**Effect of reduced nitrogen fertilization (according to the EC's "Field to Table" strategy) on the chemical and biological traits of soils under maize crops\*\***

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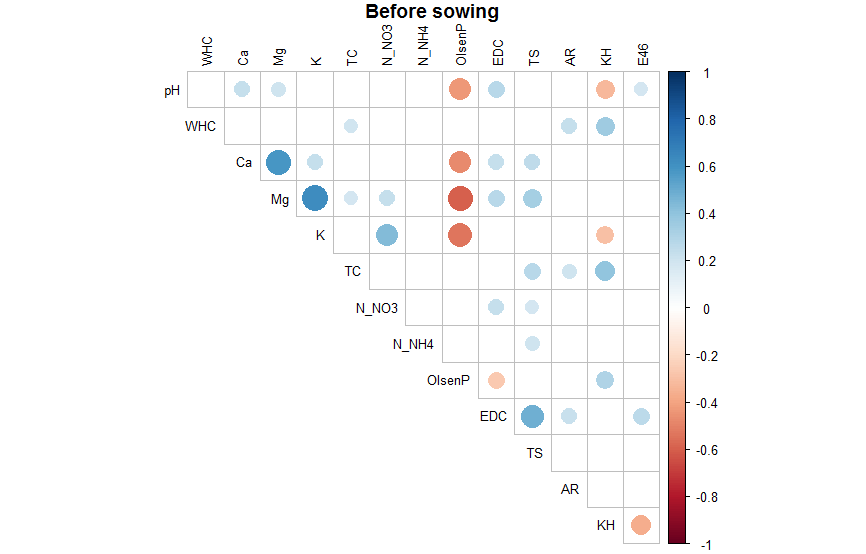
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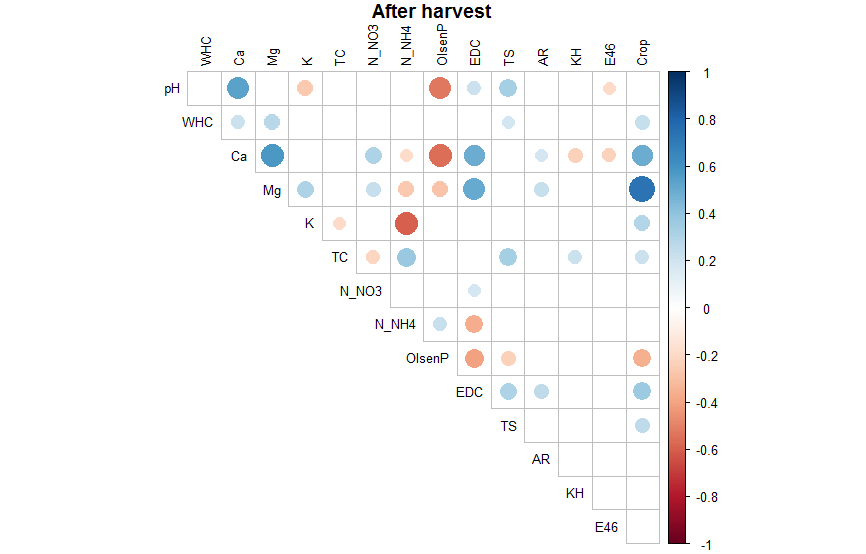
SUPPLEMENTARY MATERIALS

**Table S1.** The correlation analysis between studied parameters with r-value given with their significance (\* - p < 0.05, \*\* - p < 0.01).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **pH** | **WHC** | **Ca** | **Mg** | **K** | **TC** | **N-NO3** | **N-NH4** | **Olsen P** | **EDC** | **TS** | **AR** | **CKH** |
| **PPW** | .591 \*\* | -- |  |  |  |  |  |  |  |  |  |  |  |
| **Ca** | .725 \*\* | .662 \*\* | -- |  |  |  |  |  |  |  |  |  |  |
| **Mg** | .63 6\*\* | .703 \*\* | .804 \*\* | -- |  |  |  |  |  |  |  |  |  |
| **K** | .583\* \* | .616 \*\* | .614 \*\* | .774 \*\* | -- |  |  |  |  |  |  |  |  |
| **TC** | .313 \*\* | .430 \*\* | .312 \*\* | .433 \*\* | .328 \*\* | -- |  |  |  |  |  |  |  |
| **N-NO3** | -.596 \*\* | -.621 \*\* | -.534 \*\* | -.532 \*\* | -.477 \*\* | -.328 \*\* | -- |  |  |  |  |  |  |
| **N-NH4** | .644 \*\* | .639 \*\* | .561 \*\* | .575 \*\* | .542 \*\* | .512 \*\* | -.644 \*\* | -- |  |  |  |  |  |
| **Olsen P** | .434 \*\* | .615 \*\* | .416 \*\* | .506 \*\* | .55 4\*\* | .374 \*\* | -.659 \*\* | .734 \*\* | -- |  |  |  |  |
| **EDC** | .760 \*\* | .749 \*\* | .791 \*\* | .820 \*\* | .764 \*\* | .451 \*\* | -.686 \*\* | .735 \*\* | .694 \*\* | -- |  |  |  |
| **TS** | .472 \*\* | .453 \*\* | .404 \*\* | .474 \*\* | .375 \*\* | .453 \*\* | -.364 \*\* | .406 \*\* | .300 \*\* | .556 \*\* | -- |  |  |
| **AR** | .598 \*\* | .624 \*\* | .628 \*\* | .659 \*\* | .561 \*\* | .372 \*\* | -.574 \*\* | .583 \*\* | .593 \*\* | .744 \*\* | .407 \*\* | -- |  |
| **CKH** | -.530 \*\* | -.353 \*\* | -.493 \*\* | -.482 \*\* | -.540 \*\* | -.009 | .379 \*\* | -.405 \*\* | -.374 \*\* | -.502 \*\* | -.191 \*\* | -.334 \*\* | -- |
| **E4/6** | -.307 \*\* | -.266 \*\* | -.318 \*\* | -.202 \*\* | -.171 \*\* | -.106 | .234 \*\* | -.137 \* | -.184 \*\* | -.287 \*\* | -.131 \* | -.237 \*\* | .085 |



**Figure S1.** Correlogram between studied parameters for data collected before sowing maize.



**Figure S2.** Correlogram between studied parameters for data collected after harvesting maize.