

ABSTRACT

THE EFFECT OF TYPES OF ORGANIC FERTILIZERS ON THE GROWTH AND PRODUCTION OF TWO GLADIOLUS CULTIVARS (*Gladiolus hybridus* L.)

By

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This study aimed to determine the effect : (1) determine the type of organic fertilizer that produces best growth and production of gladiolus, (2) determine gladiolus cultivars who has the best response on growth and production, (3) determine the effect of types of fertilizer on growth and production of each gladiolus cultivars.

This research was conducted in Gunung Terang village, Kedaton region Bandar Lampung from April to October 2010. Treatments were factorially (2x4) arranged in a completely randomized block design (RKTS) were three replicates. The first factor was gladiolus cultivars ('Kaifa' and 'Clara') and the second factor was types of organic fertilizers (without organic fertilizer, 'Herbafrn', 'Hantu', 'Nongfeng'). Grouping based on the weight of tuber.

This research showed that : (1) The third type of fertilizer could increased height of plant, leaf number, floret number, and brangkasan weigth but did not show significant effect on production of flowers and corms. (2). 'Kaifa' cultivars

resulted in the best response in plant height growth, corm weight, and brangkasan weight than 'Clara' cultivars, (3) Effect types of organic fertilizer for growth and production of gladiolus depended on cultivar, especially at variable number of floret. 'Kaifa' cultivars with or without the application of organic fertilizer was produced the number of floret as much as 9.78 to 11.33 while 'Clara' cultivars with organic fertilizer was produced the number of floret a little much 8,44 to 9,39 floret, comparism without organic fertilizer produce the number of floret as much as 10,83 floret.