

Peningkatan Produksi Baby Buncis (*Phaseolus vulgaris* L.) dengan Pengaturan Jarak Tanam dan Waktu Pemberian Pupuk Susulan NPK Mutiara. *Increaselement of Bean Baby Yield (Phaseolus vulgaris L.) With Plant Spacing and Time Application of NPK Mutiara Fertilizer. Advisor: Ir. Tri Rini Kusparwanti, MP. and Ir. Damanhuri, MP.*

Siti Robiatul Adawiyah
Program Studi Teknologi Produksi Tanaman Pangan
Jurusan Produksi Pertanian

ABSTRACT

*The aim of this research is to know the yield increaselement of bean baby (*Phaseolus vulgaris* L) with plant spacing and time application of NPK Mutiara fertilizer. This research was conducted at Jember State Polytechnic Practical Area with altitude \pm 89 m asl in November 2014 until February 2015. This research used Randomized Block Design (RBD) with 3 repetition. The first factor is plant spacing consist of R1=20 cm x30 cm, R2=20 cmx40cm, R3=20cmx50cm. The second factor is time application of NPK Mutiara fertilizer consists of B1= 15, 25, 35 DAP (Day After Planting), B2=20, 30, 40 DAP, B3=25, 35, 45 DAP. The result of this research shows that plant spacing has significant effect to the plant height at 29 DAP, and give very significant effect to the sum of threefoliage leaf at 29 and 44 DAP but shows not significant effect to the plant height at 44 DAP, and the whole production parameter. Factor of time application of NPK Mutiara fertilizer give significant effect to the plant height at 29 DAP but not significant to the plant height at 44 DAP, sum of threefoliage leaf at 29 and 44 DAP, and the whole production parameter. There is no interaction between plant spacing and time application of NPK Mutiara fertilizer on the whole parameter, except to the plant height at 29 DAP.*

Keywords: Bean baby, plant spacing, NPK Mutiara Fertilizer