**S9 Table. Estimates of variance components and standard deviation (in parentheses) from prediction models for specific root length.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Treatment** |  |  |  |  |  |
| ***GB*** |  |  |  |  |  |
| N stress | 61,037.77  (23,836.21) | 91,452.32  (29,164.38) | - | - | 324,387.30 (36,455.43) |
| N stress + *Azospirillum* | 120,392.80  (44,514.44) | 65,691.42  ( 20,210.64) | - | - | 338,562.50  (35,389.73) |
| ***GB + GE*** |  |  |  |  |  |
| N stress | 42,513.56  (20,385.99) | 75,563.97  ( 28,490.71) | 37,032.54  (15,235.62) | 64,311.60  (27,011.56) | 259,269.70  (38,145.20) |
| N stress + *Azospirillum* | 94,805.63  (41,581.98) | 49,074.92  (17,461.34) | 32,478.37  (15,162.41) | 51,116.82 (18,632.54) | 307,349.20  (37,073.20) |
| ***GK*** |  |  |  |  |  |
| N stress | 9,464.56  (11,067.73) | 120,500.50  (48,872.90) | - | - | 346,739.90 (39794.01) |
| N stress + *Azospirillum* | 116,164.40  (57,104.10) | 69,702.99  (37,091.26) | - | - | 339,307.00  (34,874.36) |
| ***GK + GE*** |  |  |  |  |  |
| N stress | 4,960.72  (6,914.57) | 90,530.97  (47,986.61) | 9,794.91  (10,272.81) | 82,924.39 (42,624.66) | 301,820.00  (43,569.28) |
| N stress + *Azospirillum* | 95,988.61  (59,673.97) | 57,835.98  (43,314.62) | 8,357.87  (12,662.27) | 70,370.65 (31,853.05) | 306,469.00 (36,979.57) |

: 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.