Original Research

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Economic analysis of bitter gourd genotypes for open and protected condition

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Abstract: The current experiment had laid out to evaluate the performance of various genotypes of bitter gourd under open & protected conditions during 2017-18 at Lovely Professional University, Phagwara. The experiment comprised a Randomized Complete Block Design (RCBD) with three replications for evaluating the eight genotypes of bitter gourd in two different conditions. To estimate the performance of genotypes for growth and yield contributing traits to study the economic analysis of bitter gourd for open and protected cultivation. Based on all the aspects related to horticultural parameters, genotypes Prachi and Polo-71 might be recommended to the farmers for commercial cultivation under open and protected conditions and can be used for further study work related to crop improvement programs. In terms of economic benefits, Polo-71 (4.12) followed by Prachi (3.72) was achieved with maximum cost-benefit ratio, whereas among all the genotypes under protected condition Polo-71 showed the highest cost benefit ratio (1.91) followed by Preeti (0.75). Based on all the aspects related to growth, yield parameters, and economic analysis, genotypes Polo-71, Prachi performed best and can be recommended to the farmers for commercial cultivation and used for further study work related to crop improvement programs. However, all eight genotypes showed the best performance in open conditions based on a cost-benefit ratio.

Keywords: Traits, variance, significant, commercial, yield & economic.