**Supplementary Table 1.** First trial two-way ANOVA – 30 DAI

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source | df | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P |
| Principal Effects: |  | TL | | | | LA | | | | LA TL-1 | | | | MAA | | | | CII | | | |
| -Accession | 26.00 | 2469.28 | 94.97 | 10.59 | 0.000 | 420.18 | 16.16 | 4.37 | 0.000 | 2.53 | 0.10 | 2.84 | 0.000 | 0.97 | 0.04 | 2.86 | 0.000 | 1.36 | 0.05 | 3.37 | 0.000 |
| -Tray | 9.00 | 594.89 | 66.10 | 7.37 | 0.000 | 148.61 | 16.51 | 4.47 | 0.000 | 1.73 | 0.19 | 5.62 | 0.000 | 0.81 | 0.09 | 6.92 | 0.000 | 1.07 | 0.12 | 7.64 | 0.000 |
| Residuals | 134.00 | 1201.66 | 8.97 |  |  | 495.24 | 3.70 |  |  | 4.58 | 0.03 |  |  | 1.74 | 0.01 |  |  | 2.08 | 0.02 |  |  |
| Total | 169.00 | 4374.01 |  |  |  | 1132.12 |  |  |  | 9.26 |  |  |  | 3.74 |  |  |  | 4.81 |  |  |  |

**Supplementary Table 2.** First trial two-way ANOVA – 60 DAI

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source | df | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P |
| Principal Effects: |  | TL | | | | LA | | | | LA TL-1 | | | | MAA | | | | CII | | | |
| -Accession | 26.00 | 12020.30 | 462.32 | 9.15 | 0.000 | 204.54 | 7.87 | 2.07 | 0.004 | 0.51 | 0.02 | 1.32 | 0.158 | 0.97 | 0.04 | 1.77 | 0.019 | 0.46 | 0.02 | 1.61 | 0.042 |
| -Tray | 9.00 | 2359.18 | 262.13 | 5.19 | 0.000 | 246.35 | 27.37 | 7.21 | 0.000 | 0.46 | 0.05 | 3.42 | 0.000 | 0.77 | 0.09 | 4.09 | 0.000 | 0.55 | 0.06 | 5.66 | 0.000 |
| Residuals | 134.00 | 6768.42 | 50.51 |  |  | 508.75 | 3.80 |  |  | 2.01 | 0.02 |  |  | 2.81 | 0.02 |  |  | 1.46 | 0.01 |  |  |
| Total | 169.00 | 21318.40 |  |  |  | 947.30 |  |  |  | 2.98 |  |  |  | 4.68 |  |  |  | 2.53 |  |  |  |

**Supplementary Table 3.** Second trial two-way ANOVA – 30 DAI

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source | df | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P |
| Principal Effects: |  | TL | | | | LA | | | | LA TL-1 | | | | MAA | | | | CII | | | |
| -Accession | 28.00 | 3314.59 | 118.38 | 8.65 | 0.000 | 1372.48 | 49.02 | 4.51 | 0.000 | 1.93 | 0.07 | 2.14 | 0.003 | 1.07 | 0.04 | 1.10 | 0.350 | 1.10 | 0.04 | 1.79 | 0.018 |
| -Tray | 8.00 | 647.85 | 80.98 | 5.92 | 0.000 | 76.03 | 9.50 | 0.87 | 0.540 | 1.69 | 0.21 | 6.58 | 0.000 | 0.59 | 0.07 | 2.14 | 0.038 | 0.40 | 0.05 | 2.28 | 0.027 |
| Residuals | 108.00 | 1477.75 | 13.68 |  |  | 1173.58 | 10.87 |  |  | 3.47 | 0.03 |  |  | 3.76 | 0.03 |  |  | 2.36 | 0.02 |  |  |
| Total | 144.00 | 5959.49 |  |  |  | 2690.03 |  |  |  | 7.77 |  |  |  | 5.43 |  |  |  | 4.07 |  |  |  |

