

INTISARI

Pupuk berperan penting untuk meningkatkan pertumbuhan dan hasil tanaman, serta mempengaruhi serangan lalat buah jika pemupukan tidak seimbang. Nutrisi yang seimbang diperlukan tanaman jambu air untuk mengoptimalkan hasil dan kualitas buah. Tujuan penelitian ini adalah mengetahui perlakuan yang terbaik untuk meningkatkan pertumbuhan dan hasil serta menurunkan serangan lalat buah pada tanaman jambu air. Penelitian dilakukan di Desa Jambidan Kec. Banguntapan Kab. Bantul Daerah Istimewa Yogyakarta, dengan metode eksperimen menggunakan Rancangan Acak Kelompok yang melibatkan perlakuan P1= Pupuk NPK (100%); P2= Pupuk NPK (50%) & Pupuk kandang ayam (50%); P3= Pupuk NPK (25%) & Pupuk kandang ayam (75%); P4= Pupuk kandang ayam (100%); P5= Pupuk NPK (50%) & Pupuk kandang sapi (50%); P6= Pupuk NPK (25%) & Pupuk kandang sapi (75%); dan P7= Pupuk kandang sapi (100%). Hasil penelitian menunjukkan bahwa perlakuan 50% pupuk NPK & 50% pupuk kandang ayam merupakan perlakuan yang memberikan pertumbuhan dan hasil buah tanaman jambu air terbaik. Seluruh perlakuan pupuk belum dapat menurunkan serangan lalat buah pada tanaman jambu air.

Kata kunci: pupuk organik; pupuk anorganik; jambu air; lalat buah; hasil panen

ABSTRACT

Fertilizer plays a role in increasing plant growth and yield, and affecting fruit fly attacks if fertilization is not balanced. Balanced nutrition is needed by wax apple plants to optimize fruit yield and quality. The purpose of this study was to determine the best treatment to increase growth and yield and reduce fruit fly attacks on wax apple plants. The research was conducted in Jambidan Village, Banguntapan District, Bantul Regency, Special Region of Yogyakarta, using an experimental method with a Randomized Block Design involving treatments P1 = 100% NPK fertilizer; P2 = 50% NPK fertilizer & 50% chicken manure; P3 = 25% NPK fertilizer & 75% chicken manure; P4 = 100% chicken manure; P5 = 50% NPK fertilizer & 50% cow manure; P6= 25% NPK fertilizer & 75% cow manure; and P7= 100% cow manure. The results showed that the use of 50% NPK fertilizer & 50% chicken manure treatment was the treatment that obtained the best results on the growth and fruit yield of wax apple plants. All fertilizer treatments were unable to reduce fruit fly attacks on wax apple plants.

Keywords: organic fertilizer; inorganic fertilizer; wax apple; fruit fly; crop yield