

Table 2 Mean square effect of UV radiation on agronomic characters of maize

| Source of variation | df  | Days to plant emergence | Plant stand          | Plant aspect         | Mutation tolerance   | Ear aspect           | Plant husk           | Ear harvest          | Plant harvest        |
|---------------------|-----|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Corrected model     | 12  | 8.79 <sup>**</sup>      | 5.07 <sup>*</sup>    | 4.00 <sup>ns</sup>   | 15.13 <sup>*</sup>   | 7.08 <sup>**</sup>   | 8.20 <sup>**</sup>   | 7.36 <sup>**</sup>   | 11.57 <sup>**</sup>  |
| Intercept           | 12  | 2028.00 <sup>**</sup>   | 359.34 <sup>**</sup> | 303.34 <sup>**</sup> | 800.33 <sup>**</sup> | 189.34 <sup>**</sup> | 240.01 <sup>**</sup> | 243.00 <sup>**</sup> | 363.00 <sup>**</sup> |
| Replicate           | 2   | 0.75 <sup>ns</sup>      | 1.23 <sup>ns</sup>   | 1.40 <sup>ns</sup>   | 2.86 <sup>ns</sup>   | 2.07 <sup>ns</sup>   | 1.12 <sup>ns</sup>   | 5.36 <sup>ns</sup>   | 4.11 <sup>ns</sup>   |
| Periods of exposure | 5   | 3.49 <sup>ns</sup>      | 0.79 <sup>ns</sup>   | 1.03 <sup>ns</sup>   | 2.67 <sup>ns</sup>   | 7.83 <sup>*</sup>    | 11.61 <sup>**</sup>  | 6.00 <sup>*</sup>    | 12.56 <sup>*</sup>   |
| Cultivars           | 5   | 17.31 <sup>**</sup>     | 10.88 <sup>**</sup>  | 7.77 <sup>**</sup>   | 32.51 <sup>**</sup>  | 8.34 <sup>*</sup>    | 7.63 <sup>*</sup>    | 9.51 <sup>*</sup>    | 13.58 <sup>**</sup>  |
| Error               | 95  | 2.89                    | 2.52                 | 2.39                 | 6.46                 | 2.68                 | 2.49                 | 3.00                 | 3.37                 |
| Total               | 108 |                         |                      |                      |                      |                      |                      |                      |                      |
| Corrected total     | 107 |                         |                      |                      |                      |                      |                      |                      |                      |

<sup>\*\*</sup>p<0.01 highly significant, <sup>\*</sup>p< 0.05 significant, ns= non-significant