

Nur Amalis Solehah. (190311100065). Pengaruh Umur Bibit dan Jenis Pupuk Kandang Terhadap Pertumbuhan dan Kandungan Serat Tanaman Caisim (*Brassica juncea* L.). dibimbing oleh: Ir. Sinar Suryawati, M.Si dan Dr. Agr. Eko Setiawan, SP., M.Si

ABSTRAK

Caisim (*Brassica juncea* L.) atau sawi hijau merupakan salah satu tanaman sayuran daun yang memiliki keunggulan dalam hal serat pangan yang dibutuhkan tubuh untuk menurunkan kadar kolesterol dan gula darah. Oleh karena itu, maka perbaikan teknik budidaya perlu dilakukan untuk meningkatkan produksi dan kandungan serat pangannya. Penelitian ini bertujuan untuk mengetahui pengaruh umur bibit dan jenis pupuk kandang terhadap pertumbuhan dan kandungan serat tanaman caisim. Penelitian dilaksanakan pada bulan Desember 2022 sampai Januari 2023, menggunakan rancangan acak lengkap non faktorial yang terdiri dari 8 kombinasi perlakuan umur bibit (0, 7, 14, 21 Hari Setelah Semai (HSS)) dan jenis pupuk kandang (pupuk kandang sapi dan pupuk kandang kambing) masing-masing 15 ton/hektar. Data hasil pengamatan dianalisis menggunakan *Analysis of Variance* dan uji beda jarak nyata Duncan taraf 5%. Hasil penelitian menunjukkan perlakuan kombinasi umur bibit dan jenis pupuk kandang berpengaruh nyata terhadap pertambahan panjang tanaman, pertambahan jumlah daun, luas daun, bobot basah brangkasan, bobot basah total, bobot kering brangkasan dan bobot kering total tanaman. Perlakuan kombinasi umur bibit 21 HSS dan pupuk kandang sapi memberikan hasil tertinggi pada parameter luas daun, bobot basah brangkasan, bobot basah total, bobot kering brangkasan dan bobot kering total tanaman sedangkan kandungan serat pangan tertinggi (3,14 g/100 g) cenderung dihasilkan oleh perlakuan kombinasi umur bibit 7 HSS dan pupuk kandang sapi.

Kata kunci: Caisim (*Brassica juncea* L.), pupuk kandang, umur bibit.

Nur Amalis Solehah. (190311100065). Effect of Age of Seedlings and Type of Manure on the Growth and Fiber Content of Caisim (*Brassica juncea* L.) Plants. supervised by: Ir. Sinar Suryawati, M.Si and Dr. agr. Eko Setiawan, SP., M.Sc

ABSTRACT

Caisim (*Brassica juncea* L.) or mustard greens is a leaf vegetable plant that has advantages in terms of dietary fiber which the body needs to lower cholesterol and blood sugar levels. Therefore, it is necessary to improve cultivation techniques to increase production and food fiber content. This study aims to determine the effect of seedling age and type of manure on the growth and fiber content of caisim plants. The study was conducted from December 2022 to January 2023, using a completely randomized non-factorial design consisting of 8 treatment combinations of seedling age (0, 7, 14, 21 days after sowing (HSS)) and types of manure (cow manure and goat manure) 15 tons/hectare each treatment. Observational data were analyzed using *Analysis of Variance* and Duncan's significant difference test at 5% level. The results showed that the combination treatment of seedling age and type of manure had significant effect on plant length, leaf number, leaf area, fresh weight of stover, total fresh weight, dry weight of stover, and total plant dry weight. The combination treatment of 21 HSS seedling age and cow manure gave the highest yields on the parameters of leaf area, fresh weight of stover, total wet weight, dry weight of stover, and total dry weight of plants while the highest food fiber content (3.14 g/100 g) tended to be produced by a combination treatment of 7 HSS seedling and cow manure.

Keywords: Caisim (*Brassica juncea* L.), manure, age of seedlings.