



**RESEARCH ARTICLE :**

## Character association of wheat varieties under different degree of shades

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**SUMMARY :** Morphological, Physiological characters and yield components were studied in five wheat varieties in order to find out the genetic association of different characters towards grain yield under different degree of shades. The experiments were laid out in split-plot design with three main plot consisting three levels of light exposures *i.e.* full sunlight, 2/3 and 1/3 of full sunlight and five sub-plot treatments consisted of five varieties of wheat at GBPUA and T, Pantnagar during 2010-11 and 2011-12. The character association analysis revealed that grain weight/spike and 1000 grain weight had strong positive and significant correlation with gain yield during both the growing season. Fertile spikelets had a significant positive correlation with potential shoots  $m^{-2}$  during both years. Number of grains spike<sup>-1</sup> was positively associated with grain weight spike<sup>-1</sup>, 1000 grain weight and days to 50 per cent heading in 2010-11 but it was negatively correlated with days to 80 per cent maturity in 2011-12.

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