

**THE EFFECT OF GIVING VARIOUS KINDS OF FERTILIZER ON
GROWTH AND RESULTS
PAKCOY PLANT (*Brassica rapa* L.)**

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ABSTRACT

Pakcoy (*Brassica rapa* L.) is one of the horticultural crops that contain nutrients and has commercial value. To increase agricultural production, it is necessary to handle and select the best type of fertilizer. This study aims to determine the best fertilizer effect on the growth and yield of pakcoy plants. The research was carried out from May to June 2023 at the Practical Garden of the Faculty of Agriculture, Yogyakarta "Veteran" National Development University. This study used an environmental experiment method in a green house using a one-factor Completely Randomized Design (CRD), namely the application of various fertilizers consisting of 7 levels, namely Urea Fertilizer 150 kg/ha, POC Rabbit Urine, P3 POC Rabbit Urine + $\frac{3}{4}$ Urea, P4 POC Rabbit Urine + $\frac{1}{2}$ Urea, POC Cow Urine, P6 POC Cow Urine + $\frac{3}{4}$ Urea, P7 POC Cow Urine + $\frac{1}{2}$ Urea. The data were analyzed using the Analysis of Variance (ANOVA) at the 5% level and continued with the Duncan's Multiple Range Test (DMRT) at the 5% level. The results showed that the treatment of POC rabbit urine + $\frac{3}{4}$ urea, POC cow urine and POC cow urine + $\frac{3}{4}$ urea was able to increase plant height growth at the age of 2 WAP, 3 MST, 4 WAP and 5 MST. Then the POC treatment of cow urine was also able to increase root volume

Keywords: Mustard Greens, Liquid Organic Fertilizer, NPK Fertilizer