

Table 5 Direct (diagonal) and indirect effects of component characters on grain yield in very high plant density (D_1 : 30 cm \times 20 cm)

| Characters | PH | DFF | LAF | LI | DI | FWI | NR | LR | NSB | TCC | PC | r_g with grain yield |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------|
| PH | -0.822 | 0.552 | -0.283 | 0.021 | 0.253 | 0.031 | -0.006 | 0.120 | 0.004 | 0.095 | -0.127 | 0.181 |
| DFF | 0.245 | -1.851 | 0.303 | -0.043 | -0.139 | -0.027 | 0.012 | 0.353 | 0.166 | 0.302 | 0.191 | -0.281 |
| LAF | 0.226 | -0.545 | 1.031 | 0.499 | -0.101 | 0.021 | -0.199 | -0.073 | -0.054 | -0.387 | -0.223 | 0.332 |
| LI | -0.110 | 0.512 | 0.323 | 1.158 | 0.167 | 0.098 | -0.254 | 0.103 | -0.290 | -0.228 | -0.542 | 0.694* |
| DI | -0.703 | 0.867 | -0.352 | 0.089 | 0.297 | 0.063 | -0.005 | 0.002 | -0.163 | 0.145 | -0.244 | 0.346 |
| FWI | -0.271 | 0.549 | 0.238 | 0.164 | 0.199 | 1.298 | -0.218 | 0.048 | -0.277 | -0.140 | -0.547 | 0.817* |
| NR | -0.016 | 0.068 | 0.620 | 0.121 | 0.005 | 0.061 | -0.331 | 0.154 | -0.123 | -0.330 | -0.471 | 0.466 |
| LR | 0.134 | 0.888 | 0.103 | -0.022 | 0.000 | -0.006 | 0.069 | -0.735 | -0.134 | -0.110 | -0.007 | 0.085 |
| NSB | 0.011 | 0.861 | 0.157 | 0.128 | 0.135 | 0.073 | -0.114 | -0.276 | 1.357 | 0.152 | -0.372 | 0.515 |
| TCC | 0.079 | 0.586 | 0.417 | 0.037 | -0.045 | 0.013 | -0.014 | -0.085 | 0.056 | 0.956 | -0.246 | 0.347 |
| PC | 0.056 | 0.598 | 0.389 | 0.144 | 0.122 | 0.087 | -0.204 | -0.009 | -0.224 | -0.397 | 0.592 | -0.064 |

Note: *Significance at 5 per cent level; **Significance at 1 per cent level; Residual effect = 0.332; r_g = Genotypic correlation; PH: Plant height; DFF: Days to 50 per cent flowering; LAF: Leaf area at 50 per cent flowering; LI: Length of the primary inflorescence; DI: Diameter of the inflorescence; FWI: Fresh weight of the inflorescence; NR: Number of rachis per inflorescence; LR: Length of the rachis per inflorescence; NSB: Number of secondary branches per inflorescence; TCC: Total carbohydrates content; PC: Protein content