**Table S6.** Principal Component Analysis: 5 components were extracted

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Soil parameter** | **Factor / Input sources** | | | | |
| **1 – irrigation water and fungicides** | **2 –** **atmospheric deposition from diffuse sources** | **3 – mineralogic composition of soils** | **4 -organic fertilizers** | **5 – mineral fertilizers** |
| OM | -0.24 | 0.003 | -0.111 | **0.691** | -0.417 |
| P | 0.182 | -0.190 | **0.483** | 0.013 | **0.633** |
| K | 0.015 | -0.651 | **0.416** | -0.170 | -0.204 |
| Cu | **0.846** | -0.009 | 0.091 | 0.137 | -0.260 |
| Zn | **0.795** | 0.135 | 0.046 | 0.018 | -0.063 |
| Fe | 0.206 | -0.474 | **0.680** | 0.096 | -0.088 |
| Mn | 0.089 | **0.675** | **0.429** | -0.354 | -0.221 |
| Ni | **0.731** | 0.102 | -0.372 | 0.076 | **0.347** |
| Cd | **0.607** | -0.047 | -0.175 | -0.022 | **0.224** |
| Pb | **0.226** | **0.771** | -0.005 | 0.035 | 0.036 |
| Cu | **0.919** | -0.185 | 0.024 | 0.173 | -0.086 |
| DTPA |
| Zn | **0.900** | -0.086 | -0.142 | 0.121 | 0.053 |
| DTPA |
| Fe | 0.002 | -0.404 | **0.360** | **0.434** | 0.167 |
| DTPA |
| Mn | -0.248 | **0.640** | **0.207** | **0.504** | 0.050 |
| DTPA |
| Ni | -0.130 | **0.779** | **0.368** | **0.279** | **0.201** |
| DTPA |
| Cd | **0.831** | 0.023 | 0.023 | 0.110 | -0.178 |
| DTPA |
| Pb | **0.519** | **0.483** | **0.293** | -0.387 | -0.164 |
| DTPA |