

**Kariz Ananta Graha. The growth of stem cuttings of red dragon fruit (*Hylocereus polyrhizus* (Web.) Britt. Et R) and white dragon fruit (*Hylocereus undatus* (Haw.) Britt. Et R) on some immersion coconut water's dilution. Under the guidance of Abdul Rizal AZ dan Maryana.**

### **ABSTRACT**

Dragon fruit development opportunities is wide open. It can be seen from the frequent inventory vacancies dragon fruit at the supermarket and the supermarket, which is caused by the dragon fruit development area in Indonesia is still limited so as not to meet the dragon fruit production in the country. Limitations of the dragon fruit development area due to the unavailability of sufficient quantities of seed. One effort to accelerate the propagation of dragon fruit seedlings are cuttings.

The purpose of this study was to determine the dilution of the best coconut water soaking on the growth of red dragon fruit cuttings and white dragon fruit. The study is a field experiment using a polybag with a split plot design treatment. The main plot, is a type of dragon fruit with 2 level: S1 = red dragon fruit cuttings, S2 = white dragon fruit cuttings. Subplots, is coconut water dilution with 5 level: KO = Cuttings untreated water immersion oil, K1 = 150 ml/l, K2 = 250 ml/l, K3 = 350 ml/l, K4 = 450 ml/l. The parameters observed were percentage of cuttings of life, the emergence of shoots, number of shoots, shoot length, root length, root volume, root dry weight and shoot dry weight. Data were analyzed observations diversity at the level  $\alpha = 5\%$ . Diversity indicates significant difference tested further with Multiple Test Distance Duncan or Duncan's Multiple Range Test (DMRT) at level  $\alpha = 5\%$ . To determine the relationship between the dilution of coconut milk with growth parameters in each type of dragon fruit, regression and correlation analysis using STAT version 2.7 application.

The results showed that coconut water's dilution 450 ml/l and 350 ml/l give better effect to the growth of dragon fruit cuttings at the time of the emergence of shoots, shoot length aged 8 weeks after planting to 11 weeks after planting, root's length, root's volume and dry weight of shoots other than dilution.

**Keywords :** Dragon fruit red and White dragon fruit, Cuttings, Coconut water.