

**PENGARUH JARAK TANAM DAN TAKARAN PUPUK NPK TERHADAP
PERTUMBUHAN DAN HASIL BENIH KACANG HIJAU
(*Vigna radiata* L. Wilczek)**

Intisari

Penelitian ini bertujuan untuk 1) mengetahui pengaruh jarak tanam terhadap pertumbuhan dan hasil benih kacang hijau 2) mengetahui pengaruh takaran pupuk NPK terhadap pertumbuhan dan hasil benih kacang hijau serta 3) mengetahui interaksi antara jarak tanam dan takaran pupuk terhadap pertumbuhan dan hasil benih kacang hijau. Penelitian di lahan petani Karangasem, Palbapang, Bantul, Yogyakarta pada bulan Mei-Agustus 2012. Sedangkan pengujian kualitas benih di lakukan dilaboratorium Teknologi Benih, Fakultas Pertanian UGM. Percobaan menggunakan rancangan petak terbagi dengan menggunakan tiga ulangan. Petak utama adalah jarak tanam terdiri atas J0 = 15 cm x 30 cm (populasi 216.667 tanaman/ha), J1 = 30 cm x 30 cm (populasi 108.300 tanaman/ha), J2 = 20 cm x 40 cm (populasi 125.000 tanaman/ha). Sedangkan anak petak adalah takaran pupuk, terdiri atas P0 = 0 kg Urea, 0 kg SP36, 0 kg KCl, P1 = 50 kg Urea, 50 kg SP36, 50 kg KCl, P2 = 75 kg Urea, 75 kg SP36, 75 kg KCl. Hasil penelitian menunjukkan bahwa tidak terjadi interaksi yang nyata antara parameter jarak tanam dengan parameter takaran pupuk NPK. Jarak tanam mampu memberikan hasil yang sama dengan hasil tertinggi pada jarak 15 x 30 cm sebesar 0.85 ton/ha. Takaran pupuk NPK 75 kg/ ha mampu memberikan hasil sebesar 0,84 ton/ha.

Kata kunci : jarak tanam, pupuk, kacang hijau, benih

**THE EFFECT OF DISTANCE PLANTING AND RATES OF NPK FERTILIZER
ON THE GROWTH AND RESULTS OF MUNG BEAN SEED
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Abstract

The research has been carried out in order 1) determine the effect of plant spacing on growth and seed yield of green beans 2) the effect of NPK fertilizers on growth and seed yield of green beans and 3) the interaction between plant spacing and fertilizers on growth and yield of green bean seeds. The research in conducted at Karangasem, Palbapang, Bantul, Yogyakarta in May-August 2012. While the seed quality testing is done at laboratory Seed Technology, Faculty of Agriculture, Gadjah Mada University. The research using a split plot design with three block as replication. The main plot is a spacing consisting of J0 = 15 cm x 30 cm (population 216.667 plants/ha), J1 = 30 cm x 30 cm (population 108.300 plants/ha), J2 = 20 cm x 40 cm (population of 125,000 plants/ha). While the subplot was fertilizers, consisting of P0 = 0 kg Urea 0 kg SP36 0 kg KCl, P1 = 50 kg urea 50 kg SP36 50 kg of KCl, P2 = 75 kg urea 75 kg SP36 75 kg KCl. The results showed that there was no significant interaction between plant spacing with the parameters of NPK fertilizers. Spacing is able to give the same results with the highest yield at a distance of 15 x 30 cm by 0,85 tons / ha . NPK fertilizer rate of 75 kg / ha is able to give a yield of 0,84 tonnes / ha .

Keywords : plant spacing, fertilizers, mung beans, seeds