**Supplementary Table 4.** Second trial two-way ANOVA – 60 DAI

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source | df | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P |
| Principal Effects: |  | TL | | | | LA | | | | LA TL-1 | | | | MAA | | | | CII | | | |
| -Accession | 28.00 | 19941.90 | 712.21 | 9.15 | 0.000 | 798.54 | 28.52 | 3.47 | 0.000 | 1.89 | 0.07 | 3.12 | 0.000 | 0.66 | 0.02 | 2.48 | 0.000 | 0.79 | 0.03 | 2.54 | 0.000 |
| -Tray | 8.00 | 728.12 | 91.01 | 1.17 | 0.324 | 187.60 | 23.45 | 2.85 | 0.007 | 0.54 | 0.07 | 3.14 | 0.003 | 0.30 | 0.04 | 3.90 | 0.000 | 0.36 | 0.04 | 4.02 | 0.000 |
| Residuals | 108.00 | 8405.48 | 77.83 |  |  | 888.80 | 8.23 |  |  | 2.33 | 0.02 |  |  | 1.03 | 0.01 |  |  | 1.20 | 0.01 |  |  |
| Total | 144.00 | 29723.60 |  |  |  | 1843.75 |  |  |  | 4.87 |  |  |  | 2.05 |  |  |  | 2.39 |  |  |  |

**Supplementary Table 5.** Standardized z-scores two-way ANOVA – 30 DAI

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source | df | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P |
| Principal Effects: |  | TL | | | | LA | | | | LA TL-1 | | | | MAA | | | | CII | | | |
| -Accession | 48.00 | 162.24 | 3.38 | 8.79 | 0.000 | 119.50 | 2.49 | 4.02 | 0.000 | 73.43 | 1.53 | 2.43 | 0.000 | 67.26 | 1.40 | 1.89 | 0.001 | 79.73 | 1.66 | 2.52 | 0.000 |
| -Tray | 18.00 | 39.14 | 2.17 | 5.65 | 0.000 | 29.09 | 1.62 | 2.61 | 0.001 | 65.17 | 3.62 | 5.74 | 0.000 | 51.88 | 2.88 | 3.89 | 0.000 | 51.69 | 2.87 | 4.36 | 0.000 |
| Residuals | 248.00 | 95.39 | 0.38 |  |  | 153.44 | 0.62 |  |  | 156.40 | 0.63 |  |  | 183.53 | 0.74 |  |  | 163.23 | 0.66 |  |  |
| Total | 314.00 | 313.00 |  |  |  | 313.00 |  |  |  | 313.00 |  |  |  | 313.00 |  |  |  | 313.00 |  |  |  |

**Supplementary Table 6.** Standardized z-scores two-way ANOVA – 60 DAI

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source | df | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P | SS | MS | F | P |
| Principal Effects: |  | TL | | | | LA | | | | LA TL-1 | | | | MAA | | | | CII | | | |
| -Accession | 48.00 | 187.30 | 3.90 | 9.78 | 0.000 | 94.92 | 1.98 | 2.99 | 0.000 | 80.93 | 1.69 | 2.25 | 0.000 | 76.10 | 1.59 | 2.19 | 0.000 | 73.08 | 1.52 | 2.16 | 0.000 |
| -Tray | 18.00 | 20.97 | 1.16 | 2.92 | 0.000 | 57.09 | 3.17 | 4.79 | 0.000 | 46.39 | 2.58 | 3.44 | 0.000 | 47.31 | 2.63 | 3.63 | 0.000 | 60.81 | 3.38 | 4.79 | 0.000 |
| Residuals | 248.00 | 98.98 | 0.40 |  |  | 164.12 | 0.66 |  |  | 185.90 | 0.75 |  |  | 179.67 | 0.72 |  |  | 174.81 | 0.70 |  |  |
| Total | 314.00 | 313.00 |  |  |  | 313.00 |  |  |  | 313.00 |  |  |  | 313.00 |  |  |  | 313.00 |  |  |  |

