**S7 Table. Estimates of variance components and standard deviation (in parentheses) from prediction models for root volume.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Treatment** |  |  |  |  |  |
| ***GB*** |  |  |  |  |  |
| N stress | 1.49 (0.56) | 1.55 (0.45) | - | - | 6.04 (0.65) |
| N stress + *Azospirillum* | 3.49 (1.23) | 1.74 (0.47) | - | - | 5.68 (0.61) |
| ***GB + GE*** |  |  |  |  |  |
| N stress | 1.05 (0.45) | 1.20 (0.41) | 0.68 (0.28) | 1.40 (0.41) | 4.93 (0.72) |
| N stress + *Azospirillum* | 2.69 (1.14) | 1.37 (0.43) | 0.92 (0.40) | 1.36 (0.43) | 4.67 (0.63) |
| ***GK*** |  |  |  |  |  |
| N stress | 0.46 (0.47) | 2.24 (0.92) | - | - | 6.12 (0.66) |
| N stress + *Azospirillum* | 3.39 (1.44) | 1.64 (0.77) | - | - | 6.06 (0.64) |
| ***GK + GE*** |  |  |  |  |  |
| N stress | 0.20 (0.29) | 1.75 (0.83) | 0.19 (0.17) | 1.51 (0.70) | 5.52 (0.71) |
| N stress + *Azospirillum* | 2.95 (1.47) | 1.35 (0.91) | 0.24 (0.22) | 1.39 (0.52) | 5.45 (0.67) |

: General Combining Ability (GCA), : Specific Combining Ability (SCA), : GCA x environment interaction, : SCA x environment interaction, and : residual. Prediction models: GB: GBLUP , GB + GE: GBLUP + GE, GK: Gaussian Kernel, and GK + GE: Gaussian Kernel + GE.