Effect of Integrated Crop Management on Correlation and Regression Analysis of Seed Yield and its Components in Mungbean

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Abstract—The present experiment was conducted at research farm of Department of Genetics & Plant Breeding, CCS Haryana Agricultural University, Hisar during summer and *kharif* season 2015. The variety "MH-421" of mungbean with sixteen treatment combinations evaluated for different seed yield and its components viz. days to 50 per cent emergence, days to 50 per cent flowering, days to maturity, plant height, number of branches per plant, number of pods per plant, seeds per pod and seed yield per plot to assess the correlation and regression analysis. Results revealed that Seed yield showed positive significant association with plant height, number of branches per plant, number of pods per plant and seed per pod while it is negatively correlated with days to emergence and days to 50 per cent in both seasons, while seed yield showed negative correlation with days to maturity in summer season only.Regression analysis was also performed for prediction of seed yield with the help of other components. Estimated mean of seed yield obtained by days to 50 per cent emergence, number of branches per plant, number of pods per plant and seeds per pod was at par with the actual value obtained indicating the reliability of these characters.

Keywords: Mungbean, Correlation, Regression, Yield, Summer, Kharif.