Table *S*3

Berger-Parker dominance index (*d*) of soil seed bank under different treatments in the winter wheat field in NCP.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Weed species (Latin binomial)** | **Family** | **CT-NS** | **CT-CS** | **NT-NS** | **NT-CS** |
| *Setaria viridis* (L.) Beauv. | Poaceae | 0.0308 | 0.2545 | 0.0532 | 0.1979 |
| *Digitaria sanguinalis* (L.)Scop. | Poaceae | 0.6541 | 0.3455 | 0.6920 | 0.2198 |
| *Eleusine indica* (L) Gaertn. | Poaceae | 0.0308 | 0.0182 | 0.0228 | 0.0110 |
| *Leptochloa chinensis* (L) Nees | Poaceae | / | 0.0182 | 0.0038 | / |
| *Chloris virgata*Sw. | Poaceae | / | 0.0364 | 0.0038 | 0.0440 |
| *Descurainia sophia* (L.) Webb. Ex Prantl | Brassicaceae | / | 0.0182 | / | 0.0989 |
| *Capsella bursa-pastoris* (L) Medic. | Brassicaceae | 0.0103 | 0.0182 | / | / |
| *Acalypha australis* | Euphorbiaceae | 0.0034 | / | 0.0038 | / |
| *Euphorbia maculata* L. | Euphorbiaceae | / | / | 0.0038 | / |
| *Echinops prostrata* L. | Asteraceae | 0.1062 | / | 0.0114 | / |
| *Erigeron canadensis* L. | Asteraceae | / | / | 0.0114 | 0.0549 |
| *Lithospermum arvense* L. | Boraginaceae | 0.0034 | 0.0182 | 0.0114 | 0.0110 |
| *Portulaca oleracea* L. | Portulacaceae | 0.1507 | 0.0727 | 0.0760 | 0.0879 |
| *Chenopodium album* L. | Chenopodiaceae | 0.0068 | 0.1273 | 0.0114 | 0.1209 |
| *Lagopsis supina* (Steph. Ex Willd.) | Lamiaceae | 0.0034 | / | 0.0076 | / |
| *Cyperus rotundus* L. | Cyperaceae | / | 0.0364 | 0.0608 | 0.1099 |
| *Amaranthus blitum* L. | Amaranthaceae | / | 0.0182 | 0.0076 | / |
| *Abutilon theophrasti* Medicus | Malvaceae | / | 0.0182 | / | 0.0110 |
| *Veronica polita* Fries | Plantaginaceae | / | / | 0.0114 | / |
| *Galium spurium* L. | Rubiaceae | / | / | 0.0038 | / |
| *Humulus scandens* (Lour.) Merr. | Cannabaceae | / | / | 0.0038 | 0.0110 |
| *Convolvulus arvensis* L. | Convolvulaceae | / | / | / | 0.0220 |

CT-NS: conventional tillage with no crop residue, CT-CS: conventional tillage with crop residue, NT-NS: no-till with no crop residue, NT-CS: no-till with crop residue.

The “/” indicates the weed species was not found in the plot.