

EFFECTIVENESS OF CONCENTRATION AND TIME INTERVAL OF POC MORINGA LEAF (*Moringa oleifera*) ON THE PRODUCTION OF PEANUT PLANT (*Arachis hypogaea* L.)

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ABSTRACT

The addition of nutrients is needed to spur plants to grow optimally, given the availability of nutrients in the soil is not necessarily in meeting the needs of cultivated plants. Therefore, it is necessary to add fertilizer with environmentally friendly materials so as not to cause pollution to cultivated land and the surrounding environment. This study aims to determine the interaction between the treatment concentration and the time interval of moringa leaf POC administration on the growth and yield of corn. This study began in April-July 2022 on cultivated land located in Bintoro Village, Patrang District, Jember regency, East Java province. This study used a randomized block factorial (RAKF) design, consisting of five levels of moringa leaf POC concentration (0%; 5%; 10%; 15%; and 20%) and three levels of time intervals (once a week; once every two weeks; and three weeks) with three repetitions. The parameters in this study include plant height, number of pods per plant, wet weight of pods per plant, dry weight of pods per plant, dry weight of seeds per plant, dry weight of seeds per plot, and fresh weight. As for the data analysis using ANOVA, if it shows a real different notation then DMRT further test. The interaction between the treatment concentration of 10% and the time interval of administration once a week contained in the parameters of wet weight of pods per plant of 41.58 grams; interaction of 5% concentration treatment and biweekly interval on dry weight parameter of pod per plant was 33,08 gram; and interaction of 5% concentration treatment and biweekly interval on fresh weight parameter was 163,75 gram.

Keyword : Concentrations, Liquid Organic Fertilizer, Moringa Leaves, Peanut, Time of Interval