Pengaruh Waktu Pemangkasan Pucuk Pada Masa Vegetatif Dan Dosis Pupuk NPK 16-16-16 Terhadap Produksi Benih Tanaman Kenikir (Cosmos sulphureus). Bima Oktasa Dwi Wardana, A41192423, Year 2023, Agricultural Production, Jember State Polytechnic, Maria 'Azizah, SP., Msi (Supervisor), M. Rosyadi Adnan, S.Sc., MSc. (Member of Examiners), Dr. Ir N. Bambang Eko S., Msi (Chief Examiner)

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ABSTRACT

Kenikir (Cosmos sulphureus) is a plant that has long existed in the Southeast Asian region, especially in Indonesia, spread from the Spaniards who introduced it to the Philippines. Kenikir plants have very easy growing conditions in the Indonesian climate. The development of kenikir plants was carried out recently due to competition between traditional (indigenous) vegetables and commercial vegetables which are often consumed in markets, so their existence needs to be preserved. the effect of anti-cancer, anti-inflammatory stomach, and increase appetite; as natural dyes, edible flowers, ornamental plants, and as weed and pest control. From these benefits the kenikir plant is known as a multipurpose plant, but in its development the marigold plant still has obstacles in the form of insufficient seed requirements, and technical guidelines for producing seeds are minimal, so innovation is needed to meet these seed needs. Treatment of pruning and applying fertilizer in the form of doses of NPK 16-16-16 is a solution that can be offered, because it is expected to have a correlation that affects seed production and seed quality. The results showed that pruning time had a highly significant effect on the number of branches parameter at 5 WAP treatment level, and the dose of npk 16-16-16 had a highly significant different effect on the parameter number of fertilized flowers at a dose of 15 grams, and had a significantly different effect on number of branches with a dose of 20 grams.

Keywords : *kenikir, pruning time, npk fertilizer dosage, seed production*