

**The Effect of Cow Manure and Zeolite Dosage on the Production of Corn
(Zea mays L.) Burdek Varieties**

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ABSTRACT

The study was conducted to determine **the effect of the application of cow manure and Zeolite dosage on the production of corn (Zea mays L.) varieties of Burdek**. This research was conducted in Klampokan Village, Panji District, Situbondo Regency, East Java Province. The execution time starts in November 2018 - January 2019. The research method uses factorial Randomized Block Design (RBD) 2. The first factor was giving cow manure (P) with 3 levels: without giving cow manure (P0), giving cow manure 10 tons / ha (P1), giving cow manure 20 tons / ha (P2). The second factor was zeolite (Z) with 4 levels: without zeolite (P0), zeolite 5 tons / ha (P1), zeolite 10 tons / ha (P2), zeolite 20 tons / ha (P3). The results showed that cow manure did not affect plant height and number of leaves while zeolite 10 tons / ha had a significant effect on the height of corn plants aged 35 HST and had no significant effect on the number of leaves. The administration of cow manure of 20 tons / ha and zeolite of 10 tons / ha significantly affected the production of corn on wet cob weight, ear diameter, and dry shell weight, but did not significantly affect the length of the cob. There is no interaction between the application of cow manure and Zeolite dosage on corn production.

Keywords: Corn (Zea mays L.) Burdek variety, Cow manure, Zeolite.