Supplementary Table 2. Parameter estimates of intercept, slope and time for viability to fall to 50% (*p*50) from the results of probit analysis to fit equation 2 to the germination data for seeds equilibrated at 30, 40, 50, 60 and 70% RH. The estimates shown are from fitting the common intercept model (Supplementary Table 1) within each sorption.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sorption cycle | Accepted model | RH (%) | MC (% f.wt.) | *K*­i (estimate and s.e.; NED) | Slope (estimate and s.e.; NED day-1) | Sigma (days);  -1/slope | *p*50(estimate and s.e.; days) |
| Oilseed rape | | | | | | | |
| Desorption 1 | Common intercept | 32.4 | 5.0 | 3.91 (0.15) | -0.0294 (0.0014) | 34.0 | 132.7 (2.8) |
| 40.5 | 5.6 | -0.0587 (0.0022) | 17.0 | 66.6 (1.0) |
| 50.9 | 6.6 | -0.0881 (0.0040) | 11.4 | 44.3 (1.2) |
| 60.9 | 7.4 | -0.1747 (0.0072) | 5.7 | 22.4 (0.5) |
| 66.9 | 8.4 | -0.2579 (0.0111) | 3.9 | 15.2 (0.4) |
| Adsorption 1 | Common intercept | 32.9 | 4.6 | 3.33 (0.13) | -0.0169 (0.0011) | 59.2 | 196.7 (7.6) |
| 42.5 | 5.3 | -0.0350 (0.0015) | 28.6 | 95.2 (2.3) |
| 51.4 | 6.0 | -0.0710 (0.0025) | 14.1 | 46.9 (0.8) |
| 62.5 | 7.2 | -0.1109 (0.0045) | 9.0 | 30.0 (0.73) |
| 68.8 | 8.1 | -0.1891 (0.0081) | 5.3 | 17.6 (0.4) |
| Desorption 2 | Common intercept | 32.7 | 5.1 | 2.84 (0.10) | -0.0229 (0.0010) | 43.7 | 123.9 (3.4) |
| 42.3 | 5.7 | -0.0414 (0.0017) | 24.2 | 68.6 (1.5) |
| 52.3 | 6.7 | -0.0869 (0.0035) | 11.5 | 32.7 (0.7) |
| 60.5 | 7.5 | -0.1729 (0.0057) | 5.8 | 16.4 (0.3) |
| 68.1 | 8.5 | -0.2689 (0.0105) | 3.7 | 10.6 (0.3) |
| Adsorption 2 | Common intercept | 34.6 | 4.5 | 3.20 (0.11) | -0.0187 (0.0008) | 53.5 | 170.5 (3.5) |
| 42.9 | 5.2 | -0.0311 (0.0014) | 32.2 | 102.8 (2.1) |
| 50.3 | 6.1 | -0.0643 (0.0025) | 15.6 | 49.7 (1.0) |
| 61.5 | 7.1 | -0.1189 (0.0046) | 8.4 | 26.9 (0.6) |
| 68.3 | 8.1 | -0.2939 (0.0132) | 3.4 | 10.9 (0.4) |
| Barley | | | | | | | |
| Desorption 1 | Common intercept | 35.5 | 8.4 | 2.30 (0.10) | -0.0455 (0.0025) | 22.0 | 50.5 (1.6) |
| 39.5 | 9.3 | -0.0852 (0.0037) | 11.7 | 26.9 (0.8) |
| 48.6 | 11.0 | -0.3089 (0.0156) | 3.2 | 7.4 (0.3) |
| 57.8 | 12.2 | -0.4593 (0.0238) | 2.2 | 5.0 (0.2) |
| 66.1 | 13.9 | -0.8768 (0.0550) | 1.1 | 2.6 (0.1) |
| Adsorption 1 | Common intercept | 35.5 | 7.7 | 2.70 (0.10) | -0.0243 (0.0010) | 41.2 | 110.9 (2.8) |
| 40.8 | 8.6 | -0.0459 (0.0031) | 21.8 | 58.9 (2.6) |
| 45.8 | 9.9 | -0.1339 (0.0052) | 7.5 | 20.2 (0.5) |
| 58.3 | 11.3 | -0.2998 (0.0140) | 3.3 | 9.0 (0.3) |
| 67.1 | 12.7 | -0.4510 (0.0172) | 2.2 | 6.0 (0.1) |
| Desorption 2 | Common intercept | 33.3 | 8.9 | 2.61 (0.11) | -0.0546 (0.0025) | 18.3 | 47.8 (1.4) |
| 41.1 | 9.9 | -0.0934 (0.0044) | 10.7 | 27.9 (0.8) |
| 51.7 | 11.3 | -0.2197 (0.0118) | 4.6 | 11.9 (0.4) |
| 58.4 | 12.6 | -0.3390 (0.0145) | 2.9 | 7.7 (0.2) |
| 66.9 | 13.9 | -0.7699 (0.0410) | 1.3 | 3.4 (0.2) |
| Adsorption 2 | Common intercept | 34.6 | 7.9 | 2.34 (0.09) | -0.0234 (0.0019) | 42.7 | 100.0 (6.4) |
| 40.3 | 8.9 | -0.0402 (0.0028) | 24.9 | 58.1 (2.7) |
| 48.0 | 10.1 | -0.0985 (0.0046) | 10.2 | 23.7 (0.7) |
| 58.5 | 11.5 | -0.2183 (0.0104) | 4.6 | 10.7 (0.3) |
| 65.5 | 12.8 | -0.3225 (0.0135) | 3.1 | 7.2 (0.2) |