**Supplementary Table 7.** Results of both trials screening, mean values of z-score standardized TL, LA, LA TL-1 ratio, MAA and CII values at 30 and 60 DAI each.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Code | Total number of leaves (TL) | | Leaves affected (LA) | | LA TL-1 ratio | | Maximum Area Affected (MAA) | | Composite Infection Index (CII) | |
|  | 30 DAI | 60 DAI | 30 DAI | 60 DAI | 30 DAI | 60 DAI | 30 DAI | 60 DAI | 30 DAI | 60 DAI |
| *Capsicum annuum* | | | | | | | | | | |
| A-01 | -0.10 ABCDEFGH | -0.16 AB | -0.12 AB | -0.30 AB | -0.23 ABCD | -0.11 ABCDEFGH | -0.19 AB | -0.31 AB | -0.17 A | -0.26 ABC |
| A-02 | -0.68 AB | 0.17 ABCD | 0.95 B | 0.84 AB | 1.02 D | -0.67 ABC | -0.27 AB | 0.03 AB | -0.14 A | -0.07 ABC |
| A-03 | 0.04 ABCDEFGH | -0.10 AB | -0.19 AB | -0.01 AB | -0.15 ABCD | 0.09 ABCDEFGH | 0.17 AB | -0.22 AB | 1.03 AB | 0.61 ABC |
| A-04 | 0.77 CDEFGHIJK | 1.01 BCDEF | 0.49 AB | 1.67 B | 1.06 D | 1.58 I | -0.10 AB | -0.84 A | -0.41 A | -0.70 A |
| A-05 | -0.61 ABC | -0.25 AB | -0.02 AB | -0.46 A | -0.23 ABCD | -0.55 ABCD | -0.30 AB | -0.19 AB | 0.72 AB | 0.41 ABC |
| A-06 | 0.24 ABCDEFGHI | -0.54 AB | -0.62 AB | -0.30 AB | -0.57 ABCD | -0.05 ABCDEFGH | -0.56 A | -0.74 AB | -0.70 A | -0.85 A |
| A-07 | -0.64 ABC | -0.37 AB | -0.17 AB | -0.46 A | -0.33 ABCD | -0.76 AB | -0.51 A | -0.16 AB | 0.59 AB | 0.33 ABC |
| A-08 | 0.94 EFGHIJK | 1.67 CDEF | 0.78 AB | 0.51 AB | 0.75 BCD | 1.16 FGHI | -0.69 A | -0.85 A | -0.81 A | -0.98 A |
| A-09 | -0.46 ABCDE | -0.14 AB | 0.35 AB | 0.32 AB | 0.44 ABCD | -1.27 A | -0.34 AB | 2.16 C | 0.06 A | 1.54 BC |
| A-10 | 0.00 ABCDEFGH | -0.24 AB | -0.75 AB | -0.10 AB | -0.56 ABCD | -0.54 ABCD | 0.45 AB | 0.74 ABC | 0.23 AB | 0.61 ABC |
| A-12 | -0.64 ABC | -0.68 AB | -0.14 AB | -0.54 A | -0.40 ABCD | -0.60 ABC | -0.50 A | -0.09 AB | -0.31 A | -0.24 ABC |
| A-13 | -0.07 ABCDEFGH | 0.18 ABCD | -0.10 AB | 0.06 AB | -0.03 ABCD | -0.47 ABCDE | -0.02 AB | 0.24 AB | 0.36 AB | 0.31 ABC |
| A-14 | -0.64 ABC | -0.48 AB | 0.33 AB | -0.29 AB | 0.07 ABCD | -0.74 AB | 0.14 AB | 1.15 ABC | 0.38 AB | 0.97 ABC |
| A-16 | -0.99 A | -0.97 A | 0.68 AB | 0.61 AB | 0.84 CD | -0.71 AB | -0.58 A | 0.06 AB | -0.44 A | -0.20 ABC |
| A-17 | -0.27 ABCDEF | -0.17 AB | 0.03 AB | -0.03 AB | 0.02 ABCD | -0.23 ABCDEFG | 0.84 AB | 0.68 ABC | 0.36 AB | 0.62 ABC |
