



RESEARCH PAPER

Morphological characterization, evaluation and selection of hibiscus (*Hibiscus rosa-sinensis* L.) genotypes for high yield

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Abstract : An experiment was conducted at Department of Floriculture and Landscaping, TNAU, Coimbatore with the objectives viz., to study the morphological, flowering, yield parameters of different hibiscus accessions and to identify the accession with high flower yield with attractive colour. In this experiment, 14 hibiscus genotypes were collected from different places of Tamil Nadu and also from Thrissur, Kerala and these genotypes were evaluated continuously from June, 2014 to Sep, 2019. Among the different accessions the highest plant height was observed in Acc 1 (170.58 cm and the highest number of branches was observed in Acc 3 (14.00) 360 days after pruning. The highest leaf length was observed in Acc 10 (9.00 cm) while the highest bud length was recorded by Acc 1 (4.50 cm) and Acc 4 (4.62 cm). The highest single flower weight was observed in Acc 1 (10.60 g) and the highest flower diameter was observed in Acc 13 (12.37 cm) which was on par with Acc 1 (12.17 cm). Acc. 1 (THR 1) was identified for high flower yield (2.10 kg/plant/year).

Key Words : Hibiscus, Genotype, Evaluation, Flower yield

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