Evaluation of Mungbean Genotypes for Shattering Resistance

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Abstract: The present experiment entitled 'Pod Shattering Resistance and Diversity Analysis in Mungbean (*Vigna radiata* L.)' was carried out with view to study pod shattering behavior in 42 genotypes of Mungbean. The genotypes JLM-2021-9 (5.00%), JLM-2021-14 (5.00%), JLM-2021-18 (7.50%), LCM-40 (7.50%), JLM-2021-3 (10.00%) were under resistant category as it showed up to 10% shattering on 7th day. The thirty five genotypes showed shattering up to 57.5% on the 7th day, indicates tolerance to the seed shattering. These genotypes may useful in breeding program for development of shattering resistant or tolerant genotype in mungbean. Out of 42 genotypes, two were early shatter, showing 82.50 per cent (Phule Chetak) and 90.00 per cent (LCM-29) breakage; hence they were susceptible or early shatter. Among all the genotypes, two were susceptible, five genotypes were resistant and thirty five genotypes expressed tolerance for shattering. The resistant and tolerant genotypes found in present investigation may be utilized in breeding program for development of resistant or tolerant recombinants, for pod shattering as well as for other agronomical attributes.

Key words: Mungbean, Pod shattering and Resistance