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Genetic analysis for maturity and height traits in maize (*Zea mays* L.)

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SUMMARY

Combining ability was estimated for maturity and height for different five traits in maize using 8 x 8 half diallel crosses. General and specific combining ability variances were highly significant for all the traits. Both additive and non-additive gene actions played an important role for the inheritance of all the components. Inbreds GWL-3 and GWL-8 were observed to be superior having significant negative gca effects for all the characters. The cross CML-264 x GWL-2 possessed good sca effects in desirable direction for days to 50 % tasselling, silking, ear height and days to 75 % dry husk.

Key words : Diallel, Combining ability, *Zea mays* L.

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