

Correlation and Path Analysis Studies in Maize (*Zea mays* L.)

N Manohar Reddy, K Radhika, L V Subba Rao and G Usharani

Department of Genetics and Plant Breeding, College of Agriculture,
Acharya N. G. Ranga Agricultural University, Rajendranagar, Hyderabad,
Andhra Pradesh

ABSTRACT

The present investigation was carried out to study the correlation and path analysis for seven quantitative characters in thirty-six crosses along with twelve parents. Single plant yield exhibited highly significant positive correlation with ear girth, ear length, test-weight and plant height which were in turn significantly correlated among themselves revealing that due emphasis may be laid for these characters to increase yield during selection process. Path coefficient analysis revealed that ear length, ear girth, test-weight and plant height had direct effect on yield.

Key words : Correlation, Maize, Path analysis and Yield