The performance of HT-2123: A promising tomato variety with high yield potential

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Tomato (*Lycopersicon esculentum* Mill) known for its outstanding nutritive value is one of the most popular and widely grown vegetables in Sri Lanka. The primary objective of this study was to identify promising genotypes having Bacterial wilt resistance, high yield potential with good fruit quality attributes. During Yala 2002 and Maha 2002/03 seasons nine elite varieties along with the check variety, T-245 were evaluated in a Randomized Complete Block Design with three replications, in the field of Horticultural Crop Research and Development Institute, Gannoruwa. The cultural and agronomic practices were done according to the recommendations given by the Department of Agriculture, Sri Lanka. The observations were recorded on plant height, days to 50% flowering, marketable yield, reaction to bacterial wilt disease and fruit quality characters.

During both Yala 2002 and Maha 2002/03, HT- 2123 gave the highest yield per unit area. (56.6 t/ha and 37.6 t/ha) The plant height of HT-2123 was 100.7 cm and it took 38 days from transplanting to 50% flowering. The variety HT- 2123 is also moderately resistant to bacterial wilt disease and had dark red cylindrical shaped fruits weighing 50 g/fruit with a peel thickness of 0.8 cm.

The HT-2123 tomato variety was recognized as a promising tomato variety because of its high yield potential, moderate level of bacterial wilt resistance and good fruit quality characters such as red fruit colour, firmness and mild cracking.

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