

## Correlation studies between seed, seedling, growth and yield characters in sunflower (*Helianthus annuus* L.)

■ SHARNKUMAR AND BASAVEGOWDA

### SUMMARY

The present experiment was undertaken with a view to study the correlation among the seed, seedling, growth and yield characters on kernel yield of sunflower hybrids. Studies were conducted during *Kharif* season of 2005. Among the characters of F1 hybrid studied, highly significant positive correlation was observed with hundred seed weight (0.749), seed density (0.831), kernel to hull ratio (0.592), root length (0.592), shoot length (0.81), seedling vigor index (0.716), plant height (0.538) at harvest, number of leaves (0.718) at 60DAS and capitulum diameter (.804), seed filling percentage (0.615), hundred seed weight (0.546) and seed weight per head (0.781), with commercial kernel yield. It is obvious from the present study that hundred seed weight, seed density, kernel to hull ratio, head diameter, number of filled seeds per head, seed filling percentage and number of seeds per head were the chief characters which contributed to the seed yield of sunflower. However, plant height and number of leaves were also useful as phenotypic indices for identification of better genotypes.

**Key Words :** Sunflower, Correlation, Seed quality, Yield

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