**Table S5** Correlation coefficients for kernel traits with spikelet number per spike (SNS), plant height (PH), productive tiller number (PTN), flag leaf length (FLL), flag leaf width (FLW), spike length (SL), spike density (SD) and heading date (AD) in 2SY population

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 　 | SNS | PH | PTN | FLL | FLW | SL | SD | AD |
| KL | -0.02 | 0.11 | -0.20\* | 0.21\* | 0.15 | 0.40\*\* | -0.41\*\* | -0.03 |
| KW | 0.11  | 0.28\*\* | -0.18\* | 0.09 | 0.19\* | 0.21\* | -0.12  | 0.06 |
| KT | 0.12  | 0.23\*\* | -0.12 | 0.14  | 0.16 | 0.31\*\* | -0.22\* | 0.13 |
| TKW | -0.03 | 0.32\*\* | -0.16  | 0.12 | 0.19\* | 0.36\*\* | -0.36\*\* | 0.01 |
| LWR | 0.02 | -0.04 | 0.04 | 0.06  | 0.02 | 0.20\* | -0.19\* | -0.08 |
| KS | 0.12 | 0.25\*\* | 0.14 | 0.19\* | 0.19\* | 0.38\*\* | -0.30\*\* | 0.04 |
| FFD | 0.05 | 0.22\*\* | -0.04 | -0.03 | 0.07 | 0.18\* | -0.12 | 0.03 |

\* Correlation is significant at the 0.05 level, \*\* Correlation is significant at the 0.01 level.