|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cultivar (Cab) | Treatment(Moisture content, %) | *Ki* | Slope (1/*σ*) | *p*50(days) |
| estimate | s.e | estimate | s.e | estimate | s.e. | lower 95% | upper 95% |
| Aeron 1(Cab 1) | T1 (14.6) | 5.52 | 0.56 | 0.344 | 0.035 | 16.1 | 0.33 | 15.4 | 16.7 |
| T2 (15.0) | 5.58 | 0.55 | 0.394 | 0.038 | 14.2 | 0.30 | 13.6 | 14.8 |
| T3 (15.2) | 4.68 | 0.46 | 0.323 | 0.031 | 14.5 | 0.33 | 13.8 | 15.1 |
| T4 (15.3) | 3.32 | 0.27 | 0.211 | 0.016 | 15.7 | 0.41 | 14.9 | 16.5 |
| T5 (15.3) | 2.83 | 0.24 | 0.217 | 0.017 | 13.1 | 0.40 | 12.3 | 13.8 |
| T6 (15.3) | 5.25 | 0.54 | 0.388 | 0.040 | 13.5 | 0.30 | 12.9 | 14.1 |
| Aeron 1(Cab 2) | T1 (14.8) | 7.30 | 0.68 | 0.502 | 0.047 | 14.5 | 0.28 | 14.0 | 15.1 |
| T2 (14.9) | 4.72 | 0.45 | 0.298 | 0.028 | 15.9 | 0.35 | 15.2 | 16.5 |
| T3 (15.0) | 2.83 | 0.24 | 0.224 | 0.018 | 12.6 | 0.40 | 11.9 | 13.4 |
| T4 (15.5) | 2.85 | 0.24 | 0.220 | 0.018 | 12.9 | 0.40 | 12.2 | 13.7 |
| T5 (14.8) | 1.91 | 0.16 | 0.169 | 0.012 | 11.4 | 0.46 | 10.5 | 12.2 |
| T6 (14.8) | 3.98 | 0.27 | 0.150 | 0.010 | 26.5 | 0.47 | 25.6 | 27.5 |
| Gleva(Cab 1) | T1 (15.1) | 4.21 | 0.39 | 0.300 | 0.027 | 14.0 | 0.39 | 13.3 | 14.8 |
| T2 (14.7) | 2.41 | 0.23 | 0.246 | 0.022 | 9.8 | 0.40 | 9.1 | 10.6 |
| T3 (15.1) | 1.48 | 0.18 | 0.324 | 0.031 | 4.6 | 0.33 | 3.9 | 5.2 |
| T4 (15.2) | 1.43 | 0.17 | 0.292 | 0.027 | 4.9 | 0.40 | 4.2 | 5.6 |
| T5 (15.0) | -0.32 | 0.12 | 0.124 | 0.018 | -2.5 | 1.32 | -5.7 | -0.6 |
| T6 (15.5) | 2.70 | 0.30 | 0.376 | 0.039 | 7.2 | 0.31 | 6.6 | 7.8 |
| Gleva(Cab 2) | T1 (15.0) | 2.41 | 0.18 | 0.182 | 0.013 | 13.3 | 0.46 | 12.4 | 14.2 |
| T2 (14.6) | 2.19 | 0.24 | 0.341 | 0.034 | 6.4 | 0.32 | 5.8 | 7.0 |
| T3 (14.9) | 1.27 | 0.13 | 0.152 | 0.011 | 8.3 | 0.51 | 7.4 | 9.3 |
| T4 (15.1) | 1.89 | 0.17 | 0.194 | 0.015 | 9.8 | 0.44 | 8.9 | 10.6 |
| T5 (14.5) | 0.12 | 0.11 | 0.137 | 0.016 | 0.9 | 0.80 | -0.9 | 2.2 |
| T6 (14.8) | 2.03 | 0.22 | 0.312 | 0.029 | 6.5 | 0.34 | 5.8 | 7.1 |

**Supplementary Table 1.** Seed longevity (parameters of seed viability equation fitted by probit analysis; Ellis and Roberts (1980)) of Indica(cv. Aeron 1)and Japonica(cv. Gleva)rice harvested 42 DAA from growth cabinets (Cab) 1 or 2 (Experiment 4). Plants were grown at 28/20oC (11h/13h, 11 hd-1 photoperiod): with irrigation throughout (T1); subjected to high temperature (HT) at 0-3 DAA (T2); irrigation stopped at 14 DAA (T3); combination of HT at 0-3 DAA and drought at 14 DAA (T4); HT at 14-17 DAA with drought at 14 DAA (T5); or HT at 14 DAA (T6) and stored hermetically at 40℃ with the seed moisture contents shown. The 95% confidence intervals are shown for *p*50. Negative estimates of *p*50 are shown where initial viability was less than 50% and were provided by extrapolation back to 50% viability.