

ABSTRACT

THE EFFECT OF CORM'S FISSION ABOUT GROWTH AND PRODUCTION OF FLOWER AND CORM IN TWO CULTIVAR OF GLADIOL (*Gladiolus hibridus* L.)

By

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Gladiol is the one of fancy flower that already known in Indonesia and very popular and liked by people. Gladiol (*Gladiolus hybridus* L.) is the wan of ornamental plant that produce a potencial fancy flower to develop commercially because it has interesting appearance of flower also interesting colour. The main obstacle on developing of gladiol is to number of plant also the low production. Fission of corm is the one of way to break the domination of apical tip and sate the seed's heeded.

The purpose of the research are: (1) knowing effect of corm's fission about growth and production of gladiol, (2) knowing the differences between growth and production on two cultivar of gladiol, (3) knowing whether each cultivar has a different respons about corm's fission. The research was held in Gunung Terang district, Bandar Lampung started from December 2011 – April 2012.

This research did with used Group Random Design (Rancangan Acak Kelompok) with treatment that arranged factorially 2 x 2 with four times repeation. The first factor was gladiol's cultivar named Holland Putih and Holland Pink. The second factor was corm's fission, fission corm and pure corm. The unit of research was grouped based on tuber's weigh. The kind of Homogeneity tested with Bartlett tes, data's Aditivition tested with Tukey and data analyze did with manner analyze that continued with BNT on level 5 %.

The result of research showed that : (1) treatment of pure corm produced floret as much as 11,98 bud (26,77 %); the weight of corm 26,42 g (26,42 %); the number of cormel 18,65 (56,94 %); weight of cormel 7,01 g (64,76 %) and dry weight off berangkasan 10,59 g (34,47 %) higher that treatment of fission corm, (2) Holland Putih's cultivar had the number of floret 12,62 bud (30,19 %); diametre of floret 10,05 cm (25 %); lenght of stalk 73,35 cm (30,03 %); diametre of corm 4,43 cm (23,79 %); the number of cormel 18,65 (86,27 %) and the weight of cormel 7,01g (53,53 %) highter than Holland Pink's kultivar, (3) Holland Putih with pure corm

produced the number of cormel and weight of cormel higher than fission corm with each of that 56,94 % and 64,76 % while on Holland Pink's cultivar, there were no differences between number of cormel and weight of cormel between pure corm and fission corm.

Key words : gladiol, corm, cultivar, fission