**Table 3.** Analysis of variance for yield and floral traits of TGMS lines

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Source of variation** | **Genotype** | **Replication** | **Error** |
| 1 | Degrees of freedom | 56 | 2 | 112 |
| 2 | Days to 50% flowering | 650.90\*\* | 15.88 | 33.42 |
| 3 | Plant height (cm) | 163.58\*\* | 17.65 | 18.96 |
| 4 | Number of productive tillers per plant | 35.37\*\* | 0.22 | 0.91 |
| 5 | Panicle exertion (%) | 77.80\*\* | 23.16 | 11.57 |
| 6 | Panicle length (cm) | 17.88\*\* | 2.12 | 1.51 |
| 7 | Number of grains per panicle (g) | 8350.28\*\* | 89.15 | 52.53 |
| 8 | Single plant yield (g) | 229.31\*\* | 4.94 | 1.97 |
| 9 | Pollen sterility (%) | 1482.21\*\* | 4.56 | 17.76 |
| 10 | Pollen fertility (%) | 888.83\*\* | 3.59 | 10.28 |
| 11 | Spikelet ferility | 196.63\*\* | 14.84 | 7.64 |
| 12 | Stigma length (mm) | 0.20\*\* | 0.01 | 0.01 |
| 13 | Stigma exertion (%) | 368.57\*\* | 27.10 | 3.84 |
| 14 | Glume angle (0) | 117.44\*\* | 0.42 | 1.60 |
|  | | | | |

\*\* statistically significant at **p = 0.05**, implying that the observed differences in the traits between genotypes are statistically significant and unlikely to be due to random variation.