**Table S4:** Principal component analysis based on 14 quantitative and 10 qualitative traits of 217 ground nut accessions (bold values indicate the most relevant characters (>0.30) that contribute to the variation of the components).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Trait** | **Prin1** | **Prin2** | **Prin3** | **Prin4** | **Prin5** | **Prin6** | **Prin7** |
| DFF | **0.349** | 0.066 | -0.177 | -0.008 | 0.131 | -0.186 | -0.059 |
| LL | **-0.355** | 0.207 | -0.180 | -0.003 | -0.042 | 0.008 | -0.076 |
| LW | -0.226 | 0.292 | **-0.351** | -0.018 | -0.082 | -0.014 | -0.146 |
| PH | **-0.342** | 0.101 | -0.030 | 0.157 | -0.036 | -0.122 | 0.197 |
| PS | -0.171 | 0.043 | 0.161 | **0.461** | 0.175 | **-0.327** | **0.313** |
| NMB | 0.002 | 0.071 | **-0.305** | 0.281 | **0.421** | 0.191 | -0.105 |
| NP | 0.034 | 0.091 | -0.177 | **0.382** | 0.006 | **0.412** | 0.266 |
| PL | 0.000 | 0.277 | 0.272 | **-0.343** | 0.239 | 0.070 | -0.067 |
| PW | 0.080 | **0.344** | 0.005 | 0.010 | 0.060 | 0.120 | 0.247 |
| SL | 0.144 | **0.389** | 0.103 | -0.103 | 0.140 | -0.110 | 0.100 |
| SW | -0.091 | **0.409** | -0.111 | -0.002 | -0.102 | -0.216 | 0.084 |
| DM | **0.333** | 0.145 | 0.023 | 0.189 | 0.008 | -0.085 | -0.120 |
| DE | -0.003 | 0.271 | -0.294 | 0.033 | -0.044 | 0.013 | **-0.571** |
| HSW | 0.029 | **0.399** | 0.256 | 0.068 | -0.032 | -0.105 | 0.083 |
| Growth Habit | -0.005 | 0.078 | -0.152 | **-0.323** | **-0.463** | 0.192 | 0.267 |
| Branching Pattern | **0.372** | 0.108 | 0.026 | -0.030 | -0.024 | -0.072 | 0.043 |
| Leaf Color | 0.135 | 0.163 | -0.042 | -0.169 | -0.066 | **0.349** | 0.254 |
| Leaflet Shape | 0.291 | -0.002 | -0.156 | -0.084 | 0.124 | -0.126 | 0.123 |
| Pod Beak | -0.189 | 0.076 | **0.351** | -0.015 | 0.129 | **0.329** | -0.294 |
| Pod Constriction | -0.187 | 0.105 | **0.338** | -0.037 | -0.166 | -0.213 | -0.119 |
| Pod Reticulation | -0.172 | 0.023 | 0.090 | -0.165 | **0.453** | **0.312** | 0.134 |
| Seed Colour | 0.113 | 0.091 | 0.213 | **0.415** | **-0.432** | **0.307** | -0.104 |
| Primary Seed Colour | 0.231 | 0.073 | 0.268 | 0.162 | 0.000 | 0.125 | -0.198 |
| Eigen value | 4.652 | 3.854 | 2.087 | 1.475 | 1.319 | 1.143 | 1.046 |
| Percent | 20.225 | 16.758 | 9.075 | 6.414 | 5.733 | 4.969 | 4.549 |
| Cumulative | 20.225 | 36.983 | 46.058 | 52.472 | 58.204 | 63.173 | 67.722 |

DE = days to 50% emergence; DFF=days to 50% flowering, LL=leaf length, LW=leaf width, PH=Plant height, PS=Plant spread, NMB=Number of main branches, NP= Number of pods, PL=Pod length, PW=Pod width, SL=Seed length, SW=Seed width, DM=days to maturity, HSW=Hundred seed weight.