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Performance of certain single genotypes of tuberose (Polianthes tuberosa) for assessing the yield and quality traits

P. Ranchana, M. Kannan and M. Jawaharlal

Department of Floriculture and Landscaping, HC& RI, Tami Nadu Agricultural University, India

A n experiment was laid out in a randomized block design (RBD) with three replications to evaluate the performance of ten single tuberose genotypes viz., Calcutta Single, Hyderabad Single, Kahikuchi Single, Mexican Single, Navsari Local, Phule Rajani, Prajwal, Pune Single, Shringar and Variegated Single under Coimbatore conditions during 2011-2012. The results of the experiment revealed that 'Prajwal' showed its superiority for certain parameters viz., days taken for sprouting of bulb, weight of bulb, weight of bulblets per clump, number of leaves per plant, days to spike emergence, flowering duration, spike length, rachis length, number of florets per spike, length of the floret, weight of florets per spike, number of spikes/m2 and yield of florets per plot (2 * 2 m). The parameters viz., flowering duration, weight of florets per spike and number of florets per spike recorded high phenotypic and genotypic coefficient of variation. Further, high heritability coupled with high genetic advance as per cent of mean was observed for flowering duration, weight of florets per spike, number of florets per spike and rachis length.

Biography

P. Ranchana is pursuing III Ph.D (Horticulture) programme in the Department of Floriculture and Landscaping, Tamil Nadu Agricultural University, Coimbatore. She is carrying research programme on "Development of F1 hybrids in tuberose genotypes for increasing yield, concrete content and resistant to nematode" at Coimbatore for her Ph.D (Hort.) work. She is also working as SRF (Hort.) in the project on "Validation of DUS testing guidelines for Jasmine"- PPV and FRA scheme, being in operation at the Department of Floriculture and Landscaping, Tamil Nadu Agricultural University, Coimbatore.

ranchanahorti@gmail.com