

PERBANDINGAN SISTEM TANAM *BRACKET POT*, *TUNNEL AJIR*, DAN TALI RAMBATAN PADA SELEKSI GALUR MURNI MELON MAKUWAURI

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RINGKASAN

Produksi buah melon oriental setiap tahunnya mengalami peningkatan. Hal tersebut berpengaruh pada kebutuhan benih melon oriental di tingkat petani. Guna memenuhi kebutuhan benihnya, maka perlu adanya produksi benih melon dan program pemuliaan tanaman melon oriental. Penelitian ini bertujuan: (1) Mendapatkan sistem tanam yang tepat pada program pemuliaan tanaman melon oriental makuwauri skala *greenhouse*. (2) Mengetahui galur yang tepat terhadap sistem tanam yang diuji. (3) Mengetahui interaksi antara galur dan sistem tanam melon oriental pada skala *greenhouse*. Bahan yang digunakan dalam penelitian ini adalah dua kultivar melon oriental yaitu ougan makuwauri (OM) dan ginsen makuwauri (GM). Rancangan penelitian yang digunakan yaitu Rancangan Acak Kelompok (RAK) dengan dua faktor yaitu galur melon (ougan makuwauri dan ginsen makuwauri), dan perbandingan sistem tanam (*tunnel ajir*, *bracket pot*, dan tali rambatan). Setiap kombinasi perlakuan diulang sebanyak empat kali, sehingga diperoleh 24 satuan percobaan. Data pengamatan dianalisis menggunakan analisis sidik ragam dan uji BNT pada taraf 5% dan 1%. Pengamatan dilakukan pada karakter kuantitatif dan kualitatif berdasarkan panduan IPGRI 2003 dan UPOV 2006. Hasil penelitian menunjukkan bahwa sistem tanam berpengaruh nyata pada variabel pengamatan panjang sulur, panjang daun, dan panjang tangkai daun. Galur tanaman (OM dan GM) berpengaruh sangat nyata pada variabel pengamatan panjang sulur, jumlah daun, lebar daun, panjang daun, dan panjang tangkai daun. Interaksi sistem tanam dan galur menunjukkan berpengaruh nyata pada panjang sulur, lebar daun, panjang daun, panjang tangkai daun, dan diameter batang. Sistem tanam, Galur, serta interaksinya tidak berpengaruh nyata pada variabel pengamatan berat buah, padatan terlarut total, panjang buah, lebar buah, tebal daging buah, jumlah biji, dan berat butir.

Kata kunci : galur murni, hibrida, melon oriental, sistem tanam

COMPARISON OF BRACKET POT, TUNNEL, AND VINES ROPE PLANTING SYSTEMS ON THE SELECTION OF PURE LINES OF MAKUWAURI MELON

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SUMMARY

The production of oriental melons has increased every year. This affects the need for oriental melon seeds at the farmer level. To meet the need for seeds, it is necessary to produce melon seeds and an oriental melon plant breeding program. The aims of this study were: (1) To obtain the right cropping system in a greenhouse-scale oriental makuwauri melon plant breeding program. (2) Knowing the right line for the planting system being tested. (3) Knowing the interaction between the line and the oriental melon growing system at the greenhouse scale. The materials used in this study were two oriental melon cultivars, namely organ makuwauri (OM) and ginseng makuwauri (GM). The research design used was a Randomized Block Design (RCBD) with two factors, namely melon strains (ougan makuwauri and ginsen makuwauri), and a comparison of planting systems (tunnel, bracket pots, and vines rope). Each treatment combination was repeated four times, so 24 experimental units were obtained. Observational data were analyzed using analysis of variance and LSD test at 5% and 1% levels. Observations were made on quantitative and qualitative characters based on the IPGRI 2003 and UPOV 2006 guidelines. The results showed that the planting system had a significant effect on the observed variables for tendril length, leaf length, and petiole length. Plant lines (OM and GM) had a very significant effect on the observed variables of tendril length, leaf number, leaf width, leaf length, and leaf stalk length. The interaction of the cropping system and lines showed a significant effect on tendril length, leaf width, leaf length, petiole length, and stem diameter. The planting system, lines, and their interactions did not significantly affect the observed variables of fruit weight, total dissolved solids, fruit length, fruit width, flesh thickness, number of seeds, and weight of 1000 grains.

Keywords: pure line, hybrid, oriental melon, cropping system