**S2 Table.**  **Coefficients of correlations between grain yield in different provinces of Canada, states of USA and regions of Russia and Ukraine, 1981-2015.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Regions | Saskatchewan | Manitoba | Minnesota | N. Dakota | S. Dakota | Samara | Saratov | Kostanay | Omsk | Astana | Barnaul | Novosibirsk |
| Alberta | 0.86\*\*\* a | 0.64\*\*\* | 0.47\*\* | 0.56\*\*\* | 0.70\*\*\* | 0.19 | 0.30 | 0.10 | -0.03 | 0.11 | -0.29 | -0.07 |
| Saskatchewan |  | 0.76\*\*\* | 0.55\*\*\* | 0.69\*\*\* | 0.70\*\*\* | 0.24 | 0.22 | 0.17 | -0.03 | 0.20 | -0.23 | -0.08 |
| Manitoba |  |  | 0.84\*\*\* | 0.89\*\*\* | 0.82\*\*\* | 0.36\* | 0.34\* | 0.21 | 0.06 | 0.19 | -0.07 | 0.15 |
| Minnesota |  |  |  | 0.87\*\*\* | 0.82\*\*\* | 0.25 | 0.19 | 0.21 | 0.11 | 0.22 | 0.10 | 0.23 |
| N. Dakota |  |  |  |  | 0.89\*\*\* | 0.28 | 0.24 | 0.11 | 0.13 | 0.16 | 0.02 | 0.20 |
| S. Dakota |  |  |  |  |  | 0.28 | 0.34\* | 0.11 | 0.14 | 0.12 | -0.08 | 0.22 |
| Samara |  |  |  |  |  |  | 0.70\*\*\* | 0.38\* | 0.31 | 0.32 | 0.11 | 0.28 |
| Saratov |  |  |  |  |  |  |  | 0.35\* | 0.17 | 0.23 | 0.03 | 0.03 |
| Kostanay |  |  |  |  |  |  |  |  | 0.32 | 0.71\*\*\* | 0.03 | 0.19 |
| Omsk |  |  |  |  |  |  |  |  |  | 0.39\* | 0.38\* | 0.56\*\*\* |
| Astana |  |  |  |  |  |  |  |  |  |  | 0.20 | 0.29 |
| Barnaul |  |  |  |  |  |  |  |  |  |  |  | 0.64\*\*\* |

a - \*; \*\*; \*\*\* - significant at P<0.05; 0.01 and 0.001, respectively