**Supplementary Table 4: GCA effects for haploid induction parameters of female genotypes used in crossing program**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Female genotypes** | **PFF** | **EFF** | **HRF** | **HFF** |
| DH -40 | 20.27\* | -3.97 | -18.24 | -2.28 |
| DH- 84 | 21.69\* | 11.39\* | 11.88\* | 5.69\* |
| DH -86 | 17.71\* | 10.36\* | 16.88\* | 4.66\* |
| DH -100 | 21.01\* | 6.49\* | 15.79\* | 3.75\* |
| PDW- 314  | -1.83 | 6.86\* | 27.76\* | 2.17\* |
| A-9-30-1  | 11.30\* | 8.69\* | 25.20\* | 4.67\* |
| TL -2900  | -38.58 | -5.32 | -27.82 | -4.21 |
| TL -2908  | -28.80 | -9.23 | -31.74 | -4.50 |
| DH -40 × PDW- 314 (F1) | 18.31\* | 0.64 | 17.60\* | 1.32\* |
| DH -40 × A-9-30-1 (F1) | 15.87\* | 0.56 | 3.33 | 0.50 |
| TL -2900×DH-86 (F1) | -37.19 | -7.27 | -27.82 | -4.23 |
| TL -2908 × DH -84 (F1) | -32.95 | -4.46 | -27.82 | -4.21 |
| TL -2908 × DH -86 (F1) | -25.65 | -2.03 | -20.25 | -3.25 |
| DH -40 ×DH-100 (F1) | 17.93\* | 4.21\* | 6.99\* | 2.76\* |
| DH -40 × DH-65(F1) | 15.47\* | 2.40\* | 7.79\* | 0.45 |
| DH-40×DH-65× DH-40(BC1F1)  | 18.41\* | 2.81\* | 13.77\* | 3.16\* |
| DH-40×DH-100×DH-40(BC1F1)  | 10.63\* | 3.64\* | 13.71\* | 2.88\* |
| TL-2900×DH-86 × DH-86(BC1F1) | -11.32 | -3.44 | -0.43 | -1.67 |
| TL-2908×DH-84 × DH-84(BC1F1)  | -8.73 | -2.66 | -7.07 | -1.24 |
| TL-2908×DH-86 × DH-86(BC1F1)  | -7.91 | -2.06 | -1.51 | -1.15 |
| DH-40×PDW-314 × DH-40(BC1F2) | -3.02 | -5.33 | -17.62 | -2.70 |
| DH-40×A-9-30-1 × DH-40 (BC1F2) | -0.94 | -6.27 | -4.35 | -2.26 |
| DH-40×DH-65 × DH-40(BC1F2) | 14.17\* | -1.75 | 6.80\* | 0.06 |
| TL-2900×DH8-6 × DH-86(BC1F2) | 0.25 | -1.14 | 8.45\* | 0.05 |
| TL-2908×DH-84 × DH-84(BC1F2) | -5.75 | -2.33 | -3.74 | -1.04 |
| TL-2908×DH-86 × DH-86(BC1F2) | -0.34 | -0.80 | 12.47\* | 0.62 |
| **SE±** | **3.78** | **1.07** | **3.42** | **0.59** |