

Table 6 Estimation of specific combining ability (SCA) effects of crosses for quantitative traits

| S. No. | Crosses | Days to 50% tassel | Days to 50% silk | Plant height (cm) | Ear height (cm) | Ear length (cm) | Ear diameter (cm) | Number of rows/ear | Number of kernels/row | 100 kernel weight (g) | Yield/plant (g) | Yield/plot (kg) |
|--------|---------------------------------|--------------------|------------------|-------------------|-----------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|-----------------|
| 1 | L ₁ ×T ₁ | -0.548 | 0.081 | -1.876 | -1.696 | -0.391 | -0.065 | -0.084 | -0.142 | -1.084* | -3.341 | -0.194 |
| 2 | L ₁ ×T ₂ | -1.104** | -1.363** | 1.258 | 2.715 | -0.504 | -0.034 | 0.196 | -0.416 | 2.081** | -12.711 | -0.079 |
| 3 | L ₁ ×T ₃ | 1.652** | 1.281* | 0.618 | -1.019 | 0.895 | 0.099 | -0.111 | 0.558 | -0.997 | 16.052* | 0.273* |
| 4 | L ₂ ×T ₁ | -0.326 | -0.030 | -5.709 | -4.696 | 1.197* | -0.249* | -0.818* | 0.724 | -1.371* | -17.483* | -0.301* |
| 5 | L ₂ ×T ₂ | 0.119 | -0.474 | 1.124 | 2.715 | -0.148 | 0.033 | 0.262 | -0.749 | 2.893** | 16.131* | 0.115 |
| 6 | L ₂ ×T ₃ | 0.207 | 0.504 | 4.584 | 1.981 | -1.049 | 0.216* | 0.556 | 0.024 | -1.520** | 1.351 | 0.186 |
| 7 | L ₃ ×T ₁ | -1.104** | -1.141* | 4.424 | 6.970** | -0.303 | -0.075 | 0.116 | -0.142 | -1.267* | 2.602 | 0.110 |
| 8 | L ₃ ×T ₂ | 0.007 | -0.252 | -5.342 | -10.119** | 0.319 | 0.056 | -0.204 | 0.384 | 0.348 | -4.087 | 0.016 |
| 9 | L ₃ ×T ₃ | 1.096** | 1.393** | 0.918 | 3.148 | -0.016 | 0.019 | 0.089 | -0.242 | 0.919 | 1.486 | -0.126 |
| 10 | L ₄ ×T ₁ | -0.548 | -0.585 | -0.576 | -6.530* | -0.541 | -0.073 | 0.316 | -1.376 | 1.183* | -12.746 | -0.285* |
| 11 | L ₄ ×T ₂ | 0.896* | 1.304* | 0.558 | 4.381 | 0.096 | 0.182 | -0.004 | 0.651 | 1.998** | 2.461 | 0.117 |
| 12 | L ₄ ×T ₃ | -0.348 | -0.719 | 0.018 | 2.148 | 0.445 | -0.109 | -0.311 | 0.724 | -3.181** | 10.285 | 0.169 |
| 13 | L ₅ ×T ₁ | 1.007** | 0.304 | 2.891 | 5.304* | 0.042 | 0.084 | -0.284 | -0.809 | 1.944** | 0.815 | 0.171 |
| 14 | L ₅ ×T ₂ | 0.785* | 0.859 | 1.924 | 3.715 | 0.680 | -0.158 | -0.404 | 1.718 | -1.174* | 2.766 | 0.024 |
| 15 | L ₅ ×T ₃ | -1.793** | -1.163* | -4.816 | -9.019** | -0.721 | 0.075 | 0.689* | -0.909 | -0.770 | -3.581 | -0.195 |
| 16 | L ₆ ×T ₁ | 1.785** | 1.081* | 9.891* | 10.081** | 0.959 | 0.235* | -0.418 | 3.691** | 2.933** | 30.594** | 0.590** |
| 17 | L ₆ ×T ₂ | -1.104** | -0.030 | -8.076* | -8.674** | -0.754 | -0.134 | 0.062 | -2.782** | -0.902 | -23.552** | -0.261* |
| 18 | L ₆ ×T ₃ | -0.681 | -1.052* | -1.816 | -1.407 | -0.205 | -0.101 | 0.356 | -0.909 | -2.031** | -7.042 | -0.329** |
| 19 | L ₇ ×T ₁ | -0.215 | 0.081 | 0.324 | 2.970 | 1.859** | 0.331** | 0.716* | 3.324** | -0.051 | 26.107** | 0.078 |
| 20 | L ₇ ×T ₂ | 0.896* | -0.030 | 2.358 | -2.119 | -1.154* | -0.177 | -0.404 | -1.949 | -2.185** | -14.512* | -0.100 |
| 21 | L ₇ ×T ₃ | -0.681 | -0.052 | -2.682 | -0.852 | -0.705 | -0.154 | -0.311 | -1.376 | 2.236** | -11.595 | 0.022 |
| 22 | L ₈ ×T ₁ | 1.007** | 1.193* | -5.109 | 0.637 | 0.314 | -0.109 | -0.084 | -0.876 | -0.995 | 1.204 | 0.389** |
| 23 | L ₈ ×T ₂ | -0.548 | -0.252 | 1.424 | 1.548 | -0.048 | 0.013 | 0.196 | 1.351 | 1.120* | 7.861 | -0.375** |
| 24 | L ₈ ×T ₃ | -0.459 | -0.941 | 3.684 | -2.185 | -0.266 | 0.096 | -0.111 | -0.476 | -0.125 | -9.065 | -0.014 |
| 25 | L ₉ ×T ₁ | -0.881* | -0.252 | 1.558 | 1.804 | 0.525 | 0.038 | -0.218 | 2.224* | 1.099* | 5.083 | 0.036 |
| 26 | L ₉ ×T ₂ | -0.437 | -0.363 | -1.409 | -2.785 | -0.637 | 0.020 | -0.338 | -0.349 | -0.485 | -11.000 | -0.035 |
| 27 | L ₉ ×T ₃ | 1.319** | 0.615 | -0.149 | 0.981 | 0.112 | -0.058 | 0.556 | -1.876 | -0.614 | 5.917 | 0.000 |
| 28 | L ₁₀ ×T ₁ | 0.119 | 0.859 | -8.109* | -7.030** | -0.519 | -0.143 | -0.151 | -0.976 | 0.033 | -5.016 | -0.167 |
| 29 | L ₁₀ ×T ₂ | -0.104 | -0.252 | 7.924* | 7.881** | -0.448 | 0.155 | 0.329 | -1.449 | 0.548 | -3.721 | -0.111 |
| 30 | L ₁₀ ×T ₃ | -0.015 | -0.607 | 0.184 | -0.852 | 0.967 | -0.012 | -0.178 | 2.424* | -0.581 | 8.782 | 0.277* |
| 31 | L ₁₁ ×T ₁ | -0.215 | -0.252 | 4.891 | 3.304 | 0.092 | 0.158 | 0.716* | -1.176 | 0.233 | 8.139 | -0.023 |
| 32 | L ₁₁ ×T ₂ | -0.104 | 0.637 | -6.076 | -6.285** | -0.920 | -0.160 | -0.004 | -1.149 | 0.248 | -6.671 | 0.063 |
| 33 | L ₁₁ ×T ₃ | 0.319 | -0.385 | 1.184 | 2.981 | 0.829 | 0.002 | -0.711* | 2.324* | -0.481 | -1.468 | -0.039 |
| 34 | L ₁₂ ×T ₁ | -0.326 | 0.637 | -0.342 | -5.530* | -1.241* | -0.049 | 0.449 | -2.776* | 0.549 | -15.594* | -0.167 |

