**Supplementary information**

Appendix A.Factorial ANOVA scores for germination rate (using temperature and exposure time as independent variables) as Kruskal-Wallis scores for mean germination time, for both temperature and exposure time . Tests performed for a set of six native Cerrado grass species and four invasive species (\*).*df* = degrees of freedom; *S =* sum of squares; *M* = mean of squares.

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|  |  | 2-factor ANOVA |  | Kruskal-Wallis |
|  |  | Germination |  | Mean germination time |
| Species | Variables | *df* | *S* | *M* | F | P |   | df | H | P |
| *Andropogon gayanus\** | temperature |  6 |  28.120 | 0.47 |  203.14 | <0.001 |   |  6 | 24.48 | <0.001 |
| time |  1 | 0.01 | 0.01 |  2.63 |  0.112 |  |  1 | 2.70 |  0.259 |
| temperature × time |  6 | 0.04 | 0.01 |  2.84 |  0.021 |  |  - | - | - |
| residuals | 42 | 0.10 | 0.00 | - | - |   | - | - | - |
| *Hyparrhenia rufa \** | temperature |  6 |  10.59 | 1.76 | 116.94 | <0.001 |   |  6 |  11.143 | <0.001 |
| time |  1 | 0.03 | 0.02 |  1.91 |  0.174 |  |  1 |  2.70 |  0.548 |
| temperature × time |  6 | 0.07 | 0.01 |  0.77 |  0.597 |  |  - | - | - |
| residuals | 42 | 0.63 | 0.02 | - | - |   | - | - | - |
| *Melinis minutiflora\** | temperature |  6 | 1.19 | 0.20 | 44.27 | <0.001 |  |  6 | 28.53 |  <0.001 |
| time |  1 | 0.02 | 0.02 |  3.45 |  0.070 |  |  1 | 0.105 | 0.746 |
| temperature × time |  6 | 0.05 | 0.01 |  1.94 |  0.096 |  |  - | - | - |
| residuals | 42 | 0.19 | 0.00 |   |   |   | - | - | - |
| *Urochloa decumbens\** | temperature |  6 | 5.03 | 0.84 | 920.07 | <0.001 |  |  6 | 12.57 | 0.006 |
| time |  1 | 0.01 | 0.01 | 6.89 | 0.121 |  |  1 |  1.46 |  0.226 |
| temperature × time |  6 | 0.04 | 0.01 | 8.24 | <0.001 |  |  - | - | - |
| residuals | 42 | 0.04 | 0.00 | - | - |   | - | - | - |
| *Echinolaena inflexa* | temperature |  6 | 0.44 | 0.07 | 6.47 | <0.001 |  |  6 | 15.81 | 0.001 |
| time |  1 | 0.00 | 0.00 | 0.26 |  0.610 |  |  1 |  0.01 |  0.920 |
| temperature × time |  6 | 0.01 | 0.00 | 0.10 |  0.996 |  |  - | - | - |
| residuals | 42 | 0.48 | 0.13 | - | - |   | - | - | - |
| *Paspalum gardnerianum* | temperature |  6 | 1840.40 | 306.7 | 83.18 | <0.001 |  |  6 | 2.55 | 0.636 |
| time |  1 |  2.51 | 2.51 | 0.68 | 0.414 |  |  1 | 0.35 |  0.555 |
| temperature × time |  6 |  13.00 | 2.17 | 0.59 | 0.738 |  |  - | - | - |
| residuals | 42 |  154.90 | 3.69 | - | - |   | - | - | - |
| *Paspalum reduncum* | temperature |  6 | 11.74 | 1.96 | 30.32 | <0.001 |  | 6 | 15.26 | 0.004 |
| time |  1 |  0.22 | 0.23 |  3.48 |  0.086 |  | 1 |  1.08 |  0.299 |
| temperature × time |  6 |  0.78 | 0.13 |  2.01 |  0.086 |  |  - | - | - |
| residuals | 42 |  2.71 | 0.06 | - | - |   | - | - | - |
| *Paspalum stellatum* | temperature |  6 | 7.25 | 1.21 | 143.91 | <0.001 |  |  6 | 4.52 | 0.340 |
| time |  1 | 0.00 | 0.00 | 0.02 | 0.887 |  |  1 | 3.72 | 0.053 |
| temperature × time |  6 | 0.03 | 0.00 | 1.52 | 0.792 |  |  - | - | - |
| residuals | 42 | 0.35 | 0.01 |   |   |   | - | - | - |
| *Paspalum trachycoleon* | temperature |  6 | 7.89 | 1.32 | 47.12 | <0.001 |  | 6 | 26.32 | <0.001 |
| time |  1 | 0.00 | 0.00 |  0.03 |  0.863 |  | 1 |  0.79 | 0.376 |
| temperature × time |  6 | 0.12 | 0.02 |  0.69 |  0.662 |  |  - | - | - |
| residuals | 42 | 1.17 | 0.03 | - | - |   | - | - | - |
| *Schizachyrium sanguineum* | temperature |  6 | 20.43 | 3.40 | 226.30 | <0.001 |  |  6 | 28.78 | <0.001 |
| time |  1 |  0.00 | 0.00 |  0.01 |  0.926 |  |  1 |  0.89 |  0.346 |
| temperature × time |  6 |  0.05 | 0.01 |  0.51 |  0.796 |  |  - | - | - |
| residuals | 42 |  0.63 | 0.02 | - | - |   | - | - | - |