penelitian disusun secara non faktorial dengan menggunakan Rancangan Acak Kelompok. Perlakuan terdiri atas W1 (7 cc/7 hari), W2 (7cc/14 hari), W3 (7 cc/21 hari) W4 (8 cc/7 hari) W5 (8 cc/14 hari), W6 (8 cc/21 hari), W7 (9 cc/7 hari), W8 (9 cc/14 hari), W9 (9 cc/21 Hari). Hasil penelitian menunjukkan bahwa perlakuan konsentrasi dan frekuensi pemupukan pupuk organik cair berpengaruh nyata terhadap variabel tinggi tanaman, jumlah daun, jumlah polong, bobot basah polong, bobot kering biji, namun tidak berpengaruh nyata terhadap jumlah stomata, kerapatan stomata dan umur berbunga. Perlakuan konsentrasi pupuk 8 cc/14 hari hasil tertinggi pada variabel pengamatan tinggi tanaman, jumlah daun, jumlah polong, berat polong saat panen, dan berat kering biji.

Kata Kunci : *Sesamum indicum L.*, Konsentrasi pupuk dan Frekuensi, pupuk organik cair.

ABSTRACT

This research aims to determine the effect of concentration and frequency of liquid organic fertilizer on the growth and yield of sesame (*Sesamum Indicum* L.) in the village. This research located in Gili Barat District of Kamal Regency Bangkalan. research conducted in January-April 2014 as a non-drafted Research using a factorial randomized block design consisting of W1 treatment (7cc / with 7 interval days), W2 (7cc / with 14 interval days), W3 (7 cc / with 21 interval days) W4 (8 cc/ with 7 interval days) W5 (8 cc/ 14 interval days), W6 (8 cc / with 21 interval days), W7 (9 cc/ with 7 interval), W8 (9 cc / with 14 interval days), W9 (9 cc / with 21 interval). The results showed that the concentration and frequency of fertilization treatment liquid organic fertilizer significantly affect the variables of plant height, number of leaves, pods, pod fresh weight, dry weight of seeds, but did not significantly affect the number of stomata, stomatal density and flowering. Treatment concentrations of fertilizer 8 cc / highest yield at 14 days of observation variables plant height, number of leaves, pods, pod weight at harvest, and seed dry weight

Keywords: *Sesamum indicum* L., concentration and frequency of fertilizer, liquid organic fertilizer.