

Aplikasi Berbagai Jenis Mulsa Dan Pemangkasan Cabang Bawah Terhadap Hasil Dan Mutu Benih Paria (*Momordica charantia* L.) (*Application of Various Types of Mulch and Pruning of Lower Branches on Yield and Quality Seed of Paria (*Momordica charantia* L.)*) Supervisor: Ir. Sri Rahayu, MP. and Oktavianus Wawan D. S., SP.

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ABSTRACT

*Paria plants (*Momordica charantia* L.) are included in fruit vegetable plants that tend to taste bitter, but the vegetables are liked by the community. In order to increase the production of pariah seeds, it is necessary to improve the quality of the seeds produced through plant breeding and the use of appropriate cultivation systems. This study aims to determine the effect of the application of various types of mulch and branch pruning on the yield and quality of pariah seeds. This research was conducted in October 2020 – February 2021 at the Research and Development area of PT. Wira Agro Nusantara Sejahtera Pare, Kediri. The experimental design used was factorial RCBD (Randomized Complete Block Design) with 2 treatment factors and 3 replications. The first factor is the application of 3 levels of mulch, namely no mulch, straw mulch and plastic mulch. While the second factor pruning the lower branches of 3 levels, namely the first 1-3 branches, 1-5 branches, 1-7 branches. The data obtained were tested using the F test (ANOVA) and continued with the DMRT test with an error rate of 5%. The results showed that the interaction of treatment using various types of mulch and pruning of lower branches had an effect on several observation parameters. The use of plastic mulch and pruning of 5 lower branches gave the best results on the parameters of fruit diameter of 5.34 cm, fruit weight per plant 2617.17 grams, number of seeds per fruit of 26.07 grains, number of seeds per sample 192.67 grams and production seeds per hectare 9.06 Kw/ha.*

Key words: *Paria, Types of mulch, Pruning branches, yield and quality of seeds.*