**S2 Table**. **Sum of squares of the ANOVA for the quantitative agromorphological and the grain quality traits for 183 landraces of the subsp. *durum*, *turgidum* and *dicoccon* evaluated in four environments.**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of variation | Subspecies | Environment | Subspecies x Environment |
|  | Quantitative agromorphological traits |
| Days to heading | 5024\*\* | 98185\*\* | 389\*\* |
| Plant height (cm) | 11365\*\* | 34964\*\* | 853 |
| Spikelets per spike (number) | 885\*\* | 263\*\* | 6.38 |
| Days to maturity | 554\*\* | 35827\*\* | 40.7 |
| Δ13C | 5.22\*\* | 4.55\*\* | 0.59 |
| Spike length (cm)a | 13624\*\* | - | - |
|  | Grain quality traits |
| Protein content (%) | 79.1\*\* | 0.05 | 21.8 |
| Gluten strength (mm) | 21.8\* | 16.9\* | 0.20 |
| Vitreousness (%) | 1612\*\* | 1527\*\* | 3918\*\* |
| Yellow Index  | 155\*\* | 77.5\*\* | 1.67 |
| Thousand kernel weight (g) | 1307\*\* | 212\* | 760\*\* |
| Test weight (kg/hl)  | 41.3\*\* | 660\*\* | 34.5\*\* |

\*, \*\* significant at *P*<0.05 and *P*<0.01, respectively

a evaluated at one location