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| **Table S1 - Results of a stepwise discriminant analysis performed using 9 botanical varieties, as the classification variables and values of standardised coefficients for the canonical variables included in the discriminant functions.**  |
|  |  Wilks Lambda  | p-level |  |  |  | root 1 |  root 2 |
| Glume pubescence | 0,0029 | 0,0000 |  |  |  | 1,02 | 0,08 |
| Awn color  | 0,0020 | 0,0000 |  |  |  | 0,01 | 1,30 |
| Glume color  | 0,0009 | 0,0000 |  |  |  | 0,00 | -0,24 |
| Awn/ear length ratio | 0,0007 | 0,0003 |  |  |  | 0,29 | 0,19 |
| Seed lenght | 0,0006 | 0,0125 |  |  |  | 0,02 | -0,17 |
| Straw solidity | 0,0006 | 0,0255 |  |  |  | 0,11 | 0,14 |
| Awn color (base) | 0,0005 | 0,1516 |  |  |  | 0,17 | -0,02 |
| Nerve presence on glume  | 0,0005 | 0,1638 |  |  |  | -0,35 | -0,14 |
| Mucrone length | 0,0005 | 0,1110 |  |  |  | 0,29 | 0,27 |
| prominent keel on glume | 0,0005 | 0,1601 |  |  |  | -0,01 | 0,11 |
| Seed hair lenght | 0,0005 | 0,3602 |  |  |  | -0,11 | 0,17 |
| Awn color (tip) | 0,0005 | 0,2367 |  |  |  | -0,14 | -0,36 |
| Plant height | 0,0005 | 0,3237 |  |  |  | 0,00 | 0,11 |
| Shape of lower glume beak | 0,0005 | 0,2653 |  |  |  | 0,02 | -0,11 |
| Ear shape | 0,0005 | 0,2503 |  |  |  | 0,04 | 0,08 |
| ear density | 0,0005 | 0,4426 |  |  |  | 0,00 | 0,32 |
| **Variables in model (n°): 16****Lambda Wilks: 0,0004451** **approx. F (128,531) = 7,9619; p < 0,0000** |  **Eigenvalue****Explained cumulative** **variance (%)**  |  **16,4 10,4** **54 88** |