

KARAKTERISASI MORFOLOGI DAN PENCIRI KHUSUS EMPAT GALUR MENTIMUN

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INTISARI

Penelitian ini dilakukan pada bulan oktober 2022 sampai Desember 2022. Penelitian dilaksanakan di kebun pendidikan dan penelitian (KP2) Instipen Desa Maguwoharjo, Kecamatan Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta. Ketinggian tempat penelitian 118 meter di atas permukaan laut. Tujuan dari penelitian ini untuk Mengkaji atau mengamati karakter (sifat) morfologi dan penciri khusus empat galur tanaman mentimun sehingga dapat diperoleh informasi deskriptif empat galur tanaman mentimun. Penelitian menggunakan bahan genetik galur mentimun dari CV.Borneo Seed Indonesia yaitu CU-07, CU-08, CU-21, CU-22, pupuk organik, kimia, pestisida, dan alat-alat pertanian untuk proses penanaman dan pengambilan data. Analisis data kuantitatif pada variabel tinggi tanaman, jumlah daun, jumlah cabang, jumlah buah pertanaman, panjang buah pertanaman, bobot buah pertanaman, umur mulai berbunga betina, umur panen pertama. Data kualitatif pada variabel tipe pertumbuhan, posisi daun, bentuk ujung terminal cuping daun, bentuk pangkal buah, bentuk ujung buah, tipe duri, garis-garis buah, panjang buah terisi dot, warna duri, dan tepung putih diidentifikasi berdasarkan UPOV (*The International Union for the Protection of New Varieties of Plants*). Penelitian ini merupakan percobaan faktor tunggal yang disusun dalam Rancangan Acak Lengkap (RAL) dengan empat galur mentimun sebagai perlakuan, dengan tiga ulangan di setiap unit perlakuannya. Hasil penelitian menunjukkan bahwa tidak ada perbedaan secara nyata antara empat galur mentimun dengan kode CU-07, CU-08, CU-21, CU-22 pada karakter morfologi (tinggi tanaman, jumlah daun, jumlah cabang, umur mulai berbunga betina, umur mulai panen, panjang buah pertanaman, jumlah buah pertanaman, dan bobot buah pertanaman), serta diperoleh deskripsi karakter sifat morfologi dan penciri khusus empat galur mentimun dengan kode CU-07, CU-08, CU-21, dan CU-22.

Kata Kunci : Karakterisasi morfologi, penciri khusus, galur mentimun

MORPHOLOGICAL CHARACTERIZATION AND SPECIAL CHARACTERISTICS OF FOUR CUCUMBER LINES

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ABSTRACT

This research was conducted from October 2022 to December 2022. The research was carried out in the Education and Experimental Station of Instiper at Maguwoharjo Village, Depok District, Sleman Regency, Special Region of Yogyakarta. The altitude of the research area is 118 meters above sea level. The purpose of this study was to examine or observe the morphological and special characteristics of 4 cucumber lines so that descriptive information for 4 cucumber lines could be obtained. The study used genetic material from cucumber lines from CV. Borneo Seed Indonesia, namely CU-07, CU-08, CU-21, CU-22, organic fertilizers, chemical pesticides, and agricultural tools for the planting process and data collection. Quantitative data analysis on the variables of plant height, number of leaves, number of branches, number of fruits, fruit length, fruit weight, days to female start to flowering, days to first harvest. Qualitative data on the variables of growth type, leaf position, shape of the terminal tip of the leaf lobe, fruit base shape, fruit tip shape, type of spines, stripes of fruit, length of fruit filled with dots, color of spines, and white powder were identified based on UPOV (The International Union for the Protection of New Varieties of Plants). This study was a single factor experiment arranged in a Completely Randomized Design (CRD) with four cucumber lines as treatments, consisting of three replicatio. Results of this research showed that there was no significant difference between the four lines of cucumber plants coded CU-07, CU-08, CU-21, CU-22 on morphological characters (plant height, number of leaves, number of branches, days to female start to flowering, days to first harvest, fruit length, fruit number per plant, and fruit weight per plant). Description of the morphological characters and special characteristics of four cucumber lines with code CU-07, CU-08, CU-21, and CU-22 were obtained and presented.

Keywords: Morphological characterization, special characteristics, cucumber lines