Pengaruh Proporsi Bunga Jantan Pada Saat Polinasi Dan Tingkat Kemasakan Fisiologis Buah Terhadap Mutu Benih Tanaman Okra *(Abelmoschus Esculentus* L*)* Kode 1012. *The Effect of Proportion of Male Flowers at the Time of Pollination and Physiological Maturity Level of Fruit on Seed Quality of Okra (Abelmoschus Esculentus L) Code 1012*. *Supervisor* Dr. Ir. Rahmat Ali Shaban. M.Si *and* Lukman Hakim. S.ST

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ABSTRACT

Okra (Abelmoschus esculentus L.) is a type of functional vegetable that belongs to the Malvaceae family which is in great demand by the public as a consumption ingredient. However, the current okra production still tends to fluctuate and has not been able to meet the national demand for okra vegetables. The production of okra in Indonesia has not been achieved due to the limited availability of okra seeds. This study aimed to determine the effect of the proportion of male flowers at the time of pollination and the physiological maturity level of the fruit on the quality of okraseeds (Abelmoschus esculentus L.). This research was conducted from October 2020 to January 2021 at the seed production area of PT. Asian Image Seed. This study used a factorial randomized block design (RAK) repeated 3 times. The first factor is the proportion of male flowers (P) with 4 levels P1 = 1:4 (1 male flower 4 female flowers), P2 = 1:6 (1 male flower 6 female flowers), P3 = 1:8 (1 male flower 8 female flowers), P4 = 1:10 (1 male flower 10 female flowers) the second factor is the level of fruit ripeness (W) with 3 levels W1 = 50%, W2 = 75%, W3 = 100%. The data were analyzed using the F test (ANOVA) and continued with the DMRT test with an error rate of 5%. The results showed that the proportion of male flowers (P2) = 1:6 (1 male flower 6 female flowers) gave a significantly different effect on the observation parameter of the number of seeds per fruit (56.22 seeds). The 75% (W2) fruit maturity level treatment gave significantly different results on the parameters of the number of pithy seeds per fruit (46.33 seeds), weight of 1000 grains (59.98 grams), and germination (84.92%).

***Key words**: Okra, Proportion of Male Flowers, Fruit Ripening Level*