Continuing table 6

| S. No. | Crosses | Days to 50% tassel | Days to 50% silk | Plant height (cm) | Ear height (cm) | Ear length (cm) | Ear diameter (cm) | Number of rows/ear | Number of kernels/row | 100 kernel weight (g) | Yield/plant (g) | Yield/plot (kg) |
|--------|---------------------------------|--------------------|------------------|-------------------|-----------------|-----------------|-------------------|--------------------|-----------------------|-----------------------|-----------------|-----------------|
| 35 | L ₁₂ ×T ₂ | 0.785* | 0.193 | -3.309 | 0.381 | 0.996 | 0.083 | -0.071 | 1.851 | -0.185 | 11.437 | 0.249* |
| 36 | L ₁₂ ×T ₃ | -0.459 | -0.830 | 3.651 | 5.148* | 0.245 | -0.034 | -0.378 | 0.924 | -0.364 | 4.157 | -0.083 |
| 37 | L ₁₃ ×T ₁ | 0.230 | -0.141 | -1.876 | -1.196 | -0.841 | 0.015 | -0.018 | -0.609 | -1.017 | -6.831 | -0.211 |
| 38 | L ₁₃ ×T ₂ | 0.341 | 0.081 | 1.958 | 1.715 | 0.296 | -0.044 | -0.338 | -0.182 | -3.152** | 0.169 | 0.101 |
| 39 | L ₁₃ ×T ₃ | -0.570 | 0.059 | -0.082 | -0.519 | 0.545 | 0.029 | 0.356 | 0.791 | 4.169** | 6.662 | 0.110 |
| 40 | L ₁₄ ×T ₁ | -0.659 | -1.030* | 0.891 | -1.696 | -0.575 | -0.069 | -0.218 | -1.009 | -0.484 | -14.634* | -0.023 |
| 41 | L ₁₄ ×T ₂ | 0.119 | -0.474 | 0.924 | 1.715 | 1.263* | 0.293** | 0.662* | 0.718 | 1.581** | 24.554** | 0.366** |
| 42 | L ₁₄ ×T ₃ | 0.541 | 1.504** | -1.186 | -0.019 | -0.688 | -0.224* | -0.444 | 0.291 | -1.097* | -9.920 | -0.343** |
| 43 | L ₁₅ ×T ₁ | 0.674 | -0.807 | -1.276 | -2.696 | -0.575 | -0.029 | -0.018 | -0.076 | -1.701** | 1.146 | -0.002 |
| 44 | L ₁₅ ×T ₂ | -0.548 | 0.415 | 4.758 | 3.215 | 0.963 | -0.127 | 0.062 | 2.351* | -2.735** | 10.874 | -0.090 |
| 45 | L ₁₅ ×T ₃ | -0.126 | 0.393 | -3.482 | -0.519 | -0.388 | 0.156 | -0.044 | -2.276* | 4.436** | -12.020 | 0.062 |

Note: *: Significant at 5% level of significance; **: Significant at 1% level of significance