

**PENGARUH PENAMBAHAN PUPUK BORON PADA TANAMAN
JANTAN DAN PEMBATASAN JUMLAH BUAH TERHADAP
PRODUKSI DAN MUTU BENIH PARIA**

(*Momordica charantia* L.)

*(The Effect of Boron Fertilizer Application on Male Plants and Fruit Restriction
on the Production and Quality of Bitter Melon Seeds (*Momordica charantia* L.))*
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ABSTRACT

*Bitter melon (*Momordica charantia* L.) is a type of vegetable plant known to have a bitter taste, especially in the fruit. The bitter flavour is produced by the glycoside compounds contained therein, which have various uses, including as a component in traditional herbal medicine. This study aimed to assess the impact of boron fertiliser application on male plants and fruit set on pariah (*Momordica charantia* L.) seed yield and quality. The research was conducted from July to October 2024 in a farm area located on Jalan Tidar Plindu, Kloncing, Karangrejo, Summersari, Jember, East Java. The research method used a Factorial Randomised Group Design with 2 treatment variables and each replicated 3 times. The first variable was boron fertiliser application (B) with three dosage levels: 0.5 kg/ha (B1), 1 kg/ha (B2), and 1.5 kg/ha (B3). The second variable is controlling the number of fruits on each plant (J) with three variations: 5 fruits (J1), 6 fruits (J2), and 7 fruits per plant (J3). The research data were then processed through ANOVA (Analysis of Variance) analysis, then further testing was carried out with the DMRT method at the 1% and 5% significance levels. The interaction between boron fertilizer application of 0.5 kg/ha and fruit number restriction of 6 fruits per plant (B1J2) showed the best effect on the 1000 seed weight parameter, which was 206,89 grams.*

Keywords: Bitter Melon, Boron Fertilizer, Fruit Restriction