**S5 File.** **Statistics of stomatal conductance.** Statistical analysis of the drought stress experiment as a function of the stomatal conductance values.

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| **HOMOGENEITY OF VARIANCE** |
| Bartlett | X2 = 399.466\*\* | P < 0.01 |
| **NORMALITY OF DATA** |
| Lilliefors | D = 0.2038 \*\* | P < 0.01 |
| **ANALYSIS OF VARIANCE** |
| ANOVA (F) | F = 62.99 *\*\** | P < 0.0001 |
| Kruskal-Wallis | H = 280.63 \*\* | P < 0.0001 |
| **CONTRAST OF MEAN** |
| Drought stress + Irradiance1 | Mean2 | Tukey | t | Dunn | SNK |
| T1 - Control + 1400 | 0.122 |  a |  a | a |  a |
| T2 - Moderate + 1400 | 0.029 |  b |  b |  b |  b |
| T3 - Severe + 1400 | 0.017 |  b |  b |  b |  c |

1 Irradiance value in μmol of photons s-1 m-2

2 Mean value in mol m-2 s-1

\*\* Significance level α = 0.01