| A-18 | -0.33 ABCDEF | -0.34 AB | 0.03 AB | 0.19 AB | 0.14 ABCD | -0.61 ABC | -0.24 AB | 0.93 ABC | 1.99 B | 1.56 C |
| A-21 | -0.22 ABCDEFG | 0.17 ABCD | 0.78 AB | 1.00 AB | 1.13 D | -0.76 AB | 0.18 AB | 1.27 BC | -0.08 A | 0.83 ABC |
| A-22 | 0.02 ABCDEFGH | 0.41 ABCDE | 0.43 AB | 0.39 AB | 0.53 ABCD | -0.17 ABCDEFGH | -0.02 AB | -0.01 AB | 0.55 AB | 0.22 ABC |
| A-23 | -0.74 AB | -0.89 AB | -1.04 A | -0.91 A | -1.23 A | -0.70 AB | -0.82 A | -0.33 AB | -0.05 A | -0.28 ABC |
| CO-01 | -0.65 ABC | -0.34 AB | 0.04 AB | -0.08 AB | -0.01 ABCD | -0.56 ABCD | -0.31 AB | -0.05 AB | -0.13 A | -0.08 ABC |
| CO-02 | -0.94 A | -0.33 AB | 0.39 AB | -0.31 AB | 0.11 ABCD | -0.77 AB | -0.32 AB | 0.26 AB | -0.37 A | -0.10 ABC |
| CO-03 | -0.67 AB | -0.44 AB | 0.12 AB | 0.35 AB | 0.22 ABCD | -0.64 ABC | -0.16 AB | 0.41 AB | -0.05 A | 0.18 ABC |
| *C. annuum* var. *glabriusculum* | | | | | | | | | | |
| Ag-01 | 1.26 HIJK | -0.24 AB | -1.11 A | -0.62 A | -1.06 ABC | 0.90 EFGHI | -0.01 AB | -0.76 AB | -0.63 A | -0.79 A |
| Ag-02 | 0.67 BCDEFGHIJK | -0.25 AB | -0.62 AB | -0.59 A | -0.73 ABCD | 0.68 BCDEFGHI | 0.65 AB | 0.09 AB | -0.34 A | -0.14 ABC |
| Ag-03 | -0.42 ABCDE | -0.08 AB | 0.54 AB | 0.28 AB | 0.55 ABCD | 0.03 ABCDEFGH | 0.71 AB | 0.28 AB | -0.44 A | -0.04 ABC |
| Ag-04 | 1.04 FGHIJK | 0.79 ABCDEF | -0.29 AB | -0.12 AB | -0.26 ABCD | 0.12 ABCDEFGH | 1.04 AB | 0.41 AB | 0.04 A | 0.28 ABC |
| Ag-06 | 1.47 IJK | 2.03 F | 0.13 AB | -0.14 AB | 0.02 ABCD | 3.10 J | 2.29 C | -0.07 AB | 0.97 AB | 0.37 ABC |
| *C. baccatum* | | | | | | | | | | |
| B-01 | 0.02 ABCDEFGH | 0.75 ABCDEF | 0.81 AB | 0.28 AB | 0.67 ABCD | 0.04 ABCDEFGH | 0.14 AB | -0.16 AB | -0.79 A | -0.61 A |
| B-02 | 0.79 CDEFGHIJK | -0.46 AB | -0.69 AB | -0.10 AB | -0.53 ABCD | 1.26 HI | 0.43 AB | -0.14 AB | 0.32 AB | 0.16 ABC |
| B-03 | 0.25 ABCDEFGHIJ | 0.70 ABCDEF | 0.19 AB | 0.71 AB | 0.44 ABCD | 0.13 ABCDEFGH | -0.43 AB | -0.69 AB | -0.48 A | -0.66 A |
| B-04 | 1.15 GHIJK | -0.10 AB | -0.53 AB | -0.13 AB | -0.44 ABCD | 0.78 CDEFGHI | 0.25 AB | -0.42 AB | 0.13 A | -0.11 ABC |
| B-05 | -0.31 ABCDEF | -0.24 AB | 0.16 AB | 0.57 AB | 0.35 ABCD | 0.31 BCDEFGHI | -0.26 AB | -0.57 AB | -0.40 A | -0.56 A |
| B-07 | 0.84 DEFGHIJK | 0.56 ABCDEF | 0.03 AB | -0.09 AB | -0.03 ABCD | 0.87 DEFGHI | 0.85 AB | -0.09 AB | 0.92 AB | 0.60 ABC |
