

Table 3 Estimates of general combining ability effects of parents for different quantitative characters included in Line x Tester interspecific crosses

| Sl. No | Parents | Seed cotton yield (kg/ha) | | Plant height (cm) | | No. of sympodia | | No. of bolls | | Mean boll weight (g) | | Seed index (g) | | Ginning outturn (%) | | Lint index (g) | |
|------------------|-------------|---------------------------|------|-------------------|--------|-----------------|---------|--------------|---------|----------------------|--|----------------|--|---------------------|--|----------------|--|
| | | Value | Rank | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | |
| Hirsutum Testers | | | | | | | | | | | | | | | | | |
| 1 | DH 98-27 | 333.42** | 1 | -7.07 | 1.57 | 0.14 | -0.05 | 0.20 | 2.87** | 0.77** | | | | | | | |
| 2 | DH 18-31 | 329.65** | 2 | 3.98 | -1.64 | -3.25** | 0.25** | 1.01 | -0.93 | 0.13 | | | | | | | |
| 3 | DH 35-17 | 307.44** | 3 | 9.23 | 1.53 | 5.29** | -0.39** | -0.80** | 0.03 | -0.32 | | | | | | | |
| 4 | DH 13-7 | 271.47** | 4 | -4.98 | -0.39 | 1.49** | 0.07 | 1.18** | 1.48* | 0.84** | | | | | | | |
| 5 | DH 23-4 | 269.95** | 5 | 2.52 | -0.39 | -3.19** | -0.15* | 0.654* | -0.45 | 0.16 | | | | | | | |
| 6 | DH 24-4 | 257.55** | 6 | -1.36 | -1.39 | -2.38** | -0.01 | -0.48 | -0.49 | -0.31 | | | | | | | |
| 7 | 178-24 | 236.63** | 7 | 3.77 | -0.22 | -3.34** | 0.12 | -0.13 | -0.30 | -0.03 | | | | | | | |
| 8 | ZCH 8 | 216.37** | 8 | 6.81 | 0.53 | 2.02** | -0.17* | -1.40** | 1.30 | -0.30 | | | | | | | |
| 9 | DH46-1 | 192.11* | 9 | -6.36 | -1.39 | -0.40 | 0.00 | 0.35 | -3.99** | -0.81** | | | | | | | |
| 10 | DH 49-1 | 164.65* | 10 | -3.90 | 0.24 | 0.91 | 0.34** | -0.07 | -2.16** | -0.53* | | | | | | | |
| 11 | DH 11-8 | 149.00 | 11 | -19.32 | -1.64 | -1.03* | -0.07 | 0.672 * | 0.99 | 0.47* | | | | | | | |
| 12 | DH 37-4 | 144.46 | 12 | 6.14 | -1.93 | 1.62** | -0.10 | -0.96** | 0.86 | -0.19 | | | | | | | |
| 13 | DH 82-3 | 142.20 | 13 | -2.81 | -0.35 | -0.05 | -0.28** | -0.32 | 1.23 | 0.14 | | | | | | | |
| 14 | DH 91-1 | 67.27 | 14 | 7.10 | 1.49 | -2.38** | -0.15* | -0.19 | -0.94 | -0.30 | | | | | | | |
| 15 | DH 53-2 | 57.15 | 15 | -2.57 | -0.22 | -0.55 | 0.17* | -0.69* | 0.83 | -0.09 | | | | | | | |
| 16 | DH 23-1 | 32.61 | 16 | -2.69 | 1.24 | 0.47 | 0.04 | 0.07 | 0.03 | 0.01 | | | | | | | |
| 17 | DH 45-23 | 25.64 | 17 | 9.60 | 2.07 | -1.23* | 0.15* | 1.17** | -0.31 | 0.40 | | | | | | | |
| 18 | DH 23-21 | -458.05** | 18 | 1.64 | 1.03 | 5.18** | -0.3** | 0.51 | 1.447* | 0.547* | | | | | | | |
| 19 | DH 31-2 | -486.73** | 19 | 9.31 | 0.28 | -0.82 | 0.17* | -0.02 | 0.52 | 0.12 | | | | | | | |
| 20 | DH 14-2 | -538.49** | 20 | 4.77 | 0.61 | 0.93 | -0.09 | 0.02 | 0.14 | 0.07 | | | | | | | |
| 21 | DH 75- 23 | -557.05** | 21 | -21.36* | -1.56 | -2.63** | 0.17* | -1.047** | 0.87 | -0.21 | | | | | | | |
| 22 | DH 29-1 | -577.69** | 22 | 0.89 | 0.44 | 1.33** | 0.14 | 0.22 | -3.64** | -0.73** | | | | | | | |
| 23 | DH 8-7 | -579.54** | 23 | 6.64 | 0.11 | 1.85** | 0.14 | 0.05 | 0.63 | 0.19 | | | | | | | |
| | SE (gi) | 77.00 | | 10.20 | 1.24 | 0.49 | 0.07 | 0.30 | 0.66 | 0.21 | | | | | | | |
| | SEd (gi-gj) | 108.90 | | 14.42 | 1.75 | 0.70 | 0.10 | 0.43 | 0.93 | 0.30 | | | | | | | |
| | CD at 5% | 215.62 | | 20.25 | 2.46 | 1.38 | 0.21 | 0.61 | 1.30 | 0.42 | | | | | | | |
| | CD at 1% | 286.40 | | 26.82 | 3.26 | 1.83 | 0.27 | 0.80 | 1.73 | 0.56 | | | | | | | |
| Barbadense Lines | | | | | | | | | | | | | | | | | |
| 1 | DB 533 | 242.92** | 1 | 1.748 | -0.118 | -1.51** | 0 | -0.236 | 0.24 | -0.027 | | | | | | | |
| 2 | DB 534 | 75.54* | 2 | -5.774 | -0.111 | 1.06** | 0.16** | 0.265* | 0.23 | 0.142 | | | | | | | |
| 3 | DB 532 | -4.92 | 3 | 1.146 | 0.194 | 0.52* | -0.08* | -0.014 | -0.613* | -0.14 | | | | | | | |
| 4 | DB 531 | -313.54** | 4 | 2.879 | 0.034 | -0.07 | -0.09** | -0.015 | 0.15 | 0.025 | | | | | | | |
| | SE (gi) | 32.11 | | 4.25 | 0.52 | 0.21 | 0.03 | 0.13 | 0.27 | 0.09 | | | | | | | |
| | SEd (gi-gj) | 45.41 | | 6.01 | 0.73 | 0.29 | 0.04 | 0.18 | 0.39 | 0.13 | | | | | | | |
| | CD at 5% | 89.92 | | 8.45 | 1.03 | 0.58 | 0.09 | 0.25 | 0.54 | 0.18 | | | | | | | |
| | CD at 1% | 119.44 | | 11.19 | 1.36 | 0.76 | 1.83 | 0.33 | 0.72 | 0.23 | | | | | | | |

Note: * Significant at P = 0.05; ** Significant at P = 0.01