**S3 Table. Diallel analysis of maize hybrids evaluated under N stress plus *Azospirillum brasilense*.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Effects** | **PH** | **SDM** | **RDM** | **LRL** | **ARL** | **RV** | **RAD** | **SRL** | **SRSA** | **RSR** |
| ***Fixed*** |  |  |  |  |  |  |  |  |  |  |
| Year (Y) | 1068.0\*\* | 376.9\*\* | 20.5\*\* | 18.4\*\* | 0.5 | 6.7\*\* | 47.0\*\* | 11.9\*\* | 69.4\*\* | 432.3\*\* |
| Block/Year | 30.0\*\* | 1.3 | 9.8\* | 19.1\*\* | 5.9 | 27.4\*\* | 109.0\*\* | 36.0\*\* | 22.1\*\* | 24.0\*\* |
| Countertop/Block | 297.0\*\* | 90.9\*\* | 89.3\*\* | 100.4\*\* | 107.7\*\* | 95.9\*\* | 3.0 | 7.8 | 13.5\* | 55.9\*\* |
| ***Random*** |  |  |  |  |  |  |  |  |  |  |
| GCA | 3.7\* | 0.4 | 9.3\*\* | 7.0\*\* | 10.9\*\* | 16.0\*\* | 18.0\*\* | 16.9\*\* | 13.7\*\* | 12.5\*\* |
| GCA x Y | 0.4 | -3.6 x 10-6 | 2.8 | 3.9\* | 9.5\*\* | 2.6 | 0.2 | 3.2 x 10-7 | 2.4 x 10-2 | 2.3 |
| SCA | 0.3 | -1.5 x 10-5 | 0.2 | 3.1 x 10-3 | 3.2 | 1.5 | 7.7 x 10-2 | 9.0 x 10-7 | 0.5 | 3.5 x 10-2 |
| SCA x Y | -1.3 x 10-6 | -1.3 x 10-5 | -1.1 x 10-6 | 4.1 x 10-4 | -9.9 x 10-7 | -1.5 x 10-5 | 0.6 | -6.4 x 10-7 | -7.3 x 10-7 | 0.5 |

PH: plant height, SDM: shot dry mass, RDM: root dry mass, LRL: lateral root length, ARL: axial root length, RV: root volume, RAD: root average diameter, SRL: specific root length, SRSA: specific root surface area, and RSR: root shoot ratio. Significant at 5% (\*) or 1% (\*\*) level.