STUDIES ON GENETIC PARAMETER FOR YIELD AND YIELD ATTRIBUTING TRAITS ACROSS *KHARIF* AND *RABI* SEASONS IN MAIZE (*ZEA MAYS* L.)

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Abstract: The present investigation was carried out with fifty six genotypes to estimate the heritability, expected genetic advance and coefficient of variation for yield and yield attributing traits. Treatments differences for all characters were highly significant in both the seasons which indicates the presence of inherent genetic differences in our experimental material. The values of phenotypic coefficient of variation (PCV) were higher than genotypic coefficient of variation (GCV) for all characters in both seasons. Sufficient level of heritability ranging from very high to moderate broad sense heritability were recorded for all characters except anthesis-silking interval across both seasons. Genetic advance at 5% selection intensity was higher for grain yield, plant height, ear height and number of kernels/row in both the seasons. In case of genetic advance as per cent of mean was highest for grain yield across both seasons while next lower values fluctuating with seasons. As grain yield having high both types of expected genetic advance coupled with high heritability in both the seasons, indicates the presence of large proportion of additive gene action for deciding this trait.

Keywords: Maize, Heritability, Genetic advance, Coefficient of variation

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