## Correlation and Path Analysis for Morphological Traits in Maize (Zea mays L.) Inbred Lines

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## **ABSTRACT**

Correlation and path coefficient analysis was worked out for 8 morphological characters in 40 genotypes of maize inbred lines. Correlation studies indicated that days to 50% silking and 100 seed weight had positive significant association with seed yield per plant. Further partitioning of correlation coeffecients into direct and indirect effects showed that characters 100 seed weight, cob length and days to 50 % silking had positive direct effect on seed yield per plant. The correlation and path analysis clearly indicated that direct selection based on these attributes may be helpful in evolving high yielding genotypes.

Key words: Correlation, Maize, Morphological traits, Path analysis.