**S5 Table.** **The values of r2 for precipitation on years (1981-2015) for each month from April to August, sum of precipitation for April-August and yearly precipitation.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site# | Site | r2 calculated for precipitation on years for 1981-2015 | | | | | | |
| April | May | June | July | August | Apr.-Aug. | Year |
| 1 | Beaverlodge, AB | 0.02 | 0.06 | 0.04 | 0.07 | 0.09 | 0.00 | 0.03 |
| 2 | Lethbridge, AB | 0.29\*\*\*a | 0.00 | 0.12\* | 0.00 | 0.00 | 0.11 | 0.14\* |
| 3 | Saskatoon, SK | 0.20\* | 0.01 | 0.15\* | 0.01 | 0.01 | 0.09 | 0.11 |
| 4 | Swift Current, SK | 0.32\*\*\* | 0.00 | 0.13\* | 0.05 | 0.01 | 0.07 | 0.12\* |
| 5 | Brandon, MB | 0.14\* | 0.08 | 0.03 | 0.00 | 0.00 | 0.05 | 0.16\* |
| 6 | Glenlea, MB | 0.22\*\* | 0.26\*\*\* | 0.00 | 0.00 | 0.00 | 0.06 | 0.10 |
| 7 | Crookston, MN | 0.12\* | 0.14\* | 0.04 | 0.00 | 0.00 | 0.14\* | 0.19\*\* |
| 8 | St. Paul, MN | 0.02 | 0.03 | 0.03 | 0.01 | 0.01 | 0.05 | 0.00 |
| 9 | Carrington, ND | 0.05 | 0.09 | 0.01 | 0.00 | 0.04 | 0.11 | 0.15\* |
| 10 | Langdon, ND | 0.13\* | 0.13\* | 0.00 | 0.01 | 0.04 | 0.12\* | 0.13\* |
| 11 | Brookings, SD | 0.05 | 0.08 | 0.05 | 0.02 | 0.04 | 0.11 | 0.10 |
| 12 | Selby, SD | 0.01 | 0.05 | 0.03 | 0.03 | 0.02 | 0.05 | 0.08 |
| 13 | Samara, RU | 0.01 | 0.08 | 0.01 | 0.02 | 0.04 | 0.01 | 0.01 |
| 14 | Saratov, RU | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.01 |
| 15 | Barnaul, RU | 0.02 | 0.00 | 0.02 | 0.00 | 0.06 | 0.02 | 0.01 |
| 16 | Omsk, RU | 0.05 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.04 |
| 17 | Kostanay, KZ | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 |
| 18 | Astana, KZ | 0.03 | 0.00 | 0.01 | 0.11 | 0.06 | 0.10 | 0.22\*\* |
| 19 | Novosibirsk, RU | 0.02 | 0.01 | 0.03 | 0.07 | 0.06 | 0.04 | 0.07 |

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