**Supplementary material**

**Table S1** Principal component analysis of ten *T. boeoticum* accessions subjected to non-stress and moisture stress conditions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Characters | Abbreviation | PC1 | PC2 | PC3 |
| Days to heading | DTH | -0.229 | 0.103 | 0.194 |
| Days to anthesis | DTA | -0.224 | 0.104 | 0.180 |
| Days to maturity | DTM | -0.100 | 0.144 | 0.232 |
| Grain filling period | GFP | 0.150 | 0.139 | -0.312 |
| Chlorophyll content | SPAD | 0.099 | 0.042 | 0.054 |
| Plant height | PH | 0.154 | 0.144 | -0.258 |
| Peduncle length | PEL | 0.179 | -0.070 | -0.235 |
| Main spike length | MSL | 0.116 | 0.304 | 0.016 |
| Fertile spike number per plant plants | FSNPP | 0.033 | 0.248 | 0.175 |
| Spikelet number per spike | SNPS | 0.033 | 0.281 | 0.146 |
| Seed number per main spike | SNPMS | 0.033 | 0.281 | 0.146 |
| Seed number per plant | SNPP | 0.040 | 0.279 | 0.193 |
| Main spike weight | MSW | 0.133 | 0.219 | -0.220 |
| Seed weight per main spike | SWPMS | 0.131 | 0.223 | -0.225 |
| 1000-grain weight | TGW | 0.094 | 0.046 | -0.290 |
| Economic yield per plant | EYPP | 0.155 | 0.253 | 0.091 |
| Biological yield per plant | BYPP | 0.052 | 0.308 | 0.048 |
| Plant harvest index | PHI | 0.244 | -0.070 | 0.044 |
| Leaf area index | LAI | 0.144 | 0.213 | -0.161 |
| Relative water content | RWC | -0.084 | 0.200 | 0.078 |
| Excised leaf water retention | ELWR | -0.169 | -0.142 | 0.157 |
| Water use | WU | -0.175 | 0.106 | 0.283 |
| Water use efficiency | WUE | 0.202 | 0.219 | -0.021 |
| Main root length | MRL | -0.239 | -0.020 | -0.045 |
| Root volume | RV | -0.269 | 0.115 | -0.174 |
| Root fresh weight | RFW | -0.255 | 0.131 | -0.203 |
| Root diameter | RD | -0.254 | 0.143 | -0.175 |
| Root dry weight | RDW | -0.254 | 0.130 | -0.205 |
| Root area density | RAD | -0.266 | 0.145 | -0.166 |
| Root area | RA | -0.275 | 0.131 | -0.135 |
| Root to shoot dry weight ratio | RDW/MSDW | -0.210 | -0.028 | -0.284 |
| Percent of variation (%) |  | 29.9 | 26.2 | 18.2 |
| Cumulative variation (%) |  | 29.9 | 56.1 | 74.3 |