| B-09 | 0.39 ABCDEFGHIJ | -0.02 ABC | -0.18 AB | 0.26 AB | -0.02 ABCD | 1.10 FGHI | 0.29 AB | -0.61 AB | 0.09 A | -0.23 ABC |
| B-10 | -0.22 ABCDEFG | 0.20 ABCD | 0.15 AB | 0.00 AB | 0.09 ABCD | 0.04 ABCDEFGH | 0.17 AB | 0.01 AB | 0.52 AB | 0.30 ABC |
| B-11 | 0.02 ABCDEFGH | 0.01 ABC | -0.08 AB | -0.51 A | -0.34 ABCD | 0.02 ABCDEFGH | -0.35 AB | -0.24 AB | -0.53 A | -0.45 AB |
| B-12 | 0.20 ABCDEFGHI | 0.58 ABCDEF | 0.05 AB | 0.68 AB | 0.44 ABCD | -0.19 ABCDEFG | -0.20 AB | -0.22 AB | 0.96 AB | 0.26 ABC |
| B-13 | 0.14 ABCDEFGH | 0.86 ABCDEF | 0.74 AB | 0.02 AB | 0.54 ABCD | 0.32 BCDEFGHI | -0.74 A | -0.68 AB | 0.27 AB | -0.39 ABC |
| B-14 | 1.78 K | 1.83 EF | -0.20 AB | -0.09 AB | -0.18 ABCD | 0.58 BCDEFGHI | 0.26 AB | -0.21 AB | -0.15 A | -0.25 ABC |
| B-15 | 0.25 ABCDEFGHIJ | 0.10 ABC | -0.51 AB | -0.40 A | -0.57 ABCD | -0.26 ABCDEF | 0.00 AB | 0.04 AB | 0.24 AB | 0.11 ABC |
| *C. chinense* | | | | | | | | | | |
| C-01 | 0.07 ABCDEFGH | -0.45 AB | -0.60 AB | -0.25 AB | -0.54 ABCD | 0.23 BCDEFGHI | -0.14 AB | -0.43 AB | -0.11 A | -0.28 ABC |
| C-02 | -0.37 ABCDEF | -0.46 AB | 0.27 AB | -0.19 AB | 0.10 ABCD | -0.81 AB | -0.07 AB | 0.60 AB | 0.35 AB | 0.52 ABC |
| C-03 | 1.55 JK | 1.77 DEF | 0.32 AB | 0.14 AB | 0.27 ABCD | 1.16 FGHI | 1.49 BC | 0.02 AB | 0.18 AB | 0.15 ABC |
| C-04 | 0.78 CDEFGHIJK | 0.11 ABC | -0.10 AB | -0.24 AB | -0.19 ABCD | 0.58 BCDEFGHI | 0.55 AB | -0.27 AB | -0.43 A | -0.42 ABC |
| C-05 | 0.88 DEFGHIJK | -0.77 AB | -1.07 A | -0.93 A | -1.17 AB | 0.64 BCDEFGHI | 0.39 AB | -0.11 AB | -0.29 A | -0.24 ABC |
| C-06 | -0.55 ABCD | -0.27 AB | 0.55 AB | 0.27 AB | 0.55 ABCD | -0.13 ABCDEFGH | -0.04 AB | -0.01 AB | -0.60 A | -0.32 ABC |
| *C. frutescens* | | | | | | | | | | |
| F-01 | 1.23 HIJK | 0.04 ABC | -0.42 AB | -0.26 AB | -0.42 ABCD | 0.79 CDEFGHI | 0.77 AB | -0.24 AB | 0.18 AB | 0.01 ABC |
| *C. pubescens* | | | | | | | | | | |
| P-01 | 0.19 ABCDEFGHI | 0.36 ABCDE | 0.32 AB | 0.47 AB | 0.51 ABCD | 1.20 GHI | -0.90 A | -0.70 AB | -0.26 A | -0.66 A |
| P-02 | 0.03 ABCDEFGH | -0.12 AB | -0.68 AB | 0.86 AB | 0.04 ABCD | 0.57 BCDEFGHI | -0.79 A | -0.81 AB | -0.12 A | -0.67 A |

\*Different letters within columns (ABCDEFGHIJK) mean significant differences (SNK test, p < 0.05).